

SUPPLIER OF HEAVY MARINE EQUIPMENT SINCE 1983

A LETTER FROM THE PRESIDENT

As a recognized leader in the industry, Anchor Marine has a complete stock of anchors and anchor chain, buoys, towing gear, and oil booms as well as deck and dock hardware such as marine fendering, bollards, cleats, hatches and watertight doors. Our extensive inventory includes domestic and import products, along with new and used surplus equipment by maintaining a large inventory on the East, West, and Gulf Coast. We are prepared to meet the needs of our customers nationally and to expedite deliveries 24 hours a day, seven days a week. Our experienced import and export department is equally prepared to provide direct marketing services worldwide. If a rental agreement is needed, we have convenient long term, daily or weekly rental options available.

A catalog cannot cover all the products we sell, so if you need something not shown, please give one of our knowledgeable salespeople an opportunity to help you locate the equipment you need. We are here to be your source for marine equipment whenever and wherever you need it.

Sincerely,



D. David Tomasi, President
Anchor Marine & Industrial Supply
An Anchor Marine & Waterman Supply Joint Venture

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HOUSTON (713) 644-1183 | FAX (713) 644-1185 | TOLL FREE 1 (800) 233-8014 | EMAIL Sales@AnchorMarineHouston.com
Anchor MARINE & INDUSTRIAL SUPPLY, INC.



GENERAL INFORMATION

Accommodation Ladders
Anchor Buoys
Anchor Chain
Anchors
Anchor Fittings
Anodes

Barge Cleats
Bearings (Cutlass, Flanged)
Bitts
Blocks
Bollards
Bolts
- Dome Head marine bolts
- anchor bolts Monel SS & Gal
- Stud bolts Monel SS & Gal
- Headed Bolts to any ASTM Spec.
- Eye Bolts SS & Gal
- Lag Screws
- Flat Head Lag Screws
- Threaded Rods
- U-Bolts
- Wedge Anchors (WEJ-IT)

Boom, Oil Control
Bridles, Chain
Bridles, Towing
Bumpers
Buoys
Buoy Hooks, Quick Release

Cable Clamps
Capstans
Car Pullers
Cargo Blocks
Cargo Hoists
Cargo Hooks
Cargo Nets
Capenter Stoppers
Castings
Chain-All Types
- SS, Long Link Dock Fender, Lashing, Studlink, Mooring, Buoy, Proof Coil, Hi-Test, Grade 28, 40, 43, 70, 80, BBB

Chain Connectors
Chain Hooks
Chain Ladders
Chocks
Cleats
Cordage

Deck Fittings
Deck Winches
Dock Cleats
Dock Fender Tires
Dock Fittings
Docking Lines
Dog Bone Shackles
Doors, Steel Joiner Doors, Watertight
Dredge Curtains
Embarkation Ladders

Fairleads, Bulkhead Fairleads, Deck Fendering
Fenders (Yokohama)
Fishplates (A.B.S. Cert)
Floats
Gangways
Guywire
Gypsy Heads

Hatches, Watertight Hardware, Marine Hawsers
Hoists, Hooks
Hoist Blocks
Hoist Slings
Hoists – All
Hooks, Quick Release
Hose Floats

Jack Chain
Jacob's Ladders

Kevels

Ladders
Lashing Equip
Lighted Buoys

Mampaey Release Hooks
Manholes
Manila Rope
Mooring Buoys
Mooring Winches

Navigational Lights
Navigational Aides

O.G. Washers
Oil Skimmers
Oil Sorbents
Oil Spill Boom

Pad Eyes
Panama Chocks
Pelican Hooks
Pendent Lines
Personnel Transfer Nets
Pilot Ladders
Polyform Buoys
Portlights
Push-knees

Quick Act, Hatches
Quick Release Mampaey Hooks

Rigging Blocks
Rig, Turnbuckles
Roller Chocks
Rope
Rubber Dock Bumpers
Rubber Bumper Sytems

Scuttles
Shackles (Rated & Non-Rated)
Shear Plates (Teco)
Sheaves
Slings
Snatch Blocks
Sockets, Wire Rope
Spike Grids (Teco)
Stainless Steel
- Anchor Bolts
- Chain
- Eyebolts
- Fittings
- Shackles
- Smooth Snaps
- Swivels
- Turnbuckles
- Wire Rope
- Wire Rope Stables

Subsurface Buoys
Swivels

Tackle Block Sheave
Thimbles
Towing Bitts
Towing Brackets
Towing Shackes
Towing Plates
Tow Ropes
Tow Wires
Transportation Tie Down Equip
- Truck Winches Portable & Std.
- Ratchet Buckles
- Wide, Handle & Std.
- Nylon Slings & Straps
- Load Binders
- Transportation Chain-Grade 70-80

Turnbuckles

Ullage Hatches
Underwater Buoys
Urethane Capped Fenders

Watertight Doors
Welded Chain
Winches
Windlasses
Wire Rope
Wire Rope Stoppers
Wire Rope Clips
Wire Rope Sockets
Wire Rope Staples SS & Galv
Wire Rope Thimbles
Yokohama Fenders

GENERAL CAUTIONS OR WARNINGS

Ratings shown in this literature are applicable only to new products.

Load limit ratings indicate the greatest force or load a product can carry under usual enviornmental conditions. Shock loading and extraordinary conditions must be taken into account when selecting products for use in a system.

The Working Load Limit or Design Factor of each product may be affected by wear, misuse, overloading, corrosion, deformation, intentional alteration and other use conditions. Regular inspection must be conducted to determine whether use can be continued at the catalog assigned work load limit, or withdrawn from service.

Side loading must be avoided, as it exerts additional force or loading which the product is not designed to accommodate.

Hook latches are made to retain loose slings or devices under slack conditions. they are not intended to be anti-fouling devices; therefore, the latch must be prevented from supporting and load. Regular latch inspection is recommended to ensure proper operation.

The information in this catalog was obtained from sources which we believe are reliable. The information, however, is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

Anchor Marine assumes no responsibility for the use or misapplication of any products sold by this firm. Our products are sold with the express understanding that the purchaser and/or user is thoroughly familiar with the correct application and proper use for which it is being purchased.

Note: Consult OSHA – Federal – Military – or State Regulations before using any product in this catalog.



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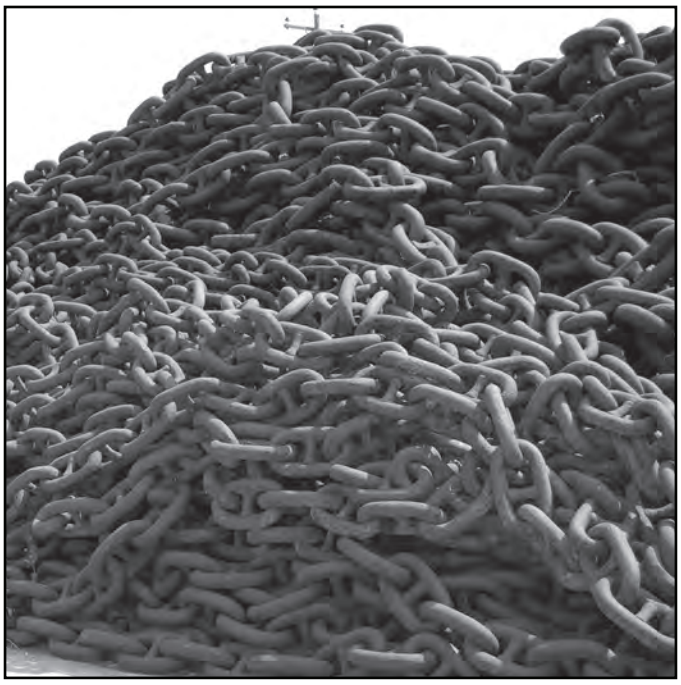
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New & Used Anchors 4lb. — 60,000lb. • Deck & Dock Hardware • Towing & Salvage Gear
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ANCHOR MARINE









ANCHOR MARINE









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ANCHOR MARINE





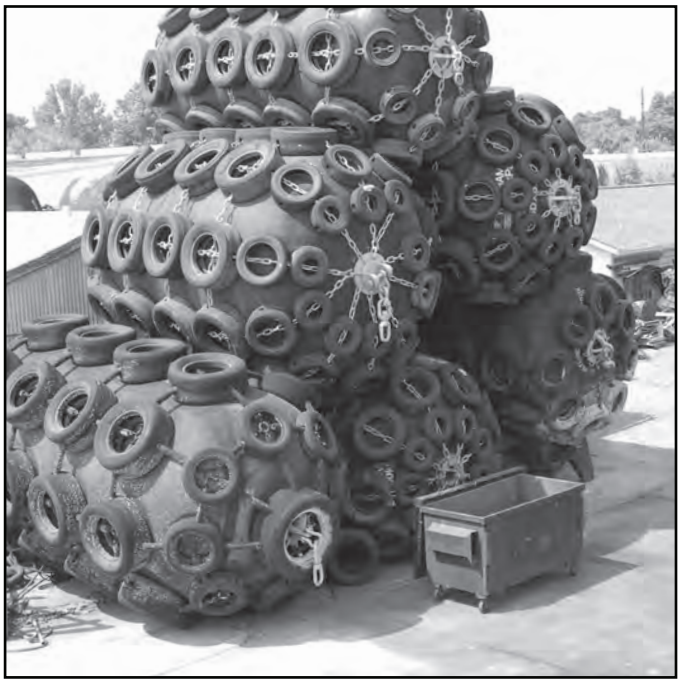




ANCHOR MARINE









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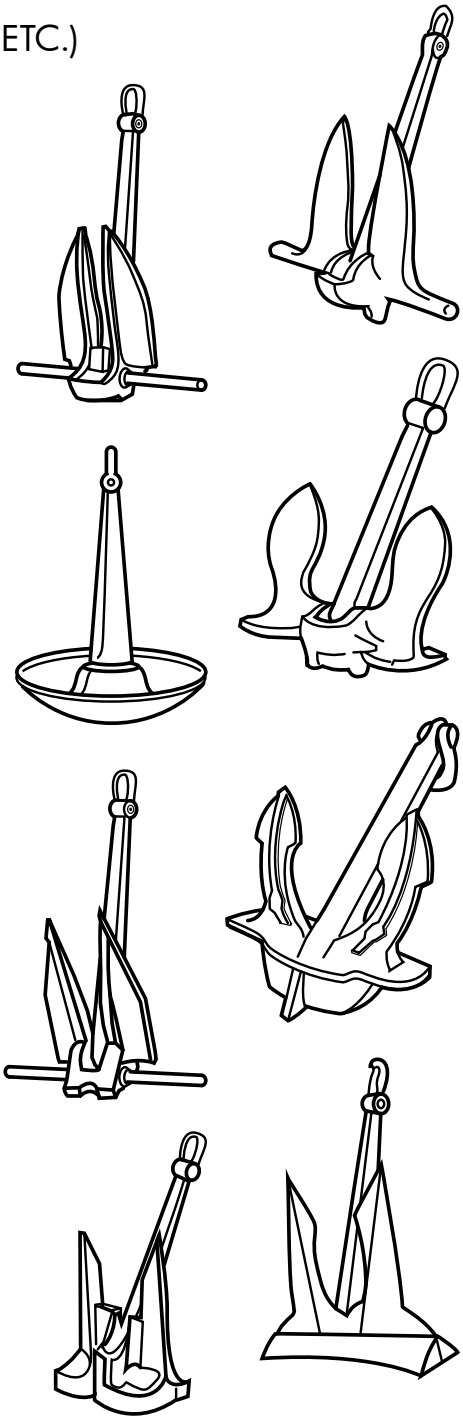
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ANCHORS

GIGANTIC INVENTORY
USED AND NEW WITH CERTIFICATES

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DOMESTIC – IMPORTED

RENT OR SALE

ANCHORS

L.W.T

WORKBOAT

STOCKLESS TYPE – HALL TYPE

MUSHROOM TYPE – EELLS

KEDGE TYPE

NAVY PATTERN ANCHORS

AC-14 – SPEK TYPE

HIGH HOLDING POWER

STOCKS IN THE
WEST COAST
EAST COAST
GULF COAST

GIVE US A CALL

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ANCHORS

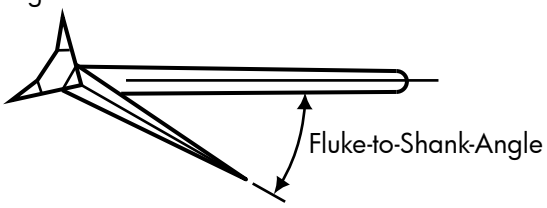
SELECTION

Because the anchor is the key to effective mooring or anchoring it is essential to know what to expect from various types. Any anchor's performance is dependent first upon its ability to bite into the bottom through the ploughing effect of its flukes and secondly upon its ability to maintain a continuous resistance to drag once it is implanted in the bottom.

Therefore, the optimum design of an anchor is influenced primarily by the specific composition of the ocean floor, which is generally categorized into three groups: mud, sand, and rock or marl. Mud varies the most in consistency and offers little resistance to dragging forces. Sand is almost ideally consistent and anchors specifically designed for sand bottoms reach excellent holding efficiency. On the other hand rock or marl is very poor holding ground, where an anchor's dead weight is its only asset.

An anchor's efficiency is expressed in holding-power ratio, that is the holding force per anchor weight. The proof test involves applying a static load to the assembled anchor to test its structural design and material properties as related to the holding force.

The holding power of an anchor is affected greatly by the angle of its flukes. In order for the flukes to enter the bottom of an angle that will allow the crown or head to penetrate to a depth producing maximum efficiency, the angle of the fluke to the shaft should approximate 50 degrees in the mud bottoms and 30 degrees in sand.



Anchor holding-power is also dependent upon other bottom conditions, the duration of drag and the ratio between the length of the mooring line and the water depth.

Recommended Applications [1]	Stockless	Snug-Stowing®	Lightweight	LWT® Danforth	Stato®	Moorfast®	Boss
Offshore Rig Mooring		X	X	X	X	X	
Supply/Support Vessels		X	X				
Pipelay Barges	X					X	
Fixed Mooring			X	X	X	X	X
Commercial Ships	X	X					
Tugboats	X	X	X				
Supertankers	X						
Minimum Performance Characteristics							
MUD — Holding Power Ratio[2]	3:1	5:1	9:1	9:1	9:1	9:1	32:1
MUD — Depth of Penetration (ft)	9-10	17-20	17-20	17-20	17-20	17-20	35-40
MUD — Breakout Force Ratio	2:1	3:1	5:1	5:1	5:1	5:1	6:1
MUD — Fluke-to-Shank Angle (degrees)	45°	43°	30°	30°	23°	34°	34°
SAND — Holding Power Ratio[2]	7:1	14:1	20:1	20:1	20:1	20:1	25:1
SAND — Depth of Penetration (ft)	3	6-8	6-8	6-8	6-8	6-8	10-15
SAND — Breakout Force Ratio	2:5:1	6:1	8:1	8:1	8:1	8:1	12:1
SAND — Fluke-to-Shank Angle (degrees)	45°	43°	30°	30°	34°	34°	34°
Optional Swivel Shackle[3]			X	X	X	X	
Padeye for Pendant Buoy Line			X	X	X	X	X

[1] These recommendations are based upon usage practice. Deviations are acceptable.
[2] These are minimum values only; actual bottom conditions could increase holding power considerably.
[3] Swivel shackles can be used to replace anchor shackle, anchor connecting link, and swivel.

WE ARE DIRECT IMPORTERS AND FACTORY DISTRIBUTORS

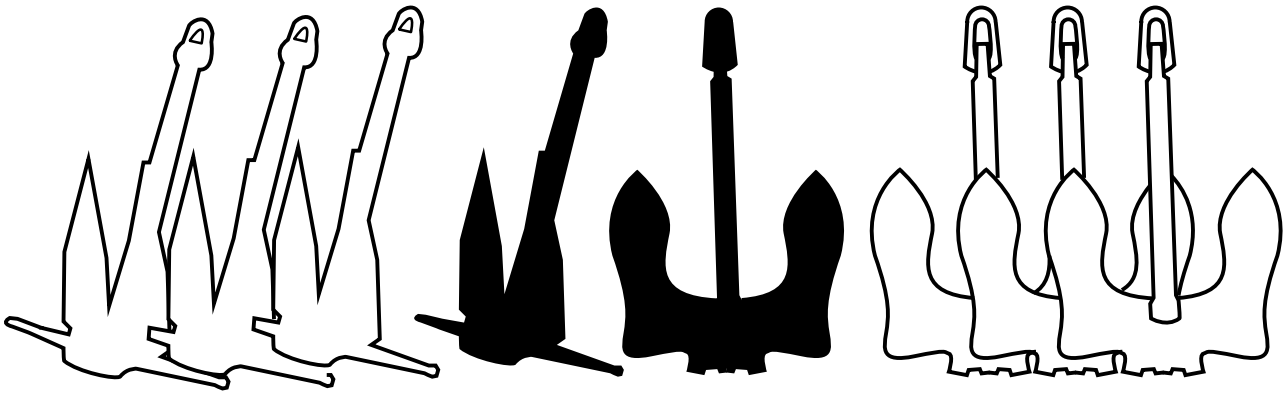
WE HAVE ONE OF THE LARGEST SELECTIONS OF **NEW AND USED ANCHORS** IN THE COUNTRY FOR IMMEDIATE DELIVERY. **DIRECT FACTORY SHIPMENTS** ALSO AVAILABLE AT NO EXTRA COST. WE KEEP OUR **STOCKS OF PRODUCTS IN THE WEST COAST, GULF COAST AND EAST COAST** TO EXPEDITE DELIVERIES. **GIVE US A CALL AT (800) 233-8014.**

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SELECTION



Optimum design of anchor is influenced by the specific composition of the ocean floor. Basically, we categorize the ocean bottoms into three groups:

1. Mud, or silt, which varies the most in consistency and offers little resistance to forces.
2. Sand, ideally the most consistent, and where anchors specifically designed, reach excellent holding efficiency.
3. Rock, or Marl, poor holding ground where an anchor's dead weight is its only asset.

The efficiency of an anchor in a given test is expressed in terms of "Holding power" per pound of its own weight, not in "Proof test" which indicates physical properties of the material.

The fluke angle of an anchor has a definite effect upon the "Holding Power". The flukes should enter the bottom at an angle that will allow the crown, or head, to penetrate to a depth which can produce maximum efficiency. Additionally, we have determined the following:

1. The angle of fluke penetration in mud bottom should be approximately 50°.
2. In sand the penetration angle should be in the area of 30°.
3. For anchoring in various bottoms a compromise approximating 43° is desirable.

Other considerations in selecting an anchor should include:

1. Convenience for handling and stowing.
2. Aptitude for taking hold.
3. Physical strength.
4. Freedom from fouling, which all anchors do, but some in lesser degrees.
5. Influence developed by the chain's catenary, which absorbs shock loads, and lowers the angle of pull at the anchor by its weight.

The anchor is the key to effective anchoring or mooring. It is essential to know what to expect from various anchors. The resistance of an anchor being dragged through a soil has been considered as occurring in two stages: first, biting into the bottom due to the ploughing effect of the flukes, and secondly, maintaining a continuous resistance to drag after it is planted into the bottom.

Holding power is directly proportional to projected fluke area, and shear strength of the bottom material, and inversely proportional to penetration-area resistance. In many cases, a smaller anchor with favorable fluke area to weight ratio is more dependable than a heavier anchor.

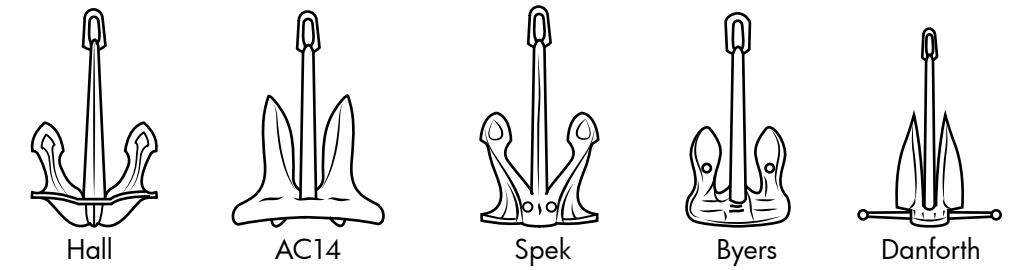
Holding power for the two most widely used anchors are as follows:

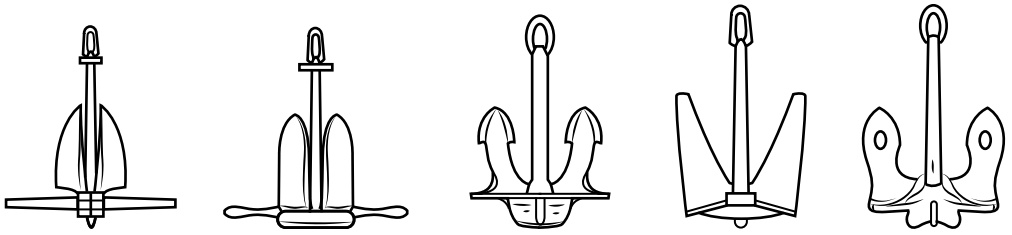
1. Stockless Type anchors in sand develop a holding power to weight ratio of seven to one. In mud it develops three to one. The angle of penetration in both cases is 45°.
2. Lightweight Type anchors in sand develop a holding power to weight ratio of twenty to one, with the angle of penetration being 30°. In mud it develops nine to one with the angle of penetration being 50°.

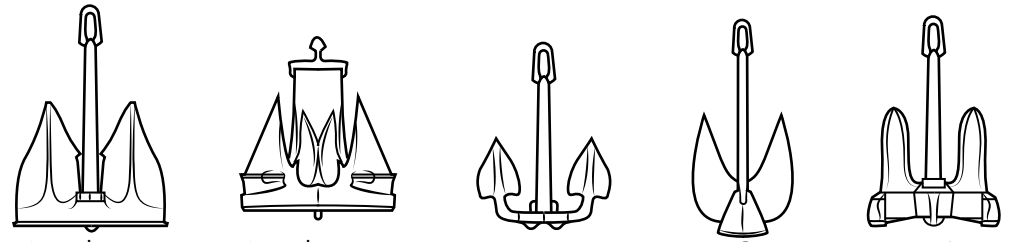
The depth of penetration in all preceding cases is compiled from three to seven feet in sand, and from seventeen to twenty feet in mud. All calculations incorporate a 0° scope angle.

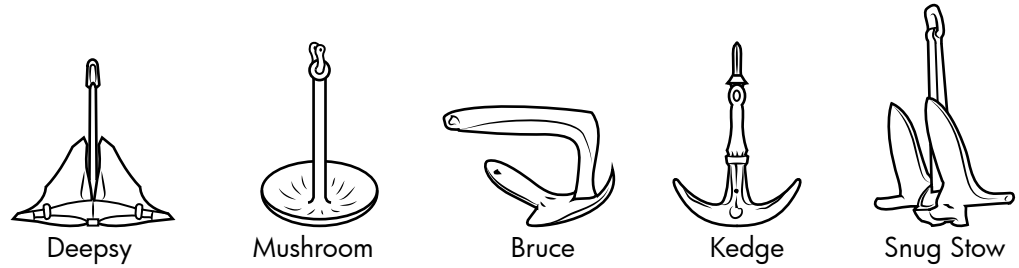
ANCHORS

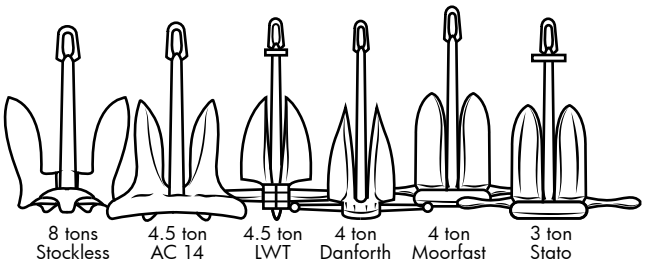
TYPES OF ANCHORS





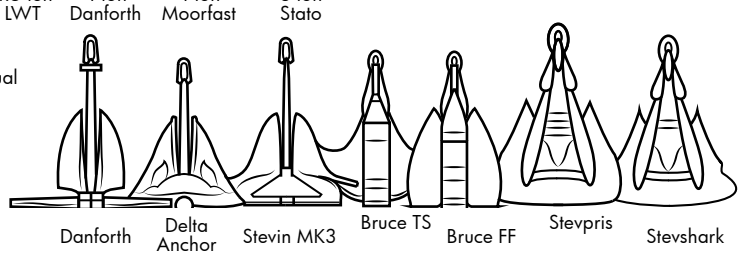






Anchor with identical holding power drawn at the same scale thus showing the difference in weight.

Various anchor types with equal weight and scale.



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TYPES OF ANCHORS FROM AROUND THE WORLD

No. 1 WORKBOAT OR DANFORTH TYPE

No. 2 L.W.T. OR LIGHTWEIGHT TYPE

No. 3 BYERS TYPE STOCKLESS ANCHOR

No. 4 SPEK TYPE ANCHOR

No. 5 NAVY TYPE STOCKLESS

No. 6 STANDARD STOCKLESS ANCHOR

No. 7-8 MUSHROOM TYPE

No. 9 BRUCE TYPE

No. 10 KEDGE OR ADMIRALTY

No. 11 AC-14 TYPE

No. 12 STATO TYPE

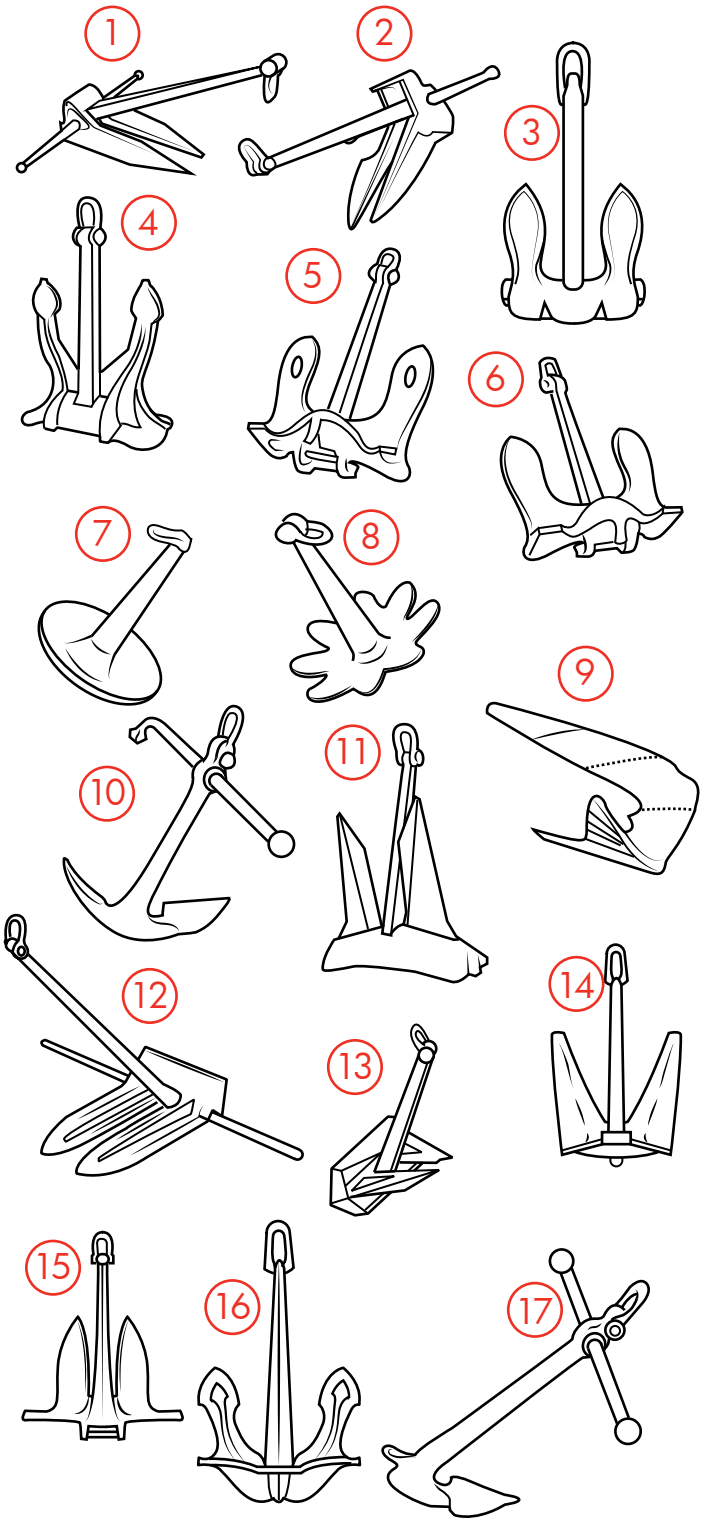
No. 13 DELTA ANCHOR

No. 14 POOL TYPE ANCHOR

No. 15 SNUG STOWING

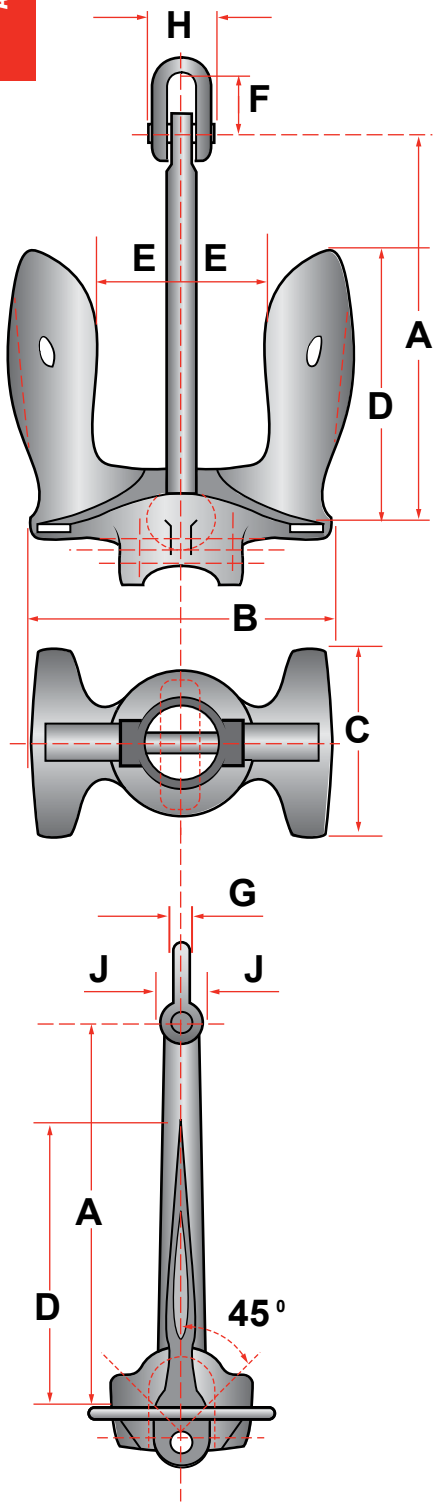
No. 16 HALL TYPE STOCKLESS ANCHOR

No. 17 SINGLE FLUKE / KEDGE TYPE



ANCHORS

U.S. NAVY STOCKLESS ANCHOR



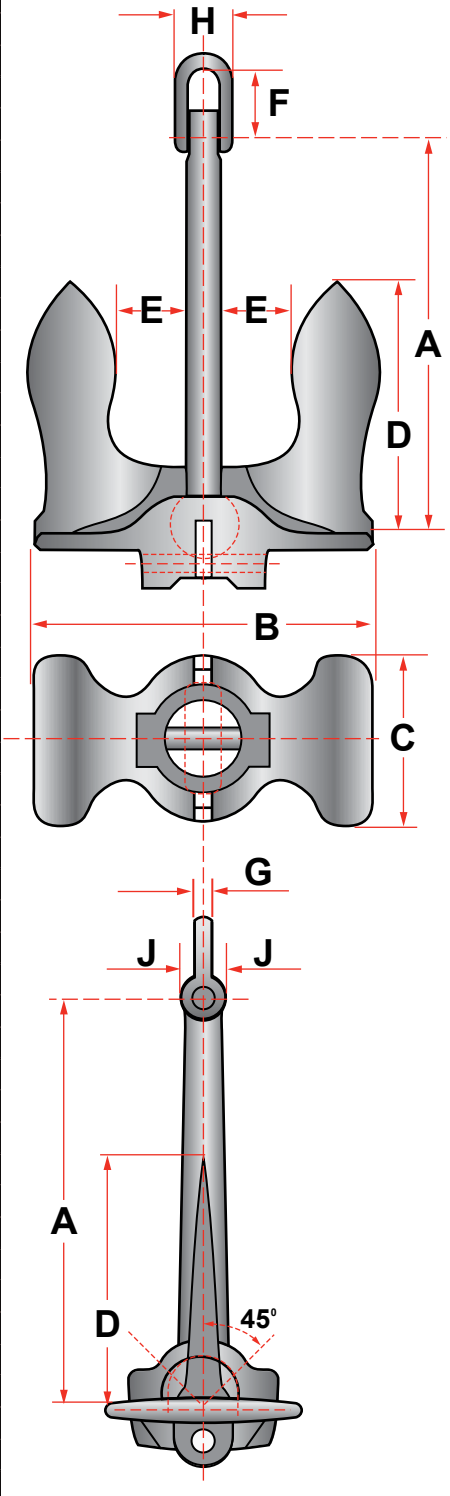
ANCHOR WT	A	B	C	D	E	F	G	H	J	PROOF TEST
300	28-5/8	22-1/8	13-3/4	20-5/16	6-7/16	6	1-1/8	4	3-1/2	11560
400	31-1/2	24-5/8	15-1/8	22-3/8	6-15/16	6-13/16	1-1/4	4-3/8	3-7/8	13520
500	34	26-1/4	16-1/4	24-3/32	7-1/2	6-5/16	1-5/16	4-11/16	4-1/8	15420
600	36	27-29/32	17-9/32	25-5/8	7-13/16	6-5/8	1-7/16	5	4-3/8	17270
800	39-11/16	30-11/16	19	28-3/16	8-3/4	7-5/16	1-9/16	5-9/16	4-7/8	20970
1000	42-3/16	33-1/8	20-1/2	30-3/8	9-13/32	7-15/16	1-11/16	6	5-1/4	24700
1200	45-3/8	35-1/8	21-3/4	32-1/4	10	8-3/16	1-7/8	6-3/8	5-1/2	28360
1300	46-5/8	36	22-3/8	33-1/8	10-9/32	8-11/16	1-3/4	6-3/8	5-11/16	30210
1500	49	37-7/8	23-1/2	34-3/4	10-3/4	9	2	6-7/8	6	33810
1800	52	40-1/4	24-15/16	36-15/16	11-7/16	9-9/16	2-1/16	7-5/16	6-3/8	39000
2000	54	41-11/16	25-13/16	38-1/4	11-7/8	9-15/16	2-1/8	7-9/16	6-1/2	42450
2200	54-5/8	43	26-5/8	39-1/2	12-1/4	10-1/4	2-3/16	7-13/16	6-3/4	45730
2500	58	44-7/8	27-13/16	41-1/4	12-3/4	10-3/4	2-1/4	8-3/16	7-3/16	50660
3000	63-1/2	50	30-1/2	44-1/2	13-7/8	11-1/4	2-3/8	8-1/2	7-1/2	58720
3500	64-7/8	50-1/8	31-1/16	46-3/32	14-9/32	12	2-1/2	8-15/16	7-7/8	66220
4000	67-7/8	52-1/2	32-9/16	48-7/32	14-15/16	12-1/2	2-11/16	9-9/16	8-13/16	73720
5000	73	56-9/16	35	51-15/16	16-1/16	13-1/2	2-7/8	10-1/4	9-1/8	87360
6000	77-3/4	60-3/16	37-5/16	55-1/4	17-1/8	14-5/16	3-1/16	10-15/16	9-5/8	99760
7000	82	63-1/4	39-1/4	58-1/16	18-1/32	15-1/8	3-3/16	11-1/2	9-15/16	111440
8000	85-1/2	66-1/4	41	60-3/4	18-7/8	15-3/4	3-3/8	12	10-3/8	121830
9000	88-7/8	68-3/4	42-5/8	63-1/8	19-5/8	16-3/8	3-1/2	12-1/2	10-13/16	131480
10000	92	71-1/4	44-1/8	65-3/8	20-5/16	17	3-5/8	12-15/16	13-3/16	140830
11000	95	73-9/16	45-5/8	67-1/2	20-29/32	17-1/2	3-3/4	13-3/8	11-3/4	149100
12000	97-7/8	75-3/4	47	69-1/2	21-19/32	18	3-7/8	13-3/4	11-7/8	156600
13000	100	77-3/8	46-5/8	71-1/16	22	18-3/8	3-15/16	14-1/8	12-5/16	164100
14500	104	80-5/8	50	74	22-9/16	19-3/16	4-1/8	14-5/8	12-7/8	174100
15000	105-1/2	82-1/4	51	73-1/4	23-1/8	19-5/8	4-1/4	15	13	177220
16000	107-11/16	83-11/32	51-5/8	76-1/2	23-23/32	19-7/8	4-1/4	15-1/8	13-1/4	183500
18000	112	86-5/8	53-3/4	79-9/16	24-5/8	20-5/8	4-3/8	15-3/4	13-13/16	194720
20000	116	89-3/4	55-5/8	82-7/16	25-1/2	21-7/16	4-1/2	16-1/4	14-5/16	204720
22500	120-1/2	93-5/16	57-13/16	85-11/16	26-17/32	22-1/4	4-3/4	17	14-7/8	217000
25000	125	96-11/16	59-15/16	88-13/16	27-1/2	22-15/16	5	17-9/16	15-7/16	232100
30000	132-3/4	102-11/16	63-5/8	94-1/4	29-7/32	24-7/16	5-1/4	18-11/16	16-3/8	252800
35000	139-3/4	108	67-1/16	99-5/16	30-3/4	25-3/4	5-1/2	19-11/16	17-1/4	269900
40000	146	113-1/6	70	103-1/8	32-1/4	27-1/8	5-5/8	20-1/2	17-3/4	284300
45000	152	117-5/8	72-7/8	108	33-7/16	28	6	21-3/8	18-3/4	296400
60000	188	125-3/4	87-5/16	132-7/8	38-11/16	29	7-1/2	24-1/2	20-1/2	372700

Intermediate sizes available upon request.
Dimensions above are in inches, anchor weight in pounds.
Certified drawings of anchors, listed above, and of intermediate and larger sizes may be furnished on request.

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STANDARD STOCKLESS ANCHOR

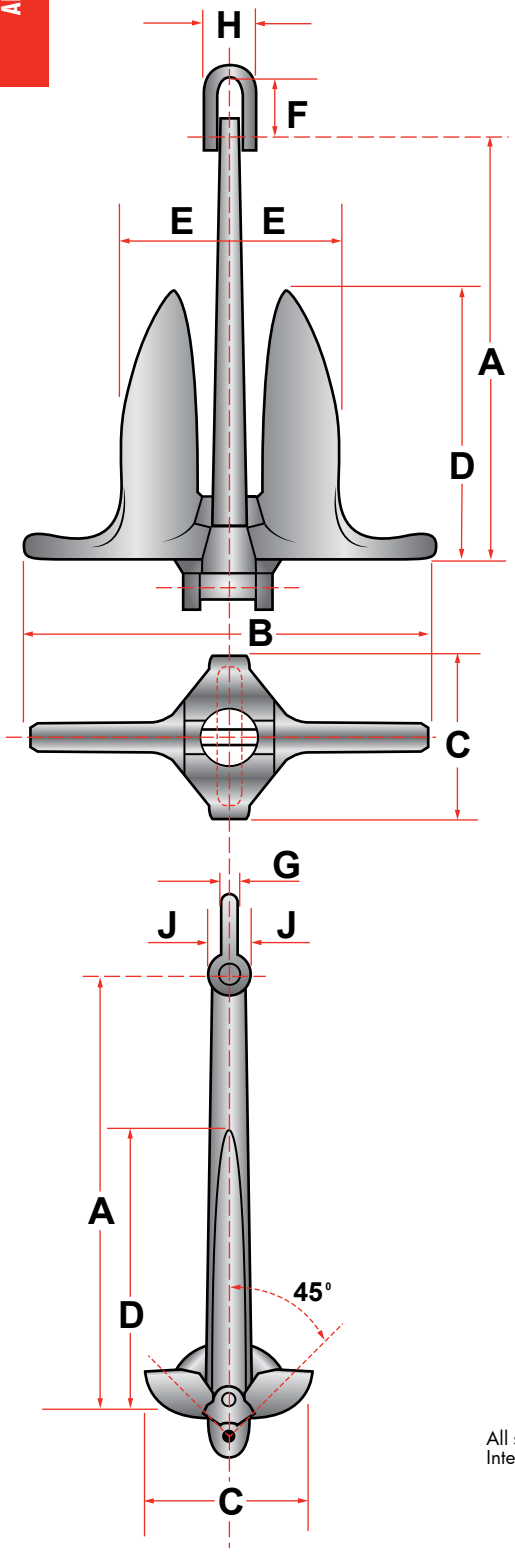
ANCHOR WT	A	B	C	D	E	F	G	H	J	PROOF TEST
200	27	18	9-1/2	15-1/8	5-1/8	5-1/2	1	5	4	8300
300	32	23-1/4	11-11/16	17-1/4	6-11/16	5-1/2	1	5	4-1/2	10900
400	32	25-3/4	13	19	7	5-1/2	1	5	4-1/2	13000
500	35	26-1/2	14	20	7	7	1-1/4	6	5-1/2	15000
700	38	29-1/2	15-5/8	23-1/2	8-1/8	7	1-1/4	6	5-3/4	19600
775	38	32	16-7/8	24-3/4	8-5/8	7	1-1/4	6	5-3/4	20050
900	42	32	17	24	9	7-1/2	1-1/2	6-1/2	6-1/2	22300
1000	42	33-5/8	18	25-1/8	9-3/4	7-1/2	1-1/2	6-1/2	6-1/2	24100
1260	46	36-3/8	18-3/4	28-3/8	9-7/8	8-1/2	1-3/4	7-1/2	6-3/4	28800
1430	49	39	20	29-7/8	10-3/4	9-3/4	2	8-1/2	7	31700
1540	49	40	20-1/2	30-1/2	11	9-3/4	2	8-1/2	7	33600
1600	49	40	20-1/2	30-1/2	11	9-3/4	2	8-1/2	7	34600
1750	52	41-1/2	21	33-1/4	11-3/8	9-3/4	2	8-1/2	7-1/4	37200
1875	52	43	22	34-3/4	12	9-3/4	2	8-1/2	7-1/4	39300
1950	52	43	22	34-3/4	12	9-3/4	2	8-1/2	7-1/4	40600
2000	58	44-3/4	23	33-3/8	12-1/8	9-3/4	2	8-1/2	7-1/2	43100
2500	58	44-3/4	23-1/4	33-3/8	12-1/8	9-3/4	2	8-1/2	7-1/2	49700
2800	58	48	25	35-7/8	13	9-3/4	2	8-1/2	7-1/2	54500
3000	64	47	25-1/2	36	12-3/4	12	2-1/2	10	8-3/4	57700
3500	64	52-3/4	27-1/2	39-1/2	14-1/4	12	2-1/2	10	8-3/4	65200
4000	70-5/8	53-1/4	27-1/2	39-1/4	14-1/2	12	2-1/2	10	9-1/2	72600
4500	70-5/8	56-3/4	29	42	15	12	2-1/2	10	9-1/2	79700
5000	76	57-1/2	30	42	15-5/8	15	3	12	10-1/4	86500
6000	76	63-1/2	33-1/4	47	17-1/4	15	3	12	10-1/4	99100
6300	76	63-1/2	33-1/4	47	17-1/4	15	3	12	10-1/4	102500
6500	82	63-1/2	33	47-5/8	17-1/4	15	3	12	10-3/4	105000
6750	82	65	33-3/4	48-3/4	17-5/8	15	3	12	10-3/4	108000
7000	82	66-5/8	34-3/4	49-3/4	18	15	3	12	10-3/4	110500
7600	82	67-1/2	34-3/4	49-3/4	18-3/8	15	3	12	10-3/4	117000
8100	93-1/2	66-1/4	34-1/4	48-7/8	18-1/4	17	3-1/2	13-1/4	11-1/2	122500
8600	93-1/2	68-1/2	35-3/4	50-1/2	18-1/2	17	3-1/2	13-1/4	11-1/2	127500
9000	96	70-1/4	36-3/8	51-3/4	19-1/8	17	3-1/2	13-1/4	11-1/2	131500
10000	96	75-1/2	39	58	21	19	4	14-3/4	12	140500
11000	96	75-1/2	39	58	21	19	4	14-3/4	12	148500
12000	96	76-3/4	40	58	20-3/4	19	4	14-3/4	12	156000
13000	98	76-3/4	40	58	20-3/4	19	4	14-3/4	12	163500
14000	103	80-1/2	44	60	22-1/4	19	4	14-3/4	13	170500
15000	103	86	46	65	24	19	4	14-3/4	13	177000
16000	108	86	46	65	24	19	4	14-3/4	13	185000
18000	112	88-1/4	48-1/4	65-5/8	24-3/4	22	4-1/2	16-3/4	13	200000
18900	112	88-1/4	48-1/4	65-5/8	24-3/4	22	4-1/2	16-3/4	13	207200
20000	112	96	50	72	26	22	4-1/2	16-3/4	14	214000
25000	120	103	53-3/4	77-1/2	28	22	4-1/2	16-3/4	15	243000
30000	128	110	57-1/4	82-1/2	29-7/8	24	5	18-3/4	16	266000
35000	135	116	60	87	31-1/2	25	5	19	17	292000
40000	140	121	63	91	32	26	5-1/2	20	17-1/2	320000
45000	147	126	65	94	34	27	5-1/2	21	18	345500
50000	152	131	68	99	35	28	6	21-1/2	19	371000



All specifications in pounds and inches.
Intermediate sizes may be furnished on request.

ANCHORS

SNUG STOWING ANCHOR



ANCHOR WT	A	B	C	D	E	F	G	H	J	PROOF TEST
200	30-7/8	29-11/16	12-1/16	20-1/8	16-3/16	3-3/4	1	3-11/16	2-3/4	10100
250	33-5/16	32	13	21-11/16	17-7/16	3-3/4	1	3-11/16	3	11600
300	35-3/16	34	13-3/4	23	18-1/2	3-3/4	1	3-11/16	3-1/8	13000
350	37-3/16	35-3/4	14-1/2	24-1/4	19-1/2	3-3/4	1	3-11/16	3-3/8	14300
400	38-7/8	37-3/8	15-1/4	25-3/8	20-3/8	3-3/4	1	3-11/16	3-1/2	15600
450	40-3/8	38-7/8	15-3/4	26-3/8	21-1/8	3-3/4	1	3-11/16	3-5/8	16900
500	41-3/4	40-1/4	16-3/8	27-1/4	21-7/8	4-5/8	1-1/4	4-17/32	3-3/4	18100
750	48	46	18-3/4	31-1/4	25-1/8	4-5/8	1-1/4	5-3/8	4-3/8	24100
1000	52-3/4	50-3/4	20-5/8	34-3/8	27-5/8	5-11/16	1-1/2	5-3/8	4-3/4	30000
2000	66-1/2	64	26	43-1/4	34-7/8	7-7/8	2	7-1/4	6	52300
3000	76	73	29-5/8	49-1/2	39-3/4	9-3/8	2-1/2	9-1/8	6-7/8	72500
4000	83-3/4	80-1/2	32-3/4	54-1/2	43-7/8	9-3/8	2-1/2	9-1/8	7-1/2	90700
5000	90-3/8	86-3/4	35-1/4	58-3/4	47-1/4	10-1/8	3	11	8-1/8	107000
6000	96	92-1/8	37-1/2	62-1/2	50-1/4	10-1/8	3	11	8-3/8	121300
7000	101	97	39-1/2	65-3/4	52-7/8	10-1/8	3	11	9-1/8	134300
8000	105-3/4	101-1/2	41-1/4	68	55-3/8	10-1/8	3	11	9-1/2	145600
9000	110	105-1/2	43	71-1/2	57-1/2	12-3/8	3-1/2	12-1/4	10	155600
10000	113-3/4	109-1/4	44-1/2	74	59-1/2	12-3/8	3-1/2	12-1/4	10-1/4	165600
11000	117-1/2	112-7/8	45-3/4	76-1/2	61-1/2	19	4	13-3/4	10-1/2	174600
12000	120-3/4	116	47-1/8	78-5/8	63-1/4	19	4	13-3/4	10-1/8	184700
13000	124	119-1/8	48-3/8	80-3/4	64-7/8	19	4	13-3/4	11-1/8	194300
14000	127-1/4	122-1/4	49-5/8	82-3/4	66-5/8	19	4	13-3/4	11-1/2	205000
15000	130	125	50-3/4	84-5/8	68	19	4	13-3/4	11-3/4	213700
16000	133-1/4	128	52	86-3/4	69-3/4	19	4	13-3/4	12	222700
17000	136	130-1/2	53-1/8	88-1/2	71-1/8	19	4-1/2	13-3/4	12-1/4	230000
18000	138-3/4	133-1/8	54-1/8	90-1/4	72-1/2	22	4-1/2	15-3/4	12-1/2	238000
19000	141	135-1/2	55	91-7/8	73-7/8	22	4-1/2	15-3/4	12-3/4	244100
20000	143-1/4	137-5/8	56	93-1/4	75	22	4-1/2	15-3/4	12-7/8	249400
25000	154	148	60-1/4	100-1/2	80-3/4	22	4-1/2	15-3/4	13-7/8	282500
30000	164	157-1/2	64-1/8	106-3/4	86	24	5	17-3/4	14-3/4	319400
40000	180	173	70	117	94	26	5-1/2	19	16	386400
50000	195	187	76	126	102	28	6	20	18	448300
60000	206	197	80	134	108	30	6	22	19	506200
70000	218	208	85	140	113	32	6-1/2	23	20	561400
80000	227	218	89	146	120	33	6-1/2	24	21	613400
90000	236	226	92	153	126	35	7	26	22	690000
100000	244	234	95	158	130	36	7	27	23	767000

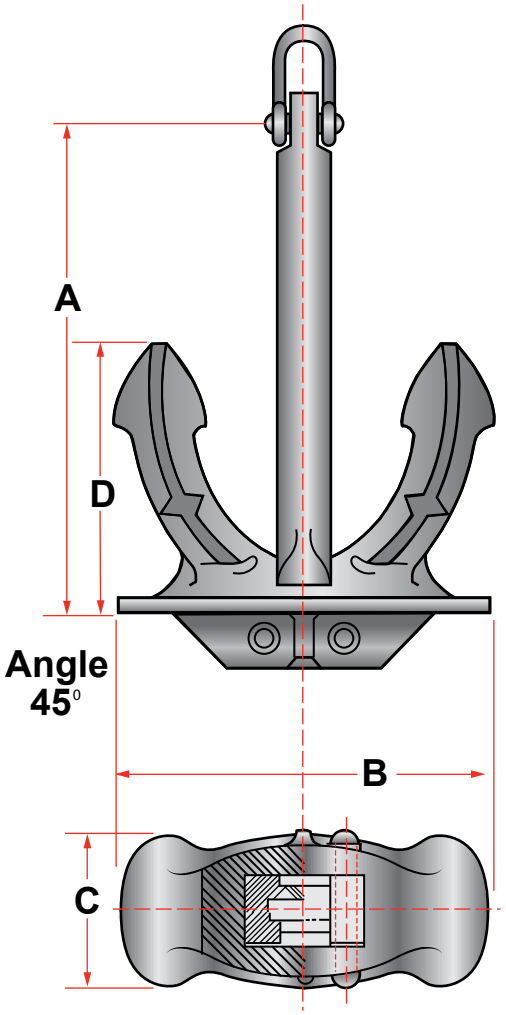
All specifications in pounds and inches.
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HALL ANCHOR

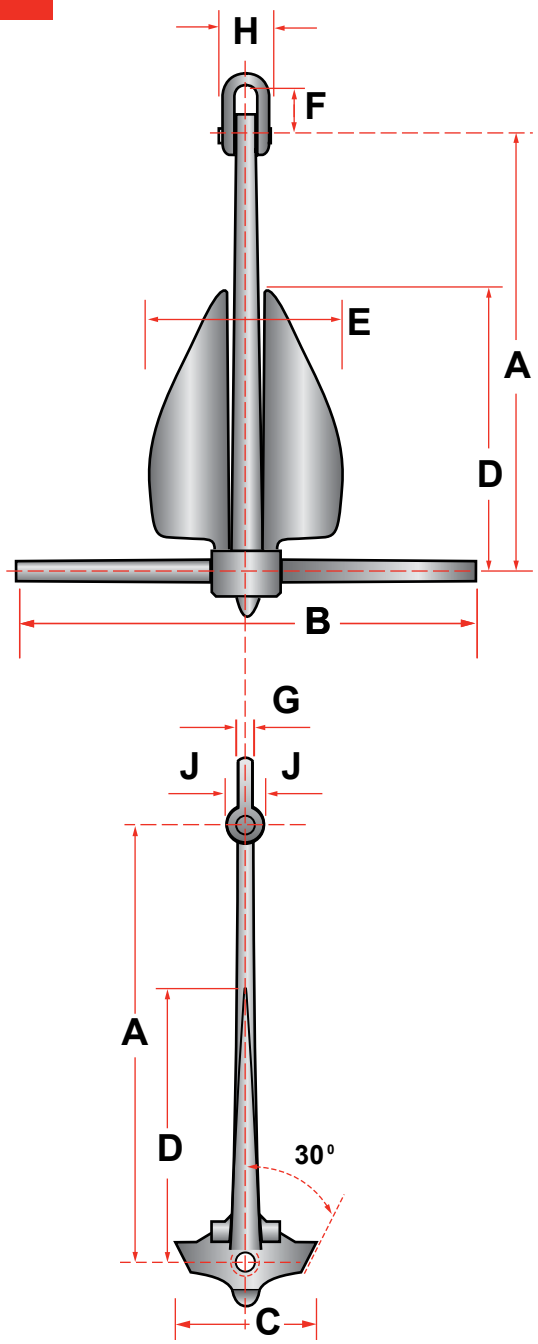
WEIGHT KG	A MM	B MM	C MM	D MM
50	575	410	184	300
75	660	480	210	340
100	723	510	230	375
125	780	550	245	405
150	835	580	264	430
180	888	625	281	454
200	915	645	290	470
225	950	670	300	493
240	985	694	312	510
275	1020	710	322	527
300	1050	738	330	543
325	1075	758	338	557
360	1190	778	346	570
400	1150	810	360	595
420	1175	826	368	607
450	1200	845	373	620
480	1220	860	380	630
500	1240	875	386	640
570	1280	904	400	660
600	1320	930	410	680
660	1360	955	420	700
700	1390	980	430	715
750	1425	1000	440	730
780	1450	1030	450	750
850	1480	1050	460	765
900	1490	1053	480	772
950	1520	1072	484	787
1020	1545	1090	496	800
1140	1600	1126	512	825
1200	1650	1165	530	855
1290	1670	1180	535	865
1350	1700	1205	550	890
1440	1800	1245	555	895
1590	1890	1260	565	900
1740	1910	1290	582	945
1920	1930	1362	616	999
2100	2020	1407	623	1020
2280	2040	1446	640	1033
2460	2120	1483	667	1076
2640	2170	1519	672	1085
2850	2200	1540	700	1140

WEIGHT KG	A MM	B MM	C MM	D MM
3060	2261	1596	720	1172
3300	2330	1636	734	1180
3540	2336	1650	674	1210
3780	2679	1844	733	1295
4050	2466	1740	712	1278
4320	2667	1790	763	1290
4590	2784	1889	780	1384
4890	2923	2011	804	1413
5250	2728	1910	846	1364
5510	2788	1952	864	1394
6000	3270	2033	829	1525
6450	2920	2048	906	1461
6900	2930	2064	932	1512
7350	3072	2150	950	1536
7800	3113	2179	965	1556
8300	3208	2246	995	1604
8700	3253	2270	1005	1626
8900	3268	2275	1012	1634
9300	3301	2311	1023	1650
9900	3330	2360	1045	1686
10200	3338	2372	1070	1694
10500	3438	2407	1075	1719
11100	3502	2452	1086	1751
11700	3565	2495	1105	1780
12300	3600	2520	1140	1800
12900	3681	2577	1141	1840
13500	3738	2616	1159	1869
14100	3793	2655	1176	1896
14700	3845	2690	1190	1925
15400	3880	2716	1210	1940
16100	3964	2775	1229	1982
16900	4030	2820	1250	2015
17800	4099	2869	1270	2049
18800	4175	2920	1295	2085
20000	4262	2985	1320	2130
21500	4365	3055	1355	2180
23000	4465	3125	1385	2230
24500	4560	3190	1415	2280
26000	4651	3255	1442	2325
27500	4720	3315	1470	2370
29000	4825	3375	1495	2410



ANCHORS

LIGHTWEIGHT (LWT) ANCHOR



ANCHOR WT	A	B	C	D	E	F	G	H	J	PROOF TEST
100	41-1/2	39-1/2	12-3/46	24	15-5/8	3-3/4	7/8	3-3/8	2-1/4	5500
150	46-3/4	44-1/2	13-11/16	27	17-3/8	5-1/2	1	4	2-3/8	6800
200	47-1/2	45	14-3/16	29	18-7/8	5-1/2	1	4	3-1/8	10100
250	47-1/2	45	14-9/16	29	18-7/8	5-1/2	1	4	3-1/8	11600
300	53	50	16-5/16	32-1/2	21-1/4	7	1-1/4	5	3-1/4	13000
350	53	50	16-11/16	32-1/2	21-1/4	7	1-1/4	5	3-1/4	14300
400	57-1/2	54-1/4	17-3/4	35-1/4	23	7	1-1/4	5	3-1/2	15600
450	60	56-1/2	18-3/8	36-3/4	24	7	1-1/4	5	3-3/4	16900
500	61-1/2	58-1/2	19	37-1/2	24	7-1/2	1-1/2	6	4-1/4	18100
750	69	64-1/2	21-1/8	42	28-7/16	7-1/2	1-1/2	6	4-7/8	24100
1000	75	71	24-1/2	46	29-1/4	9-3/4	2	8	5-1/4	30000
1500	86-1/2	58-1/2	27-5/8	53	31-7/8	12	2-1/2	9-1/2	6	41400
2000	92-1/2	85	30	56-1/2	37-1/4	12	2-1/2	9-1/2	7	52300
3000	108-1/2	104	34-3/4	66	40-3/8	15	3	11	7-3/4	72500
4000	116	110	37-1/2	71	44	15	3	11	9	90700
5000	118	112	38-3/4	72	44-3/4	17	3-1/2	12-1/4	9-1/2	110700
6000	124	118	41	76	47-1/4	19	4	13-3/4	10-1/4	121300
7000	124	118	41	76	47-1/4	19	4	13-3/4	10-1/4	134300
8000	128	121	43-1/2	78	50-1/4	19	4	13-3/4	12	145600
9000	133	126	45-1/4	81-1/8	52-1/4	19	4	13-3/4	12-1/2	155800
10000	144	137	49	88	55-1/4	22	4-1/2	15-3/4	13	165800
11000	144	137	49	88	55-1/4	22	4-1/2	15-3/4	13	174600
12000	146	138-1/2	49-3/4	89-1/8	57-3/8	22	4-1/2	15-3/4	13-3/4	184700
13000	154	146	52-1/2	94	60-1/2	24	5	17-1/2	14-1/2	194300
14000	154	146	52-1/2	94	60-1/2	24	5	17-1/2	14-1/2	203000
15000	157	149-1/4	53-5/8	96	61-7/8	24	5	17-1/2	14-7/8	213700
16000	161	152-1/2	54-7/8	98-1/4	63-1/4	24	5	17-1/2	14-1/8	222700
17000	164	155-1/2	56	100	64-1/2	24	5	17-1/2	15-1/2	230000
18000	167	158-1/2	57	102	65-5/8	24	5	17-1/2	15-3/4	238600
19000	170-1/2	161-3/8	58	104	66-3/4	25	5-1/2	20	16	244100
20000	173	164	59	106	68	25	5-1/2	20	16-3/8	249400
25000	191	178	67-1/4	116	75	26-1/2	5-1/2	20	16	282500
30000	198	189	67-1/2	121	78	29	5-1/2	20	17	319400
35000	208	199	71	127	82	30 1/2	6	21	18	353750
40000	218	240	75	131	86	32	6	24	20-1/2	386400
45000	227	250	78	136	89	33	6-1/4	26	22	413825
50000	235	260	81	141	92	34	6-1/2	27	23	448300
60000	250	278	86	150	97	36	6-1/2	29	24	506200
70000	264	290	91	157	103	38	7	30	26	561400
80000	275	304	95	165	107	40	7-1/2	31	27	613400
90000	287	317	99	172	112	41	8	33	28	690000
100000	296	328	102	178	116	43	8	34	29	767000

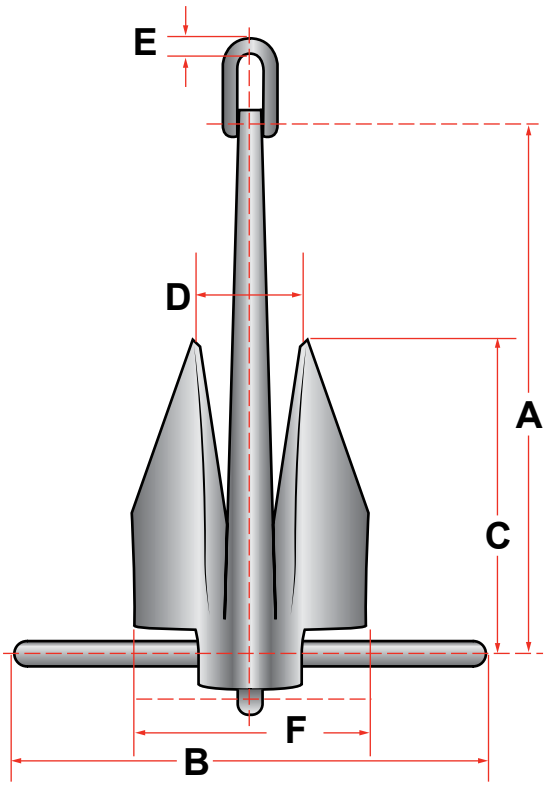
All specifications in pounds and inches.
Intermediate sizes may be furnished on request.

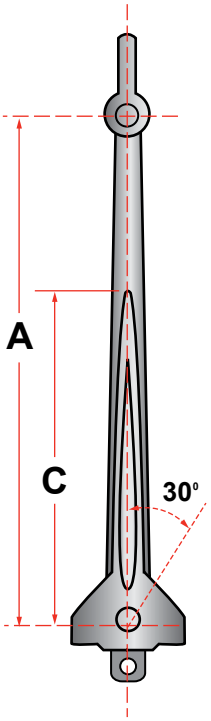
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WORKBOAT ANCHOR

ANCHOR WEIGHT	A	B	C	D	E	F	PROOF TEST
25	31-3/4	27-3/8	19-3/8	3-7/16	3/8	11-5/8	1600
50	40	34-3/8	24-3/8	4-3/8	7/16	14-5/8	2900
75	45-3/4	39-1/2	27-7/8	5	1/2	16-13/16	5000
100	47-1/2	41-1/8	28-5/16	5-1/4	3/4	17-1/2	5972
150	49	42-1/2	29-7/8	5-5/8	3/4	18-7/8	8300
200	52-1/2	45-1/2	33	6-1/8	7/8	20-1/2	10100
300	56	48-1/2	35-1/4	13-1/2	1-1/8	23-1/4	13000
400	58	50	39-9/16	13-7/8	1-1/8	24-1/8	15600
500	63	54-1/2	39-3/4	15-1/8	1-1/2	26-1/4	18100
750	67-1/2	58-1/2	42-1/2	16-1/2	1-1/2	28-1/4	24100
1000	72	62	45-3/8	18-3/4	2	30	30000
1500	77	70-7/8	48-1/2	19-3/8	2	32	41400
2000	83	71-3/4	52	22-5/8	2-1/2	35-3/4	52300
2500	89	84-1/2	56	13-7/8	2-1/2	36-1/2	62270
3000	94	89	59	14-3/8	3	38-7/8	72500
3500	99	94	62-1/2	15-1/8	3	45-3/8	81800
4000	104	98-3/4	65-1/2	15-3/8	3	41-1/4	90700
5000	112	106-1/2	70-1/2	18	3-3/8	45-1/4	107000
6000	118	112	74	18-5/8	3-3/4	47-1/2	121300
8000	129	122-1/2	77-3/8	20-1/4	4-1/8	52-1/16	145600
10000	138	131	87	21-7/8	4-1/2	55-7/8	165600
12000	145	145	91	23	4-3/4	58-3/4	184700
14000	152	152	95-3/4	24	5	61-5/8	205000
16000	160	160	101	25-1/4	5-1/4	64-7/8	222700
20000	172	163	108-3/8	27-1/4	5-5/8	69-1/2	249400
30000	197	187	112	31-1/4	6-1/2	80-1/2	319400

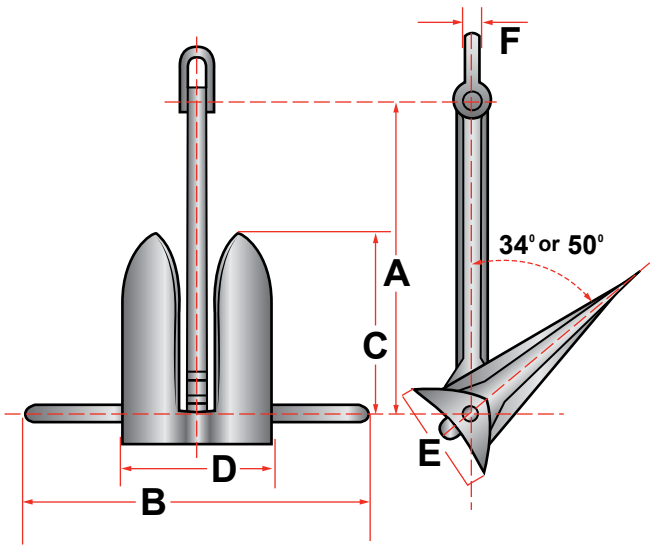
All specifications in pounds and inches.
Intermediate sizes may be furnished on request.





ANCHORS

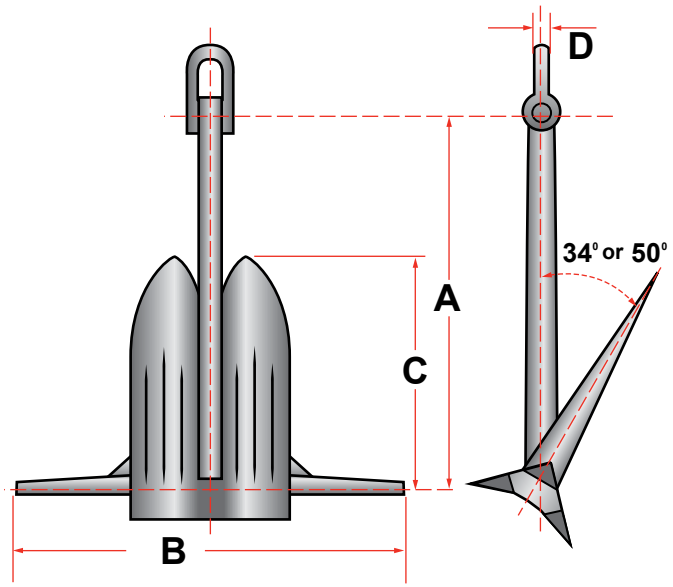
MOORFAST ANCHOR



ANCHOR WT	A	B	C	D	E	F	PROOF TEST
1000	61	75	37	25	19	2	30000
3000	88	109	54	37	27	3	72500
6000	101	143	61	42	31	3-1/2	121300
8000	122	153	75	51	38	3-1/2	145000
10000	131	157	80	55	41	4	165600
12000	139	167	85	58	43	4	184700
14000	147	177	90	61	45	4	205000
16000	153	187	94	64	48	4-1/2	222700
20000	164	196	102	69	51	4-1/2	249400
30000	189	217	118	79	59	5	319400
40000	215	248	127	86	63	5-1/2	386000
50000	222	257	132	89	66	6	448300
60000	232	271	140	95	70	6	506200
70000	244	274	147	100	73	6	561400
80000	255	298	154	105	77	6-1/2	613300
90000	266	310	160	109	80	6-1/2	661200
100000	275	320	166	113	83	7	706400

All specifications in pounds and inches.
Intermediate sizes may be furnished on request.

STATO MOORING ANCHOR



ANCHOR WT	A	B	C	D
200	42	59	26	3/4
3000	129	109	72	1-3/4
6000	144	143	92	2-1/4
9000	160	170	100	2-3/4
12000	186	197	113	3
15000	204	224	126	3-1/2
20000	210	230	129	3-3/4
25000	226	246	137	4
30000	235	257	145	5
35000	248	271	153	5-1/4
40000	258	283	160	5-1/2
45000	269	295	166	5-3/4
50000	277	303	171	6

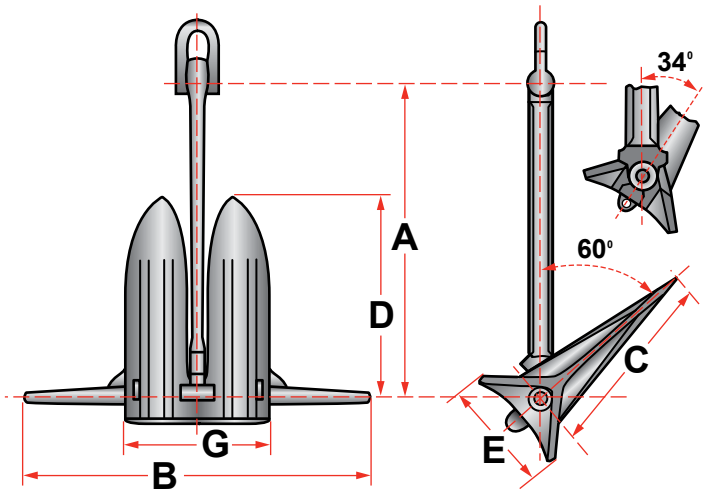
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OFFDRILL ANCHOR
HIGH HOLDING POWER

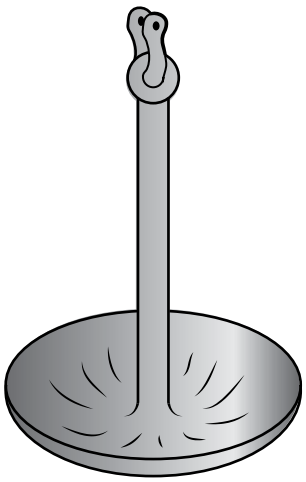
APPROX. WEIGHTS AND DIMENSIONS

ANCHOR WEIGHT KG	DIMENSIONS IN MM					
	A	B	C	D	E	G
454	1545	1900	920	1095	480	645
1360	2230	2770	1330	1580	690	930
2721	2570	3630	1530	1820	795	1071
3628	3095	3890	1840	2190	960	1290
4535	3335	4000	1985	2360	1032	1390
5443	3540	4250	2110	2505	1095	1475
6350	3730	4500	2220	2640	1155	1555
7256	3900	4750	2320	2760	1205	1625
9080	4200	5000	2500	2975	1300	1750
13606	4810	5335	2860	3405	1490	2005



MUSHROOM ANCHOR
MOORING SIZES

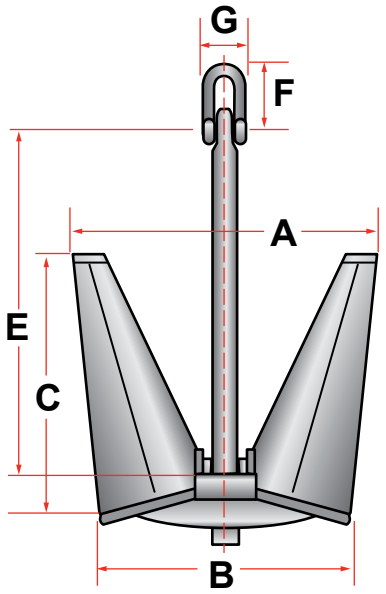
WEIGHT LBS.	DIMENSIONS IN INCHES				
	BELL THICKNESS	BELL DIAM.	SHANK DIAM.	EYE DIAM.	O.A. LENGTH
50	1/4	20	1-1/4	7/8	34
100	1/2	25-1/2	1-1/4	1	48
150 S.	1	26	1-1/2	1	24
150 L.	1/2	29-1/2	1-1/2	1	52
200	5/8	32	1-1/2	1-1/8	56
250	3/4	34-1/2	2-1/4	1-1/4	64
300	3/4	34-1/2	2-1/4	1-1/4	64
350	3/4	37	2-1/4	1-1/4	70

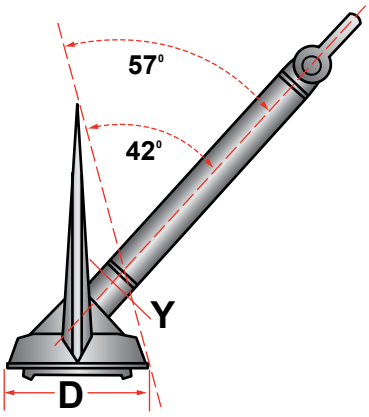


ANCHORS

POOL "N" ANCHOR
HIGH HOLDING POWER
TABLE OF MAIN DIMENSIONS

WEIGHT KG	A	B	C	D	E	F	G
4	224	190	198	106	265	41	23
8	282	239	250	133	334	62	37
12	323	274	286	153	382	80	50
16	355	302	315	168	421	80	50
20	383	325	339	181	453	90	60
24	407	346	361	193	482	90	60
32	448	380	397	212	530	100	80
40	482	410	427	228	571	100	80
48	512	435	454	243	607	120	90
60	560	475	490	262	654	120	90
75	595	505	526	282	704	120	90
90	632	537	559	299	748	120	90
105	665	565	588	315	788	142	105
125	703	597	622	333	833	142	105
135	723	615	640	343	857	142	105
180	796	676	706	377	942	157	115
225	858	728	760	406	1016	170	125
270	911	774	807	432	1079	186	135
315	960	815	850	455	1136	201	150
360	1002	852	888	475	1188	201	150
430	1062	902	940	503	1258	236	175
495	1115	948	988	528	1320	236	175
585	1180	1002	1045	558	1396	284	185
675	1236	1050	1096	586	1465	284	185
765	1290	1096	1144	610	1527	284	185
855	1338	1138	1185	634	1585	306	225
970	1395	1185	1236	660	1652	306	225
1080	1446	1230	1282	685	1714	306	225
1195	1495	1270	1323	708	1771	306	225
1305	1541	1309	1364	730	1825	306	225
1440	1592	1352	1412	754	1886	306	225
1575	1640	1386	1454	777	1942	361	255
1710	1686	1433	1492	799	1997	361	255
1845	1729	1469	1530	819	2048	361	255
1980	1770	1504	1570	838	2098	361	255
2140	1816	1543	1608	860	2151	361	255
2295	1860	1580	1650	880	2202	361	255
2475	1910	1620	1690	904	2260	400	290
2655	1954	1664	1730	925	2312	400	290
2835	1996	1700	1770	945	2364	400	290
3040	2042	1735	1810	968	2418	400	290
3240	2086	1773	1850	988	2471	400	290
3445	2129	1809	1887	1009	2522	400	290
3670	2174	1847	1928	1030	2575	450	325
3940	2226	1892	1970	1055	2637	450	325
4210	2276	1934	2018	1078	2696	450	325
4500	2328	1978	2064	1103	2757	450	325
4840	2385	2026	2114	1130	2824	500	360
5175	2439	2072	2162	1155	2889	500	360
5515	2491	2116	2208	1180	2950	500	360
5850	2541	2159	2252	1204	3009	550	400
6225	2594	2204	2299	1229	3072	550	400
6525	2635	2239	2336	1248	3121	550	400





WEIGHT KG	A	B	C	D	E	F	G
6975	2695	2290	2390	1276	3190	550	400
7425	2750	2338	2439	1303	3258	600	435
7875	2805	2384	2487	1329	3323	600	435
8325	2858	2428	2533	1354	3385	650	470
8775	2908	2471	2578	1378	3445	650	470
9225	2958	2512	2622	1401	3502	650	470
9675	3004	2553	2664	1423	3558	700	500
10125	3050	2592	2704	1445	3613	700	500
10575	3095	2630	2747	1466	3666	700	500
12075	3235	2748	2868	1533	3831	750	540
14100	3406	2894	3020	1614	4034	800	570
17250	3643	3095	3230	1726	4315	870	625
20625	3867	3285	3428	1832	4580	930	665
24750	4109	3491	3643	1947	4867	930	665
28875	4324	3675	3838	2049	5123	980	695
34500	4590	3890	4070	2175	5437	1000	715

All specifications in kilograms and millimeters.
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POOL "T.W." ANCHOR
HIGH HOLDING POWER

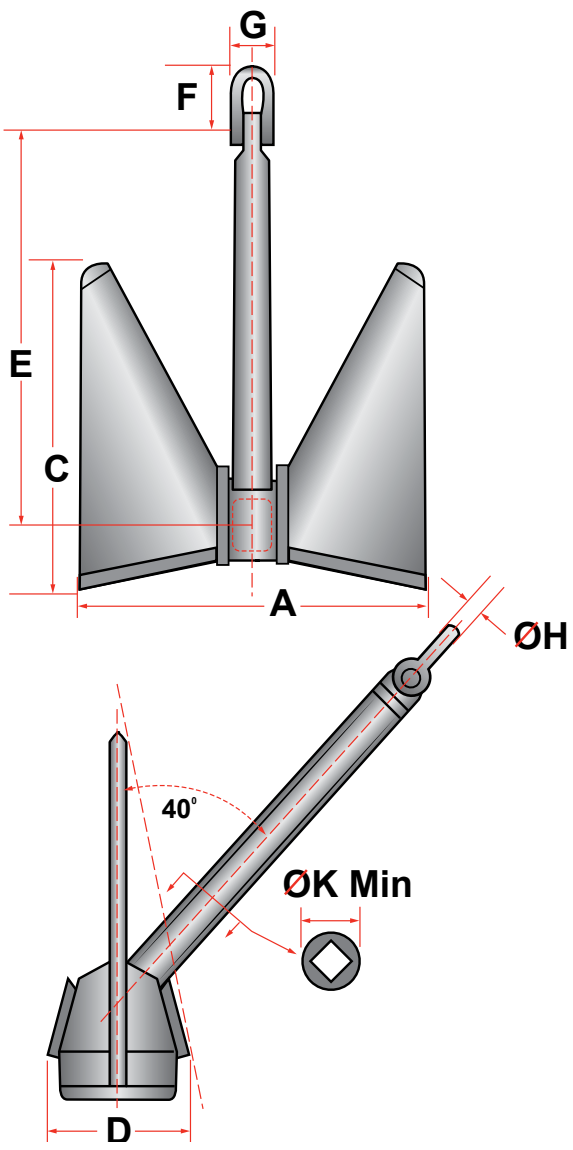
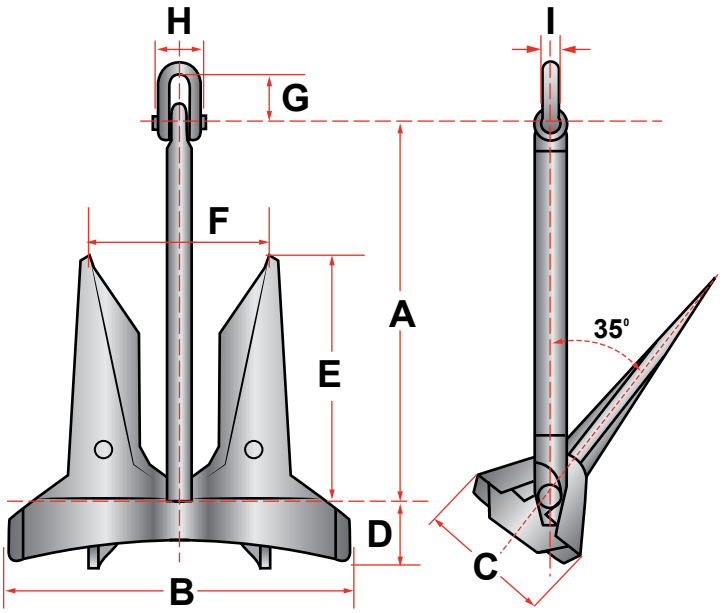


TABLE OF MAIN DIMENSIONS

WEIGHT KG	MAIN DIMENSIONS IN MM							
	A	C	D	E	F	G	Ø H	MM Ø K
90	616	627	223	744	120	90	22	100
105	648	660	235	781	142	105	26	110
125	687	700	249	830	142	105	26	110
135	705	718	255	852	142	105	26	110
180	776	790	281	937	157	115	29	125
225	836	852	303	1010	170	125	32	135
270	888	905	322	1073	186	135	35	140
315	935	953	339	1129	201	150	38	155
360	977	996	354	1181	201	150	38	155
430	1037	1056	376	1253	236	175	45	180
495	1087	1107	394	1313	236	175	45	180
585	1149	1171	417	1318	284	185	47	190
675	1205	1228	437	1456	284	185	47	190
765	1257	1280	455	1518	284	185	47	195
855	1304	1329	473	1576	306	225	60	230
970	1360	1386	493	1643	306	225	60	230
1080	1409	1436	511	1703	306	225	60	230
1195	1458	1486	528	1762	306	225	60	235
1305	1501	1500	544	1814	306	225	60	235
1440	1552	1581	562	1875	306	225	60	245
1575	1599	1629	579	1931	361	255	70	260
1710	1643	1674	596	1985	361	255	70	260
1845	1685	1717	611	2036	361	255	70	260
1980	1725	1758	625	2084	361	255	70	275
2140	1771	1805	642	2139	361	255	70	280
2295	1812	1847	657	2190	361	255	70	290
2475	1858	1894	674	2245	400	290	80	295
2655	1903	1939	690	2299	400	290	80	305
2835	1945	1981	705	2349	400	290	80	305
3040	1990	2028	721	2405	400	290	80	315
3240	2033	2072	737	2456	400	290	80	315
3445	2075	2114	752	2507	400	290	80	325
3670	2119	2159	769	2560	450	325	90	330
3948	2170	2211	787	2622	450	325	90	340
4210	2219	2261	804	2680	450	325	90	345

ANCHORS



AC-14 HIGH HOLDING POWER

APPROX. WEIGHTS AND DIMENSIONS

WEIGHT KG	DIMENSIONS IN MM								
	A	B	C	D	E	F	G	H	I
180	904	811	251	157	550	434	138	135	36
225	974	874	270	169	593	468	149	145	39
340	1109	995	307	192	675	533	169	165	45
460	1227	1101	340	212	747	590	187	182	49
675	1398	1254	389	242	851	672	213	207	56
910	1540	1382	427	267	938	740	235	229	62
1140	1660	1490	460	287	1011	798	253	246	67
1360	1761	1580	488	305	1072	846	269	261	71
1590	1855	1665	514	321	1130	892	283	275	75
1820	1940	1741	538	336	1182	933	296	288	78
2440	2016	1809	559	349	1227	969	308	299	81
2270	2089	1874	579	362	1272	1004	319	310	84
2720	2218	1991	615	384	1351	1066	339	329	90
3040	2302	2066	638	399	1402	1107	351	342	93
3240	2352	2110	652	407	1432	1130	359	349	95
3445	2400	2154	665	415	1462	1154	366	356	97
3670	2451	2200	680	424	1493	1178	374	364	99
3940	2510	2252	696	434	1529	1207	383	373	101
4210	2566	2303	711	444	1563	1234	392	381	104
4500	2624	2355	727	454	1598	1261	401	389	106
4840	2688	2412	745	465	1637	1292	410	399	108
5175	2749	2467	762	476	1674	1321	420	408	111
5515	2808	2520	778	486	1710	1350	429	417	113
5850	2864	2570	794	496	1744	1376	437	425	116
6225	2923	2623	810	506	1780	1405	446	434	118
6525	2970	2665	823	514	1808	1428	453	441	120
6600	2981	2675	826	516	1815	1433	455	443	120
7015	3042	2730	843	527	1853	1462	464	452	123

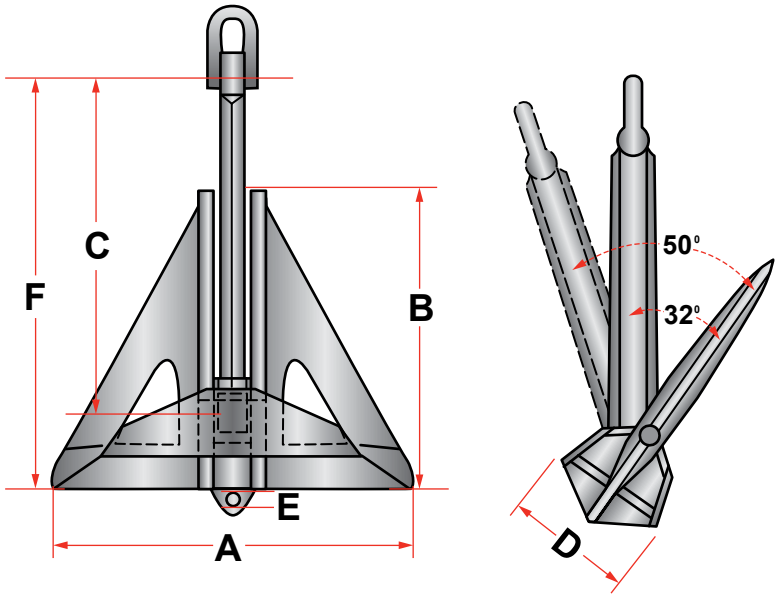
WEIGHT KG	DIMENSIONS IN MM								
	A	B	C	D	E	F	G	H	I
7425	3100	2782	859	537	1888	1490	473	460	125
7875	3162	2837	876	547	1925	1520	483	469	128
8325	3221	2890	893	558	1961	1548	492	478	130
8775	3278	2942	909	567	1996	1576	500	487	132
9225	3333	2991	924	577	2030	1602	509	495	134
9675	3386	3039	939	586	2062	1628	517	503	137
10125	3438	3085	953	595	2094	1653	525	511	139
10575	3488	3130	967	604	2124	1677	533	518	141
10690	3501	3141	970	606	2132	1683	535	519	141
11025	3537	3174	981	612	2154	1700	540	525	143
11250	3561	3196	987	616	2169	1712	544	529	144
11550	3592	3224	996	622	2188	1727	548	533	145
11850	3623	3251	1004	627	2206	1742	553	537	146
12075	3646	3272	1011	631	2220	1753	557	541	147
12525	3691	3312	1023	639	2248	1774	563	548	149
12675	3705	3325	1027	641	2256	1781	566	550	150
13200	3756	3370	1041	650	2287	1805	573	558	152
13350	3770	3383	1045	653	2296	1812	576	560	152
13875	3819	3426	1059	661	2326	1836	583	567	154
14100	3839	3445	1064	665	2338	1846	586	570	155
15000	3919	3517	1086	678	2387	1884	599	582	158
16125	4015	3603	1113	695	2445	1930	613	596	162
17250	4106	3685	1138	711	2501	1974	627	610	166
18375	4194	3763	1163	726	2554	2016	640	623	169
19500	4278	3839	1186	740	2605	2056	653	635	173
20625	4358	3811	1208	754	2654	2095	665	647	176
21750	4436	3980	1230	768	2701	2132	677	659	179

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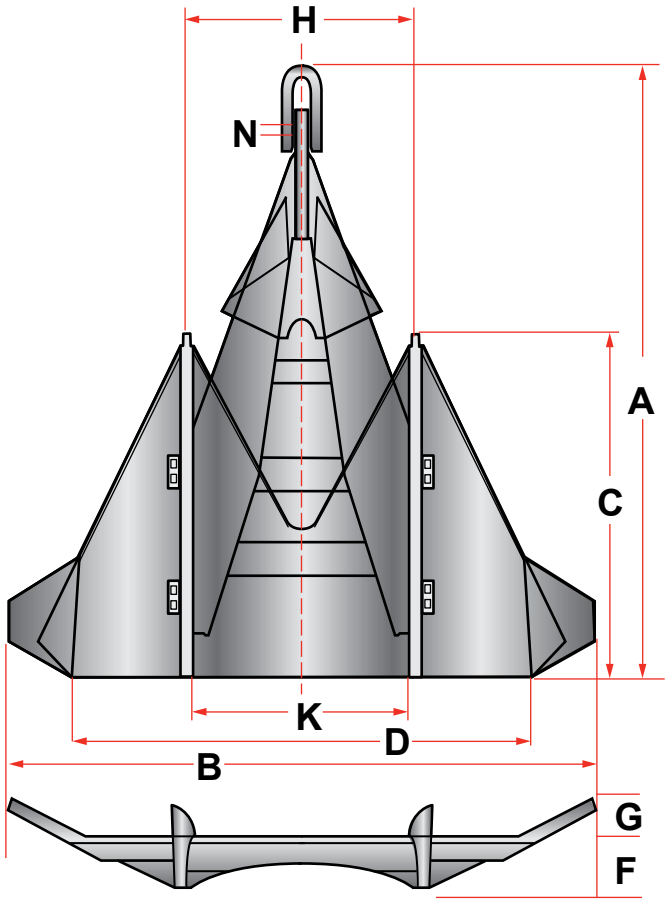
DELTA ANCHOR
SUPERIOR HOLDING POWER



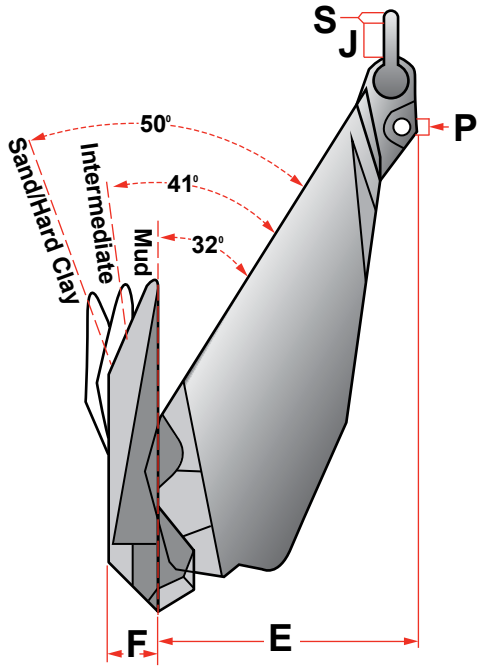
APPROXIMATE WEIGHTS AND DIMENSIONS

ANCHOR WT IN KG	DIMENSIONS IN MM							
	A	B	C	D	E	F	SHACKLE DIA.	EYE
1000	1960	1560	1755	740	45	2605	52	50
1500	2250	1800	2025	840	45	2660	60	50
2000	2470	2000	2250	930	50	2960	70	60
2500	2660	2130	2395	1005	52	3150	70	60
3000	2830	2285	2565	1070	55	3380	80	60
3500	3000	2400	2700	1120	55	3550	80	70
4000	3180	2560	2880	1190	65	3790	90	60
5000	3300	2660	2995	1260	75	3945	100	70
6000	3560	2870	3230	1345	75	4250	100	80
7000	3750	2995	3365	1405	78	4440	110	90
7500	3850	3080	3465	1435	85	4565	110	90
9000	4130	3320	3735	1550	85	4925	125	100
10000	4270	3400	3825	1600	85	5040	125	100
12000	4530	3600	4050	1705	90	5335	130	110
13500	4670	3730	4195	1765	90	5535	140	110
15000	4845	3875	4355	1830	90	5735	140	120
18000	5265	4120	4635	1935	105	6110	150	120
20000	5410	4320	4860	2010	105	6405	160	130
22500	5490	4360	4905	2060	105	6470	170	140
27500	5980	4785	5385	2245	120	7095	180	140
32500	6200	4930	5540	2310	120	7320	165GP	150
40000	6650	5290	5945	2480	120	7850	175GP	150
50000	7150	5690	6390	2670	130	8440	195GP	180
60000	7600	6040	6800	2830	140	9000	210GP	190
75000	8200	6560	7380	3100	150	9430	220GP	220

ANCHORS



STEVPRIS



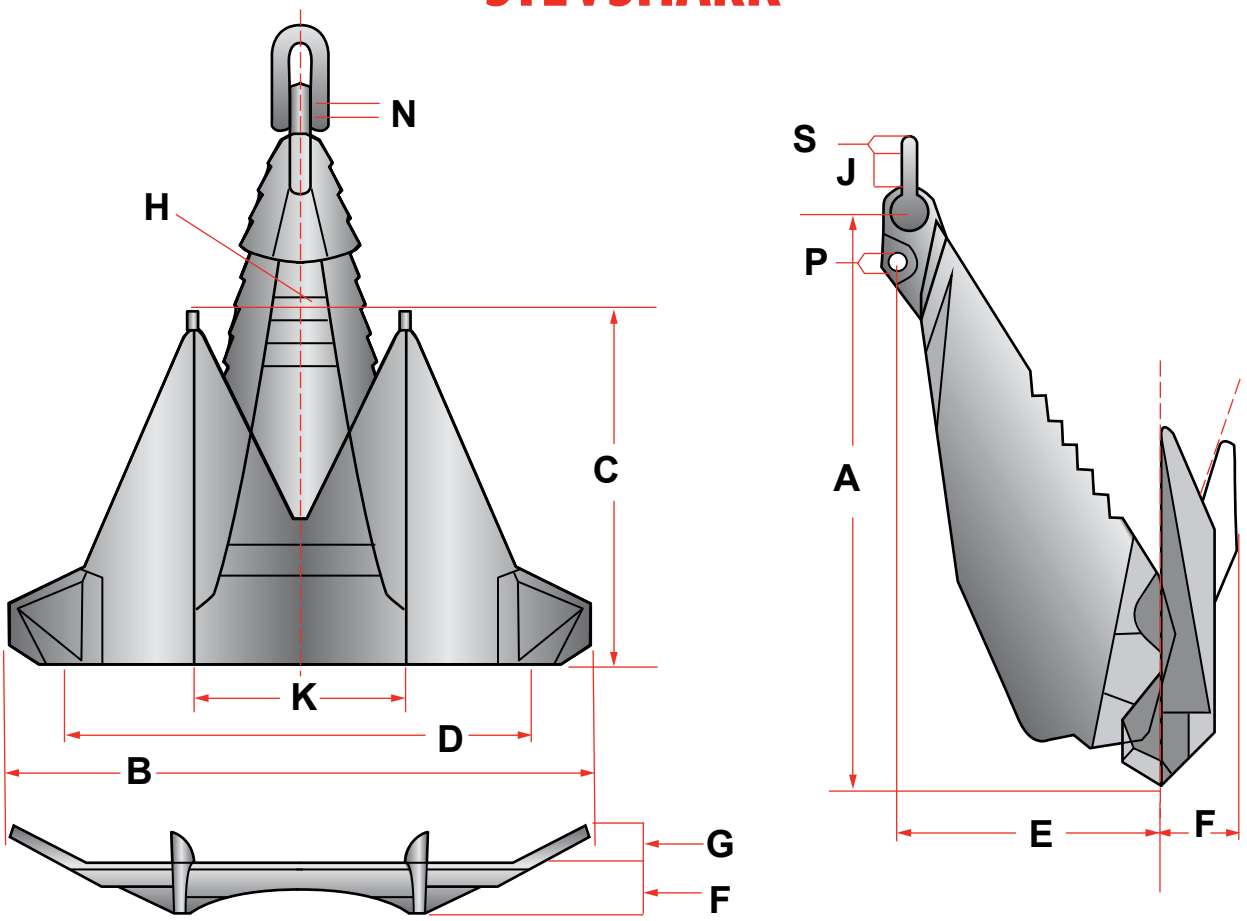
TYPICAL HIGH HOLDING POWER ANCHORS.

TYPE OF STEVPRIS - MAIN DIMENSIONS IN MM; ANCHOR WEIGHT IN KGS

WEIGHT IN KG	1500	3000	5000	8000	10000	12000	15000	18000	20000	22000	25000	30000	65000
A	2787	3511	4163	4869	5245	5574	6004	6381	6609	6822	7119	7565	9789
B	3034	3823	4533	5301	5711	6068	6537	6947	7195	7427	7750	8236	10657
C	1792	2258	2677	3131	3372	3584	3861	4102	4249	4386	4577	4864	6294
D	2666	3359	3983	4659	5018	5333	5745	6105	6323	6527	6811	7238	9366
E	1419	1788	2120	2480	2671	2839	3058	3250	3366	3474	3626	3853	4985
F	258	326	386	452	487	517	557	592	613	633	661	702	908
G	211	266	315	369	397	422	455	483	501	517	539	573	741
H	1097	1382	1639	1917	2065	2195	2364	2512	2602	2686	2803	2979	3854
J	212	223	282	329	376	400	423	447	482	505	505	552	752
K	1257	1584	1878	2196	2366	2514	2709	2878	2981	3077	3211	3413	4416
N	70	75	95	120	140	150	150	160	180	180	180	210	280
P	70	70	95	110	130	140	140	150	170	170	170	200	260
S	80	90	110	130	150	160	170	180	190	200	200	220	300

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STEVSHARK

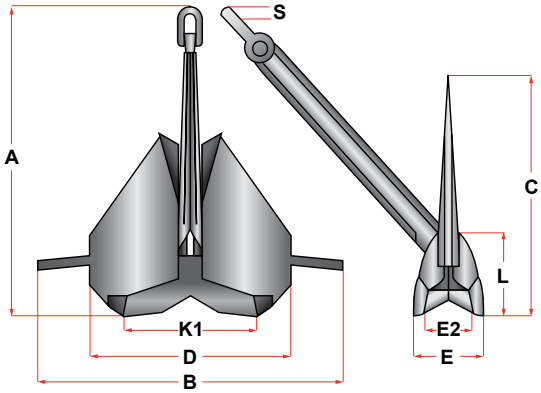


TYPICAL HIGH HOLDING POWER ANCHORS.

TYPE STEVSHARK - MAIN DIMENSIONS IN MM; ANCHOR WEIGHT IN KGS

WEIGHT IN KG	1500	3000	5000	8000	10000	12000	15000	18000	20000	22000	25000	30000	65000
A	2623	3305	3918	4583	4937	5246	5651	6005	6219	6420	6700	7119	9212
B	2856	3598	4266	4989	5375	5711	6152	6538	6771	6990	7294	7751	10030
C	1687	2125	2519	2946	3174	3373	3633	3861	3999	5128	4308	4577	5923
D	2510	3162	3749	4385	4723	5019	5407	5745	5951	6143	6410	6812	8814
E	1336	1683	1996	2334	2514	2672	2878	3058	3168	3270	3412	3626	4692
F	244	307	364	426	459	487	525	558	578	596	622	661	856
G	199	251	297	347	374	398	428	455	471	487	508	540	698
H	1033	1301	1543	1805	1944	2066	2225	2365	2449	2528	2638	2804	3628
J	212	223	282	329	376	400	423	447	482	505	505	552	752
K	1183	1492	1768	2067	2227	2366	2549	2709	2806	2896	3022	3212	4156
N	70	75	95	120	140	150	150	160	180	180	180	210	280
P	70	70	95	110	130	140	140	150	170	170	170	200	260
S	80	90	110	130	150	160	170	180	190	200	200	220	300

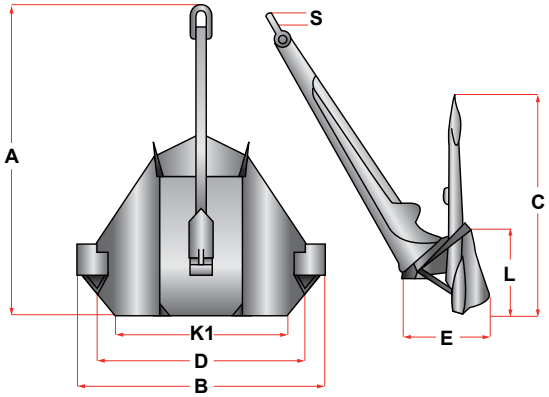
ANCHORS



STEVFIX ANCHOR*

DIMENSIONS IN MM

WEIGHT	1 T	1.5 T	3 T	5 T	7 T	9 T	12 T	15 T	20 T	30 T
A	2,475	2,830	3,565	4,230	4,730	5,145	5,660	6,100	6,710	7,685
B	3,045	3,485	4,390	5,205	5,820	6,330	6,970	7,505	8,260	9,455
C	1,665	1,905	2,400	2,845	3,185	3,460	3,810	4,105	4,515	5,170
D	1,915	2,195	2,760	3,275	3,665	3,985	4,385	4,725	5,200	5,950
E1	750	835	1,050	1,245	1,390	1,515	1,665	1,795	1,975	2,260
E2	490	560	700	835	930	1,015	1,115	1,200	1,325	1,515
K1	1,235	1,410	1,780	2,110	2,355	2,565	2,825	3,040	3,345	3,830
L	590	680	850	1,010	1,130	1,230	1,355	1,455	1,605	1,835
ØS	60	70	90	100	115	125	140	150	165	190



HOOK ANCHOR*

DIMENSIONS IN MM

WEIGHT	10 T	12.5 T	15 T	20 T	25 T	30 T	35 T	40 T	50 T	60 T
A	5,945	6,040	6,805	7,490	8,065	8,570	9,025	9,435	10,165	10,800
B	5,465	5,885	6,255	6,885	7,420	7,885	8,300	8,675	9,345	9,935
C	3,940	4,240	4,510	4,960	5,345	5,680	4,980	6,250	6,735	7,160
D	4,635	4,990	5,305	5,840	6,290	6,685	7,035	7,380	7,925	8,425
E	1,285	1,380	1,470	1,615	1,740	1,850	1,950	2,040	2,195	2,335
ØS	140	150	160	180	190	205	215	225	245	260

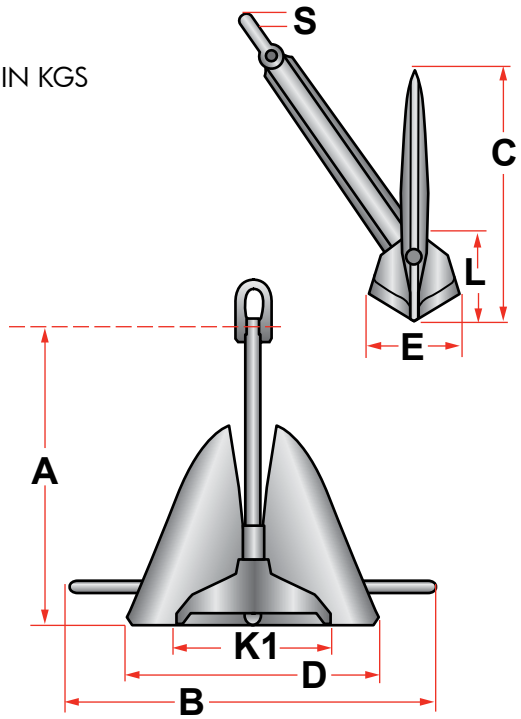
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STEVIN ANCHOR*

TYPE STEVIN MK3 - MAIN DIMENSIONS IN MM; ANCHOR WEIGHT IN KGS

WT	1000	1500	3000	5000	7000	9000	12000	15000	20000	30000
A	2341	2680	3376	4003	4478	4869	5366	5780	6362	7283
B	2645	3038	3828	4538	5077	5521	5892	6347	6986	7997
C	1559	1785	2249	2667	2983	3244	3458	3725	4100	4694
D	2023	2316	2918	3460	3871	4209	4490	4837	5324	6094
E	737	843	1063	1260	1409	1533	1728	1861	2048	2345
K	1010	1156	1456	1727	1932	2100	2255	2430	2674	3061
L	412	471	594	704	788	857	914	984	1083	1240
QS	60	65	80	80	90	100	130	150	160	180

TYPICAL HIGH HOLDING POWER ANCHORS.

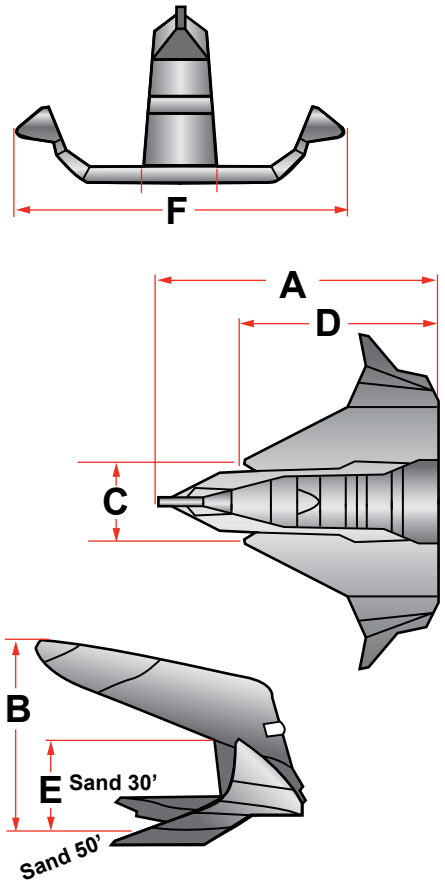


BRUCE FFTS MK4 ANCHOR*

The table gives nominal dimensions of certain sizes but since the anchors are fabricated from steel plate they can be supplied in any size to suit customer requirements, from 250kg up to 60,000kg.

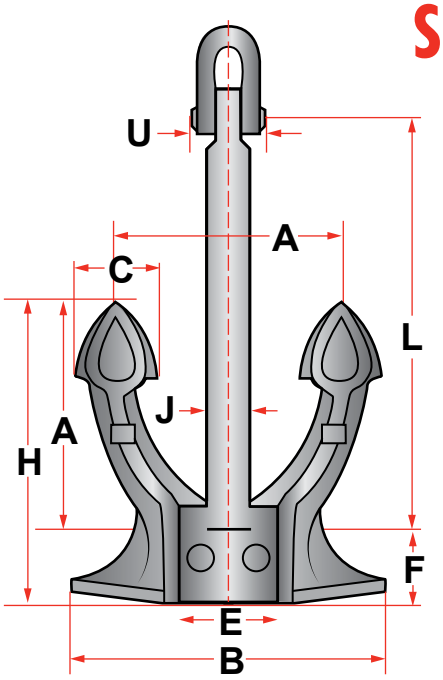
WEIGHT KG	NOMINAL DIMENSIONS IN MM					
	A	B	C	D	E	F
500	1827	1280	500	1303	606	2188
1500	2548	1854	723	1888	878	3172
3000	3409	2388	931	2431	1131	4085
5000	4029	2822	1100	2873	1336	4828
9000	4846	3394	1324	3456	1607	5806
12000	5437	3808	1486	3878	1803	6514
15000	5728	4012	1566	4085	1900	6864
20000	6319	4426	1726	4507	2096	7571
30000	7225	5060	1974	5153	2396	8656
40000	8034	5627	2195	5730	2664	9626

* No longer manufactured — surpassed by Stevpris Anchor.



ANCHORS

SPEK ANCHOR



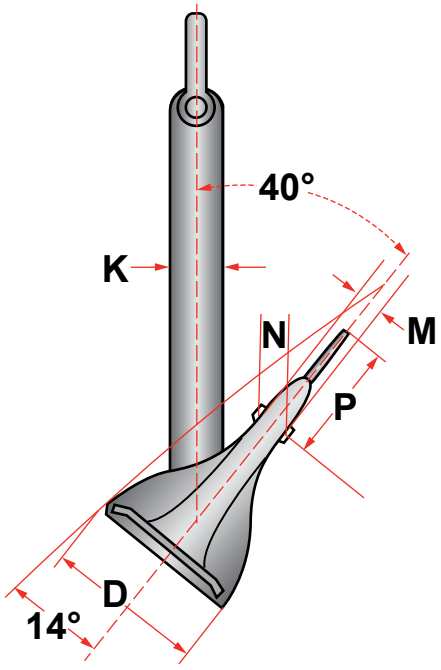


TABLE OF MAIN DIMENSIONS

WEIGHT	A	B	C	D	E	F	H	J	K	L	M	N	P
240 - 310	500	690	160	342	220	150	650	100	120	900	26	54	270
310 - 380	550	760	175	390	228	166	716	110	130	990	28	63	300
380 - 480	600	827	190	412	258	180	780	120	135	1080	23	69	320
480 - 610	650	908	205	442	280	196	846	130	160	1170	31	74	350
610 - 735	700	960	221	472	302	210	910	140	170	1260	33	86	375
735 - 880	750	1030	235	502	320	225	975	150	185	1350	34	77	400
880 - 1030	800	1100	251	542	340	240	1040	160	195	1440	38	80	430
1030 - 1150	850	1170	270	568	362	252	1102	170	200	1530	31	76	460
1150 - 1400	900	1240	286	587	328	268	1168	180	210	1620	38	87	485
1400 - 1750	950	1299	295	644	420	279	1229	190	220	1710	44	99	510
1750 - 2020	1000	1378	316	671	442	300	1300	200	235	1800	52	107	540
2020 - 2360	1050	1454	330	706	460	312	1362	210	240	1890	52	123	565
2360 - 2750	1100	1514	343	744	480	324	1424	220	265	1980	52	133	590
2750 - 3000	1150	1584	362	788	492	352	1502	230	285	2070	68	141	620
3000 - 3700	1200	1650	380	801	520	360	1560	245	300	2160	58	138	645
3700 - 4000	1350	1850	418	890	580	393	1743	265	330	2430	58	138	720
4000 - 5100	1400	1927	438	910	610	413	1813	280	340	2520	68	142	750
5100 - 5800	1450	2000	451	954	626	414	1864	290	345	2610	65	161	780
5800 - 6600	1500	2060	467	998	642	446	1946	300	355	2700	65	160	810
6600 - 8000	1550	2138	490	1030	660	456	2006	310	370	2790	64	169	835
8000 - 9600	1700	2333	533	1118	734	510	2210	330	410	3060	67	175	920
9600 - 11700	1770	2440	559	1178	782	531	2301	350	435	3186	83	180	955
11700 - 14100	1910	2632	603	1270	844	573	2483	380	470	3438	87	192	1030
14100 - 17000	2050	2825	648	1360	876	615	2665	410	500	3690	91	204	1105

All specifications in kilograms and millimeters. Intermediate sizes may be furnished on request.

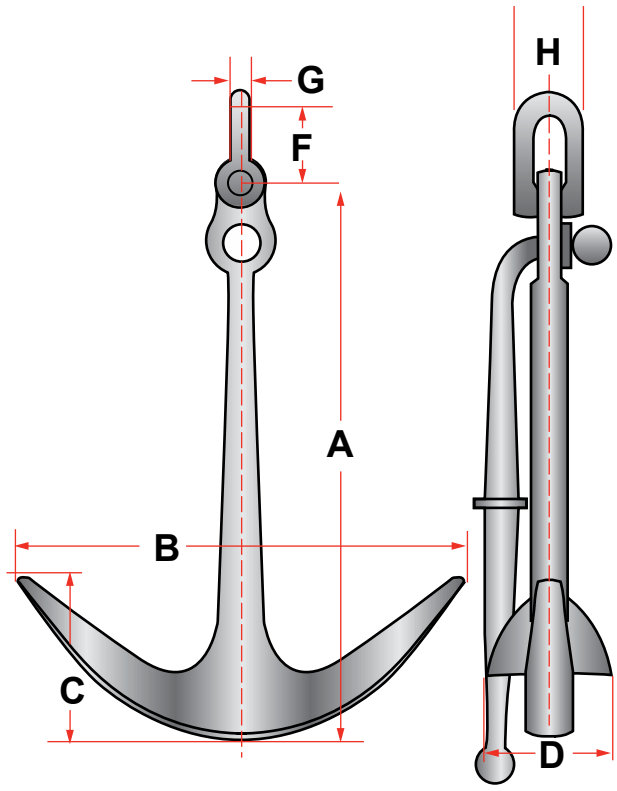
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OLD STYLE (KEDGE) ANCHOR

ANCHOR WT	WEIGHT N-STOCK	A	B	C	D	F	H	G	PROOF TEST
100	81	36	27	9	6	5	5	1	6850
150	119	41	31	11	8	5	5	1	7686
200	156	45	34	12	8	5	5	1	8500
250	199	49	38	13	9	7	6	1	9334
300	236	51	40	14	10	7	6	1	10090
350	274	54	42	15	10	7	6	1	10834
400	316	56	43	15	11	7	6	1	11560
450	354	58	45	16	11	7	6	1	12305
500	391	60	56	17	11	7	6	1	13030
550	429	63	49	17	12	7	6	1	13767
600	466	64	50	17	12	7	6	1	14500
650	504	66	52	18	13	7	6	1	15192
700	554	68	53	18	13	8	7	1	15885
750	592	71	54	19	13	8	7	1	16585
800	629	71	55	19	13	8	7	1	17270
850	667	73	57	20	14	8	7	1	17973
900	704	74	58	20	14	8	7	1	18660
950	742	76	59	21	14	8	7	1	19360
1000	779	77	60	21	15	8	7	1	20050
1050	831	78	61	21	15	8	8	2	20748
1100	868	79	61	21	15	9	8	2	21430
1150	906	80	62	22	15	9	8	2	22135
1200	943	81	63	22	15	9	8	2	27820
1250	981	83	64	23	16	9	8	2	23523
1300	1018	84	65	23	16	9	8	2	24205
1350	1056	85	66	23	16	9	8	2	24910
1400	1093	85	66	23	16	9	8	2	25590
1500	1168	88	68	24	17	9	8	2	26980
1600	1259	89	69	24	17	11	9	2	28360
1700	1334	91	71	25	17	11	9	2	29750
1800	1409	93	72	25	18	11	9	2	31140
1900	1484	94	73	26	18	11	9	2	32500
2000	1559	97	75	26	18	11	9	2	33810
2100	1634	98	76	27	19	11	9	2	35125
2200	1728	99	77	27	19	12	10	2	36440
2300	1803	101	78	27	19	12	10	2	37750
2400	1878	102	79	28	20	12	10	2	39080
2500	1953	103	81	28	20	12	10	2	40375
2600	2028	103	81	29	20	12	10	2	41630
2700	2103	106	83	29	20	12	10	2	42860
2800	2178	107	84	29	21	12	10	2	44090
2900	2253	109	85	30	21	12	10	2	45320
3000	2386	110	86	30	21	15	12	2	46550
3250	2374	113	88	31	22	15	12	2	49643
3500	2761	116	90	32	22	15	12	3	52710
3750	2949	119	93	33	23	15	12	3	55793
4000	3136	122	95	33	23	15	12	3	58720
4250	3324	124	96	34	24	15	12	3	61540
4500	3516	127	99	35	24	15	12	3	64420



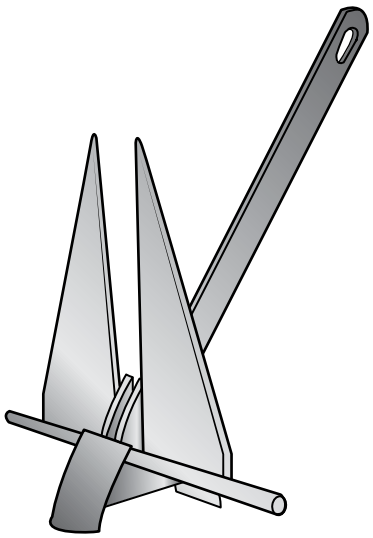
ANCHOR WT	WEIGHT N-STOCK	A	B	C	D	F	H	G	PROOF TEST
4750	3699	129	101	35	25	15	12	3	67165
5000	3886	131	102	36	25	15	12	3	69970
5250	4145	133	103	36	26	17	13	3	72790
5500	4332	135	105	37	26	17	13	3	75511
5750	4520	137	107	38	26	17	13	3	78028
6000	4707	139	109	38	27	17	13	3	80600
6250	4895	141	110	39	27	17	13	3	83164
6500	5082	143	111	39	27	17	13	3	85824
6750	5270	144	112	40	28	17	13	3	86154
7000	5457	146	114	40	28	17	13	3	90510
7250	5645	148	115	40	28	17	13	3	92879
7500	5832	150	117	41	29	17	13	3	95283
7750	6020	151	118	41	29	17	13	3	97497
8000	6207	153	119	42	29	17	13	3	99760
8250	6327	154	120	42	30	19	14	4	102033
8500	6714	156	122	43	30	19	14	4	104310
8750	6902	157	123	43	30	19	14	4	106413
9000	7089	159	124	43	31	19	14	4	108563
9250	7277	160	125	44	31	19	14	4	110727
9500	7464	162	126	44	31	19	14	4	112831
9750	7652	163	127	45	31	19	14	4	114789
10000	7839	164	128	45	32	19	14	4	116730

Intermediate sizes may be furnished on request.
Dimensions above are in inches, anchor weight in pounds.

ANCHORS

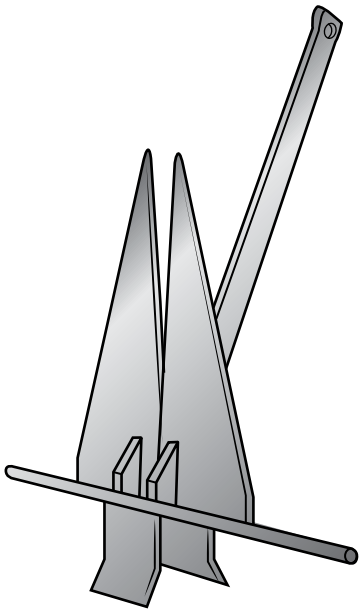
SH ANCHOR
HOT DIPPED GALVANIZED STAMPED STEEL

ANCHOR HEIGHT INCHES	STOCK LENGTH INCHES	FLUKE LENGTH INCHES	RECOMM. BOAT LENGTH FEET	WEIGHT LBS
17″	14″	9″	8′ - 16′	4.8 lb
20-1/2″	15″	10-1/2″	12′ - 22′	7.8 lb
22-1/2″	16″	12″	16′ - 26′	9.5 lb
25-1/2″	18″	13″	20′ - 32′	12.1 lb
30″	18″	16″	28′ - 34′	17.6 lb
34″	22″	17″	32′ - 40′	21.4 lb



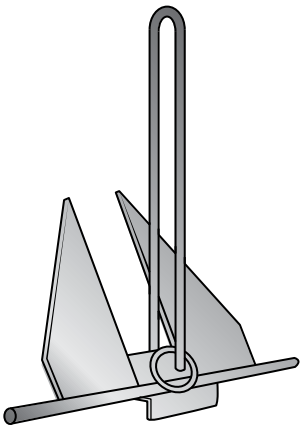
ST ANCHOR
HOT DIPPED GALVANIZED STAMPED STEEL

ANCHOR HEIGHT INCHES	STOCK LENGTH INCHES	FLUKE LENGTH INCHES	WEIGHT LBS.
34-1/2″	30″	18″	30.0 lb
40″	30″	21-1/2″	41.0 lb
46″	36″	24″	55.0 lb
54″	36″	26-1/2″	70.0 lb
54-1/2″	36″	26-1/2″	101.0 lb
54-1/2″	36″	26-1/2″	126.0 lb

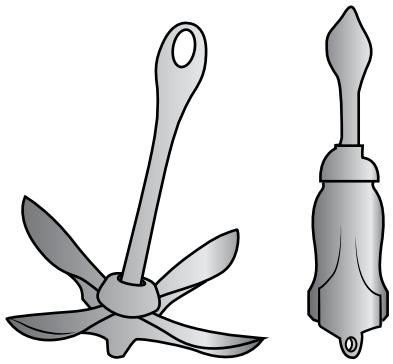


ECONOMY SLIP RING ANCHOR
HOT DIPPED GALVANIZED STAMPED STEEL

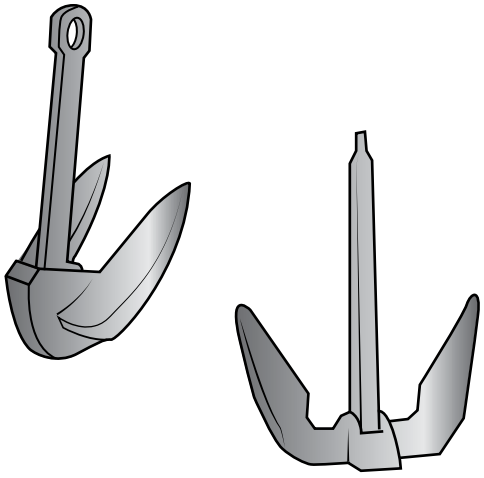
ANCHOR HEIGHT INCHES	STOCK LENGTH INCHES	FLUKE LENGTH INCHES	WEIGHT LBS.
14″	12″	9″	4.0 lb
17″	13″	9-1/2″	5.0 lb
20″	16″	10″	6.0 lb
24″	22″	11-3/4″	8.0 lb
24-1/2″	22″	14-1/2″	9.0 lb



FOLDING ANCHOR
HOT DIPPED GALVANIZED STAMPED STEEL



BOAT LENGTH	RECOMM. CHAIN / LENGTH	RECOMM. LINE / LENGTH	WEIGHT
5′ - 10′	1/4″ / 35′	3/16″ / 7-10′	1.0 lb
5′ - 12′	1/4″ / 35′	3/16″ / 7-10′	3.5 lb
5′ - 14′	5/16″ / 50′	3/16″ / 7-10′	5.5 lb
5′ - 16′	5/16″ / 50′	3/16″ / 7-10′	7.0 lb
5′ - 18′	5/16″ / 120′	3/16″ / 10-13′	9.0 lb
14′ - 22′	3/8″ / 150′	3/16″ / 10-20′	13.0 lb
18′ - 26′	3/8″ / 150′	1/4″ / 10-20′	18.0 lb
22′ - 30′	3/8″ / 150′	1/4″ / 10-20′	22.0 lb
24′ - 30′	1/2″ / 150′	1/4″ / 10-20′	27.0 lb
26′ - 32′	1/2″ / 175′	3/8″ / 10-20′	33.0 lb



SEAHOOK STOCKLESS ANCHOR
HOT DIPPED GALVANIZED STAMPED STEEL

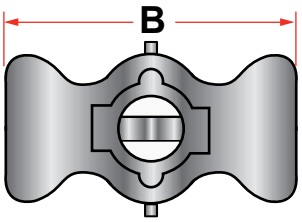
ANCHOR HEIGHT	WIDTH	FLUKE LENGTH	WEIGHT
24″	15-1/4″	10-1/4″	25.0 lb
28-1/2″	17-3/4″	13-1/4″	45.0 lb
32″	20″	15″	70.0 lb
38″	24″	18-1/2″	100.0 lb
40″	30″	24″	150.0 lb
40″	30″	24″	210.0 lb
50″	36″	27″	350.0 lb

ESTIMATING DOMESTIC ANCHOR WEIGHTS

In the field, with no anchor-charts available, the weight of an anchor may be estimated within a few percent plus or minus as follows:

COMMERCIAL STOCKLESS

$$\text{Weight} = \frac{B^3}{40}$$

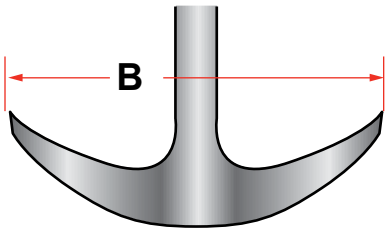


NAVY STANDARD STOCKLESS

$$\text{Weight} = \frac{B^3}{36}$$

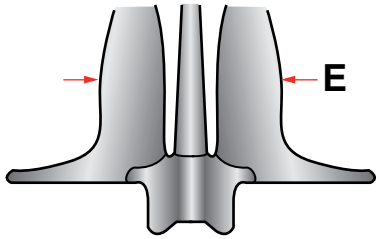
STANDARD KEDGE ANCHOR

$$\text{Weight} = \frac{B^3}{212}$$



SNUG-STOWING ANCHOR

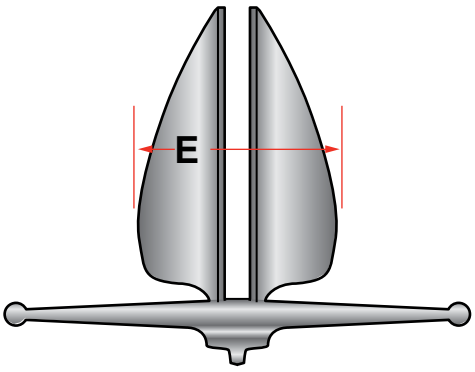
$$\text{Weight} = \frac{E^3}{21}$$



NAVY LWT ANCHOR

$$\text{Weight} = \frac{E^3}{16} \text{ for Anchors 7000\# \& up}$$

For LWT anchors of less than 7000# (when E is less than 47 inches) the above forumula does not apply.

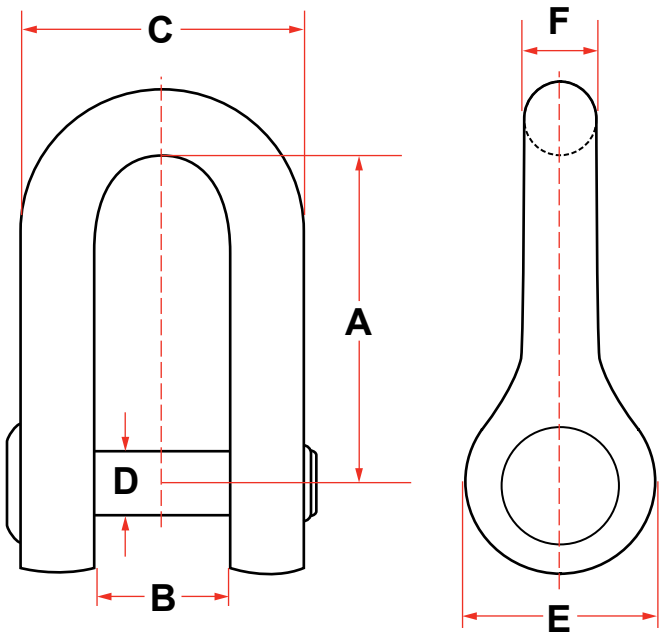


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CROWN ANCHOR SHACKLE
WITH ABS CERTIFICATION



SHACKLE SIZE		A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)	WEIGHT		PROOF LOAD (LBS)
MM	INCHES							KG	LBS.	
51	2	254.0	88.9	180.6	50.8	136.0	50.8	20	44	54,500
64	2-1/2	304.8	111.1	238.1	63.5	168.0	63.5	50	110	90,700
76	3	355.6	152	304	76.2	200.0	76.2	80	176	145,000
89	3-1/2	406.4	165.1	342.9	88.9	230.0	88.9	120	265	165,600
102	4	482.6	194.2	357.4	101.6	265.0	101.6	170	375	230,000
114	4-1/2	558.8	203.2	431.8	114.3	300.0	114.3	240	529	282,500



ANCHORS

ANCHORS

NOTES

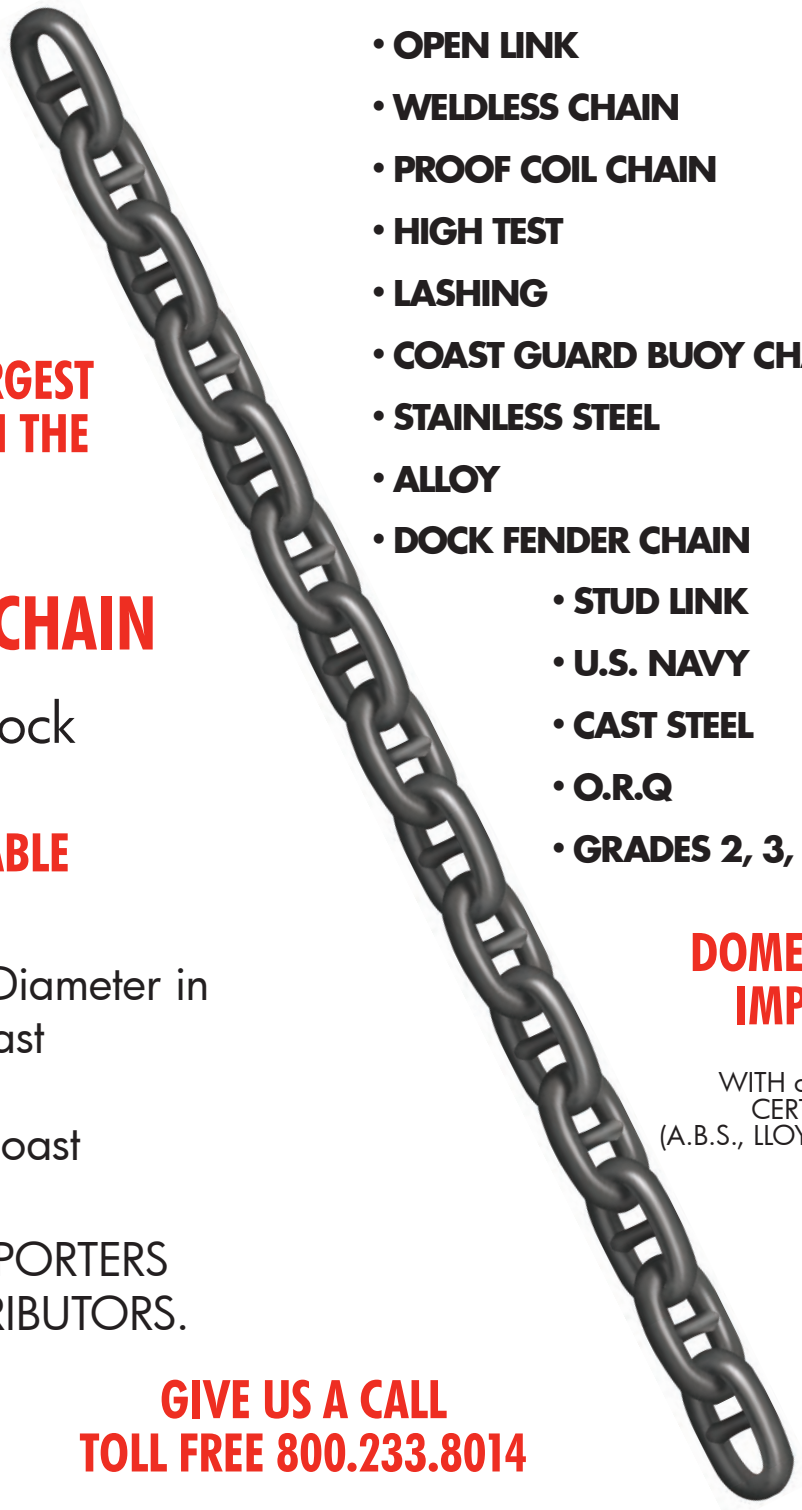
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CHAINS

GENERAL INFORMATION



- OPEN LINK
- WELDLESS CHAIN
- PROOF COIL CHAIN
- HIGH TEST
- LASHING
- COAST GUARD BUOY CHAIN
- STAINLESS STEEL
- ALLOY
- DOCK FENDER CHAIN
  - STUD LINK
  - U.S. NAVY
  - CAST STEEL
  - O.R.Q
  - GRADES 2, 3, 4 AND 5

ONE OF THE LARGEST INVENTORIES IN THE COUNTRY

NEW & USED CHAIN

Always in Stock

RENTAL AVAILABLE

From 1/4" to 5-1/4" Diameter in
the West Coast
East Coast
and the Gulf Coast

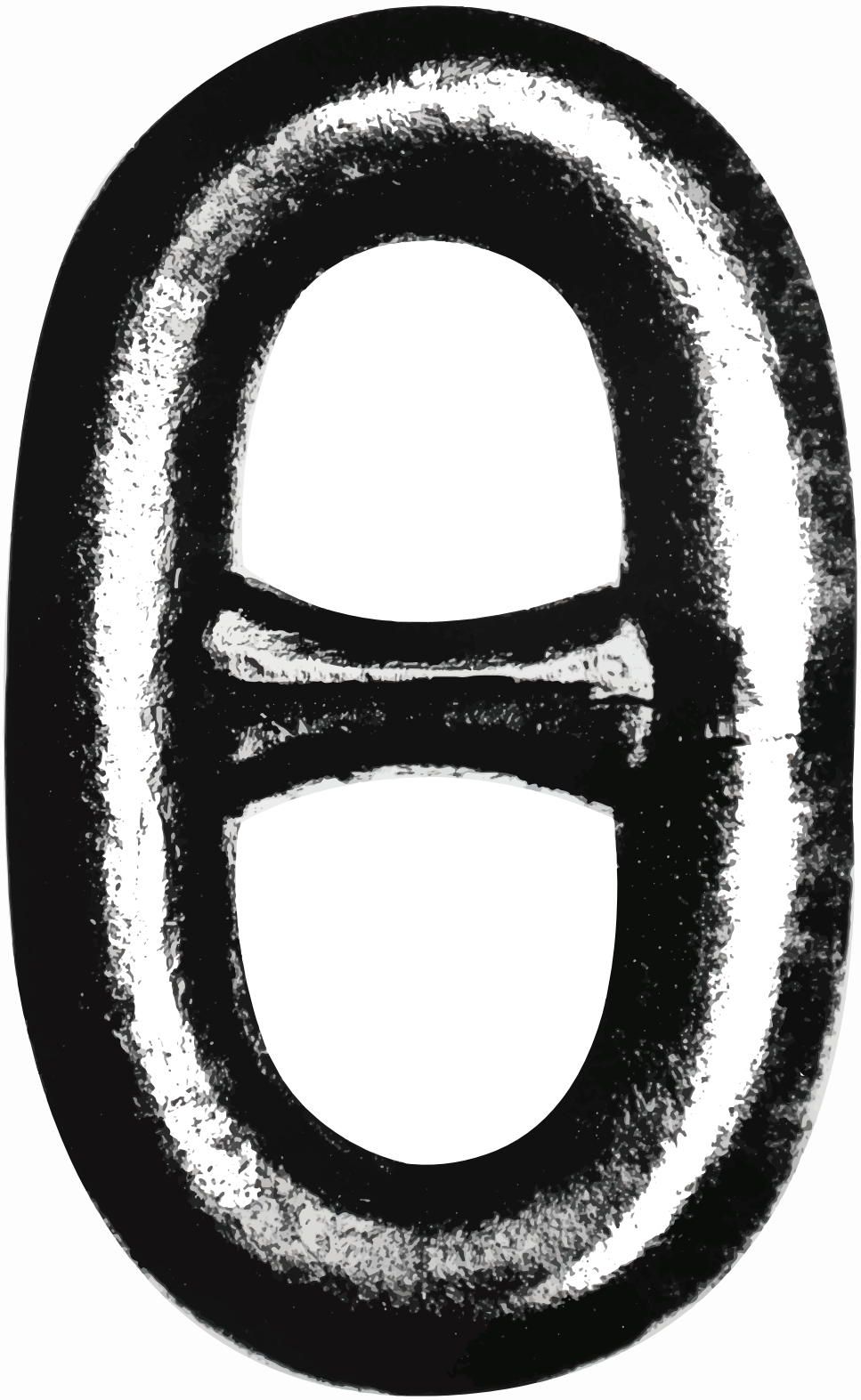
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and FACTORY DISTRIBUTORS.

DOMESTIC AND IMPORTED

WITH or WITHOUT
CERTIFICATES
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CHAINS



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GENERAL INFORMATION

DIMENSION RATIOS

For many years, dimensions of stud link anchor chain have been standardized so that all chain manufacturers are required to furnish chain conforming to dimension charts published by various testing societies (Lloyds, American Bureau of Shipping, etc.), within their limiting tolerances. For estimating purposes it is often useful to note the following:

The inside length ("grip" or pitch) of one link is 4 wire diameters.

The outside length of one link is 6 wire-diameters.

The outside width of one link is 3.56 wire-diameters.

The gauge-test length is the outside length over 6 links and equals 26 wire-diameters.

The weight of one link is about 3-1/3 times its wire diameter cubed.

Doubling the wire-diameter of one link multiplies its weight by 8.

The weight of 1 linear foot of chain is 10 times its wire-diameter squared.

The length of a standard "shot" = 15 fathoms = 90 ft. = 1080".

The weight of a 90 ft. shot = 900 times its wire-diameter squared.

Doubling the wire-diameter of a 90 ft. shot multiplies its weight by 4.

Doubling the size of a chain theoretically multiplies its strength by 4; in practice, by a trifle less than 4.

The safe working load of chain is ordinarily assumed as one half the proof test.

CHAIN LENGTHS REQUIRED

In determining amount of anchor chain to be used for a particular anchorage it is usual to allow 5 to 7 times the depth of water; dependent on such factors as nature of bottom, present and anticipated weather, tidal and current conditions, state of readiness of the ship's powerplant, draft, amount of exposed hull and superstructure, and length of stay at anchor. (U.S. Coast Guard)

CHAIN AND LINK MAINTENANCE

Anchor chain cable should be ranged at regular intervals and examined for damage and signs of excessive wear. It is considered good practice to occasionally shift the shots about in the chain to insure even wear. The chains may also be sprayed with a preservative such as fish oil at this time. (U.S. Coast Guard)

The U.S. Navy instructs that at least once every eighteen (18) months all anchor chain cable regardless of size, including detachable links, swivels and shackles should be examined, over-hauled and placed in a good state of preservation. Chain connecting links particularly should be disassembled and the interiors recoated with grease, and identification mark restored if necessary.

GENERAL INFORMATION
DEFINITIONS

RATED LOAD VALUE

The maximum recommended load that should be exerted on the item. The following terms are also used for the term Rated Load: "SWL", "Safe Working Load", "Working Load", "Working Load Limit", and the "Resultant Safe Working Load." All rated load values, unless noted otherwise, are for in-line pull with respect to the centerline of the item.

PROOF LOAD

The average load to which an item may be subjected before visual deformation occurs or a load that is applied in the performance of a proof test.

PROOF TEST

A term designating a tensile test applied to the item for the sole purpose of detecting injurious defects in the material or manufacture.

ULTIMATE LOAD

The average load at which the item being tested fails or no longer supports the load.

SHOCK LOAD

A resulting load from the rapid change of movement, such as impacting or jerking, of a static load. A Shock Load is generally significantly greater then the static load.

SAFETY FACTOR

An industry term denoting theoretical reserve capability. Usually computed by dividing the catalog stated ultimate load by the catalog stated working load limit and generally expressed a a ratio, for example 5 to 1.

COMMERCIAL SURFACE QUALITY

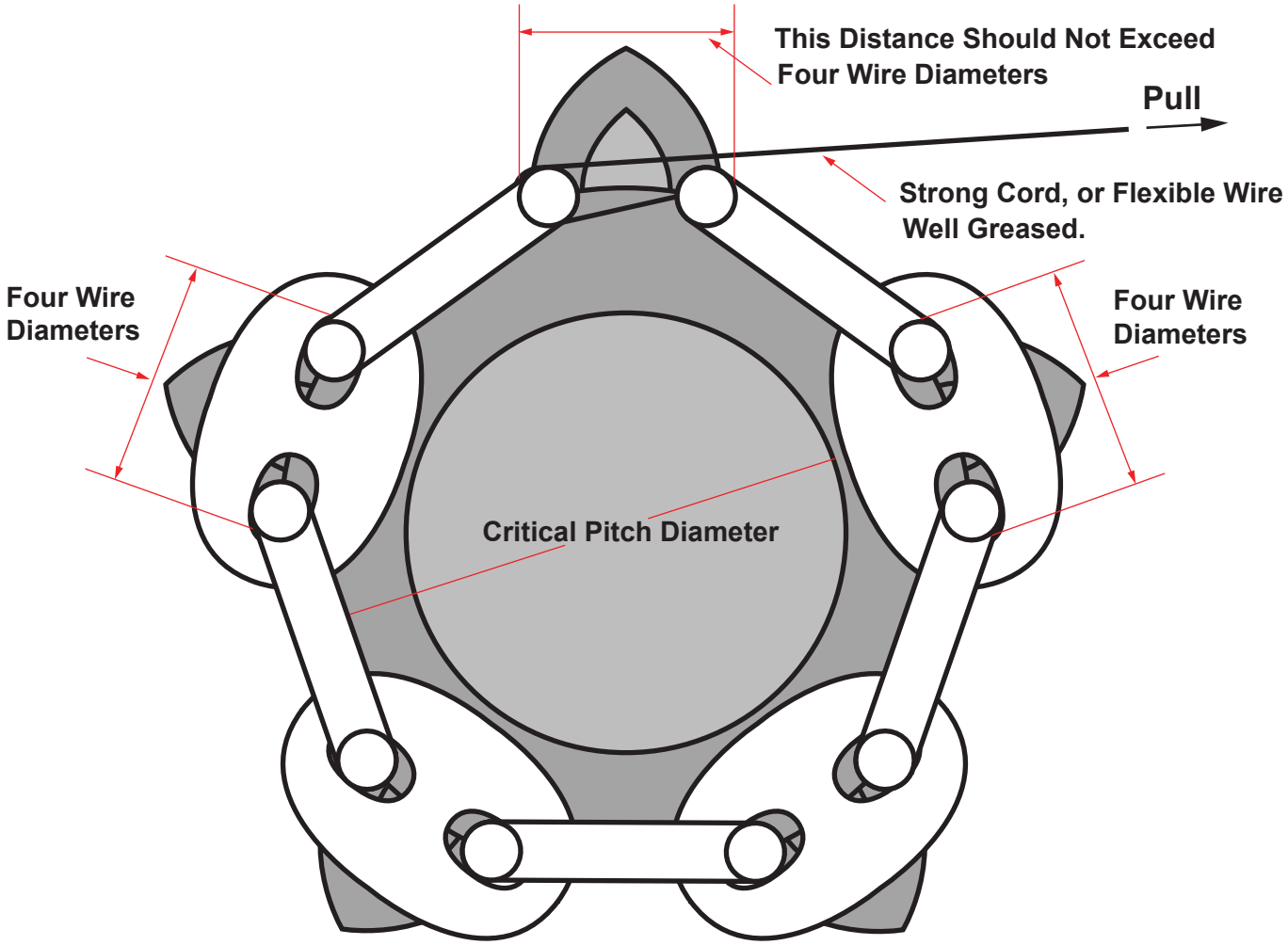
The surface condition associated with the normal methods of production of raw material and machined surfaces. The surface condition of the products shown in this catalog. More refined surface qualities are considered as special.

All ratings given in tons refer to short tons of 2,000 lbs.

NOTE: The right is reserved to make changes in product design, material and specifications without incurring obligations.

WARNING:
Low and high carbon steel welded and weldless chain and attachments are not to be used for overhead lifting purposes or where its failure is likely to cause damage to property or persons.

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SUGGESTIONS FOR CHECKING FIVE-POCKET WILDCATS

To meet American Bureau of Shipping specifications, the length over any six consecutive links of stud link anchor chain should be 26 wire-diameters, with a plus tolerance of 45% of one wire-diameter, and a minus tolerance of 30% of one wire-diameter.

To test the fit of a given chain on a given wildcat, it is suggested that a nine-link sample of the chain be used, consisting of five consecutive common links, one detachable link, and three consecutive common links.

When the link at one end of the nine-link sample is held snugly seated in one of the pockets of the wildcat, the remainder of the sample, held taut, should wrap readily and snugly around the wildcat so that they grip measurement as calipered between the two end links should equal the inside length of one link; namely, four wire-diameters.

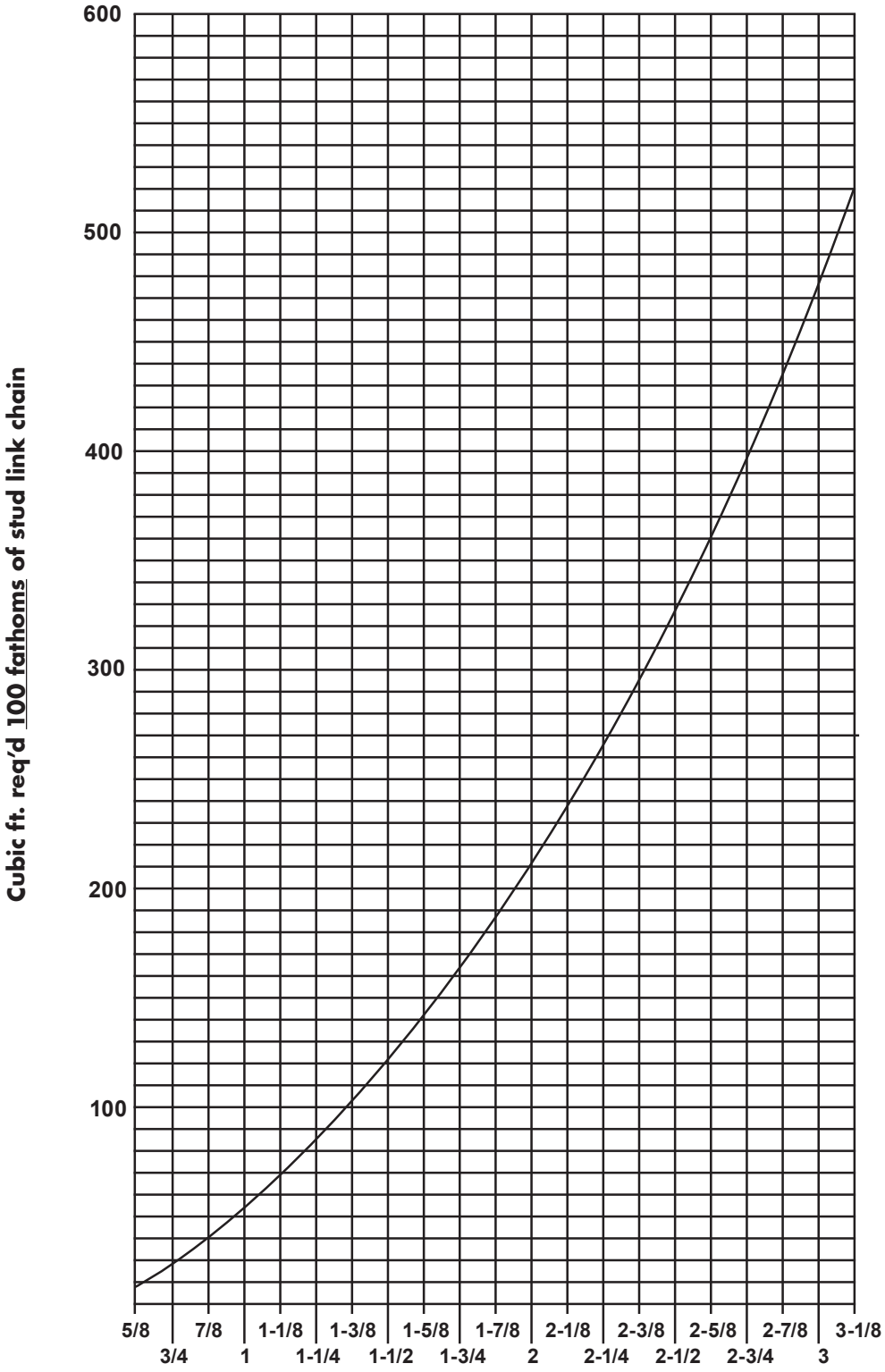
If the nine-link sample is within these tolerances, refusal to wrap readily and snugly to a four wire diameter closure will afford obvious indication as to whether the pitch of the wildcat be too great or too small, an obvious indication as to whether and where the whelps of the wildcat may need modification of contour.

Newly-cast wildcats are not infrequently slightly over-size. This condition is correctable by chipping away excess metal where indicated by the above test.

APPROXIMATE VOLUMES FOR SELF TIERING CHAIN

BASED ON A COMBINATION OF TABLES INCLUDING NAVY FORMULA ($V = \frac{LD^2}{2}$)

VOLUME OF CHAIN LOCKER FOR SELF TIERING CHAIN USE ($V = 1\text{-}1/2 \times \frac{LD^2}{2}$)

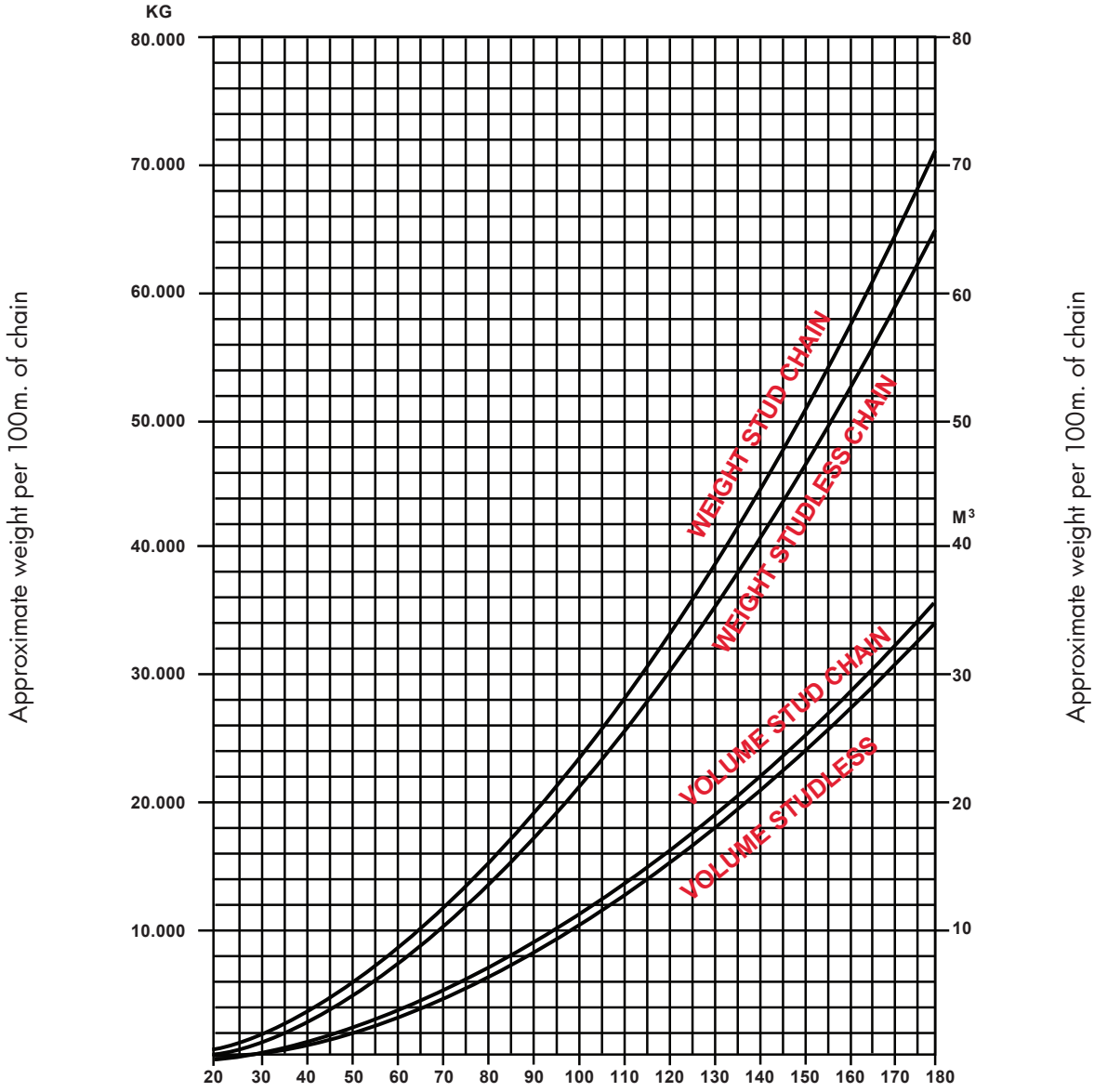


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OFFSHORE CHAIN DATA (OIL RIG)



DIAMETER OF CHAIN

Conversion

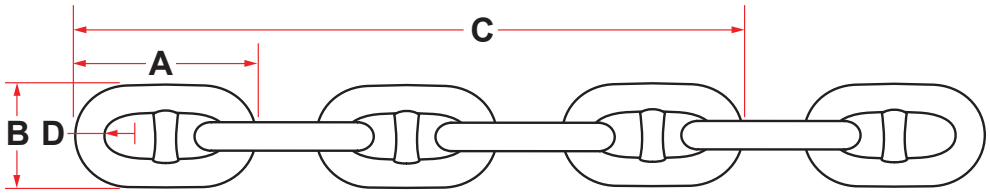
1 LBS = 0,454 KG.
1 CWT = 50,8 KG.
1 TON (LONG) 1016 KG.
1 KN = 98 KG.
1 N = 0,98 KG
1 INCH = 25,4 MM
1 FOOT = 304,8 MM
1 FATHOM = 1,828 MM

Formula

d= nominal chain diameter in mm

	STUD CHAIN	STUDLESS CHAIN
WEIGHT KG/M	$0{,}0219\ d^2$	$0{,}0202\ d^2$
VOLUME M3/M	$1{,}095.\ 10^5\ d^2$	$1{,}05.\ 10^5\ d^2$

STUD LINK ANCHOR CHAIN



CHAIN SIZE		LINK LENGTH	LINK WIDTH	LENGTH OVER 5 LINKS	GRIP RADIUS	WEIGHT PER 15-FATHOM SHOT (APPROX.)	NO OF LINKS PER 15-FATHOM SHOT	GRADE 1		GRADE 2		GRADE 3	
INCHES	MM	A	B	C	D			PROOF TEST	BREAK TEST	PROOF TEST	BREAK TEST	PROOF TEST	BREAK TEST
1/2	13	3	1-13/16	13	21/64	225	535	10685	15275	15275	21930	21930	30555
5/8	16	3-3/4	2-1/4	13-3/4	3/8	365	432	16620	23745	23745	33220	33220	47465
11/16	17.5	4-1/8	2-7/16	15-1/8	7/16	415	391	–	–	28663	40353	–	–
3/4	19	4-1/2	2-5/8	16-1/2	1/2	480	357	23800	34000	34000	47600	47600	68000
13/16	20	4-7/8	2-7/8	17-7/8	17/32	570	329	27800	39800	39800	55700	55700	79500
7/8	22	5-1/4	3-1/8	19-1/4	37/64	660	305	32200	46000	46000	64400	64400	91800
15/16	24	5-5/8	3-5/16	20-5/8	5/8	760	285	36800	52600	52600	73700	73700	105000
1	25	6	3-9/16	22	21/32	860	267	41800	59700	59700	83600	83600	119500
1-1/16	27	6-3/8	3-3/4	23-3/8	11/16	970	251	47000	67200	67200	94100	94100	135000
1-1/8	28	6-3/4	4	24-3/4	25/32	1080	237	52600	75000	75000	105000	105000	150000
1-3/16	30	7-1/8	4-1/4	26-1/8	25/32	1220	225	58400	83400	83400	116500	116500	167000
1-1/4	32	7-1/2	4-1/2	27-1/2	25/32	1350	213	64500	92200	92200	129000	129000	184000
1-5/16	33	7-7/8	4-3/4	28-7/8	7/8	1490	203	70900	101500	101500	142000	142000	203000
1-3/8	34	8-1/4	4-15/16	30-1/4	7/8	1630	195	77500	111000	111000	155000	155000	222000
1-7/16	36	8-5/8	5-3/16	31-5/8	15/16	1780	187	84500	120500	120500	169000	169000	241000
1-1/2	38	9	5-3/8	33	63/64	1940	179	91700	131000	131000	183500	183500	262000
1-9/16	40	9-3/8	5-5/8	34-3/8	1-1/32	2090	171	99200	142000	142000	198500	198500	284000
1-5/8	42	9-3/4	5-7/8	35-3/4	1-1/16	2240	165	108000	153000	153000	214000	214000	306000
1-11/16	43	10-1/8	6-1/16	37-1/8	1-3/32	2410	159	115000	166500	166500	229000	229000	327000
1-3/4	44	10-1/2	6-5/16	38-1/2	1-5/32	2590	153	123500	176000	176000	247000	247000	352000
1-13/16	46	10-7/8	6-1/2	39-7/8	1-3/16	2790	147	132000	188500	188500	264000	264000	377000
1-7/8	48	11-1/4	6-3/4	41-1/4	1-1/4	2980	143	140500	201000	201000	281000	281000	402000
1-15/16	50	11-5/8	7	42-5/8	1-9/32	3180	139	149500	214000	214000	299000	299000	427000
2	51	12	7-3/16	44	1-5/16	3360	133	159000	227000	227000	318000	318000	454000
2-1/16	52	12-3/8	7-7/16	45-3/8	1-3/8	3570	129	168500	241000	241000	337000	337000	482000
2-1/8	54	12-3/4	7-5/8	46-3/4	1-27/64	3790	125	178500	255000	255000	357000	357000	510000
2-3/16	56	13-1/8	7-7/8	48-1/8	1-15/32	4020	123	188500	269000	269000	377000	377000	538000
2-1/4	58	13-1/2	8-1/8	49-1/2	1-1/2	4250	119	198500	284000	284000	396000	396000	570000
2-5/16	59	13-7/8	8-5/16	50-7/8	1-17/32	4490	117	209000	299000	299000	418000	418000	598000
2-3/8	60	14-1/4	8-9/16	52-1/4	1-9/16	4730	113	212000	314000	314000	440000	440000	628000

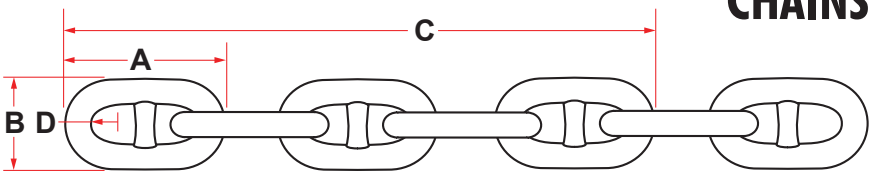
All specifications in pounds and inches, unless otherwise stated.

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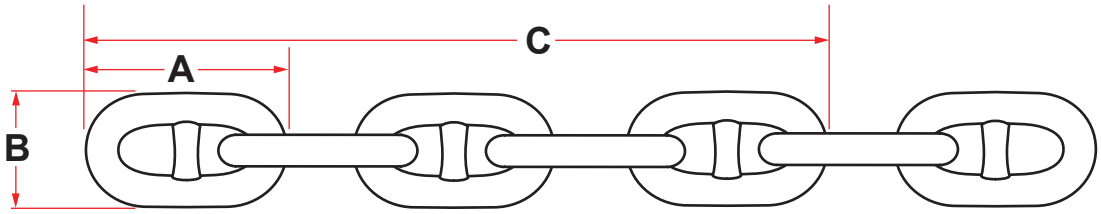
STUD LINK ANCHOR CHAIN



CHAIN SIZE		LINK LENGTH	LINK WIDTH	LENGTH OVER FIVE LINKS	GRIP RADIUS	WEIGHT PER 15-FATHOM SHOT (APPROX.)	NO. OF LINKS PER 15-FATHOM SHOT	GRADE 1		GRADE 2		GRADE 3	
INCHES	MM	A	B	C	D			PROOF TEST	BREAK TEST	PROOF TEST	BREAK TEST	PROOF TEST	BREAK TEST
2-7/16	62	14-5/8	8-3/4	53-5/8	1-5/8	4960	111	231000	330000	330000	462000	462000	660000
2-1/2	64	15	9	55	1-5/8	5270	107	242000	346000	346000	484000	484000	692000
2-9/16	66	15-3/8	9-1/4	56-3/8	1-11/16	5540	105	254000	363000	363000	507000	507000	726000
2-5/8	67	15-3/4	9-7/16	57-3/4	1-11/16	5820	103	265000	379000	379000	530000	530000	758000
2-11/16	68	16-1/8	9-11/16	59-1/8	1-3/4	6110	99	277000	396000	396000	554000	554000	792000
2-3/4	70	16-1/2	9-7/8	60-1/2	1-13/16	6410	97	289000	413000	413000	578000	578000	826000
2-13/16	71	16-7/8	10-1/8	61-7/8	1-27/32	6710	95	301000	431000	431000	603000	603000	861000
2-7/8	73	17-1/4	10-3/8	63-1/4	1-7/8	7020	93	314000	449000	449000	628000	628000	897000
2-15/16	75	17-5/8	10-9/16	64-5/8	1-7/8	7330	91	327000	467000	467000	654000	654000	934000
3	76	18	10-13/16	66	2	7650	89	340000	485000	485000	679000	679000	970000
3-1/16	78	18-3/8	11	67-3/8	2	7980	87	353000	504000	504000	705000	705000	1008000
3-1/8	79	18-3/4	11-1/4	68-3/4	2-1/16	8320	85	366000	523000	523000	732000	732000	1046000
3-3/16	81	19-1/8	11-1/2	70-1/8	2-1/16	8660	85	380000	542000	542000	759000	759000	1084000
3-1/4	83	19-1/2	11-11/16	71-1/2	2-1/8	9010	83	393000	562000	562000	787000	787000	1124000
3-5/16	84	19-7/8	11-15/16	72-7/8	2-1/8	9360	81	407000	582000	582000	814000	814000	1163000
3-3/8	86	20-1/4	12-1/8	74-1/4	2-3/16	9730	79	421000	602000	602000	843000	843000	1204000
3-7/16	87	20-5/8	12-3/8	75-5/8	2-3/16	10100	77	435000	622000	622000	871000	871000	1244000
3-1/2	90	21	12-5/8	77	2-5/16	10500	77	450000	643000	643000	900000	900000	1285000
3-5/8	92	21-3/4	12-15/16	79-3/4	2-5/16	11300	73	479000	685000	685000	958000	958000	1369000
3-3/4	95	22-1/2	13-3/8	82-1/2	2-15/32	12000	71	509000	728000	728000	1019000	1019000	1455000
3-7/8	98	23-1/4	14	85-1/4	2-15/32	12900	69	540000	772000	772000	1080000	1080000	1543000
4	102	24	14-3/8	88	2-5/8	13700	67	571000	816000	816000	1143000	1143000	1673200
4-1/8	105	24-3/4	14-11/16	90-3/4	2-11/16	14560	65	603300	861800	861800	1206600	1206600	1732700
4-1/4	109	25-1/2	15-3/16	93-1/2	2-3/4	15350	63	635800	908300	908300	1271800	1271800	1816800
4-3/8	111	26-1/4	15-9/16	96-1/4	2-7/8	16200	61	669000	955700	955700	1338000	1338000	1911300
4-1/2	114	27	16	99	2-15/16	17100	59	702700	1003700	1003700	1405300	1405300	2007500
4-5/8	117	27-3/4	16-7/16	101-3/4	3	18000	57	736700	1052600	1052600	1473600	1473600	2105200
4-3/4	120	28-1/2	16-7/8	104-1/2	3-1/16	18900	57	771500	1102100	1102100	1542900	1542900	2204200
4-13/16	122	28-11/16	17	105-7/8	3-1/8	19400	57	789100	1127300	1127300	1578200	1578200	2254600
4-7/8	124	29-1/4	17-3/8	107-1/4	3-3/16	19900	55	806700	1152500	1152500	1613400	1613400	2304900
5	127	30	17-13/16	110	3-1/4	20900	53	842300	1203300	1203300	1684600	1684600	2406600
5-1/8	130	30-3/4	18-1/4	112-3/4	3-5/16	22000	52	878300	1254700	1254700	1756600	1756600	2509400
5-3/16	132	31-1/8	18-7/16	114-1/8	3-3/8	22500	51	896400	1280600	1280600	1792900	1792900	2561300
5-7/16	139	32-5/8	19-3/8	119-5/8	3-1/2	24500	49	970000	1385700	1385700	1940000	1940000	2771400
5-5/8	144	33-3/4	20	123-3/4	3-11/16	26100	47	1026000	1465800	1465800	2052100	2052100	2931500
5-13/16	148	34-15/16	20-3/4	127-7/8	3-3/4	27600	46	1082800	1546800	1546800	2165500	2165500	3093600
6	152	36	21-3/8	130	3-7/8	29100	45	1140100	1628700	1628700	2280200	2280200	3257400

All specifications in pounds and inches, unless otherwise stated.

ORQ* & GRADE 4** STUD-LINK CHAIN



CHAIN SIZE		LINK LENGTH A	LINK WIDTH B	LENGTH OVER FIVE LINKS C	WEIGHT PER 15-FATHOM SHOT (APPROX.)	ORQ		GRADE 4	
INCHES	MM					PROOF TEST	BREAK TEST	PROOF TEST	BREAK TEST
1	25	6	3-9/16	22	860	85000	131000		
1-1/8	28	6-3/4	4	24-3/4	1080	107000	163000		
1-1/4	32	7-1/2	4-1/2	27-1/2	1350	131000	200000		
1-3/8	34	8-1/4	4-15/16	30-1/4	1630	158000	238000		
1-1/2	38	9	5-3/8	33	1940	187000	282000		
1-5/8	42	9-3/4	5-7/8	35-3/4	2240	218000	329000		
1-3/4	44	10-1/2	6-5/16	38-1/2	2590	251000	379000		
1-7/8	48	11-1/4	6-3/4	41-1/4	2980	287000	432000		
2	51	12	7-3/16	44	3360	324000	489000	485600	616000
2-1/16	52	12-3/8	7-7/16	45-3/8	3570	344000	518500	523700	665400
2-1/8	54	12-3/4	7-5/8	46-3/4	3790	364000	548000	562000	712600
2-3/16	56	13-1/8	7-7/8	48-1/8	4020	384500	579500	602400	764300
2-1/4	58	13-1/2	8-1/8	49-1/2	4250	405000	611000	622600	790100
2-5/16	59	13-7/8	8-5/16	50-7/8	4490	427000	643500	642900	816000
2-3/8	60	14-1/4	8-9/16	52-1/4	4730	449000	676000	685600	870000
2-7/16	62	14-5/8	8-3/4	53-5/8	4960	471500	710000	728300	926200
2-1/2	64	15	9	55	5270	494000	744000	773300	982400
2-9/16	66	15-3/8	9-1/4	56-3/8	5540	517500	779500	818300	1040800
2-5/8	67	15-3/4	9-7/16	57-3/4	5820	541000	815000	865500	1099300
2-11/16	68	16-1/8	9-11/16	59-1/8	6110	565500	852000	889100	1129600
2-3/4	70	16-1/2	9-7/8	60-1/2	6410	590000	889000	912700	1159900
2-13/16	71	16 7/8	10 1/8	61-7/8	6710	615000	927000	949800	1207200
2-7/8	73	17-1/4	10-3/8	63-1/4	7020	640000	965000	986900	1254400
2-15/16	75	17-5/8	10-9/16	65-5/8	7330	666500	1004500	1025100	1302700
3	76	18	10-13/16	66	7650	693000	1044000	1063300	1351000
3-1/16	78	18-3/8	11	67-3/8	7980	720000	1084500	1115000	1416200
3-1/8	79	18-3/4	11-1/4	68-3/4	8320	747000	1125000	1155500	1466800
3-3/16	81	19-1/8	11-1/2	70-1/8	8660	774500	1167000	1195900	1517400
3-1/4	83	19-1/2	11-11/16	71-1/2	9010	802000	1209000	1236400	1570200
3-5/16	84	19-7/8	11-15/16	72-7/8	9360	830500	1252000	1278000	1628000
3-3/8	86	20-1/4	12-1/8	74-1/4	9730	859000	1295000	1323000	1684000
3-7/16	87	20-5/8	12-3/8	75-5/8	10100	888500	1339000	1368000	1740000
3-1/2	90	21	12-5/8	77	10500	918000	1383000	1412000	1797000
3-5/8	92	21-3/4	12-15/16	79-3/4	11300	977000	1473000	1504000	1916000
3-3/4	95	22-1/2	13-3/8	82-1/2	12000	1039000	1566000	1599000	2035000
3-7/8	98	23-1/4	14	82-1/4	12900	1101000	1660000	1696000	2159000
4	102	24	14-3/8	88	13700	1165000	1756000	1795000	2284000

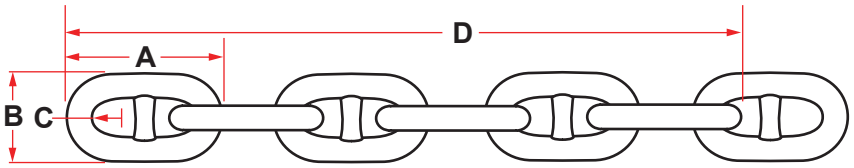
All specifications in pounds and inches, unless otherwise stated.

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Anchor MARINE & INDUSTRIAL SUPPLY, INC.

U.S.N. STUD-LINK WELDED

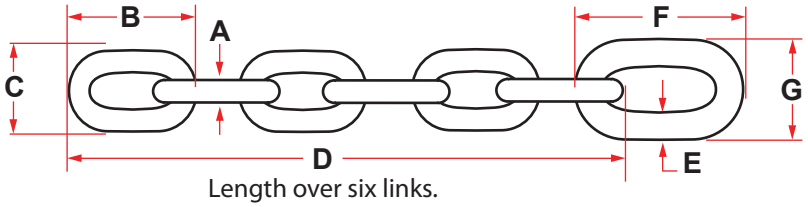


CHAIN SIZE	LINK LENGTH A	LENGTH OVER 6 LINKS D			LINK WIDTH B	GRIP RADIUS C	NUMBER OF LINKS PER 15-FATHOM SHOT	PROOF TEST LOAD (LB.)	BREAK TEST LOAD (LB.)	NOMINAL WEIGHT PER 15-FATHOM SHOT (LB.)
		MINIMUM	NOMINAL	MAXIMUM						
3/4	4-1/2	19-3/8	19-1/2	19-13/16	2-5/8	1/2	369	48,000	75,000	430
7/8	5-1/4	22-5/8	22-3/4	22-1/16	3-1/8	37/64	305	64,000	98,000	660
1	6	25-7/8	26	26-3/8	3-9/16	21/32	267	84,000	129,000	860
1-1/8	6-3/4	29-1/16	29-1/4	29-5/8	4	25/32	237	106,000	161,000	1,080
1-1/4	7-1/2	32-5/16	32-1/2	32-15/16	4-1/2	25/32	213	130,000	196,000	1,350
1-3/8	8-1/4	35-9/16	35-3/4	38-1/4	4-15/16	7/8	193	157,000	235,000	1,630
1-1/2	9	38-13/16	39	39-1/2	5-3/8	63/64	177	185,000	280,000	1,940
1-5/8	9-3/4	42	42-1/4	42-7/8	5-7/8	1-1/16	165	216,000	325,000	2,240
1-3/4	10-1/2	45-1/4	45-1/2	46-1/8	6-5/6	1-5/32	153	249,000	380,000	2,590
1-7/8	11-1/4	48-1/2	48-3/4	49-1/2	6-3/4	1-1/4	143	285,000	432,000	2,980
2	12	51-11/16	52	52-3/4	7-3/16	1-5/16	135	318,000	454,000	3,360
2-1/8	12-3/4	54-15/16	55-1/4	56-1/8	7-5/8	1-27/64	125	357,000	510,000	3,790
2-1/4	13-1/2	58-3/16	58-1/2	59-3/8	8-1/8	1-1/2	119	396,000	570,000	4,250
2-3/8	14-1/4	61-7/16	61-3/4	62-3/4	8-9/16	1-9/16	113	440,000	628,000	4,730
2-1/2	15	64-11/16	65	66	9	1-5/8	107	484,000	692,000	5,270
2-5/8	15-3/4	67-7/8	68-1/4	69-1/4	9-7/16	1-11/16	101	530,000	758,000	5,820
2-3/4	16-1/2	71-1/8	71-1/2	72-9/16	9-7/8	1-13/16	97	578,000	826,000	6,410
2-7/8	17-1/4	74-3/8	74-3/4	75-7/8	10-3/8	1-7/8	93	628,000	897,000	7,020
3	18	77-5/8	78	79-3/16	10-13/16	2	89	679,000	970,000	7,650
3-1/8	18-3/4	80-13/16	81-1/4	82-1/2	11-1/4	2-1/16	87	732,000	1,046,000	8,320
3-1/4	19-1/2	84-1/16	84-1/2	85-3/4	11-11/16	2-1/8	83	787,000	1,124,000	9,010
3-3/8	20-1/4	87-5/16	87-3/4	89	12-1/8	2-3/16	79	843,000	1,204,000	9,730
3-1/2	21	90-9/16	91	92-5/16	12-5/8	2-5/16	77	900,000	1,285,000	10,500
3-5/8	21-3/4	93-13/16	94-1/4	95-5/8	12-15/16	2-5/16	73	958,000	1,369,000	11,300
3-3/4	22-1/2	97-1/16	97-1/2	98-7/8	13-3/8	2-15/32	71	1,019,000	1,455,000	12,000
3-7/8	23-1/4	100-1/4	100-3/4	102-3/16	14	2-15/32	69	1,080,000	1,543,000	12,900
4	24	103-1/2	104	105-1/2	14-3/8	2-5/8	67	1,143,000	1,632,000	13,700

Per Military Spec MIL-C-24633.

All specifications in pounds and inches, unless otherwise stated.

OPEN-LINK CHAIN COAST GUARD BUOY CHAIN



Length over six links.

COMMON LINKS					END LINKS			LOADS		WEIGHT PER 15-FATHOM SHOT (APPROX.)
WIRE DIAMETER A		LINK LENGTH B	LINK WIDTH C	LENGTH OVER SIX LINKS D	WIRE DIAMETER E	LINK LENGTH F	LINK WIDTH G	PROOF TEST	BREAK TEST	
INCHES	MM									
1/2	13	3	1-7/8	13	3/4	4-1/4	2-5/8	7500	15000	210
5/8	16	3-3/4	2-1/4	16-1/4	3/4	4-1/2	2-5/8	11500	23000	323
3/4	19	4-1/2	2-5/8	19-1/2	7/8	5-1/4	3-1/8	16000	32000	442
7/8	22	5-1/4	3-1/8	22-3/4	1-1/8	6-3/4	3-7/8	22000	40000	608
1	25	6	3-1/2	28	1-1/4	7-1/2	4-3/8	29000	58000	760
1-1/8	28	6-3/4	3-7/8	29-1/4	1-1/4	7-1/2	4-3/8	38500	77000	990
1-1/4	32	7-1/2	4-3/8	32-1/2	1-1/2	9	5-1/4	45500	91000	1245
1-1/2	38	9	5-1/4	39	1-7/8	11-1/4	6-1/2	65500	131000	1762
1-5/8	42	9-3/4	5-11/16	42-1/4	1-7/8	11-1/4	6-1/2	76500	153000	2040
1-3/4	44	10-1/2	6-1/16	45-1/2	2-1/8	12	7-3/16	86500	173000	2370
1-7/8	48	11-1/4	6-1/2	48-3/4	2-1/8	12	7-3/16	100000	200000	2640

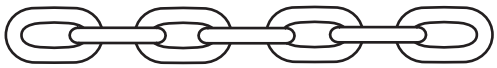
Per MIL-C-22521A.

All specifications in pounds and inches, unless otherwise stated.



CHAINS

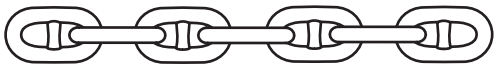
STUDLESS CHAIN LOADS IN METRIC KN



DIA	R5		R4S		R4		R3S		R3		WEIGHT KG/M
	BREAK LOAD KN	PROOF LOAD KN	BREAK LOAD KN	PROOF LOAD KN	BREAK LOAD KN	PROOF LOAD KN	BREAK LOAD KN	PROOF LOAD KN	BREAK LOAD KN	PROOF LOAD KN	
68	5706	3976	4885	3798	4885	3423	4440	3102	3976	2782	92
70	6021	4196	5720	4008	5156	3613	4685	3274	4196	2935	98
73	6507	4535	6182	4331	5572	3904	5064	3538	4535	3172	107
76	7009	4884	6658	4665	6001	4205	5454	3811	4884	3417	116
78	7351	5123	6984	4893	6295	4411	5720	3997	5123	3584	122
81	7877	5490	7984	5243	6745	4726	6130	4283	5490	3840	131
84	8418	5866	7997	5603	7208	5051	6550	4577	5866	4104	141
87	8971	6252	8523	5972	7682	5383	6981	4878	6252	4374	151
90	9539	6647	9062	6349	8167	5723	7422	5187	6647	4650	162
92	9924	6916	9428	6606	8497	5954	7722	5396	6916	4838	169
95	10512	7326	9987	6997	9001	6307	8180	5716	7326	5125	181
97	10911	7604	10366	7263	9343	6547	8490	5933	7604	5319	188
100	11520	8028	10944	7668	9864	6912	8964	6264	8028	5616	200
102	11932	8315	11336	7942	10217	7159	9285	6488	8315	5817	208
105	12560	8753	11932	8360	10754	7536	9773	6829	8753	6123	221
107	12984	9048	12335	8643	11118	7790	10103	7060	9048	6330	229
111	13847	9650	13154	9217	11856	8308	10775	7529	9650	6750	246
114	14506	10109	13780	9665	12420	8703	11287	7887	10109	7071	260
117	15174	10574	14415	10100	12993	9104	11807	8521	10574	7397	274
120	15852	11047	15059	10551	13573	9511	12334	8619	11047	7728	288
122	16308	11365	15493	10855	13964	9785	12690	8868	11365	7950	298
124	16768	11686	15930	11161	14358	10061	13048	9118	11686	8175	308
127	17466	12171	16592	11626	14955	10479	13591	9497	12171	8515	323
130	18171	12663	17262	12095	15559	10903	14139	9880	12663	8858	338
132	18645	12993	17713	12411	15965	11187	14508	10138	12993	9089	348
137	19844	13829	18852	13209	16992	11906	15441	10790	13829	9674	375
142	21061	14677	20008	14019	18033	12637	16388	11452	14677	10267	403
147	22294	15536	21179	14839	19089	13376	17347	12122	15536	10868	432
152	23540	16405	22363	15669	20156	14124	18317	120800	16405	11476	462
157	24799	17282	23559	16507	21234	14879	19297	13484	17282	12089	493
162	26068	18166	24764	17351	22320	15641	20284	14174	18166	12708	525
165	26833	18699	25491	17861	22976	16100	20879	14590	18699	13081	545
168	27601	19234	26221	18372	23633	16560	21477	15008	19234	13455	564
171	128371	19771	26952	18884	24292	17022	22076	15427	19771	13831	585
175	29400	20488	27930	19569	25174	17640	22877	15986	20488	14333	613
178	30173	21027	28665	20084	25836	18104	23479	16407	21027	14709	634
180	30689	21387	29155	20428	26278	18414	23880	16687	21387	14961	648
185	31980	22286	30381	21287	27383	19188	24884	17389	22286	15590	685
188	32754	22825	31116	21802	28046	19652	25487	17810	22825	15968	707
191	33527	23364	31851	22317	28708	20116	26089	18231	22364	16345	730
194	34300	23903	32585	22831	29369	20580	26690	18651	23903	16721	753
197	35071	24440	33317	23344	30029	21043	27290	19070	24440	17097	776
200	35840	24976	34048	23856	30688	21504	27888	19488	24976	17472	800
205	37116	25866	35261	24706	31781	22270	28881	20182	25866	18094	841



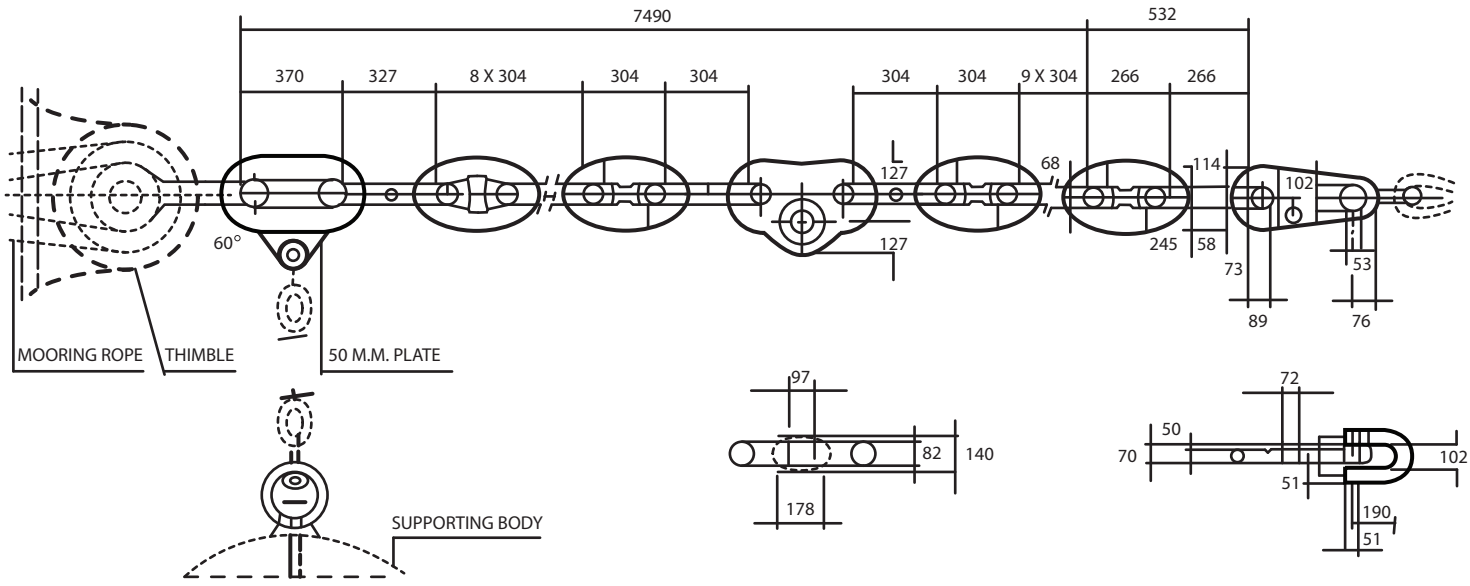
STUD CHAIN LOADS IN METRIC KN



DIA	R5		R4S		R4		R3S		R3		WEIGHT KG/M
	BREAK LOAD KN	PROOF LOAD KN	BREAK LOAD KN	PROOF LOAD KN	BREAK LOAD KN	PROOF LOAD KN	BREAK LOAD KN	PROOF LOAD KN	BREAK LOAD KN	PROOF LOAD KN	
68	5706	4475	5420	4279	4885	3851	4440	3209	3976	2782	101
70	6021	4723	5720	4516	5156	4064	4685	3387	4196	2935	107
73	6507	5104	6182	4881	5572	4392	5064	3660	4535	3172	117
76	7009	5498	6658	5257	6001	4731	5454	3942	4884	3417	126
78	7351	5766	6984	5514	6295	4962	5720	4135	5123	3584	133
81	7877	6179	7484	5908	6745	5317	6130	4431	5490	3840	144
84	8418	6602	7997	6313	7208	5682	6550	4735	5866	4104	155
87	8971	7037	8523	6729	7682	6056	6981	5046	6252	4374	166
90	9539	7482	9062	7154	8167	6439	7422	5365	6647	4650	177
92	9924	7784	9428	7443	8497	6699	7722	5582	6916	4838	185
95	10512	8246	9987	7884	9001	7096	8180	5913	7326	5125	198
97	10911	8559	10366	8184	9343	7365	8490	6138	7604	5319	206
100	11520	9036	10944	8640	9864	7776	8964	6480	8028	5616	219
102	11932	9359	11336	8949	10217	8054	9285	6712	8315	5817	228
105	12560	9851	11932	9420	10754	8478	9773	7065	8753	6123	241
107	12984	10184	12335	9738	11118	8764	10103	7304	9048	6330	251
111	13847	10861	13154	10385	11856	9347	10775	7789	9650	6750	270
114	14506	11378	13780	10879	12420	9791	11287	8159	10109	7071	285
117	15174	11902	14415	11380	12993	10242	11807	8535	10574	7397	300
120	15852	12434	15059	11889	13573	10700	12334	8916	11047	7728	315
122	16308	12792	15493	12231	13964	11008	12690	9173	11365	7950	326
124	16768	13153	15930	12576	14358	11319	13048	9432	11686	8175	337
127	17466	13700	16592	13099	14955	11789	13591	9824	12171	8515	353
130	18171	14253	17262	13628	15559	12265	14139	10221	12663	8858	370
132	18645	14625	17713	13984	15965	12585	14508	10488	12993	9089	382
137	19844	15565	18852	14883	16992	13395	15441	11162	13829	9674	311
142	21061	16520	20008	15796	18033	14216	16388	11847	14677	10267	442
147	22294	17487	21179	16720	19089	15048	17347	12540	15536	10868	473
152	23540	18464	22363	17655	20156	15890	18317	13241	16405	11476	506
157	24799	19452	23559	18599	21234	16739	19297	13949	17282	12089	540
162	26068	20447	24764	19551	22320	17596	20284	14663	18166	12708	575
165	26833	21047	25491	20125	22976	18112	20879	15094	18699	13081	596
168	27601	21649	26221	20701	23633	18631	21477	15525	19234	13455	618
171	28371	22253	26952	21278	24292	19150	22076	15959	19771	13831	640
175	29400	23061	27930	22050	25174	19845	22877	16538	20488	14333	671
178	30173	23667	28665	22630	25836	20367	23479	16972	21027	14709	694
180	30689	24072	29155	23017	26278	20715	23880	17263	21387	14961	710
185	31980	25084	30381	23985	27383	21586	24884	17989	22286	15590	750
188	32754	25691	31116	24565	28046	22109	25487	18424	22825	15968	774
191	33527	26298	31851	25146	28708	22631	26089	18859	22364	16345	799
194	34300	26904	32585	25725	29369	23152	26690	19294	23903	16721	824
197	35071	27609	33317	26303	30029	23673	27290	19727	24440	17097	850
200	35840	28112	34048	26880	30688	24192	27888	20160	24976	17472	876
205	37116	29113	35261	27837	31781	25054	28881	20878	25866	18094	920

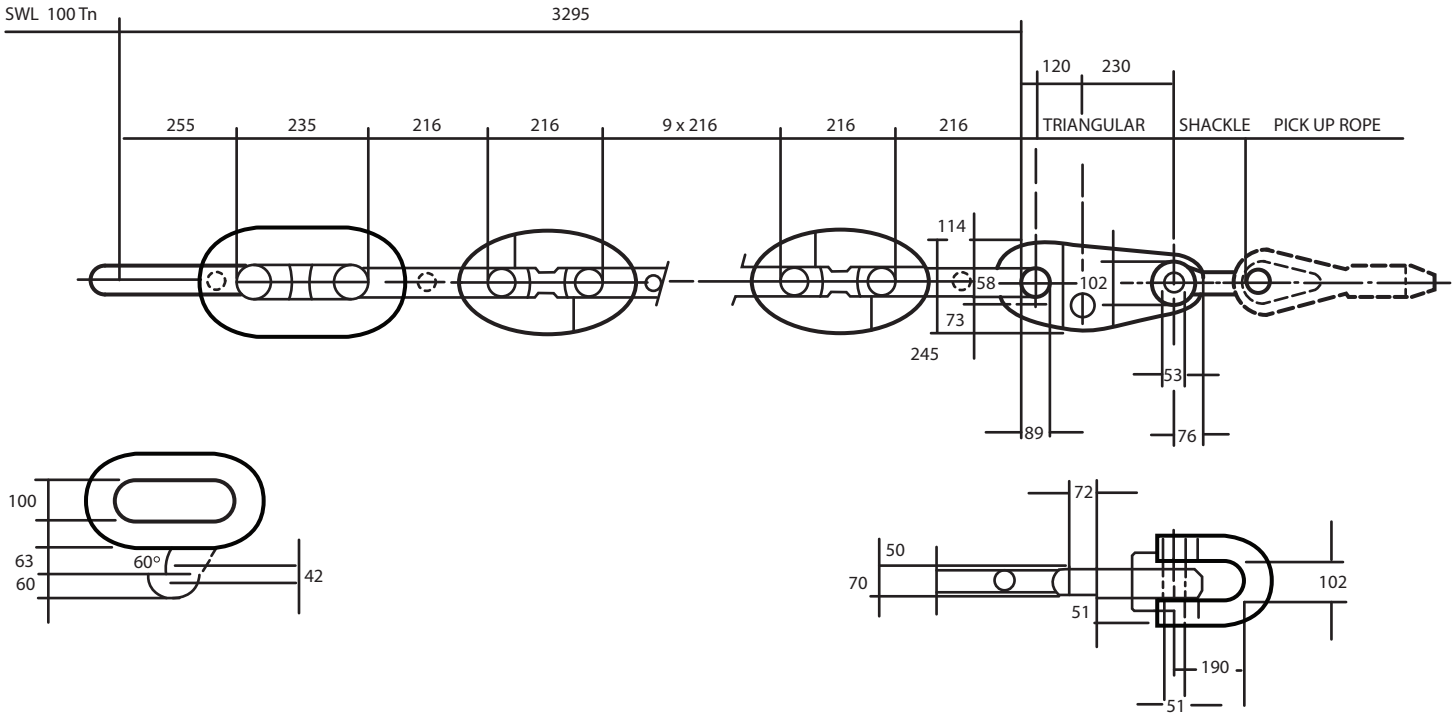
CHAFE CHAIN ASSEMBLY

"A" 76 mm. ORQ. - for vessels over 350.000 Tn DWT SWL 250 Tn – "B" 76 mm. - Grade 3 for vessels between 100.000 and 350.000 Tn DWT SWL 20



CHAFE CHAIN

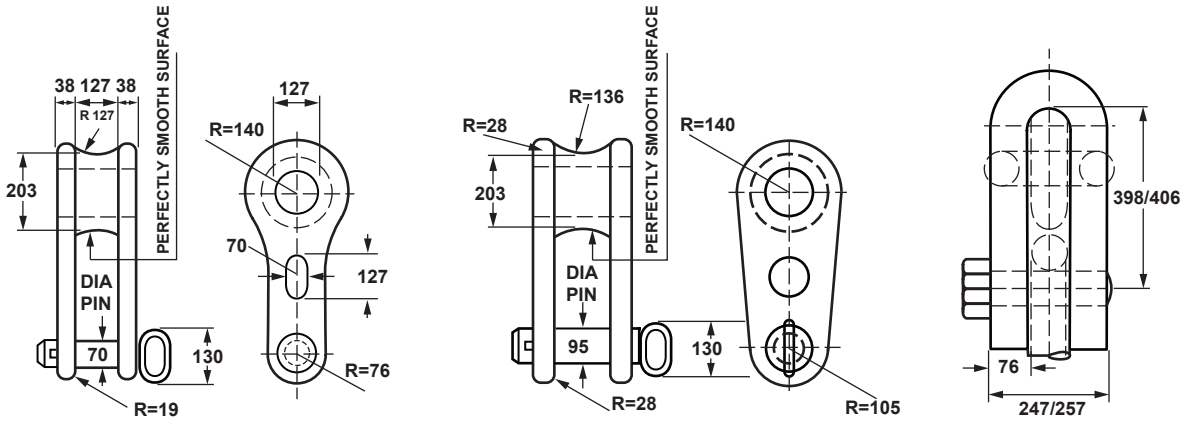
"C" 54 mm. - for vessels over 100.000 Tn DWT

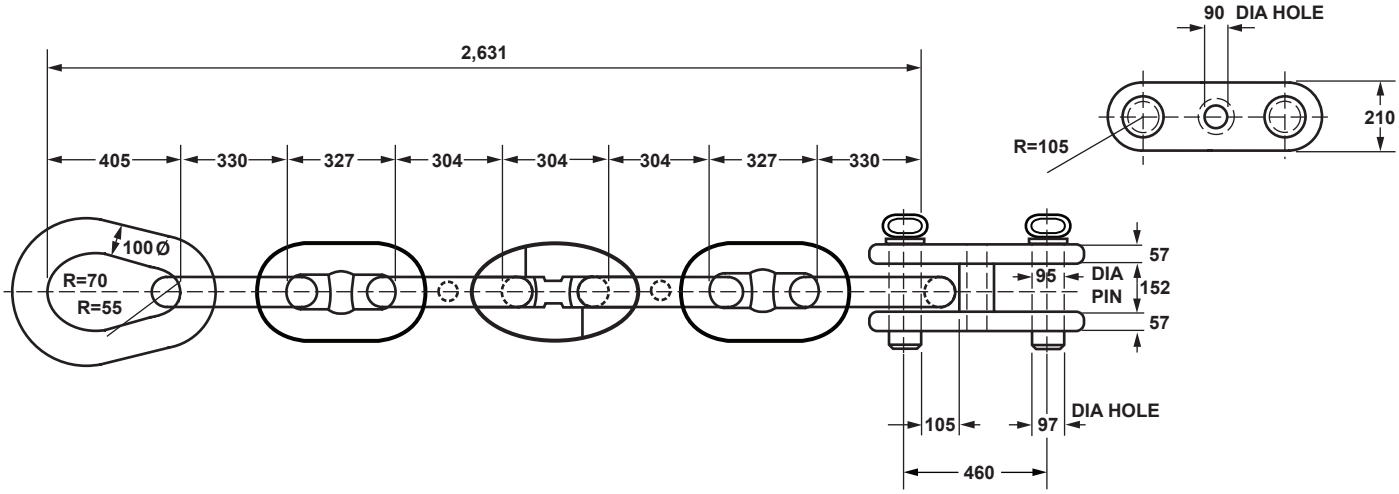


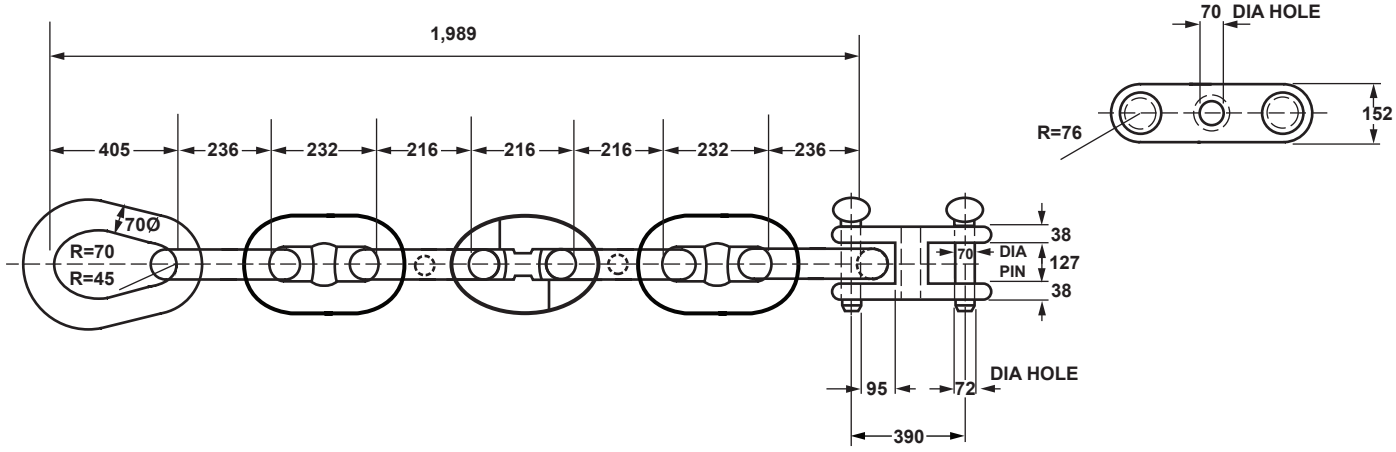
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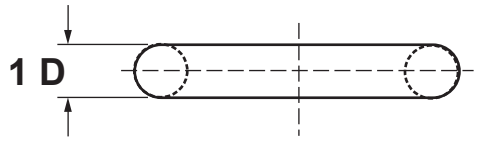

38 127 38
R 127
PERFECTLY SMOOTH SURFACE
203
DIA PIN
70
130
R=19
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R=140
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R=76
R=136
R=28
R=140
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DIA PIN
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130
R=28
R=105
398/406
76
247/257

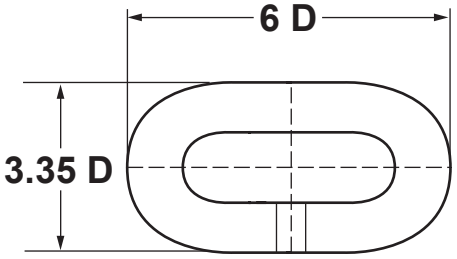

2,631
405
330
327
304
304
304
327
330
100 Ø
R=70
R=55
90 DIA HOLE
210
R=105
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DIA PIN
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1,989
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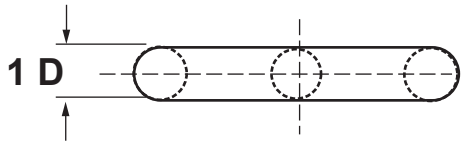
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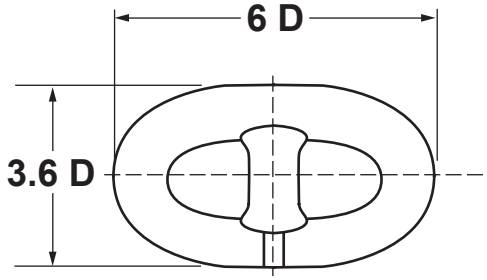
STUDLESS COMMON LINK



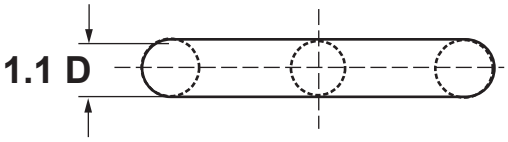


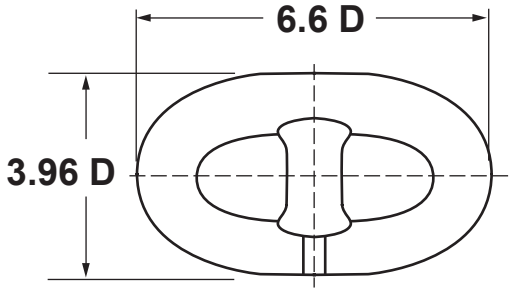
COMMON LINK



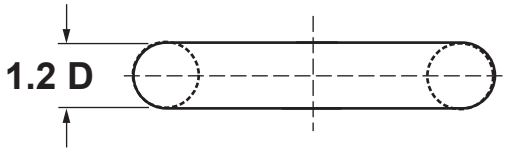


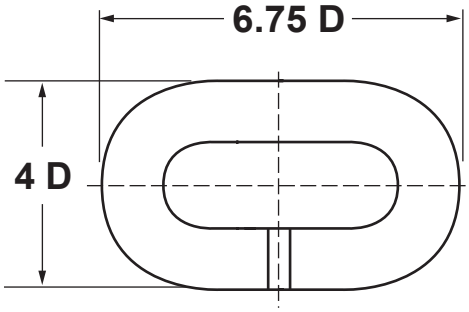
ENLARGED LINK





END LINK





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PROOF COIL CHAIN GRADE 28 / GRADE 30



CAUTION: NEVER EXCEED WORK LOAD LIMIT OF CHAIN. NEVER USE PROOF COIL CHAIN FOR OVERHEAD LIFTING OR WHERE IT'S FAILURE WILL CAUSE DAMAGE TO PROPERTY OR LIFE.

PROOF COIL CHAIN (GRADE 28)

Self colored-zinc plated-hot galvanized

TRADE SIZE	WORK LOAD LIMIT IN LBS	FEET PER DRUM	FEET PER 1/2 DRUM	MIN. WEIGHT PER FOOT IN LBS	MAX. LENGTH PER 100 LINKS
1/8"	375	—	1,000	.17	98.7"
3/16"	750	1,500	750	.33	96.4"
1/4"	1,250	800	400	.63	124"
5/16"	1,900	550	275	.93	129.1"
3/8"	2,650	400	200	1.41	137.8"
7/16"	3,500	300	150	2.10	172.9"
1/2"	4,500	200	100	2.40	179.1"
5/8"	6,900	150	75	3.58	220.5"
3/4"	9,750	100	50	5.48	275.6"
7/8"	11,375	75	35	7.31	258.7"
1"	13,950	60	30	9.41	287.8"

HIGH TEST CHAIN GRADE 43 / GRADE 40



CAUTION: NEVER EXCEED WORK LOAD LIMIT OF CHAIN. NEVER USE GRADE 43 TEST CHAIN FOR OVERHEAD LIFTING OR WHERE IT'S FAILURE WILL CAUSE DAMAGE TO PROPERTY OR LIFE.

HIGH TEST CHAIN (GRADE 43)

Self colored-hot galvanized

TRADE SIZE	WORK LOAD LIMIT IN LBS	FEET PER DRUM	FEET PER 1/2 DRUM	MIN. WEIGHT PER FOOT IN LBS	MAX. LENGTH PER 100 LINKS
1/4"	2,600	800	400	.63	124.0"
5/16"	3,900	550	275	.93	129.1"
3/8"	5,400	400	200	1.41	137.8"
7/16"	7,200	300	150	2.10	172.9"
1/2"	9,200	200	100	2.40	179.1"
5/8"	11,500	150	75	3.58	220.5"
3/4"	16,200	100	50	5.48	275.6"

CHAINS

TRANSPORT CHAIN GRADE 70



CAUTION: NEVER EXCEED WORK LOAD LIMIT OF CHAIN. NEVER USE GRADE 70 CHAIN FOR OVERHEAD LIFTING OR WHERE IT'S FAILURE WILL CAUSE DAMAGE TO PROPERTY OR LIFE.

Plated.

TRADE SIZE	WORK LOAD LIMIT IN LBS	FEET PER DRUM	FEET PER 1/2 DRUM	MIN. WEIGHT PER FOOT IN LBS	MAX. LENGTH PER 100 LINKS
1/14"	3,150 lbs.	800	400	0.63 lbs.	124.0"
5/16"	4,700	550	275	0.93	129.1"
3/8"	6,600	400	200	1.41	137.8"
1/2"	11,300	200	100	2.40	179.1"

ALLOY STEEL CHAIN GRADE 80



MATERIAL	DIAMETER	DIAMETER	LINK DIMENSIONS INSIDE		WLL*	LINKS	WEIGHT PER 100'
NOMINAL IN.	ACTUAL IN.	ACTUAL MM.	LENGTH IN.	WIDTH IN.	LBS	PER FT.	LBS.
1/4"	.236	6	.70	.315	2,100	16.9	53
9/32"	.275	7	.82	.394	3,500	14.5	74
5/16"	.314	8	.94	.469	4,500	12.7	94
3/8"	.393	10	1.18	.575	7,100	10.1	148
1/2"	.512	13	1.53	.764	12,000	7.8	256
5/8"	.629	16	1.89	.937	18,100	6.3	383
3/4"	.787	20	2.36	1.142	28,300	5.1	605
7/8"	.866	22	2.60	1.307	34,200	4.6	732
1"	1.020	26	3.07	1.379	47,700	3.9	1,020
1-1/4"	1.260	32	3.78	1.713	72,300	3.1	1,550
1-1/2"	1.490	38	4.48	2.000	99,000	2.6	2,090

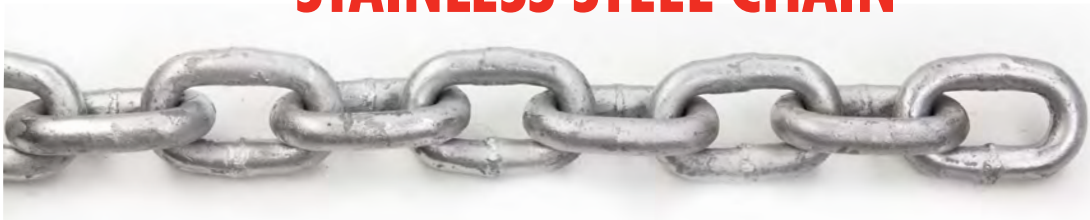
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ALLOY STEEL CHAIN GRADE 100



MATERIAL	DIAMETER	DIAMETER	LINK DIMENSIONS INSIDE		WLL	LINKS	WEIGHT PER 100′
NOMINAL IN.	ACTUAL IN.	ACTUAL MM.	LENGTH IN.	WIDTH IN.	LBS	PER FT.	LBS.
9/32″	.275	7	.82	.394	4,300	14.5	74
5/16‴	.314	8	.94	.469	5,700	12.7	94
3/8″	.393	10	1.18	.575	8,800	10.1	148
1/2″	.512	13	1.53	.764	15,000	7.8	256
5/8′	.629	16	1.89	.937	22,600	6.3	383

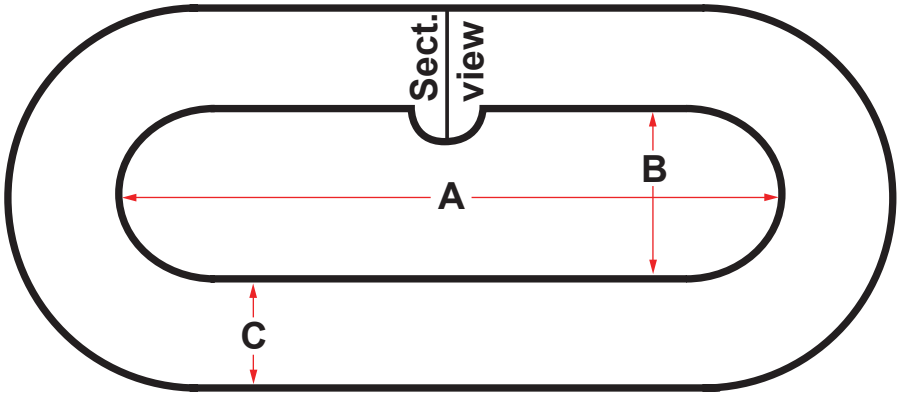
STAINLESS STEEL CHAIN



TRADE SIZE	DRUM	WORKING LOAD LIMITS (LBS)	MATERIAL DIAMETER	INSIDE LENGTH	INSIDE WIDTH	WEIGHT PER 100 FT (LBS)
1/8″	1000′	375	.156	.94	.25	17
3/16‴	1500′	1,150	.217	.98	.30	38
1/4″	800′	1,860	.275	1.24	.38	61
5/16″	550′	2,425	.330	1.29	.44	84
3/8″	400′	3,800	.394	1.38	.55	140
1/2″	200′	6,425	.512	1.79	.72	234
5/8″	150′	9,725	.630	2.20	.79	358
3/4″	60′	15,175	.787	2.76	.98	551
DO NOT USE FOR OVERHEAD LIFTING. Do not exceed working load limit.						

The information on this page is to be used for comparison purposes only.
Please consult reliable engineering texts when danger to life or property is possible.

DOCK FENDER CHAIN



Typical Link

SIZE/DIA.	1/2 INCH	5/8 INCH	3/4 INCH	1 INCH		12.7 MM	15.9 MM	19.1 MM	25.4 MM
Proof test	15,000*	35,000*	55,000*	100,000*		6,804**	15,876**	24,948**	45,351**
Av. Ult. Strength	35,000*	58,000*	105,000*	160,000*		15,876**	26,308**	47,627**	72,562**
Max. elongation	15%	15%	15%	15%		15%	15%	15%	15%
Brinell hardness	229-277	229-277	331-388	331-388		229-277	229-277	229-277	331-388
Links per ft. (per m) nominal	3.2	3.2	3.2	2.9		10.5	10.5	10.5	9.54
Wt. per 100ft. (per m)	205*	320*	446*	814*		3.05	4.78	4.78	12.1
Max. link width	1.874	2.243	2.700	3.375		47.6	56.97	56.97	85.72
A (inside length)	3.25 +.015-0	3.75 +.015-0	3.7500 ± .025	4.125		95.25	95.25	95.15	104.78
B (inside width)	.789 ± .031	.900 ± .031	1.125 ± .031	1.375		20.04	22.86	28.48	34.93
C (thickness)	.531	.656	.750 ± .008	1.000		13.49	16.66	19.05	25.40
D (max. swell)	.025	0.25	—	—		.064	.064	—	—
Alloy safety anchor shackle	851A	852A	854A	854A		851A	852A	854A	854A
Shackle ultimate strength	60,000*	81,000*	135,000*	135,000*		27,216**	36,741**	61,235**	61,235**

* STRENGTHS AND WEIGHTS IN LBS.

** STRENGTHS AND WEIGHTS IN KG.

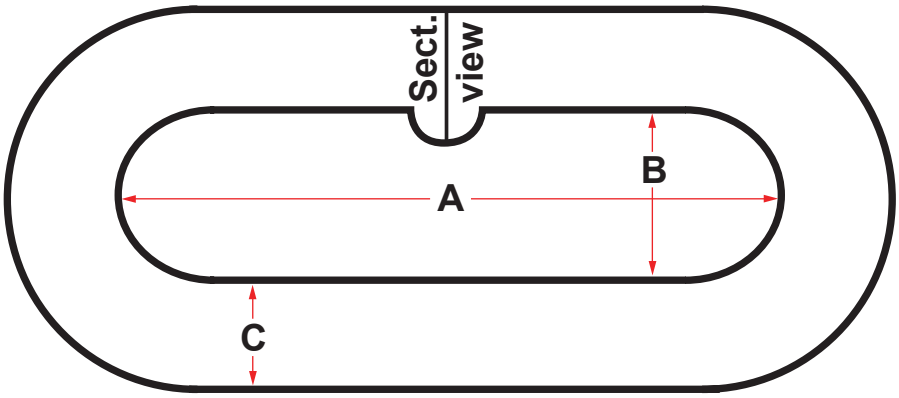
HOT DIPPED GALVANIZED

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LONG LINK HIGH TEST CHAIN GRADE-43

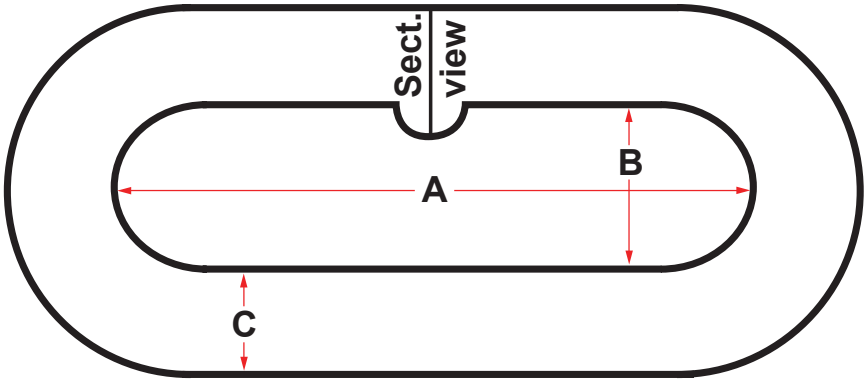


Typical Link

NOMINAL CHAIN SIZE INCHES	WEIGHT PER 100′ (LBS)	C (IN)	A (IN)	B (IN)	WORKING LOAD (LBS)	PROOF LOAD (LBS)	BREAKING STRENGTH (LBS)
3/8″	117	3/8″	2-3/8″	5/8″	3,500	7,000	14,000
1/2″	186	1/2″	3-1/4″	3/4″	6,000	12,000	24,000
5/8″	290	5/8″	3-3/4″	7/8″	9,500	19,000	38,000
3/4″	460	3/4″	3-3/4″	1-1/4″	13,500	27,000	54,000
1″	832	1″	4-1/8″	1-3/8″	23,200	46,400	92,800

FINISH: HOT DIPPED GALVANIZED

CHAINS



Typical Link

LONG LINK LASHING CHAIN GRADE-80

NOMINAL CHAIN SIZE INCHES	WEIGHT PER 100′ (LBS)	C (IN)	A (IN)	B (IN)	WORKING LOAD (LBS)	PROOF LOAD (LBS)	BREAKING STRENGTH (LBS)
3/8″	143	3/8″	2-3/8″	1/2″	7,100	14,200	28,400
1/2″	231	1/2″	3-1/4″	3/4″	10,000	20,000	40,000
5/8″	290	5/8″	3-3/4″	7/8″	17,500	35,000	70,000
3/4″	506	3/4″	3-3/4″	1-1/4″	27,500	55,000	110,000
1″	902	1″	4-1/8″	1-3/8″	43,400	86,800	173,600

FINISH: HOT DIPPED GALVANIZED

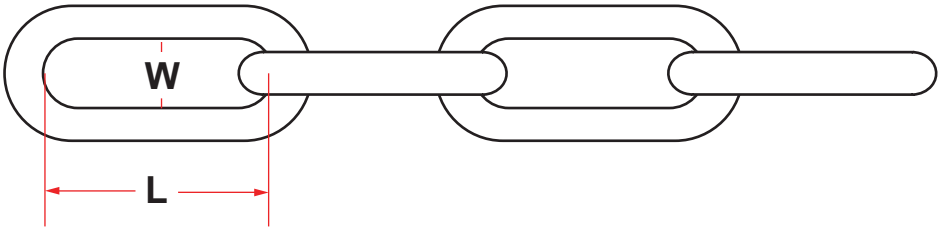
LONG LINK LASHING CHAIN GRADE-70

NOMINAL CHAIN SIZE INCHES	WEIGHT PER 100′ (LBS)	C (IN)	A (IN)	B (IN)	WORKING LOAD (LBS)	PROOF LOAD (LBS)	BREAKING STRENGTH (LBS)
1/2″	202	1/2″	3-1/8″	1″	10,000	20,000	39,000

FINISH: HOT DIPPED GALVANIZED

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LASHING CHAIN



DESCRIPTION	MATERIAL	INSIDE LENGTH DIAMETER "L" (MM)	INSIDE WIDTH DIAMETER "W" (MM)	BREAK LOAD (LBS.)
9 mm	C Mn Si	53.0	14.0	7,700
3/8"	Steel	2-1/16"	9/16"	
11 mm	C Mn Si	63.0	18.0	10,800
7/16"	Steel	2-7/16"	11/16"	
13 mm	C Mn Si	80.0	23.0	14,500
1/2"	Steel	3-1/8"	7/8"	
16 mm	C Mn Si	90.0	24.0	23,150
5/8"	Steel	3-3/4"	15/16"	
19 mm	C Mn Si	90.0	29.0	33,000
3/4"	Steel	3-3/4"	1-1/8"	
25 mm	C Mn Si	105.0	34.0	61,500
1"	Steel	4-1/8"	1-3/8"	

WEIGHT:

For 9mm chain = 0.94 lbs./ft.
For 11mm chain = 1.25 lbs./ft.
For 13mm chain = 1.98 lbs./ft.
For 16mm chain = 3.20 lbs./ft.
For 19mm chain = 4.46 lbs./ft.
For 25mm chain = 6.14 lbs./ft.

WELDLESS CHAIN

Double Loop Chain 

Single Loop Chain 

Single Jack Chain 

Special Well Chain 

Sash Chain 

Safety Chain Brass 

	TRADE SIZE	MATERIAL DIAMETER IN.	INSIDE LENGTH IN.	LINKS PER FT.	WEIGHT PER 10 FT LBS.	WORKING LOAD LIMIT LBS.
DOUBLE LOOP CHAIN	5	.062	.92	12	3-1/2	55
	4	.072	1.00	12	4-1/2	70
	3	.080	1.09	11	5-1/4	90
	2	.091	1.33	9	7-1/2	115
	1	.105	1.50	8	10	155
	1/0	.120	1.71	7	13	200
	2/0	.135	1.71	7	17	255
	3/0	.148	2.18	5.5	20	305
	4/0	.162	2.18	5.5	23	365
	8/0	.225	2.90	4.1	48	705
SINGLE LOOP CHAIN	2	.091	1.08	11.3	9	155
	1/0	.120	1.29	9.3	16	265
	2/0	.135	1.48	8.1	23	340
	3/0	.148	1.63	7.4	26	405
	4/0	.162	1.80	6.7	29	485
	5/0	.177	2.15	5.6	34	580
SINGLE JACK CHAIN	18	.047	.39	31	1-3/4	5
	16	.062	.48	25	2-3/4	11
	14	.080	.63	19	5	16
	12	.105	.75	16	8-1/2	29
	10	.135	.92	13	13	48
	8	.162	1.09	11	20	60
SPECIAL WELL CHAIN	1/0	.135	2.44	5.4	41	255
		Stock Thickness In.				
SASH CHAIN	8	.035	.57	21	4	75
	25	.042	.57	21	5	95
	30	.028	.57	21	5-1/2	80
	35	.035	.57	21	7	105
	40	.042	.55	22	8	150
	45	.050	.55	22	9-1/2	175
	50	.062	.62	19-1/2	13	225
SAFETY CHAIN BRASS	1/0	.018	.44	27	2	23
	1/0	.023	.50	24	2-1/4	35
	1	.028	.60	20	3	45

*CAUTION: Working Load Limits Should Not Be Exceeded.
All data approximate and subject to variation.

NOTE: The grades of chain on this page are not intended to use as sling or lifting chains.

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WELDED CHAIN

Coil Chain Twist Link 

Coil Chain Straight Link 

Machine Chain Twist Link 

Machine Chain Straight Link 

Cross Chain 

Side Chain 

Passing Link Chain 

	TRADE SIZE	4	3	2	1/0	2/0	3/0	4/0	5/0	6/0	7/0	8/0	9/0	11/0
	Fractional - In.	1/8	9/64	5/32	11/64	3/16	13/64	7/32	1/4	9/32	5/16	11/32	3/8	7/16
	Decimal - In.	0.120	0.135	0.148	0.177	0.192	0.207	0.218	0.250	0.281	0.312	0.344	0.375	0.437
COIL CHAIN TWIST LINK	Inside Length - In.	1-3/32	1-9/64	1-9/64	1-15/64	1-15/64		1-3/8	1-15/32					
	Inside Width - In.	15/64	15/64	17/64	19/64	21/64		11/32	3/8					
	Links per Ft.	11	10-1/2	10-1/2	9-3/4	9-3/4		8-1/4	8-1/8					
	Wt. Per 100 Ft. - Lbs.	10	13	16	24	29		36	48					
	*Wkg. Load Limit - Lbs.	195	240	295	415	495		635	835					
COIL CHAIN STRAIGHT LINK	Inside Length - In.	1-9/24	1-11/64	1-11/64	1-15/64	1-19/64		1-13/32	1-33/64					
	Inside Width - In.	15/64	9/32	9/32	5/16	11/32		3/8	7/16					
	Links per Ft.	10-1/2	10-1/4	10-1/4	9-3/4	9-1/4		8-1/2	7-7/8					
	Wt. Per 100 Ft. - Lbs.	10	15	15	23	27		35	46					
	*Wkg. Load Limit - Lbs.	205	310	310	440	520		670	880					
MACHINE CHAIN TWIST LINK	Inside Length - In.	33/64	37/64	37/64	11/16	23/32		55/64	1					
	Inside Width - In.	5/32	15/64	15/64	17/64	19/64		11/32	3/8					
	Links per Ft.	23-1/2	21	21	17-1/2	16-1/2		14	12					
	Wt. Per 100 Ft. - Lbs.	13	20	20	29	34		43	57					
	*Wkg. Load Limit - Lbs.	205	310	310	440	520		670	880					
MACHINE CHAIN STRAIGHT LINK	Inside Length - In.	35/64	19/32	19/32	47/64	25/32		29/32	1-1/16					
	Inside Width - In.	7/32	1/4	1/4	5/16	23/64		25/64	7/16					
	Links per Ft.	22	20	20	16-1/2	15-1/4		13-1/4	11-1/4					
	Wt. Per 100 Ft. - Lbs.	12	19	19	27	32		41	54					
	*Wkg. Load Limit - Lbs.	215	325	325	465	545		700	925					
CROSS CHAIN	Links per Ft.										11	9-3/4	9-1/2	7-1/2
	Wt. Per 100 Ft. - Lbs.										94	113	142	189
SIDE CHAIN	Inside Length - In.									1-13/16	1-59/64	1-15/16	1-15/16	2-3/16
	Inside Width - In.									31/64	17/32	17/32	17/32	21-32
	Links per Ft.									6-5/8	6-1/4	6-1/5	6-1/5	5-1/2
	Wt. Per 100 Ft. - Lbs.									58	72	88	112	153
PASSING LINK CHAIN	Inside Length - In.					7/8	7/8	7/8						
	Inside Width - In.					15/32	15/32	15/32						
	Links per Ft.					13-5/8	13-5/8	13-5/8						
	Wt. Per 100 Ft. - Lbs.					33	38	43						
	*Wkg. Load Limit - Lbs.					520	605	670						

NOTES

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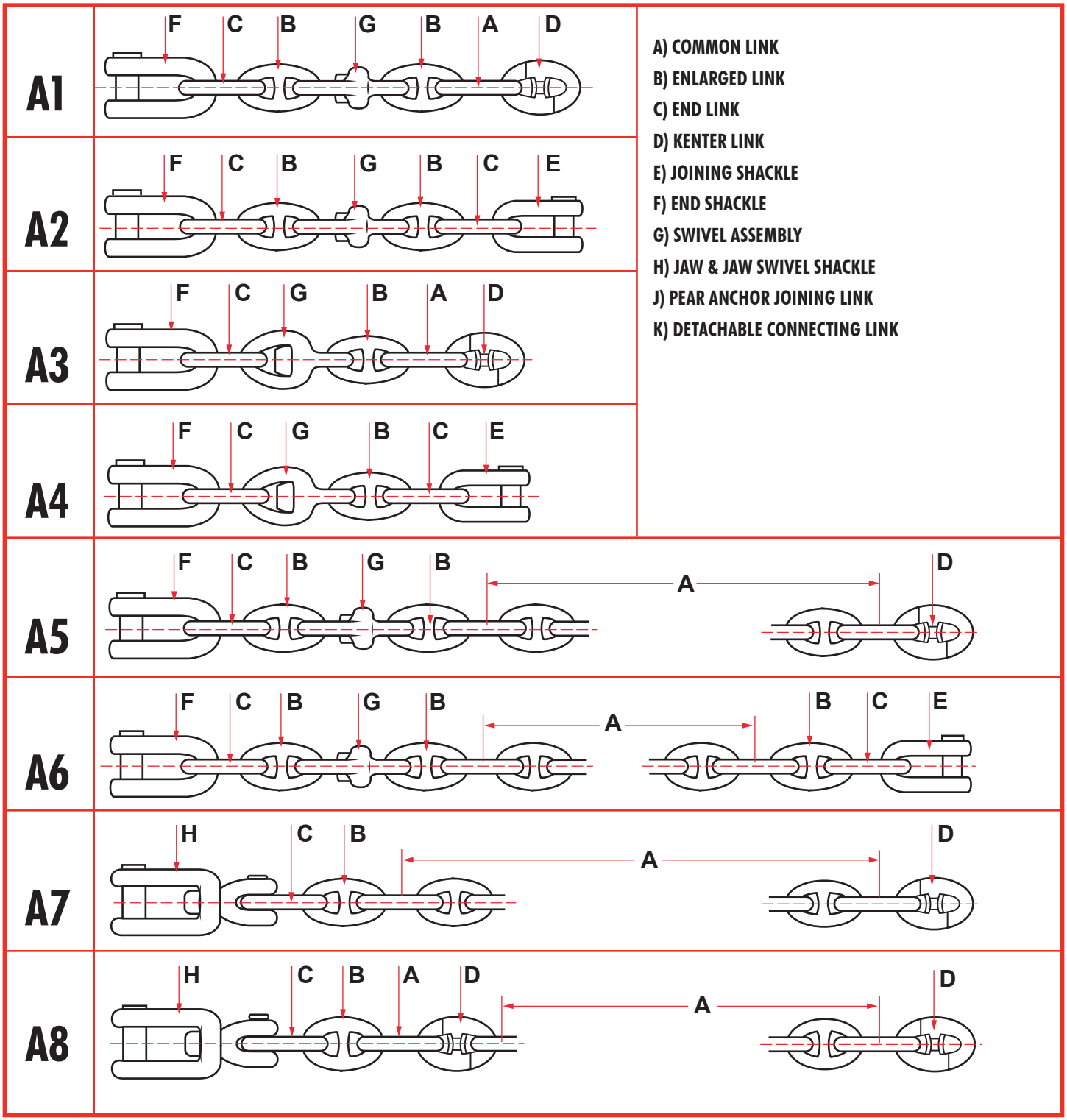
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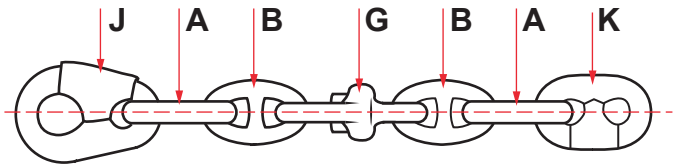
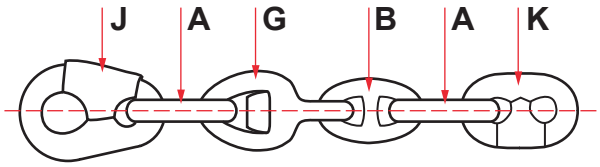
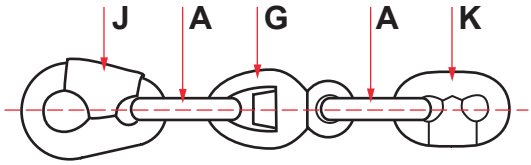
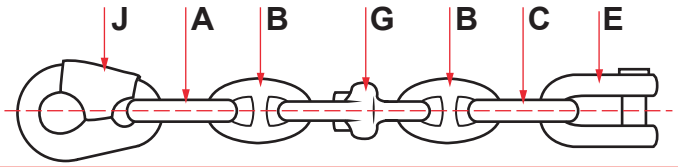
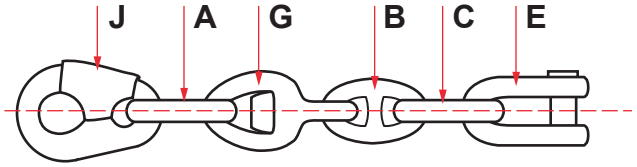
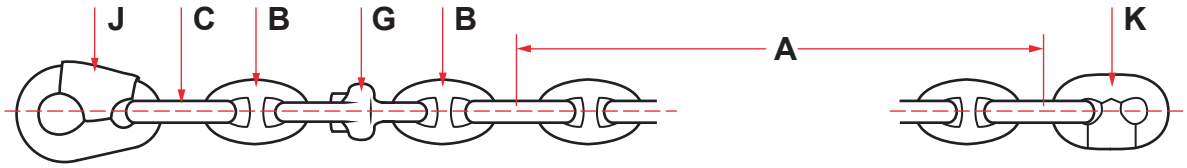
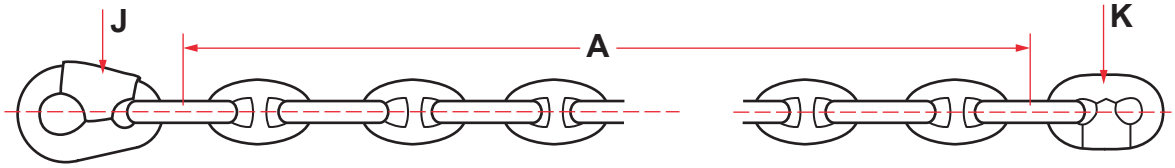
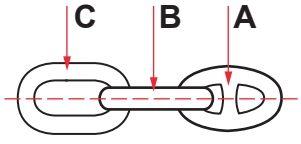
COUPLING TO THE ANCHOR



A) COMMON LINK
B) ENLARGED LINK
C) END LINK
D) KENTER LINK
E) JOINING SHACKLE
F) END SHACKLE
G) SWIVEL ASSEMBLY
H) JAW & JAW SWIVEL SHACKLE
J) PEAR ANCHOR JOINING LINK
K) DETACHABLE CONNECTING LINK

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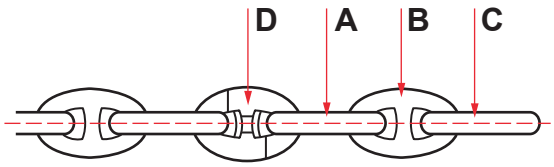
COUPLING TO THE ANCHOR

A9	
A10	
A11	
A12	
A13	
A14	
A15	
A16	 Normal adaptor piece

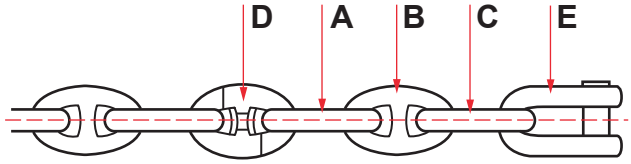
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COUPLING IN THE CHAIN LOCKER

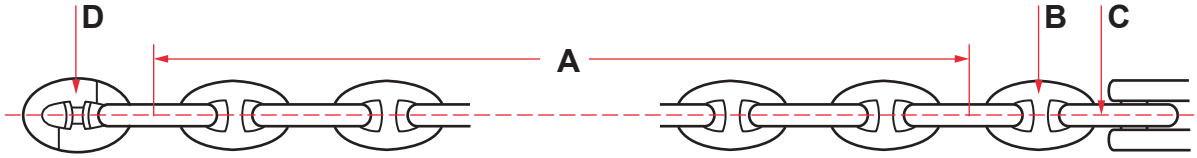
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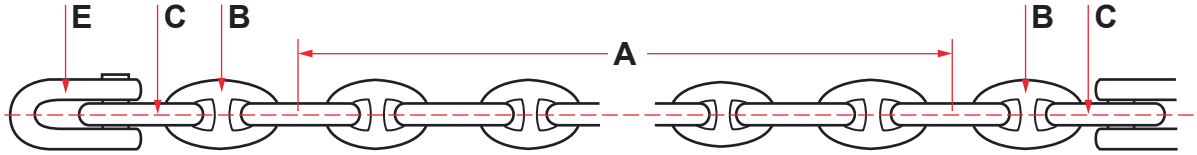
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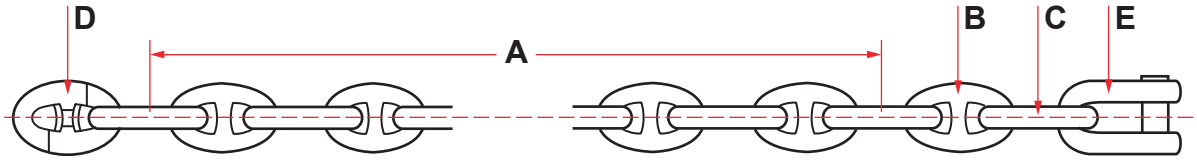
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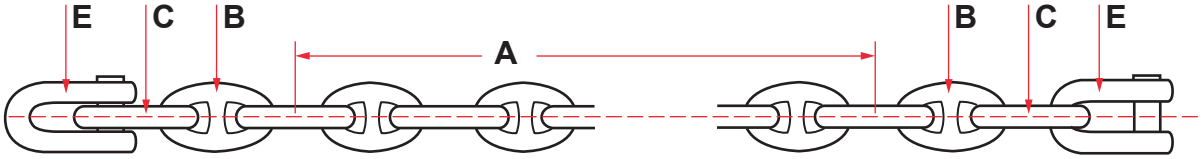
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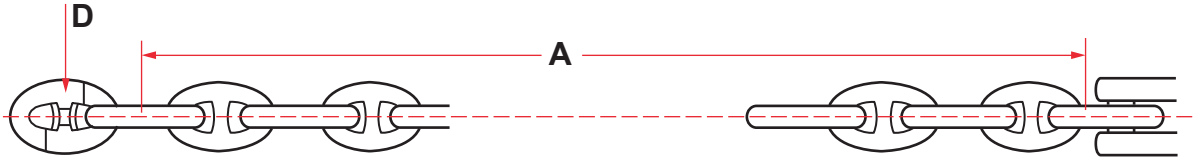
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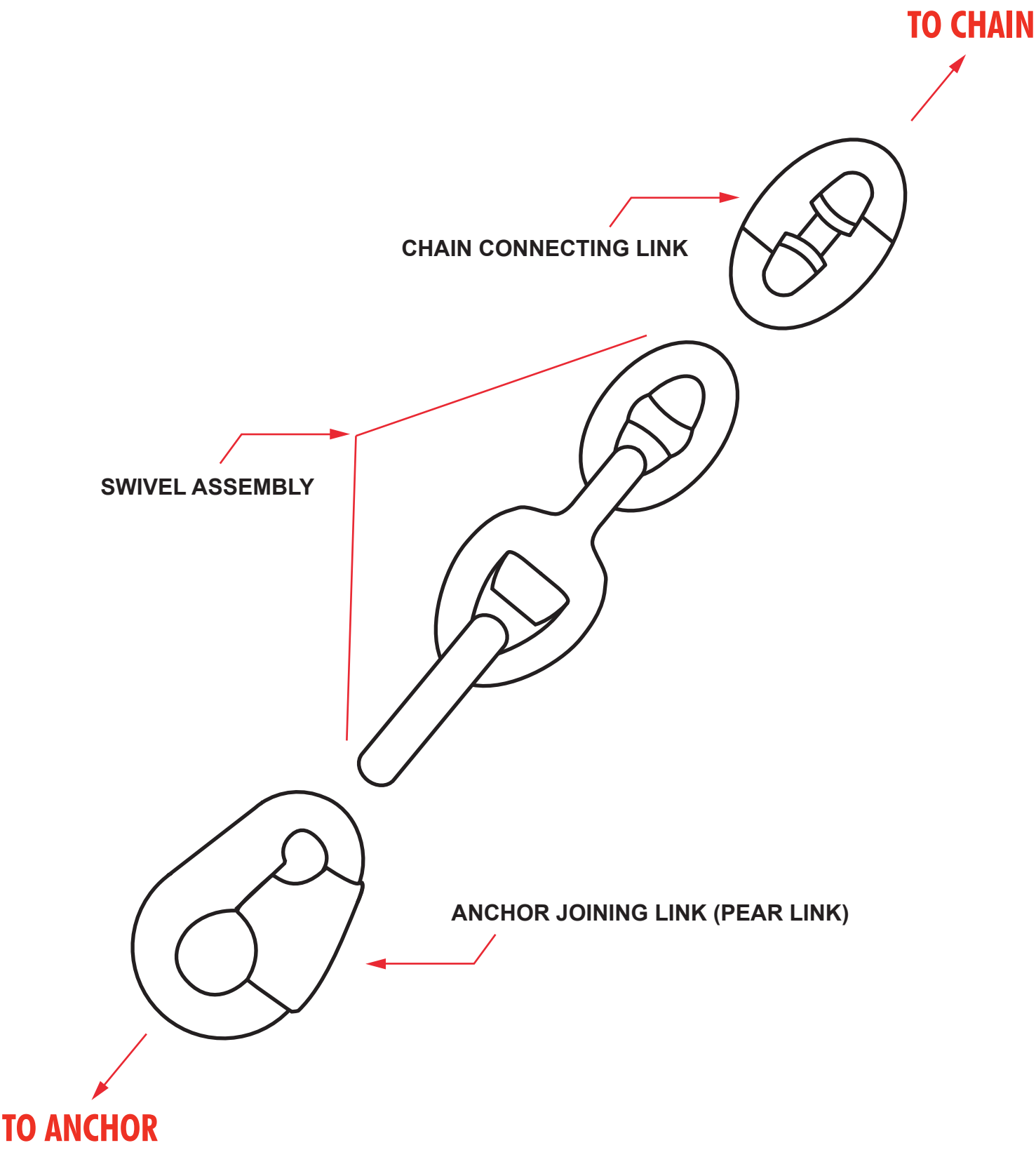
B7

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TO CHAIN
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SWIVEL ASSEMBLY
ANCHOR JOINING LINK (PEAR LINK)
TO ANCHOR



SHACKLES AND FITTINGS

APPROXIMATE WEIGHTS OF SHACKLES AND FITTINGS

CHAIN DIAMETER Ø		KENTER SHACKLE		JOINING SHACKLE		ANCHOR SHACKLE		END SHACKLE		SWIVEL		COMPLETE SWIVEL		SWIVEL SHACKLE	
INCHES	MM	KG	LBS.	KG	LBS.	KG	LBS.	KG	LBS.	KG	LBS.	KG	LBS.	KG	LBS.
3/4	19	1.1	2.4	1.7	3.7	2.5	5.5	1.6	3.5	2.8	6.2	6.4	14.1	9	19.8
13/16	20.5	1.3	2.9	2.2	4.9	3.1	6.9	1.9	4.2	3.5	7.8	7.8	17.2	11.3	24.9
7/8	22	1.6	3.5	2.7	5.9	3.8	8.4	2.4	5.3	4.4	9.7	9.8	21.6	13.9	30.8
15/16	24	2.1	4.6	3.5	7.7	5	11	3.1	6.8	5.6	12.3	12.8	28.3	18.1	39.9
1	25.5	2.6	5.7	4.2	9.3	6	13.3	3.8	8.4	6.8	15	15.4	33.9	20.9	46
1-1/16	27	3	6.6	5	11	7.1	16.7	4.5	9.9	8	17.9	18.2	40.2	25.8	56.8
1-1/8	28.5	3.5	7.7	5.8	12.8	8.4	18.6	5.2	11.5	9.4	20.7	21.9	48.4	30.6	67.6
1-3/16	30	4.2	9.2	6.8	15	9.8	21.6	6.1	13.5	11	24.3	24.9	54.9	35.4	78
1-1/4	31.5	4.8	10.6	7.8	17.2	11.3	25	7.1	15.7	12.7	28	28.4	62.5	40.9	90.3
1-5/16	33.5	5.8	12.8	9.4	20.7	13.6	30	8.5	18.8	15.3	33.7	34.7	76.6	49.2	108.6
1-3/8	35	6.5	14.3	10.8	23.8	15.5	34.2	9.8	21.6	17.5	38.6	39.6	87.4	56.2	123.8
1-7/16	36.5	7.5	16.5	12.2	26.9	17.6	38.8	11	24.3	19.8	43.7	44.8	98.8	63.7	140.4
1-1/2	38	8.4	18.5	13.8	30.4	19.8	43.7	12.4	27.4	22.5	49.6	50.7	111.8	71.9	158.5
1-9/16	39.5	9.5	21	15.5	34.2	22.3	49.2	14	30.9	25	55.2	56.5	124.7	80.7	178
1-5/8	41.5	11	24.2	17.9	39.5	25.8	56.9	16.2	35.7	29	64	65.4	144	93.6	206.4
1-11/16	43	12.3	27.1	20	44.1	28.7	63.3	18	39.7	32.5	71.6	72.3	159.4	104	230
1-3/4	44.5	13.5	29.8	22.1	48.7	31.9	70.3	20	44.1	36	79.4	81.4	179.5	115	254
1-13/16	46	15	33	24.4	53.8	35.2	77.6	22.1	48.7	39.5	87.1	89.2	196.6	128	281
1-7/8	47.5	16.5	36.4	26.9	59.3	38.8	85.5	24.3	53.6	43.5	117.9	99	218.2	140	309
1-15/16	49	18	39.7	29.5	65	42.5	93.7	26.7	58.9	48	105.8	109	240	154	340
2	51	20.5	45.2	33.3	73.4	48	105.8	30	66.1	54	119	122	270	174	383
2-1/16	52.5	22.3	49.2	36.3	80	52.3	115.3	32.8	72.3	59	130	134	295	190	418
2-1/8	54	24.2	53.4	39.5	87.5	57	125.7	35.7	78.7	64	141	147	324	206	455
2-3/16	55.5	26.3	58	43	94.8	61.8	136.2	38.8	85.6	69.5	153.2	158	349	224	494
2-1/4	57	28.5	62.8	46.5	102.5	67	144.7	42	92.6	75.5	166.4	173	381	243	535
2-5/16	58.5	30.8	67.9	50.3	110.9	72.4	159.6	45	99.2	81.5	179.7	185	408	262	578
2-3/8	60.5	34	75	55.6	122.6	80.1	176.6	50.2	110.7	90	198.4	204	450	290	640
2-7/16	62	36.7	80.9	59.8	131.8	86.2	190	54	119	97	213.8	220	485	312	688
2-1/2	63.5	39.4	86.8	64.3	141.8	92.6	204.2	58	127.9	104.5	230.4	237	523	335	739
2-9/16	65	42.3	93.3	69	152.1	99.3	219	62.4	137.6	112	247	254	560	360	793
2-5/8	66.5	45.3	99.9	73.8	162.7	106.4	234.6	66.7	147	120	265	272	600	385	849
2-11/16	68	48.3	106.5	78.9	174	113.6	250.5	71.3	157	128	282	292	644	412	908
2-3/4	69.5	51.6	113.8	84.3	185.8	121.4	267.7	76.1	167.7	137	302	311	685	440	969
2-13/16	71.5	56.2	123.9	91.8	202.4	132.2	291.5	82.9	182	149	328	338	745	479	1056
2-7/8	73	59.8	131.8	97.6	215.2	140.7	310	88.2	194	159	351	361	795	510	1123
2-15/16	74.5	63.6	140.2	103.8	229	149	328	93.8	207	169	373	383	845	542	1194

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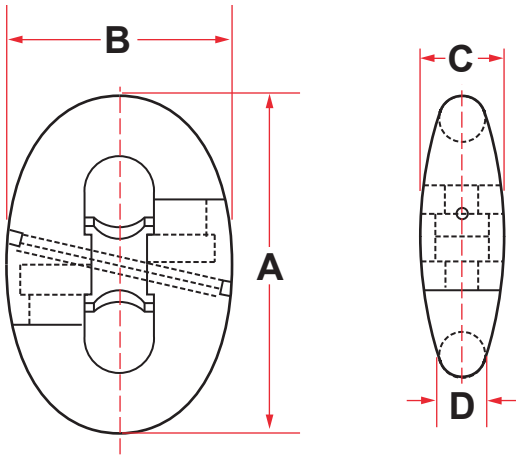
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CHAIN DIAMETER Ø		KENTER SHACKLE		JOINING SHACKLE		ANCHOR SHACKLE		END SHACKLE		SWIVEL		COMPLETE SWIVEL		SWIVEL SHACKLE	
INCHES	MM.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.
3	76	67.5	148.8	110	243	159	351	100	220	179	395	406	895	575	1268
3-1/16	77.5	71.6	157.8	117	258	168	370	106	234	190	419	431	950	610	1344
3-1/8	79.5	77.3	170.4	126	278	182	401	114	251	205	452	465	1025	658	1451
3-3/16	81	81.8	180.3	133	293	192	423	121	267	217	478	492	1085	696	1535
3-1/4	82.5	66.4	190.5	141	311	203	448	128	282	229	505	520	1146	736	1622
3-5/16	84	91.2	201	149	328	214	472	135	298	242	534	548	1208	776	1712
3-3/8	86	97.5	215	159	351	230	507	144	317	259	571	588	1296	833	1837
3-7/16	87.5	103	227	168	370	242	534	152	335	273	602	619	1366	878	1935
3-1/2	89	108	238	177	390	255	562	160	353	287	633	651	1438	924	2036
3-9/16	90.5	114	251	186	410	268	591	168	370	302	666	685	1511	971	2141
3-5/8	92	119	262	195	430	281	619	177	390	317	699	719	1586	1020	2249
3-11/16	93.5	125	276	205	452	295	650	185	408	333	734	756	1666	1071	2361
3-3/4	95	131	289	215	474	310	683	195	430	349	769	792	1746	1123	2476
3-13/16	97	140	309	229	505	330	728	207	456	372	820	844	1861	1196	2636
3-7/8	98.5	147	324	240	529	3415	761	217	478	389	858	883	1946	1252	2760
3-15/16	100	154	340	251	553	361	796	227	500	407	897	923	2036	1310	2888
4	101.5	161	355	262	578	378	833	237	522	426	939	967	2131	1370	3020
4-1/8	105	179	395	291	642	418	922	263	580	471	1038	1069	2356	1516	3343
4-1/4	108	194	428	316	697	455	1003	286	631	513	1131	1164	2566	1650	3638
4-3/8	111	211	465	343	756	494	1089	311	686	557	1228	1264	2786	1792	3950
4-1/2	114.5	231	509	377	831	544	1199	341	752	611	1347	1386	3056	1966	4335
4-5/8	117.5	250	551	407	897	585	1292	369	813	660	1455	1498	3301	2125	4685
4-3/4	120.5	270	595	439	968	632	1393	397	875	712	1570	1516	3562	2292	5053
4-7/8	124	294	648	479	1056	688	1517	433	955	776	1711	1761	3882	2498	5506
5	127	316	697	514	1133	739	1629	465	1025	834	1839	1892	4172	2793	5916
5-1/8	130	339	745	551	1215	793	1748	499	1100	894	1971	2028	4472	2878	6345
5-1/4	133.5	367	809	597	1316	859	1894	540	1190	969	2135	2199	4847	3117	6871
5-3/8	136.5	392	864	638	1407	918	2024	577	1272	1035	2282	2348	5177	3332	7345
5-1/2	140	423	933	689	1519	991	2185	623	1373	1117	2463	2534	5587	3595	7925
5-5/8	143	451	994	734	1618	1056	2328	664	1464	1190	2623	2700	5953	3831	8445
5-3/4	146	480	1058	781	1722	1123	2476	706	1556	1267	2793	2875	6338	4077	8988
5-7/8	149.5	515	1135	839	1850	1206	2659	758	1671	1360	2998	3086	6803	4377	9650
6	152.5	546	1204	890	1962	1280	2822	805	1775	1443	3181	3274	7218	4646	10246
6-1/8	155.5	579	1276	944	2081	1357	2992	854	1883	1530	3373	3472	7654	4926	10859
6-1/4	159	619	1365	1009	2224	1451	3199	912	2011	1636	3607	3712	8183	5266	11609
6-3/8	162	655	1444	1067	2352	1535	3384	965	2128	1730	3814	3925	8653	5570	12278
6-1/2	165	692	1526	1128	2487	1622	3576	1020	2249	1828	4030	4148	9145	5885	12973
6-5/8	168	730	1609	1190	2623	1712	3774	1076	2372	1930	4255	4379	9654	6212	13694
6-3/4	171.5	777	1713	1265	2791	1821	4015	1145	2524	2053	4526	4658	10269	6608	14568
6-7/8	174.5	818	1803	1334	2803	1918	4228	1206	2659	2163	4769	4908	10820	6961	15346
7	178	869	1916	1416	2916	2036	4489	1280	2821	2295	5060	5207	11479	7388	16288

KENTER JOINING SHACKLE





GRADE 3

NOMINAL DIAMETER D		A (MM)	B (MM)	C (MM)	WEIGHT		PROOF TEST KGF	BREAK TEST KGF
MM	INCHES				KG.	LBS.		
16	5/8	96	67	24	0.57	1.25	15100	21600
19	3/4	120	84	30.5	1.09	2.40	21600	30900
22	7/8	134	93	33	1.75	3.8	29300	41700
24	15/16	144	101	36	2.1	4.6	34000	48500
25	1	152	107	38	2.5	4.8	38000	54300
29	1-1/18	174	122	44	4.8	10.5	49200	70400
32	1-1/4	192	134	49	5.0	11.0	59500	84900
34	1-3/8	210	146	54	6.5	14.3	70400	100900
36	1-7/16	216	151	55	8.0	17.6	76700	109400
38	1-1/2	228	160	58	9.0	19.8	83300	118900
42	1-5/8	252	176	64	12.0	26.5	102000	143400
44	1-3/4	264	185	67	14.0	30.9	111900	159900
46	1-13/16	276	193	70	15.0	33.1	119800	171100
48	1-7/8	288	202	73	18.0	39.7	130000	185100
51	2	306	214	78	21.0	46.3	145400	207700
54	2-1/8	324	227	82	24.0	52.9	162000	231500
56	2-3/16	336	235	85	26.0	57.3	174000	248000
58	2-1/4	348	244	88	31.0	68.3	185400	265000
60	2-3/8	360	252	91	34.0	75.0	199600	285200
62	2-7/16	372	260	94	36.0	79.4	210000	300000
64	2-1/2	384	269	97	38.0	83.8	223000	319000
67	2-5/8	402	281	102	41.0	90.4	242900	347000
70	2-3/4	420	294	106	52.4	115.7	263500	376400
73	2-7/8	438	307	111	60.0	132.3	285000	407000
76	3	456	319	116	70.0	154.3	308200	440200
78	3-1/16	468	328	119	71.0	156.5	322000	459000
84	3-5/16	504	353	128	92.0	202.8	369300	527600
87	3-7/16	522	365	132	103.0	227.1	395100	564300
89	3-1/2	534	374	135	113.0	249.1	409000	584300
92	3-5/8	552	386	140	115.0	253.5	434800	621200
95	3-3/4	570	399	144	132.0	291.0	462300	660100
102	4	612	428	155	163.0	359.4	522100	746000
108	4-1/4	648	454	164	196.0	432.1	577000	825000
111	4-3/8	666	466	169	213.0	469.6	607000	867200
114	4-1/2	684	479	173	233.0	513.7	637300	910900

To convert to lbs., multiply by 2.2046

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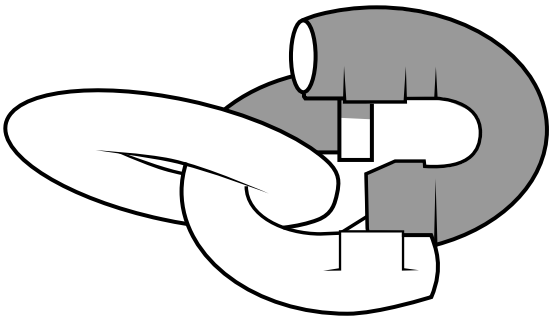
Anchor MARINE & INDUSTRIAL SUPPLY, INC.

KENTER JOINING LINK ASSEMBLY

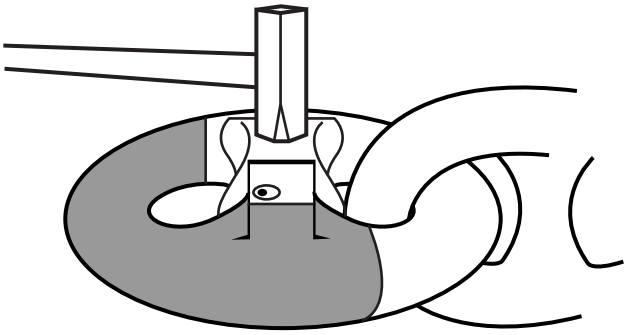
The Kenter-type joining link contains three parts plus taper pin and lead plug. The two main halves have numbers to be matched and arrows to be lined up for ease of assembly with the third piece (stud). The two main parts are attached to the ends of the chain in a vertical position and then fitted together (1), and the stud is then slid into place (2), which locks the link. The stud is secured by hammering a tapered pin into the hole drilled diagonally (3) through all three parts of the joining link. This hole is tapered, and when the pin is driven home, a small conical recess (called the "dovetail chamber") is left clear above its head. A lead pellet is hammered broad end first into this chamber (4) so as to fill it completely and thereby keep the pin in place. Precaution must be used to prevent flat, small pieces of lead from flying off the joining link into the face or eyes.

Prior to assembly, the internal mating surfaces should be coated with molybdenum disulphide grease (MIL-G-23529) or an equivalent lithium based grease. When assembling and before inserting the new lead, any remaining lead must be reamed out.

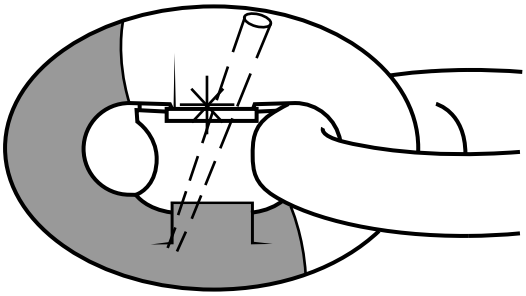
When dissassembling, the locking pin is driven out with a "drift." To part the link, a top swage (shaped to the curvature of the link) must always be used between the hammer and link so as to avoid damaging the machined surfaces.



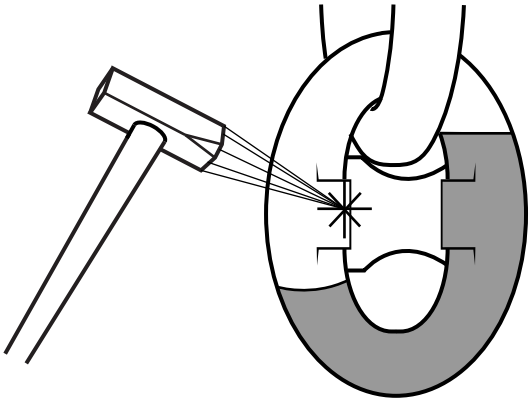
(1) After inserting the first half of the link through chain, the other link is inserted in the other and driven together.



(2) The center stud is inserted.



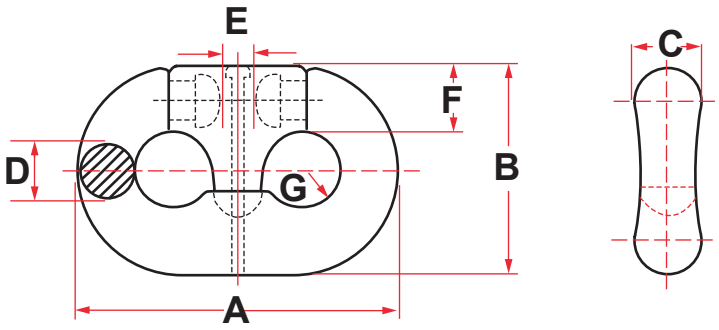
(3) When the center chock is in correct position the taper pin can with out a hammer be inserted as shown on the figure which also shows the center chock in correct postion.



(4) The taper pin is driven in and is secured by the lead pellet which is inserted into place with a hammer.

DETACHABLE CHAIN CONNECTING LINK





GRADE 3

CHAIN SIZE		A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)	G (MM)	WEIGHT		PROOF TEST	BREAK TEST
MM	INCHES								KG.	LBS.	KGF	KGF
13 - 16	1/2 - 5/8	95	63	22	16	19	21	12	0.5	1.0	14651	23668
19	3/4	114	74	24	19	22	24	13	1.0	2.0	21771	34020
21 - 22	13/16 - 7/8	133	86	28	22	25	28	16	1.5	3.5	29030	44452
24 - 25	15/16 - 1	152	102	35	25	29	31	17	2.3	5.1	38000	54300
27 - 29	1-1/16 - 1-1/8	172	114	40	29	32	35	19	3.3	7.3	49200	70400
30 - 32	1-3/16 - 1-1/4	191	127	44	32	36	39	21	4.6	10.1	59500	84900
33 - 35	1-5/16 - 1-3/8	210	140	48	35	40	43	23	6.2	13.7	70700	101300
36 - 38	1-7/16 - 1-1/2	229	152	53	38	43	47	26	7.9	17.4	83300	118900
40 - 42	1-9/16 - 1-5/8	248	165	57	42	47	50	28	10.0	22.0	102000	143400
43 - 44	1-11/16 - 1-3/4	267	178	62	44	50	56	30	12.5	27.6	111900	159900
46 - 48	1-13/16 - 1-7/8	286	191	64	48	55	60	32	14.5	32.0	130000	185100
50 - 51	1-15/16 - 2	305	197	64	51	59	64	34	16.3	35.9	145400	207700
52 - 54	2-1/16 - 2-1/8	324	209	67	54	63	68	36	20.0	44.1	162000	231500
56 - 58	2-3/16 - 2-1/4	343	222	71	58	66	71	38	23.6	52.0	185400	265000
59 - 60	2-5/16 - 2-3/8	364	235	78	60	70	76	41	28.0	61.7	199600	285200
62 - 64	2-7/16 - 2-1/2	381	246	79	64	74	79	43	32.2	71.0	223000	319000
66 - 67	2-9/16 - 2-5/8	400	259	83	67	77	83	45	37.0	81.6	242900	347000
68 - 70	2-11/16 - 2-3/4	419	271	87	70	81	87	47	45.0	99.2	263500	376400
71 - 73	2-13/16 - 2-7/8	438	283	91	73	85	91	49	49.0	108.0	285000	407000
75 - 76	2-15/16 - 3	457	296	95	76	88	95	51	55.0	121.0	308200	440200
78 - 79	3-1/16 - 3-1/8	476	308	99	79	92	99	53	63.0	139.0	332100	474500
81 - 83	3-3/16 - 3-1/4	495	320	103	83	96	103	55	73.0	161.0	360400	514800
84 - 86	3-5/16 - 3-3/8	514	333	107	86	99	107	57	80.0	176.0	384400	549100
87 - 89	3-7/16 - 3-1/2	533	345	111	89	103	111	60	93.0	205.0	409000	584300
90 - 92	3-9/16 - 3-5/8	553	357	115	92	107	115	62	97.6	215.0	434800	621200
94 - 95	3-11/16 - 3-3/4	572	370	119	95	111	119	64	116.2	256.0	462300	660100
97 - 98	3-13/16 - 3-7/8	591	382	128	98	114	123	66	123.0	271.0	490000	700000
100 - 102	3-15/16 - 4	610	394	132	102	118	127	68	131.0	289.0	522100	746000
105	4-1/8	629	419	147	105	127	132	70	175.0	386.0	550000	785000
111	4-3/8	667	456	167	111	138	140	75	208.0	459.0	607000	867200
114	4-1/2	686	480	190	114	147	144	77	227.0	500.0	637300	910900

To convert to lbs., multiply by 2.2046

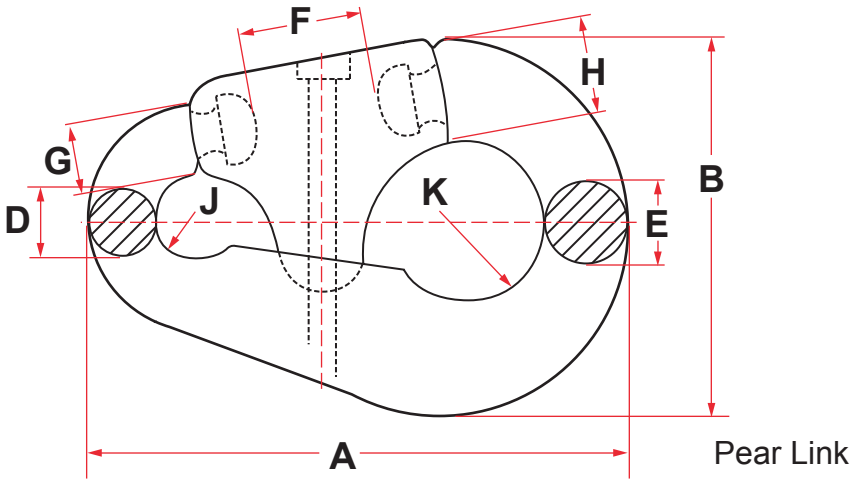
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PEAR SHAPE ANCHOR JOINING LINK





Pear Link

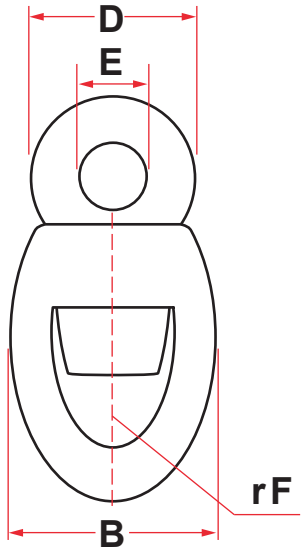
GRADE 3

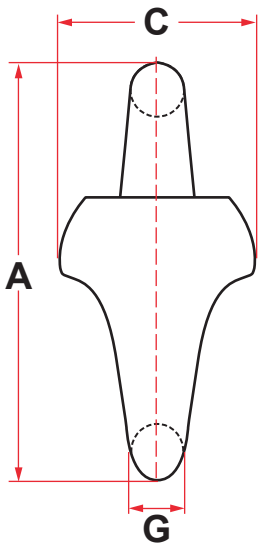
N°	CHAIN SIZE		A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)	G (MM)	H (MM)	J (MM)	K (MM)	WEIGHT		PROOF TEST KGF	BREAK TEST KGF
	MM	INCHES											KG	LBS		
2	19-24	3/4 - 15/16	194	132	38	24	32	57	24	35	17	30	3.6	8	34000	48500
3	25-30	1 - 1-3/16	238	167	46	30	38	66	33	45	19	35	6.5	14	53000	75700
4	32-40	1-1/4 - 1-9/16	299	206	59	40	48	83	40x45	56	26	43	14.5	32	91400	131000
5	42-51	1-5/8 - 2	378	260	76	51	64	100	51x60	74	32	52	27.0	60	145400	207700
6	52-60	2-1/16 - 2-3/8	454	313	92	60	76	121	62x73	88	37	64	49.0	107	199600	285200
7	62-79	2-7/16 - 3-1/8	562	376	121	79	95	149	86x79	111	48	76	92.0	203	332100	474500
8	81-92	3-3/16 - 3-5/8	654	419	133	92	124	149	111x102	130x133	54	79	149.0	328	434800	621200
9	94-95	3-11/6 - 3-3/4	692	435	146	98	130	159	124x137	141	57	83	236.0	520	462300	660100
10	97-102	3-13/16 - 4	889	572	191	121	165	191	130x148	181	73	108	386.0	850	522100	746000
11	103-108	4-1/16 - 4-1/4	940	610	203	127	175	203	156	200	76	111	418.0	920	577000	825000
12	110-114	4-5/16 - 4-1/2	991	648	216	133	184	216	165x167	210x200	105	114	459.0	1010	637300	910900

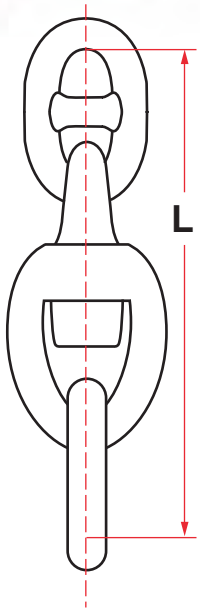
To convert to lbs., multiply by 2.2046

SWIVEL ASSEMBLY









GRADE 3

CHAIN SIZE		A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)	G (MM)	L (MM)	WEIGHT (*)		PROOF TEST KGF	BREAK TEST KGF
MM	INCHES									KG	LBS		
13-16	1/2 - 5/8	137	62	62	20	52	12	16	240	1.35	3	15100	21600
17-19	11/16 - 3/4	173	76	76	27	66	19	19	290	2.25	5	21600	30900
21-22	13/16 - 7/8	198	90	90	30	75	22	22	335	3.20	7	29300	41700
24-29	15/16 - 1-1/8	258	102	102	44	94	25	25	445	6.5	14	49200	70400
30-35	1-3/16 - 1-3/8	290	160	124	116	46	25	36	499	21.0	46.3	70700	101300
36-42	1-7/16 - 1-5/8	373	202	146	145	63	32	46	622	39.5	87.1	102000	143400
43-48	1-11/16 - 1-7/8	430	230	165	183	73	36	50	709	66.0	145.5	130000	185100
49-58	1-15/16 - 2-1/4	516	278	200	212	84	39	65	851	104.0	229.3	185400	265000
59-67	2-5/16 - 2-5/8	575	307	230	235	93	46	68	972	142.0	313.1	242900	347000
68-73	2-11/16 - 2-7/8	650	345	260	256	102	50	79	1078	208.0	458.6	285000	407000
75-79	2-15/16 - 3-1/8	757	370	325	281	109	52	94	1209	276.0	608.5	332100	474500
81-86	3-3/16 - 3-3/8	760	420	372	310	122	57	95	1260	336.0	740.8	384400	549100
87-92	3-7/16 - 3-5/8	800	430	390	320	130	60	98	1343	376.0	828.9	434800	621200
94-98	3-11/16 - 3-7/8	882	460	433	354	142	66	118	1442	557.0	1228.0	490000	700000
100-102	3-15/16 - 4	918	480	448	368	148	69	122	1502	612.0	1349.0	522100	746000
105-111	4-1/8 - 4-3/8	1000	530	478	400	160	74	133	1635	797.0	1757.0	607000	867200
114	4-1/2	1026	542	490	417	165	76	137	1675	871.0	1920.0	637300	910900

Weight of assembly (swivel and 2 common links).

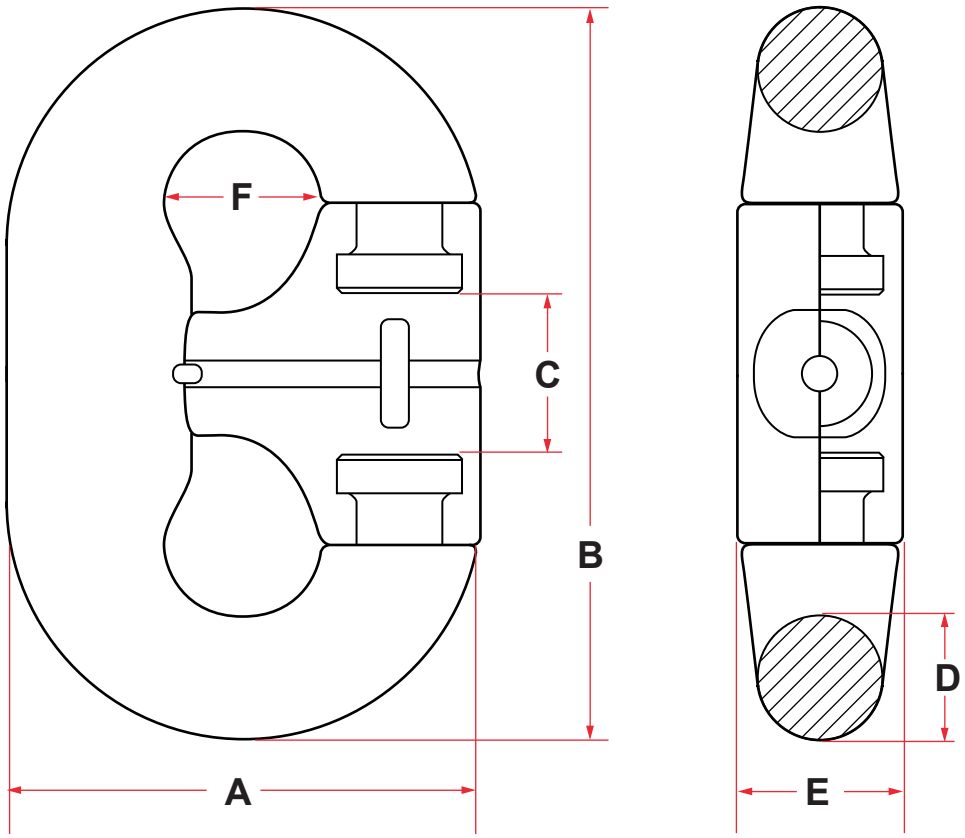
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C-TYPE CHAIN CONNECTING LINK
GRADE R4

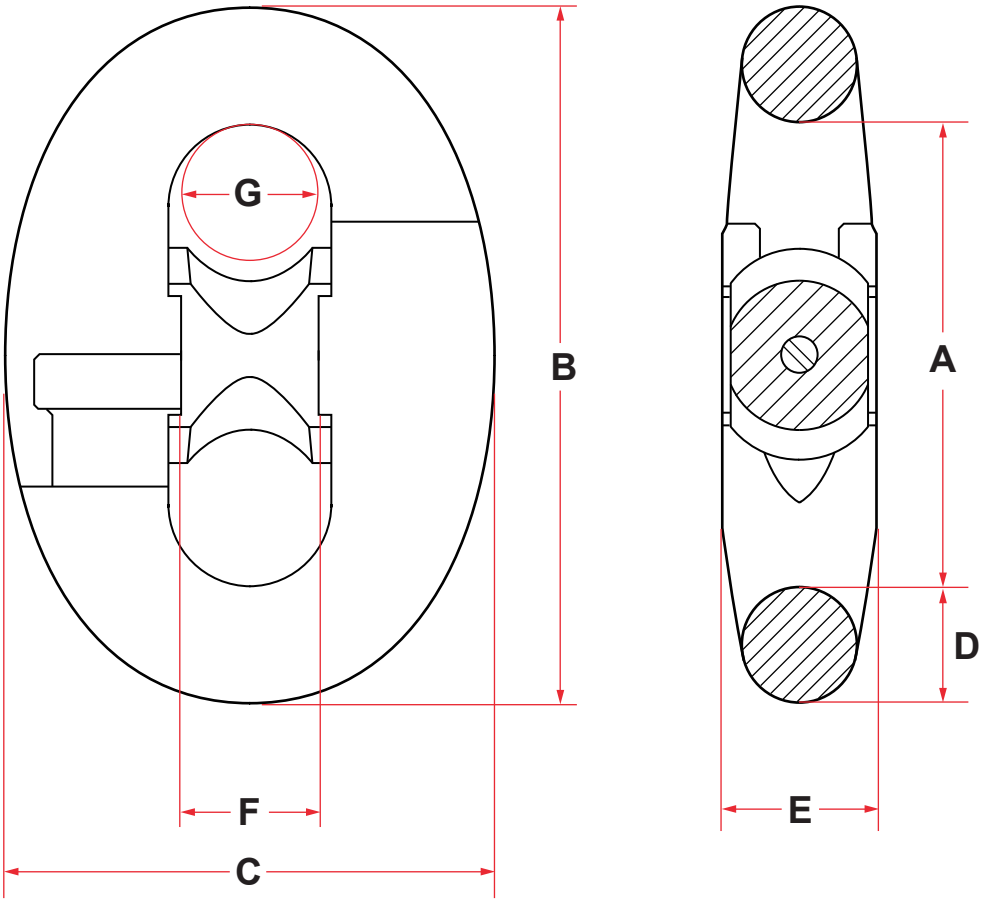


DATA SHEETS	
NUMBER	SIZE
A	4 D
B	6 D
C	1,3 D
D	Ø D
E	1,4 D
F	1,1 D

CHAIN SIZE	NOMINAL DIA	GRADE	PL (KN)	BL (KN)	DIMENSIONS (MM)						WEIGHT (KG)
					A	B	C	D	E	F	
52-54	54	R4	2500	3171	216	324	70	54	76	59	20
62-64	64	R4	3440	4364	256	384	83	64	89	70	30
68-70	70	R4	4064	5156	280	420	91	70	98	77	46
74-76	76	R4	4731	6001	304	456	99	76	106	84	62
83-86	83	R4	5559	7052	344	516	111	86	120	95	81
87-89	89	R4	6310	8004	356	534	116	89	125	98	93
95-96	95	R4	7231	9172	384	576	125	96	134	106	116

All measurements may vary slightly due to production but shall be within allowable tolerances to class society specifications.

KENTER JOINING SHACKLE GRADE R4



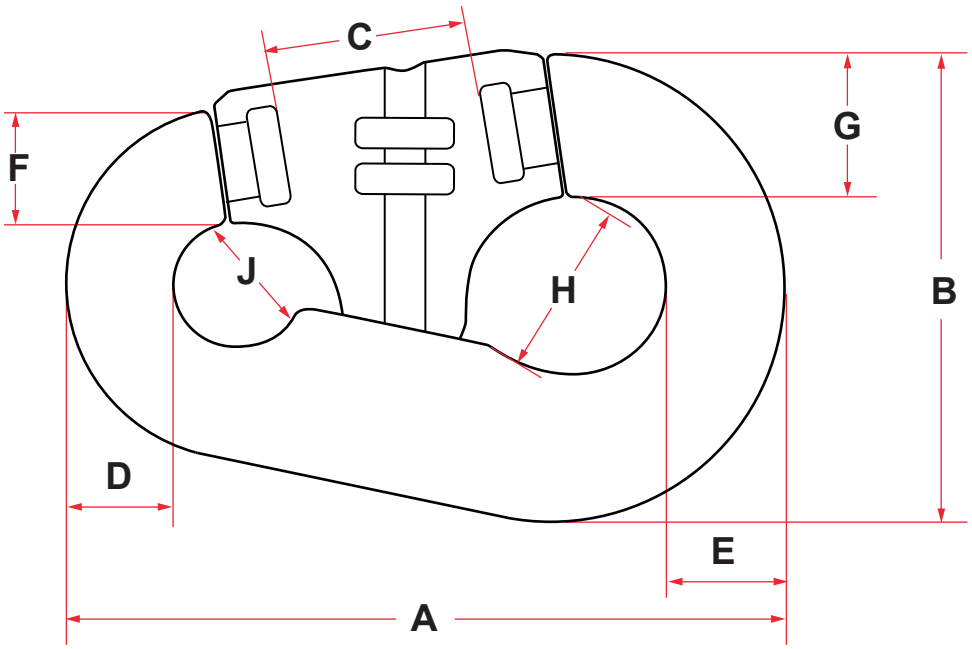
DATA SHEETS	
NUMBER	SIZE
A	4 D
B	6 D
C	4,18 D
D	Ø D
E	1,52 D
F	1,25 D
G	1,2 D

CHAIN SIZE	GRADE	PL (KN)	BL (KN)	DIMENSIONS (MM)							WEIGHT (KG)
				A	B	C	D	E	F	G	
70	R4	4064	5156	280	420	293	70	106	87	77	52
76	R4	4731	6001	304	456	318	76	115	95	84	65
84	R4	5682	7208	336	504	351	84	128	105	92	88
89	R4	6310	8004	356	534	372	89	135	111	98	101
100	R4	7776	9864	400	600	418	100	152	125	110	150
105	R4	8478	10754	420	630	439	105	160	131	115	168
114	R4	9791	12420	456	681	134	114	173	142	125	200

All measurements may vary slightly due to production but shall be within allowable tolerances to class society specifications.

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PEAR SHAPE ANCHOR JOINING LINKS GRADE ORQ & R4

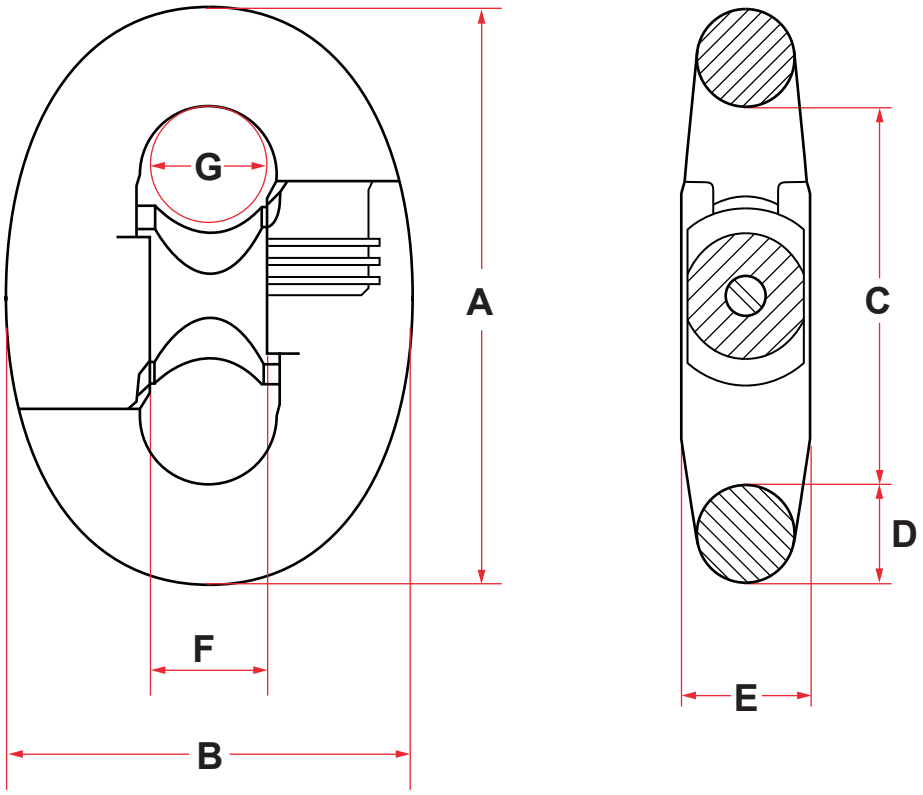


NO.	CHAIN SIZE (MM)	DIMENSIONS (MM)								
		A	B	C	D	E	F	G	H	J
4	32 - 40	298	207	89	41	50	45	60	83	52
5	42 - 51	380	264	100	52	65	60	84	109	65
6	52 - 60	480	337	125	66	83	81	103	142	86
7	62 - 79	570	370	155	85	96	92	113	140	98
8	81 - 92	655	430	162	99	129	119	131	162	115
10	97 - 102	900	580	192	127	168	151	181	207	150

NO	GRADE R4		GRADE ORQ	
	PROOF LOAD (KN)	BREAK LOAD (KN)	PROOF LOAD (KN)	BREAK LOAD (KN)
4	1410	1789	914	1377
5	2243	2845	1454	2191
6	3048	3867	1976	2978
7	5079	6443	3292	4962
8	6699	8497	4342	6544
9	7096	9001	4599	6932
10	8054	10217	5220	7868

To convert to lbs., multiply by 225

TRIDENT THIN KENTER (SLIMLINE) GRADE R4



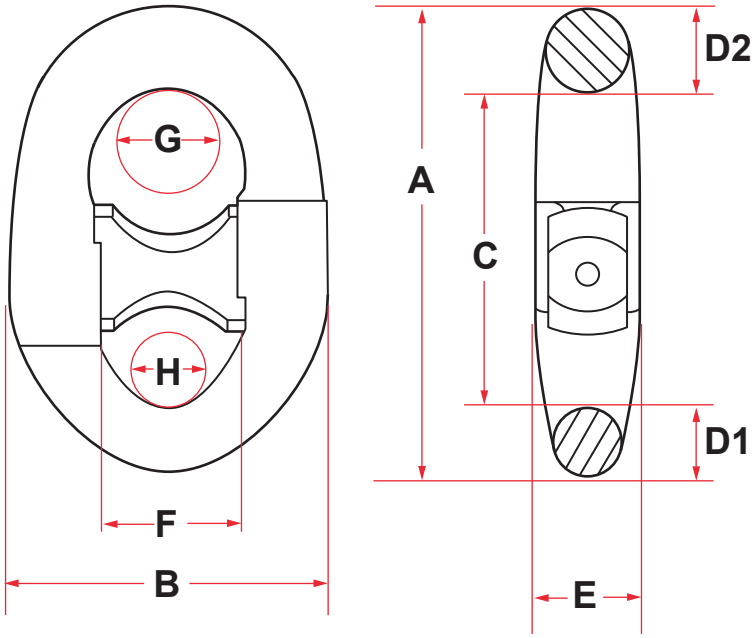
DATA SHEETS	
NUMBER	SIZE
A	6 D
B	4,18 D
C	4 D
D	Ø D
E	1,3 D
F	1,14 D
G	1,1 D

CHAIN SIZE	GRADE	PL (KN)	BL (KN)	DIMENSIONS (MM)							WEIGHT (KG)
				A	B	C	D	E	F	G	
70	R4	4064	5156	420	293	280	70	91	80	77	52
76	R4	4731	6001	456	318	304	76	99	87	84	65
84	R4	5682	7208	504	351	336	84	109	96	92	88
89	R4	6310	8004	534	372	356	89	111	101	98	101
95	R4	7096	9001	570	379	380	95	124	108	104	150
102	R4	8054	10217	612	426	408	102	133	116	112	172
114	R4	9791	12420	684	476	456	114	148	130	125	190

All measurements may vary slightly due to production but shall be within allowable tolerances to class society specifications.

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ANCHOR SHACKLE
TRIDENT + RAPTOR



DATA SHEETS	
NUMBER	SIZE
A	8,13 D
B	5,4 D
C	5,4 D
D1	1,1 D
D2	1,5 D
E	1,75 D
F	2,26 D
G	1,9 D
H	1,55 D

TRIDENT R4

CHAIN SIZE	GRADE	PL (KN)	BL (KN)	DIMENSIONS (MM)									WEIGHT (KG)
				A	B	C	D1	D2	E	F	G	H	
76	R4	4731	6001	618	410	410	84	114	133	172	144	118	120
84	R4	5682	7208	683	454	454	92	126	147	190	160	130	150
89	R4	6310	8004	724	481	481	98	133	156	201	169	138	175
95	R4	7096	9001	772	513	513	105	142	166	215	180	147	228

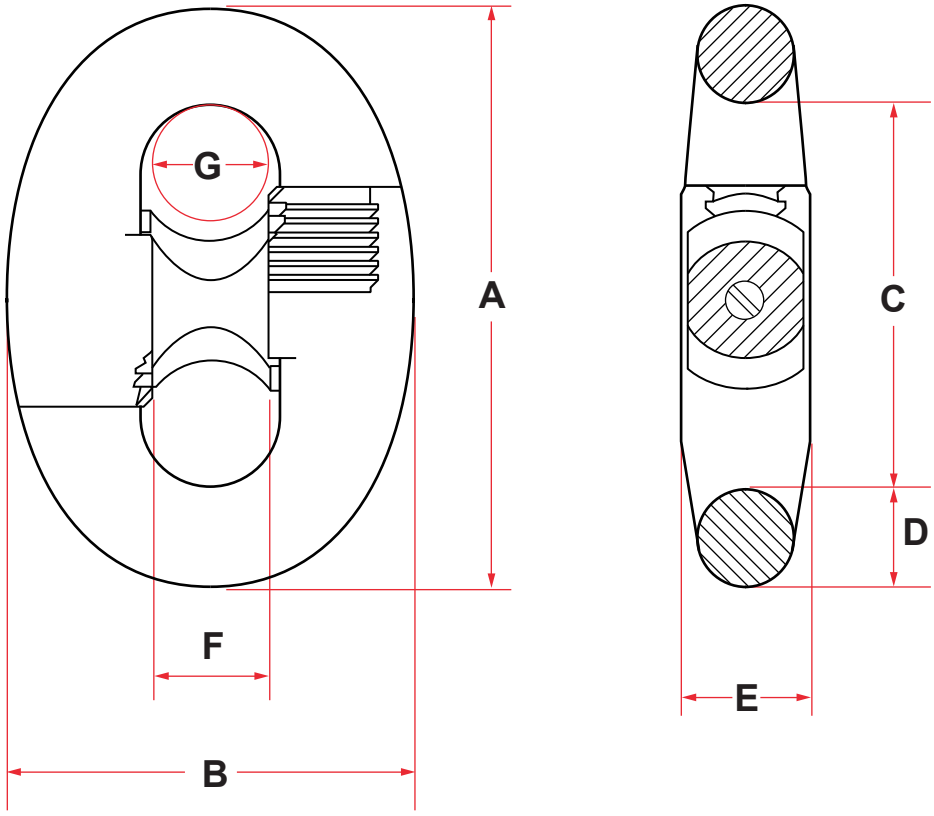
All measurements may vary slightly due to production but shall be within allowable tolerances to class society specifications.

RAPTOR R5

CHAIN SIZE	GRADE	PL (KN)	BL (KN)	DIMENSIONS (MM)									WEIGHT (KG)
				A	B	C	D1	D2	E	F	G	H	
76	R5	5498	7009	618	410	410	84	114	133	172	144	118	120
84	R5	6602	8418	683	454	454	92	126	147	190	160	130	150
89	R5	7332	9348	724	481	481	98	133	156	201	169	138	175
95	R5	8246	10512	772	513	513	105	142	166	215	180	147	228

All measurements may vary slightly due to production but shall be within allowable tolerances to class society specifications.

RAPTOR THIN KENTER (SLIMLINE) GRADE 5



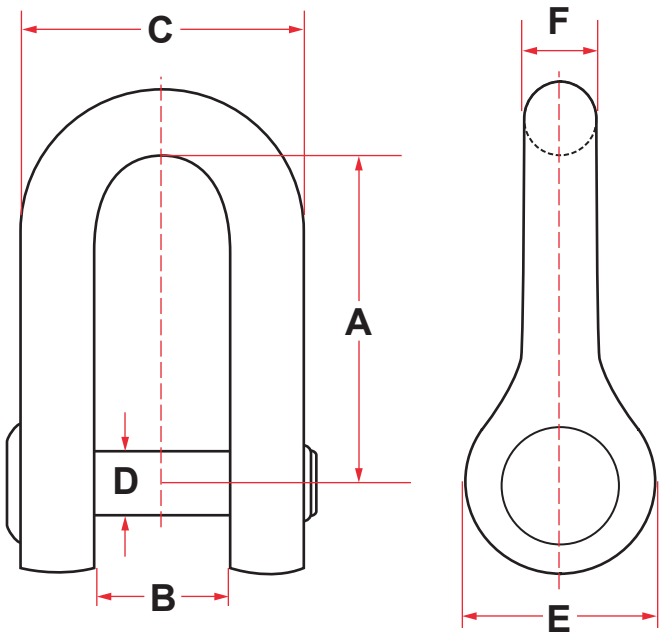
DATA SHEETS	
NUMBER	SIZE
A	6 D
B	4,18 D
C	4 D
D	Ø D
E	1,3 D
F	1,14 D
G	1,1 D

CHAIN SIZE	GRADE	PL (KN)	BL (KN)	DIMENSIONS (MM)							WEIGHT
				A	B	C	D	E	F	G	
70	R5	4732	6021	420	293	280	70	91	80	77	52
76	R5	5498	7009	456	318	304	76	99	87	84	65
84	R5	6602	8418	504	351	336	84	109	96	92	88
89	R5	7332	9348	534	372	356	89	116	101	98	101
95	R5	8246	10512	570	379	380	95	124	108	104	150
102	R5	9359	11932	612	426	408	102	133	116	112	172
114	R5	11378	14506	684	476	456	114	148	130	125	190

All measurements may vary slightly due to production but shall be within allowable tolerances to class society specifications.

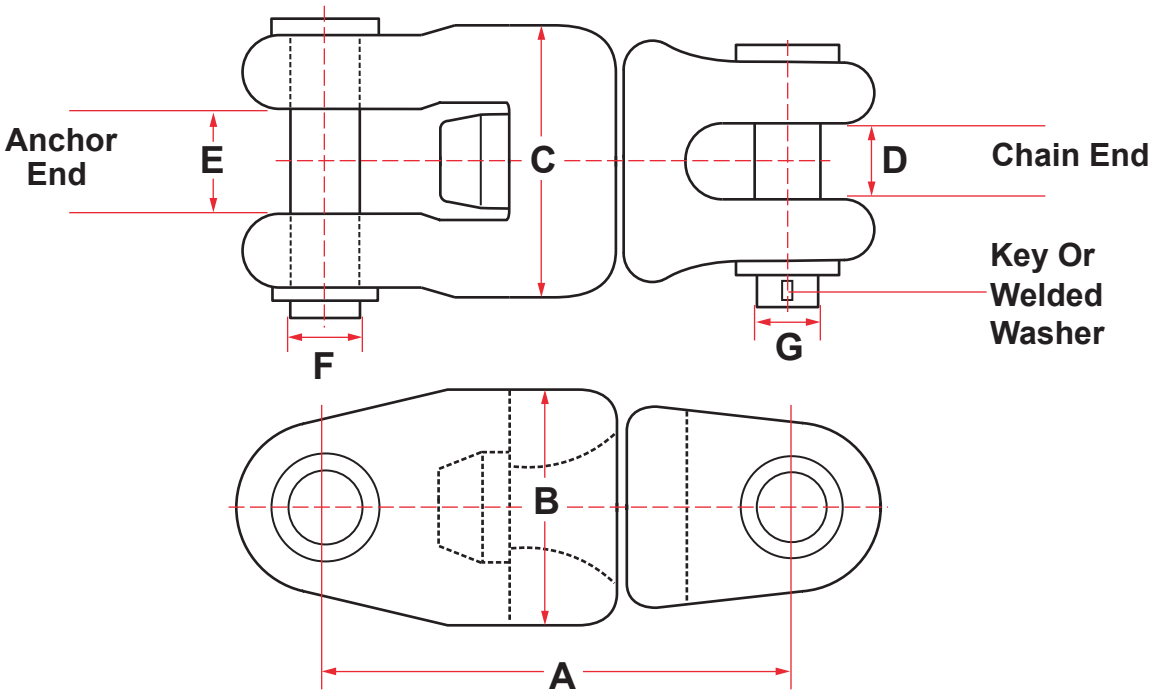
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CROWN ANCHOR SHACKLE
WITH ABS CERTIFICATION



SHACKLE SIZE		A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)	WEIGHT		PROOF LOAD (LBS)
MM	INCHES							KG	LBS.	
51	2	254.0	88.9	180.6	50.8	136.0	50.8	20	44	54,500
64	2-1/2	304.8	111.1	238.1	63.5	168.0	63.5	50	110	90,700
76	3	355.6	152	304	76.2	200.0	76.2	80	176	145,000
89	3-1/2	406.4	165.1	342.9	88.9	230.0	88.9	120	265	165,600
102	4	482.6	194.2	357.4	101.6	265.0	101.6	170	375	230,000
114	4-1/2	558.8	203.2	431.8	114.3	300.0	114.3	240	529	282,500

JAW & JAW SWIVEL SHACKLES



The Jaw & Jaw swivel shackle is designed to accept the shank of an anchor and the chain end is designed to accept a closed spelter socket or mooring chain. The applied proof load is dependent upon applicable design.

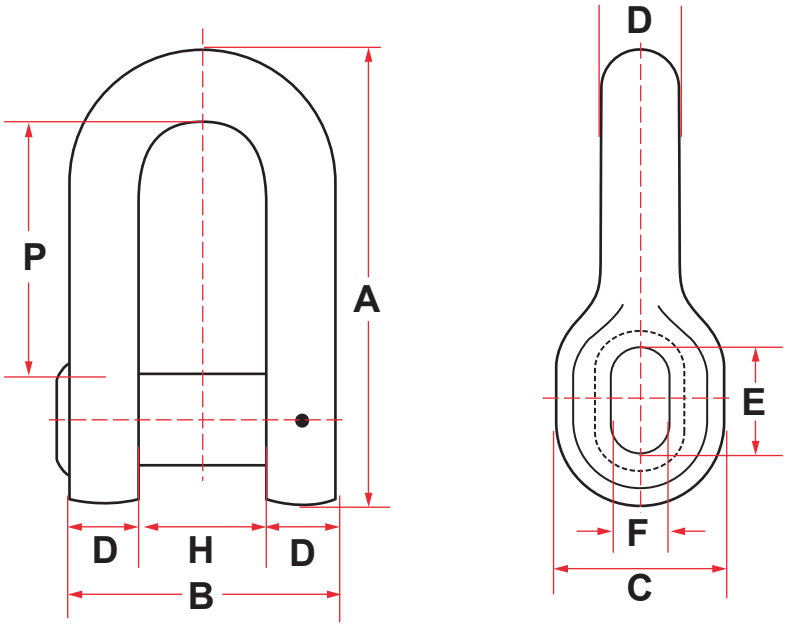
DIMENSIONS (INCHES)						
A	B	C	D	E	F	G
29-1/8	13-5/8	15	3-5/8	7-1/4	4-1/8	2-5/8
29-1/8	13-5/8	15	3-3/4	7-1/4	4-1/2	3
30-3/8	18	17	4-1/4	9	5-1/2	3-1/2
30-3/8	21-1/2	19	4-1/4	10	6-1/2	4
30-3/8	21-1/2	19	6	10	7-1/2	4

Dimensions above are in inches, weight is in pounds. Other sizes available.

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D-TYPE ANCHOR SHACKLE

All figures are factors which have to be multiplied with the nominal chain diameter.

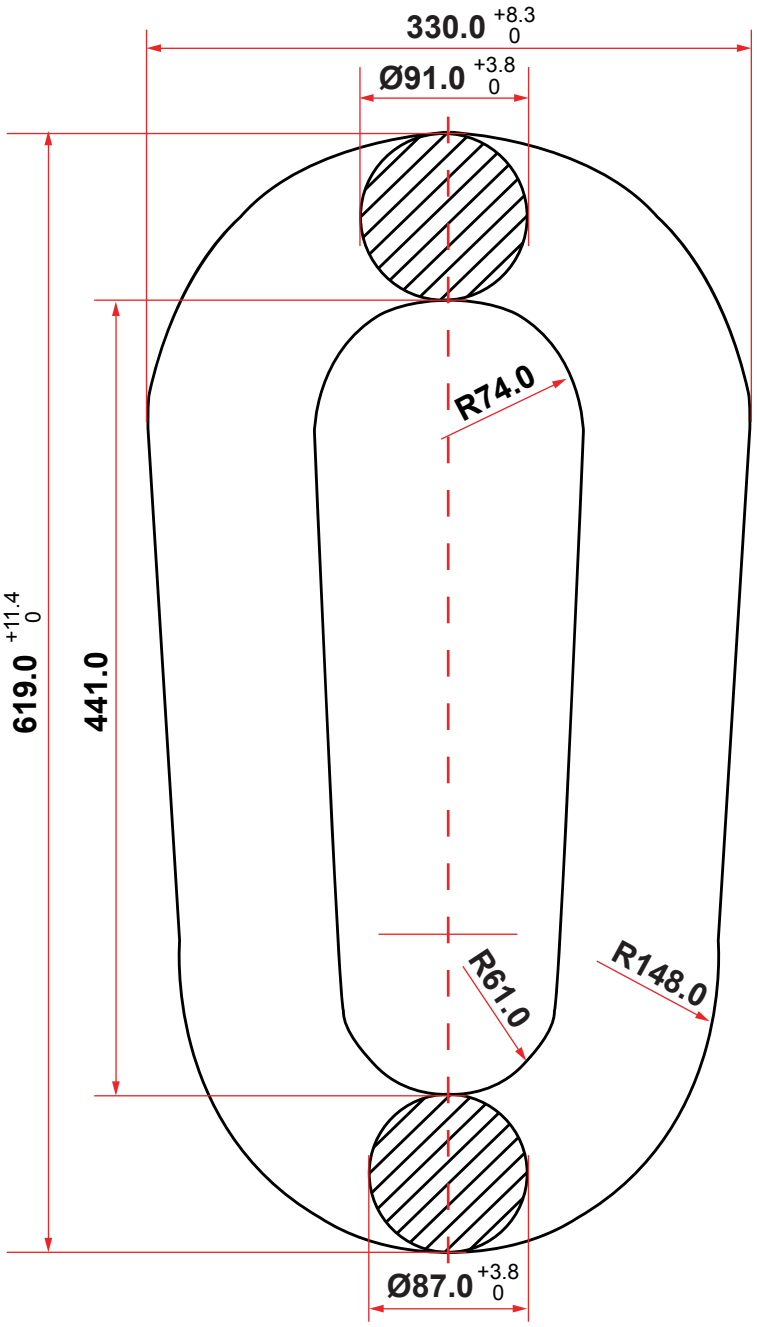


A = 8.7D
B = 5.2D
C = 3.1D
D = 1.4D
E = 1.8D
F = 1.4D
H = 2.4D
P = 4.6D

SIZE INCHES	MM	DIMENSIONS (INCHES)								WEIGHT (LBS)	WEIGHT (KG)
		A	B	C	D	E	F	H	P		
3/4	19	6-1/2	3-7/8	2-3/8	1	1-3/8	1	1-3/4	3-1/2	5.5	2.5
7/8	22	7-5/8	4-1/2	2-3/4	1-1/4	1-5/8	1-1/4	2-1/8	4	8.4	3.8
1	25	8-3/4	5-1/4	3-1/8	1-3/8	1-3/4	1-3/8	2-3/8	4-5/8	13.2	6
1-1/8	29	9-3/4	5-7/8	3-1/2	1-5/8	2	1-5/8	2-3/4	5-1/8	18.5	8.4
1-1/4	32	10-7/8	6-1/2	3-7/8	1-3/4	2-1/4	1-3/4	3	5-3/4	24.9	11.3
1-3/8	35	12	7-1/8	4-1/4	1-7/8	2-1/2	1-7/8	3-1/4	6-3/8	34.2	15.5
1-1/2	38	13	7-3/4	4-5/8	2-1/8	2-3/4	2-1/8	3-5/8	6-7/8	43.7	19.8
1-5/8	41	14-1/8	8-1/2	5	2-1/4	2-7/8	2-1/4	3-7/8	7-1/2	56.9	25.8
1-3/4	44	15-1/4	9-1/8	5-3/8	2-1/2	3-1/8	2-1/2	4-1/4	8	70.3	31.9
1-7/8	48	16-3/8	9-3/4	5-7/8	2-5/8	3-3/8	2-5/8	4-1/2	8-5/8	85.5	38.8
2	51	17-3/8	10-3/8	6-1/4	2-3/4	3-5/8	2-3/4	4-3/4	9-1/4	105.8	48
2-1/8	54	18-1/2	11	6-5/8	3	3-7/8	3	5-1/8	9-3/4	125.7	57
2-1/4	57	19-5/8	11-3/4	7	3-1/8	4	3-1/8	5-3/8	10-3/8	147.7	67
2-3/8	60	20-5/8	12-3/8	7-3/8	3-3/8	4-1/4	3-3/8	5-3/4	10-7/8	176.6	80.1
2-1/2	64	21-3/4	13	7-3/4	3-1/2	4-1/2	3-1/2	6	11-1/2	204.1	92.6
2-5/8	67	22-7/8	13-5/8	8-1/8	3-5/8	4-3/4	3-5/8	6-1/4	12-1/8	234.6	106.4
2-3/4	70	23-7/8	14-1/4	8-1/2	3-7/8	5	3-7/8	6-5/8	12-5/8	267.6	121.4
2-7/8	73	25	15	8-7/8	4	5-1/8	4	6-7/8	13-1/4	310.2	140.7
3	76	26-1/8	15-5/8	9-1/4	4-1/4	5-3/8	4-1/4	7-1/4	13-3/4	350.5	159

Approximate dimensions shown. Contact us for specific dimensions, as they may differ between manufacturers.

(76MM) PEAR SHAPED RING
WITH ABS CERTIFICATION



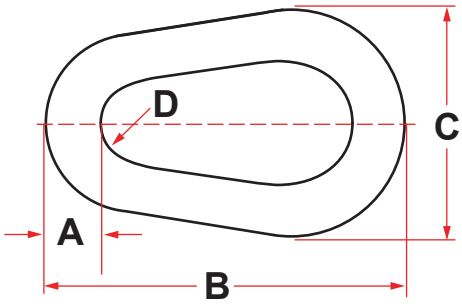
3» (76mm) Pear Shaped Ring ABS Certified

Notes:

1 Weight	160lbs
2. Proof Load	3066.4 kN
3. Break Load	4621.4 kN

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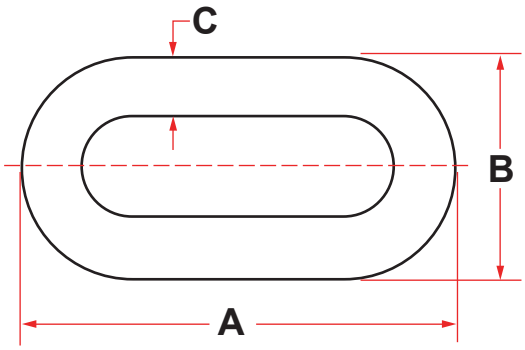
PEAR RING



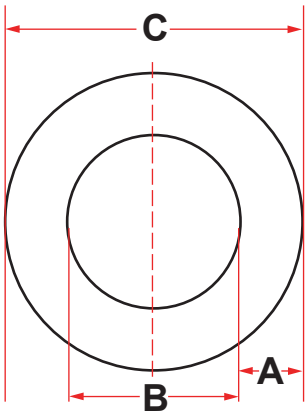
CHAIN SIZE		DIMENSIONS								WEIGHT	
		INCHES				MM					
MM	INCHES	A	B	C	D	A	B	C	D	KG	LBS
42	1-5/8	2.10	8.30	3.90	1.30	53	211	99	33	12	26
44	1-3/4	2.25	11.50	4.19	1.38	57	292	106	35	17	38
51	2	2.50	13.73	4.91	1.64	64	349	125	42	26	57
58	2-1/4	2.75	14.50	5.37	1.73	70	368	136	44	33	73
64	2-1/2	3.00	16.16	5.92	1.92	76	410	150	49	43	95
70	2-3/4	3.50	17.70	6.47	2.11	89	450	164	54	65	143
76	3	3.75	19.21	6.82	2.28	95	488	173	58	80	176
89	3-1/2	4.25	23.90	8.77	2.85	108	607	223	72	127	280
102	4	4.75	26.22	9.61	3.13	121	666	244	80	175	385

END LINK

CHAIN SIZE		DIMENSIONS						WEIGHT	
		INCHES			MM				
MM	INCHES	A	B	C	A	B	C	KG	LBS
42	1-5/8	10.97	6.50	1.95	279	165	50	9	20
44	1-3/4	11.81	6.91	2.10	300	176	53	11	24
51	2	13.50	7.90	2.40	343	201	61	17	37
58	2-1/4	15.19	8.89	2.70	386	226	69	24	53
64	2-1/2	16.88	9.88	3.00	429	251	76	32	71
70	2-3/4	18.56	10.86	3.30	471	276	84	43	95
76	3	20.25	11.85	3.60	514	301	91	55	122
89	3-1/2	23.65	13.83	4.20	601	351	107	90	197
102	4	27.00	15.80	4.80	686	401	122	133	292



MOORING RING



CHAIN SIZE		DIMENSIONS						WEIGHT		PROOF TEST
		INCHES			MILLIMETERS					
MM	INCHES	A	B	C	A	B	C	LBS	KG	LBS
25	1	2.125	7.2	11.22	54	183	291	26	12	83,600
32	1-1/4	2.5	9.02	14.06	64	229	357	51	23	129,000
38	1-1/2	3	10.79	16.77	76	274	426	86	39	183,500
44	1-3/4	3.5	12.76	19.84	90	324	504	143	65	247,000
51	2	4	14.41	22.44	102	366	570	207	94	318,000
58	2-1/4	4.5	16.18	25.16	114	411	639	291	132	396,000
64	2-1/2	5	17.99	27.99	127	457	711	401	182	484,000
76	3	6	21.57	33.54	152	548	852	688	312	679,000
89	3-1/2	7	25.20	39.21	178	640	996	1107	502	900,000
102	4	8	28.90	44.96	204	734	1142	1664	755	1,143,000

RETRIEVING HARDWARE

CHAIN CHASER AND GRAPNEL

Used in the recovery of anchors and mooring lines, J-type chain chasers, permanent chain chasers, detachable permanent chain chasers, and grapnels are manufactured as one-piece units from special cast steel which is annealed for maximum unit strength.

Retrieving hardware is designed for use with 2-3/4 to 3-1/2 in. mooring chain and anchors in the 30,000 to 45,000 lbs. class. All hardware is manufactured with rated testing loads which vary from 150 to 250 tons.

All chasing equipment comes standard with welded hard-facing on contact areas to inhibit wear. Optional treatments include Rapid Solidification Plasma Deposition or R.S.P.D for superior wear and corrosion resistance isolated areas or entire castings can be treated.

J-TYPE CHAIN CHASER

The J-Type, chain chaser, complete with swivel shackle, is used to retrieve a rigs anchor when the pendant line is broken. It is a highly refined, stronger version of the conventional chain chaser originally developed for use in the North Sea. This unique design uses a sophisticated beam configuration in place of the usual T-type cross section to optimize quality and reliability.

PERMANENT CHAIN CHASER

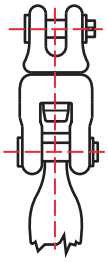
For rigs requiring a permanent-type chain chaser, offers a stronger, better engineered version of the conventional chain chaser used in the North Sea. This type of anchor retrieval system eliminates the need for a pendant line buoy system. As with the J-type chaser, the permanent chaser incorporates a beam configuration that lessens the possibility of breaking with a significant decrease in eccentric bending.

DETACHABLE CHAIN CHASER

Engineers have modified the conventional permanent chaser design to make the wear area detachable and replaceable. This innovative design allows the user to hook up easily and replace individual parts that are prone to wear, rather then replacing the entire chain chaser.

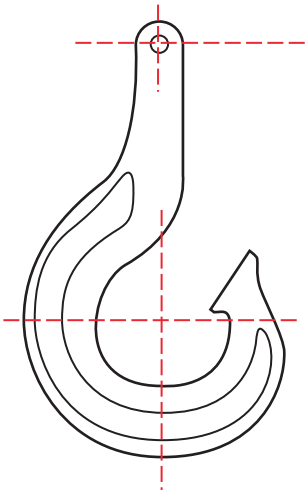
GRAPNEL

In order to offer a total coverage for a variety of retrieving applications, we offer a four-prong grapnel. This unit is designed to recover lost anchors and mooring lines. The four-prong grapnel reduces the outfitting costs, since it is designed to accommodate the same connecting hardware as the permanent and J-type chain chasers.



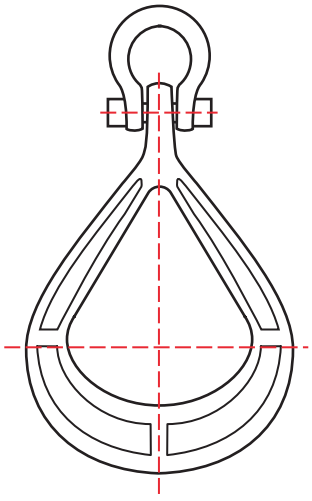
Recommended Standard Swivel Shackle

Alternate 3" Safety-Type Anchor Shackle



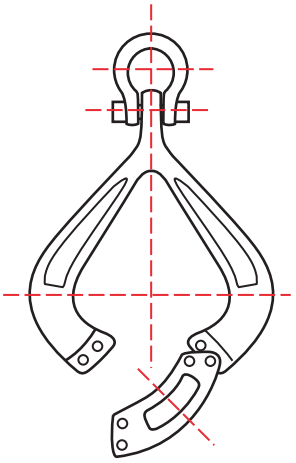
J-Type Chain Chaser

Notes:
1. Weight - 3,200 lbs. (approx.)
2. Test Load - 250 tons (500,000 lbs.) straight pull



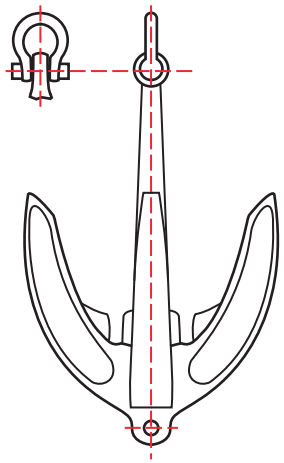
Permanent Chain Chaser

Notes:
1. Weight - 2,600 lbs. (approx.)
2. Test Load - 250 tons (500,000 lbs.) straight pull



Detachable Chain Chaser

Notes:
1. Weight - 2,610 lbs. (approx.)
2. Test load - 250 tons (500,000 lbs.) straight pull
3. Safe Working Load - 110 tons (220,000 lbs.)



Four-Prong Grapnel

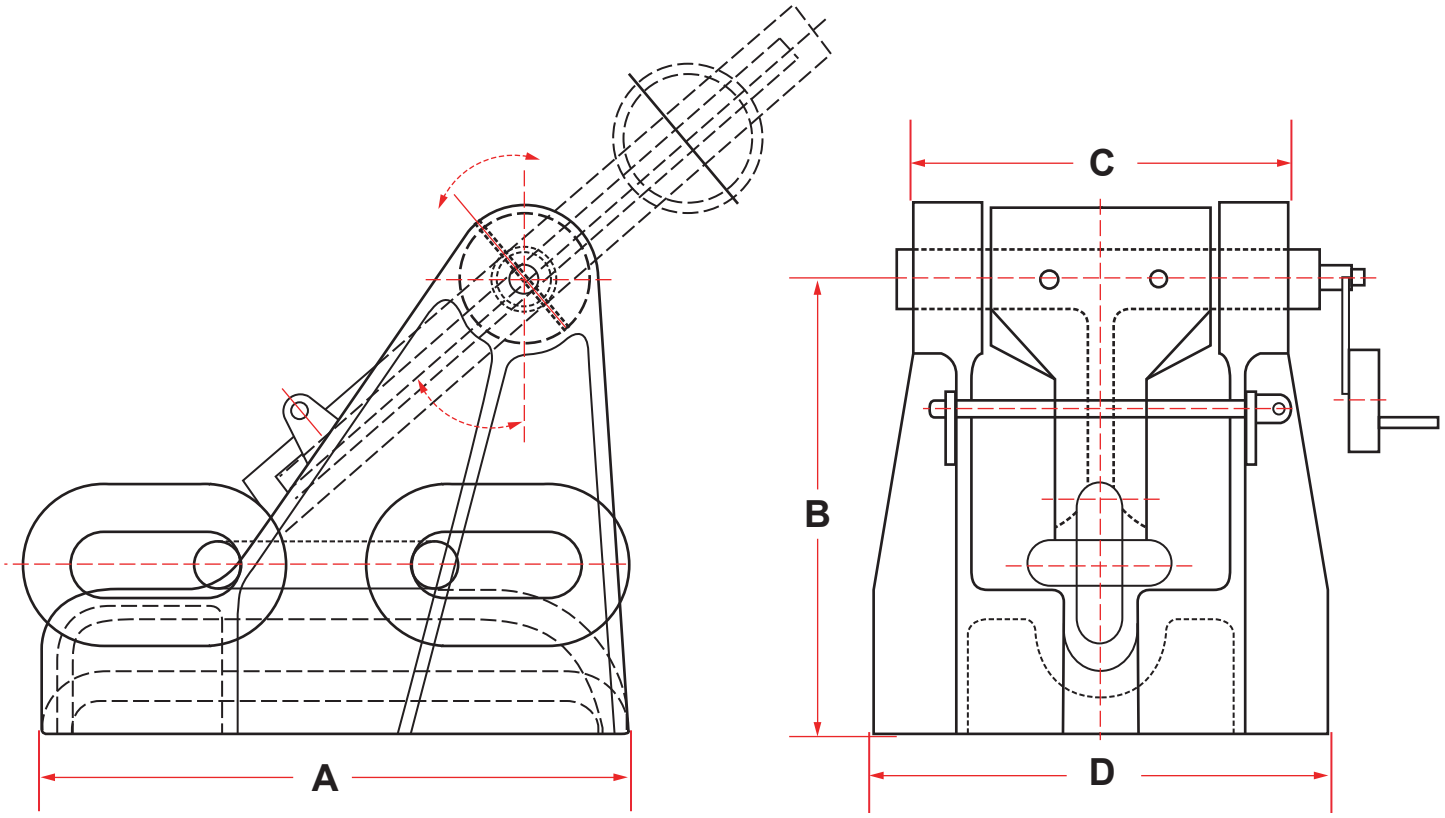
Notes:
1. Weight - 4,000 lbs. (approx.)
2. Test Load - 150 tons

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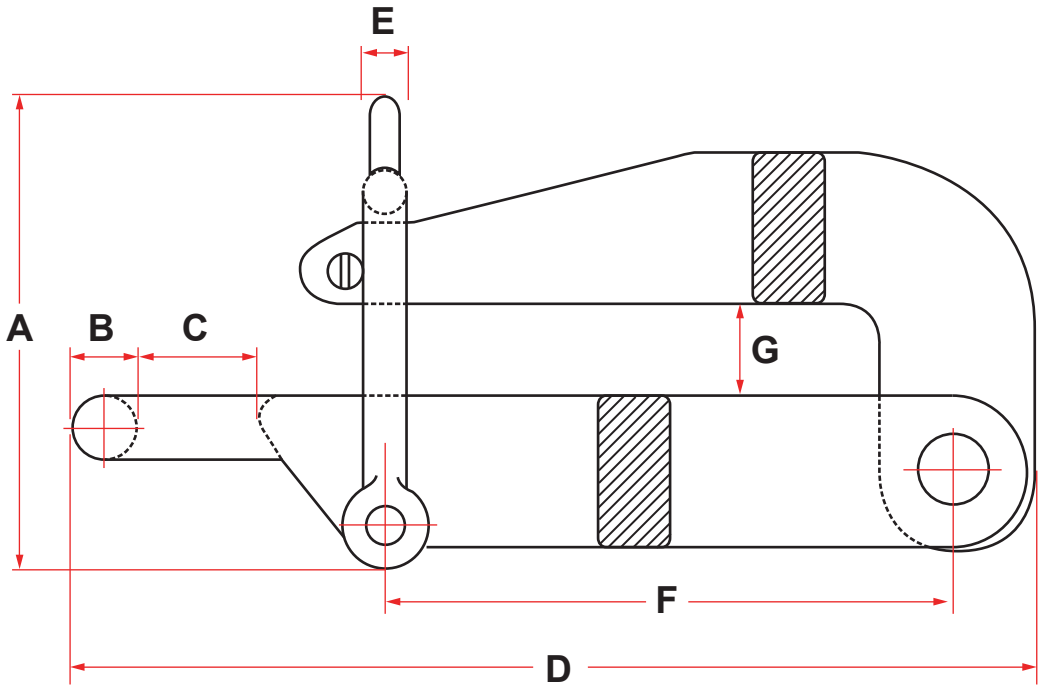
Anchor MARINE & INDUSTRIAL SUPPLY, INC.

PAWL TYPE CHAIN STOPPER



NOMINAL NO.	NOMINAL DIA. OF ANCHOR CHAIN	DIMENSIONS (MM)				WEIGHT (KG.)
		A	B	C	D	
42	36-42	530	494	357	422	210
46	42-46	620	538	404	480	396
51	48-51	680	599	438	520	429
56	52-56	730	638	472	560	465
60	58-60	780	670	506	600	480
64	62-64	835	710	538	630	500
68	66-68	885	750	568	660	567
73	70-73	950	801	604	700	682
78	76-78	1015	852	641	750	818
84	81-84	1095	911	686	800	1030
90	87-90	1170	969	732	850	1220
95	92-95	1235	1021	768	900	1420
102	97, 100, 102	1350	1090	816	950	1830
107	105-107	1400	1148	857	1000	2130
114	111-114	1480	1207	902	1050	2410
122	117-122	1585	1280	956	1120	2900

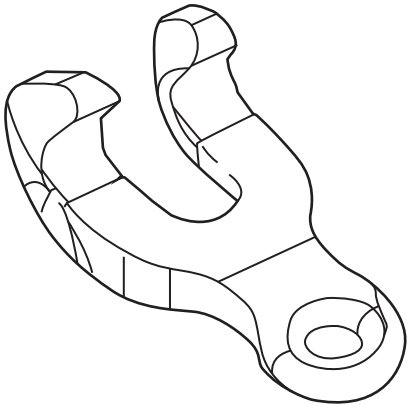
PELICAN HOOK CHAIN STOPPER
WITH ABS CERTIFICATION

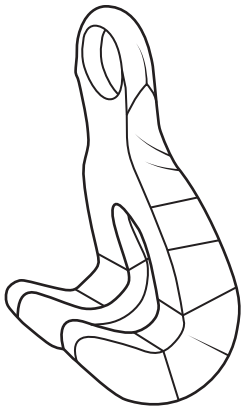


CHAIN SIZE		A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)	G (MM)	LOADS		WEIGHT
MM	INCHES								PROOF TEST KN	BREAK TEST KN	LBS
19	3/4	190	19	32	266	16	137	25	291.3	385	13
22	7/8	193	22	35	337	16	178	31	392.7	529.8	21
25-32	1 - 1-1/4	219	29	41	446	19	260	39	730.6	985.6	41
32-38	1-1/4 - 1-1/2	270	38	48	490	22	267	44	941.6	1,271.1	50
35-41	1-3/8 - 1-5/8	270	38	48	490	22	267	51	941.6	1,271.1	59
41-51	1-5/8 - 2	313	38	54	565	25	305	62	1,122	1,514.6	95
54-60	2-1/8 - 2-3/8	375	41	57	680	32	394	65	1,122	1,514.6	172
64-70	2-1/2 - 2-3/4	410	48	70	780	35	457	79	1,567.1	2,119.1	216
76-83	3 - 3-1/4	454	51	76	860	38	502	95	1,816.5	2,715.9	280
86-89	3-3/8 - 3-1/2	495	64	86	927	41	514	98	2,190.5	3,312.5	357
89-95	3-1/2- 3-3/4	568	73	108	997	44	533	114	3,137	4,746	440
121	4-3/4	568	73	108	1216	44	753	137	3,137	4,746	683

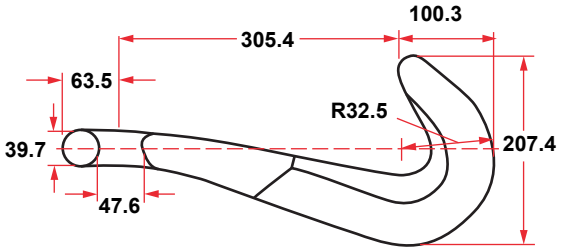
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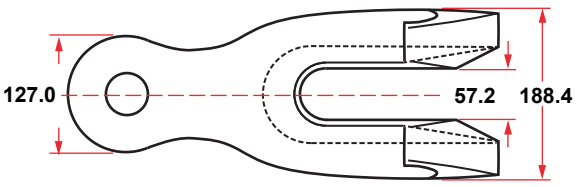
DEVILS CLAW CHAIN STOPPER
WITH ABS CERTIFICATION



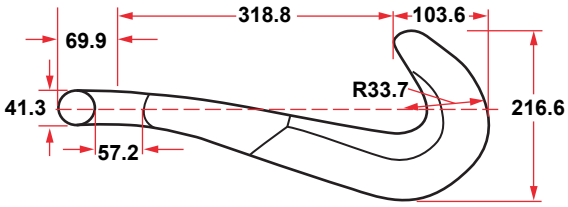


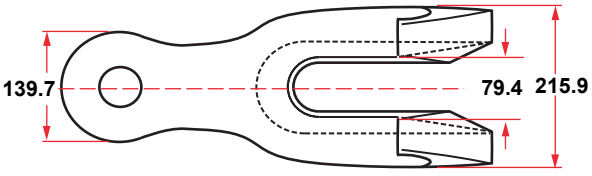
DEVILS CLAW
33 - 41MM (1-5/16" - 1-5/8")
44 LBS





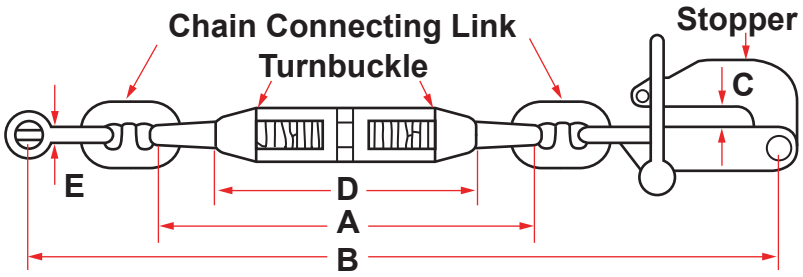
DEVILS CLAW
46 - 60MM (1-11/16" - 2-3/8")
70 LBS





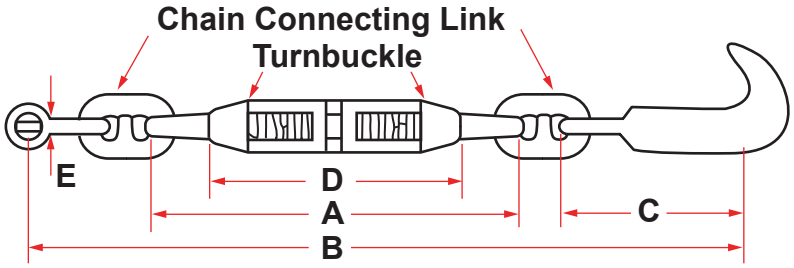
Dimension in millimeter. Other sizes available upon request.

PELICAN HOOK TYPE CHAIN STOPPER ASSEMBLY



CHAIN SIZE		INCHES						DET. LINK SIZE	PROOF LOAD LBS	BREAK LOAD LBS
INCHES	MM	A	B MIN.	B MAX.	C	D	E			
3/4	19	16	33-1/4	40-1/2	1	11	7/8	3/4	67,500	91,100
7/8	22	17-1/4	38-7/16	45-9/16	1-7/32	11	1	7/8	88,200	119,000
1 - 1-1/8	25 - 29	19-1/2	46-7/8	55-1/2	1-17/32	13	1-1/8	1-1/8	145,000	195,000
1-1/4	32	19-5/8	48	56-5/8	1-17/32	13	1-1/4	1-1/4	178,200	240,600
1-1/4 HS - 1-1/2	32HS - 38	23-3/4	55-3/16	65-11/16	1-3/4	16	1-1/2	1-3/8	211,500	285,500
1-3/8HS - 1-5/8	34HS - 42	23-3/4	55-3/16	65-11/16	2	16	1-1/2	1-3/8	211,500	285,500
1-5/8HS - 2	42HS - 51	24-1/8	59-3/16	65-11/16	2-7/16	16	1-1/2	1-1/2	252,000	340,200
2-1/8 - 2-3/8	54 - 60	26-1/4	65-3/8	76-1/8	2-9/16	16	1-5/8	1-1/2	252,000	340,200
2-1/2 - 2-5/8	64 - 67	29-3/4	74-3/8	87-1/2	3-1/8	20	1-7/8	1-5/8	292,500	395,000
2-3/4 - 2-3/4HD	70 - 70HD	29-3/4	86-5/8	89-3/4	3-1/8	20	1-7/8	1-3/4	352,000	476,000
3HD - 3-1/4	76HD - 83	36	90-3/4	106-1/2	3-3/4	24	2-3/8	2-1/4	403,000	610,000
3-3/8 - 3-1/2	86 - 89	38-5/8	97-7/16	113-3/16	3-7/8	24	2-5/8	2-1/2	492,000	744,000
3-1/2HD- 3-3/4	89HD - 95	44-3/8	110	128-1/8	4-1/2	27-1/2	2-7/8	3	706,000	1,068,000

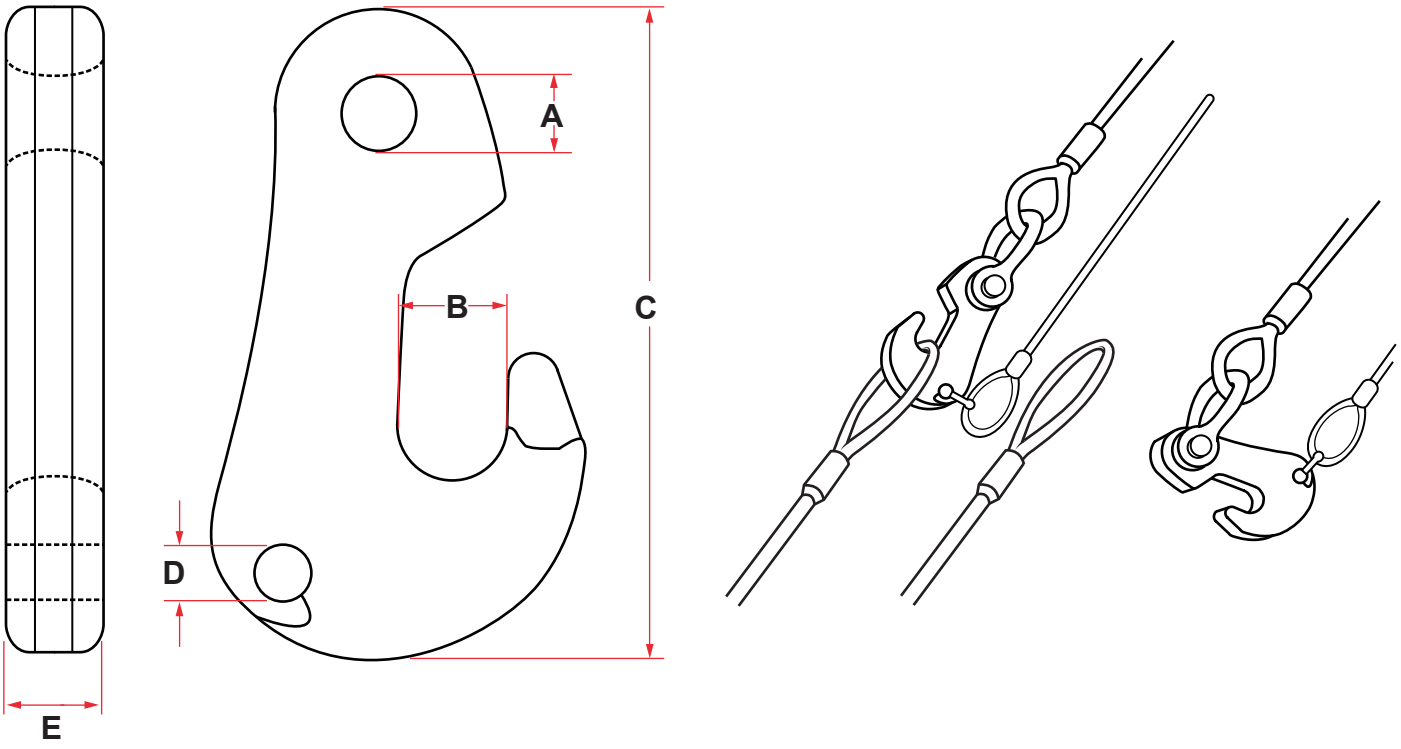
DEVIL'S CLAW TYPE CHAIN STOPPER ASSEMBLY



CHAIN SIZE		INCHES						DET. LINK SIZE	PROOF LOAD LBS	BREAK LOAD LBS
INCHES	MM	A	B MIN.	B MAX.	C	D	E			
3/4 - 3/4HS	19 - 19HS	16	35-1/2	42-3/4	10-1/2	11	7/8	3/4	67,500	91,100
7/8 - 7/8HS	22 - 22HS	17-1/4	38-1/4	45-3/8	10-1/2	11	1	7/8	88,200	119,000
1 - 1-1/8	25 - 29	19-1/2	43-1/16	51-11/16	10-1/2	13	1-1/8	1-1/8	145,000	195,000
1-1/4	32	19-5/8	44-3/16	52-13/16	10-1/2	13	1-1/4	1-1/4	178,200	240,600
1-1/4 HS - 1-1/2	32HS - 38	23-3/4	50-1/4	60-3/4	10-1/2	16	1-1/2	1-3/8	211,500	285,500
1-3/8HS - 1-5/8	34HS - 42	23-3/4	50-1/4	60-3/4	10-1/2	16	1-1/2	1-3/8	211,500	285,500
1-5/8HS - 2	42HS - 51	24-1/8	53-1/8	63-5/8	12	16	1-1/2	1-1/2	252,000	340,200
2-1/8 - 2-3/8	54 - 60	26-1/4	56-1/4	66-3/4	12-1/2	16	1-5/8	1-1/2	252,000	340,200
2-1/2 - 2-5/8	64 - 67	29-3/4	65	78-1/8	16	20	1-7/8	1-5/8	292,500	395,000
2-3/4 - 2-3/4HD	70 - 70HD	29-3/4	67-1/4	80-1/4	16	20	1-7/8	1-3/4	352,000	476,000
3HD - 3-1/4	76HD - 83	36	76-1/4	92-3/8	17-1/2	24	2-3/8	2-1/4	403,000	610,000
3-3/8 - 3-1/2	86 - 89	38-5/8	86-1/2	102-1/4	19	24	2-5/8	2-1/2	492,000	744,000
3-1/2HD- 3-3/4	89HD - 95	44-3/8	98-5/8	116-3/4	20-1/2	27-1/2	2-7/8	3	706,000	1,068,000

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ANCHOR LINE HOOK

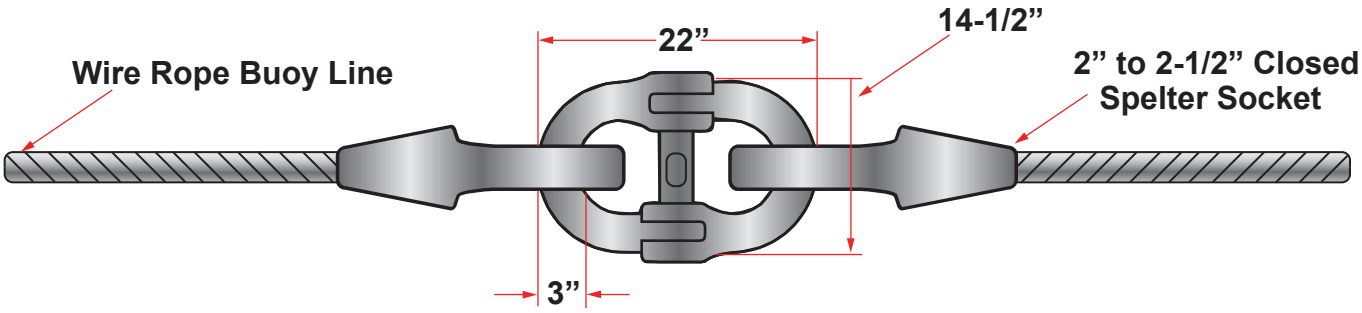


SWL	MBL (TON)	A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	WEIGHT (KG)
15	60	38	58	343	32	45	8
20	80	40	74	343	32	60	13
25	100	52	86	440	38	65	22
50	200	80	112	618	45	90	100
80	320	90	130	709	62	100	145

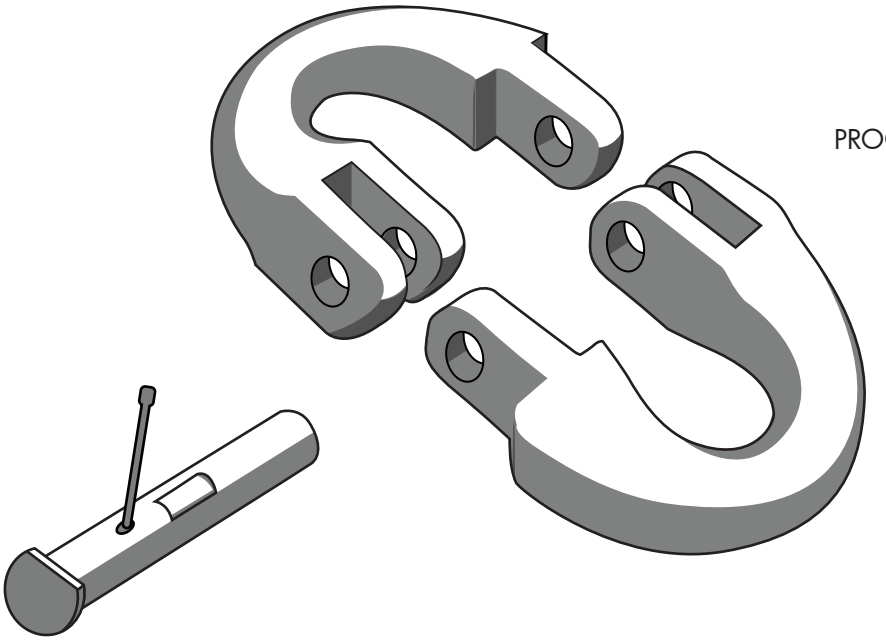
Tolerance ± 5%

HINGE LINK
WITH ABS CERTIFICATION

Recommended above 2-3/16" chain



The 110-ton S.W.L. Hinge Link is specifically designed to provide a single, fast, easy connection to spelter sockets or thimbles that will hinge when passing over a wire rope drum. Hinge Link can be used to connect up to 3" wire rope closed spelter sockets and thimbles on anchor pendant lines.



PROOF LOAD: 440,000 LB.

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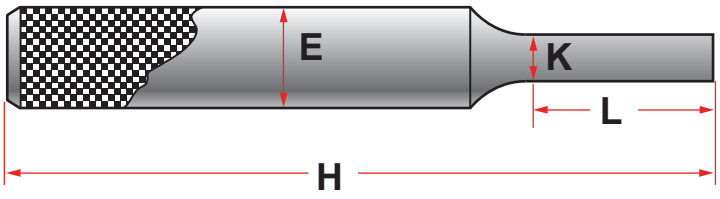
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DETACHABLE LINK PUNCHES

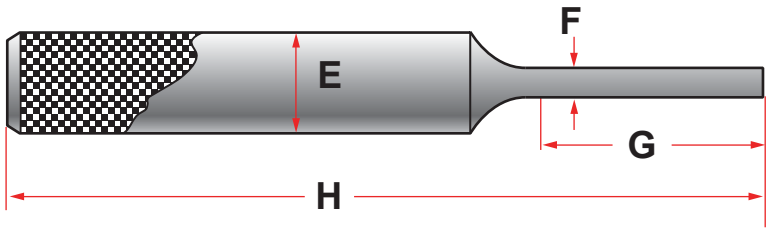
These punches are designed for the assembly and disassembly of detachable chain connecting links, kenter links, and anchor joining links. Sizes will vary for kenters and pear links made from steel, heat treated to 45-50 Rockwell C.

ASSEMBLING PUNCHES



PUNCH NO.	INCHES					HANDLE
	LINK SIZE	E	K	H	L	
P-1A	5/8 - 3/4	3/4	15/64	5	1-1/8	
P-2A	7/8 - 1	3/4	17/64	5	1-1/8	
P-3A	1 - 1/8					
	1-1/4 - 1-3/8	1	3/8	6	1-3/8	
P-4A	1-1/2 - 1-5/8	1	33/64	6-1/2	1-3/8	
P-5A	1-3/4 - 2	1	21/32	6-1/2	1-1/2	X
P-6A	2-1/8 - 2-3/8	1	51/64	6-1/2	1-5/8	X
P-7A	2-1/2 - 2-7/8	1-1/8	61/64	6-1/2	1-5/8	X
P-8A	3	1-1/4	1-9/64	7	1-3/4	X

DISASSEMBLY PUNCHES



PUNCH NO.	INCHES					HANDLE
	LINK SIZE	E	F	H	G	
P-1D	5/8 - 3/4	3/4	13/64	5	1-1/4	
P-2D	7/8 - 1	3/4	15/64	5	1-1/2	
P-3D	1 - 1/8					
	1-1/4 - 1-3/8	1	5/16	6	2-1/2	
P-4D	1-1/2 - 1-5/8	1	15/32	6-1/2	2-7/8	
P-5D	1-3/4 - 2	1	9/16	6-1/2	3-1/4	X
P-6D	2-1/8 - 2-3/8	1	11/16	6-1/2	3-1/2	X
P-7D	2-1/2 - 2-7/8	1-1/8	13/16	6-1/2	3-1/2	X
P-8D	3	1-1/4	1	7	4	X

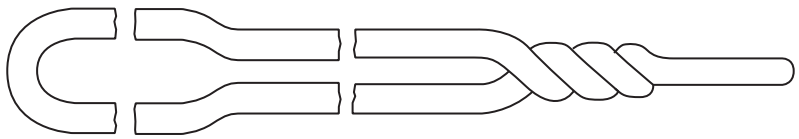
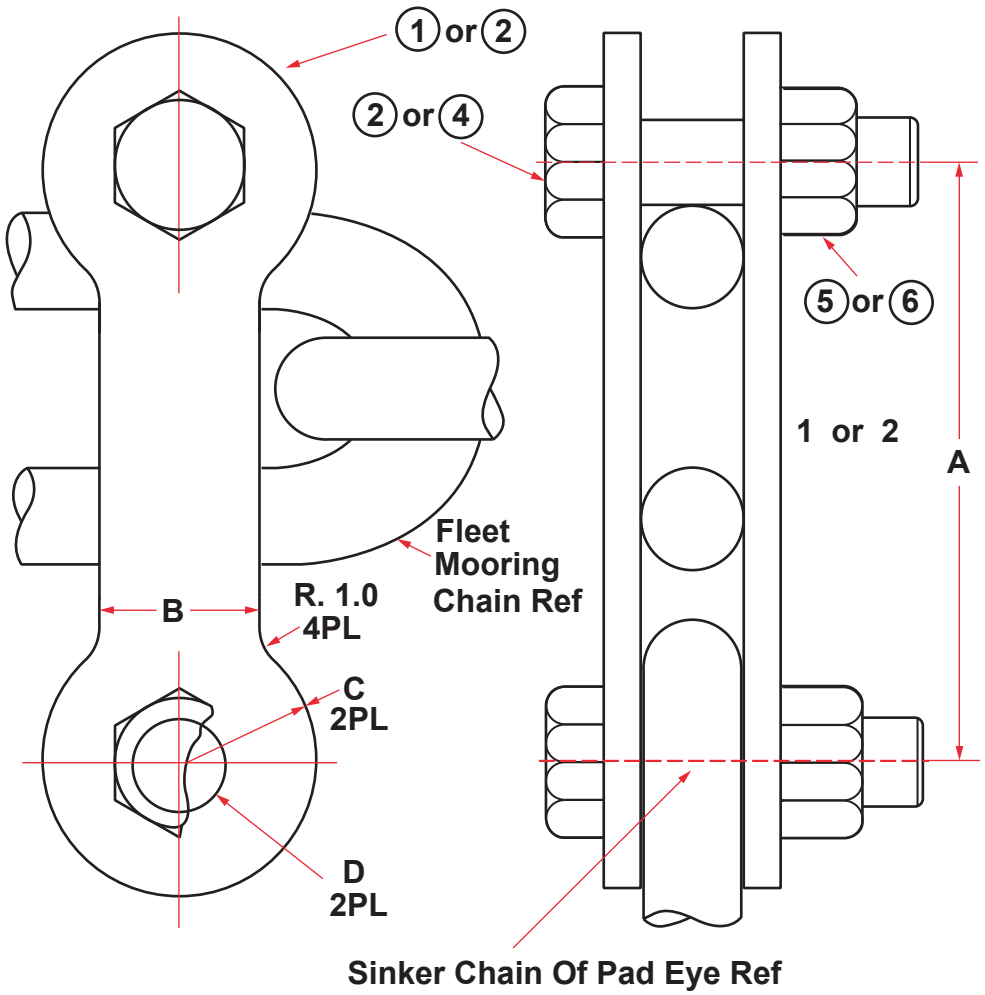


PLATE SINKER SHACKLE



DASH NO.	SINKER CHAIN OR PAD EYE DIA RED	DIM. A ± .12	DIM. B ± .12	RADIUS C ± .12	DIM. D ± .12
-1	1-3/4 - 2	12.06	3.03	2.56	1.88
-2	2-1/4 - 4	22.06	4.03	3.56	2.38

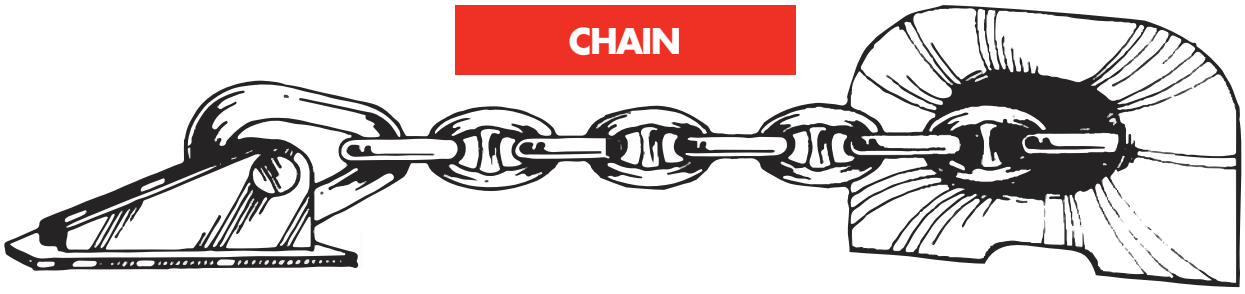
QTY REQD	QTY REQD	FIND NO.	PART OF IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	MATERIAL
2	-	6	GRADE DH	NUT, HEAVY, HEX, 2.250-SUN-2B	ASTM A563	STEEL
-	2	5	GRADE DH	NUT, HEAVY, HEX, 1.750-SUN-2B	ASTM A563	STEEL
2	-	4	GRADE BD	BOLT, HEX HD, 2.250-SUN-2B-2A X 9.25L	ASTM A354	STEEL
-	2	3	GRADE BD	BOLT, HEX HD, 1.750-SUN-2B-2A X 6.25L	ASTM A354	STEEL
2	-	2		PLATE, 1.25 STE	ASTM A36	STEEL
-	2	1		PLATE, 1.00 STE	ASTM A36	STEEL
-2	-1			PARTS LIST		

Note: Sinker shackle markings shall be as specified in Section 3.3.1

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TOWING

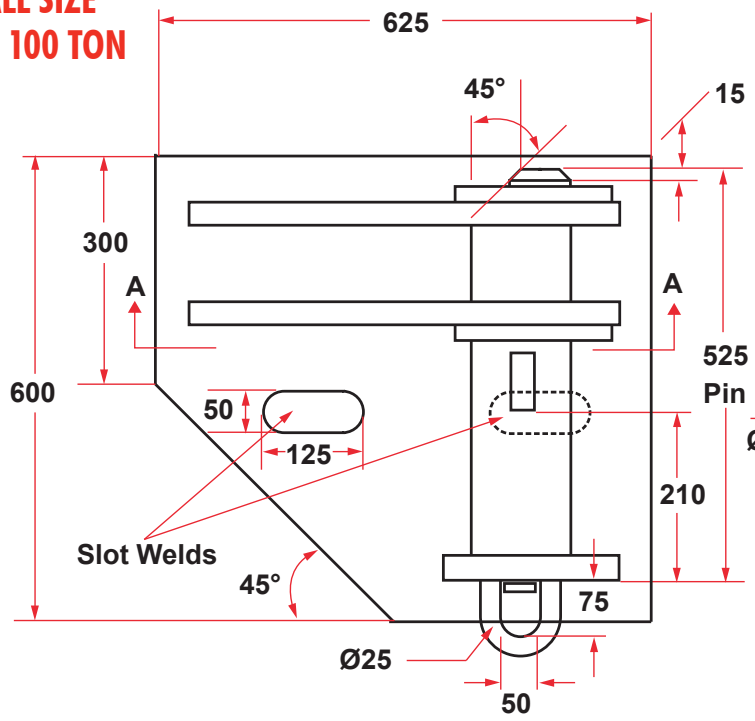
WE'LL GIVE YOU SOMETHING TO HOLD ON TO…
EQUIPMENT FOR EMERGENCY TOWING.



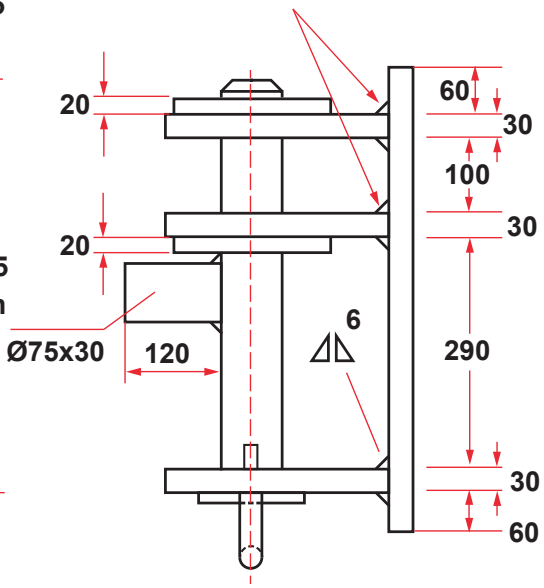
WE OFFER A COMPLETE STOCK OF EQUIPMENT FOR EMERGENCY TOWING ARRANGEMENTS, SUCH AS, SMIT TOWING BRACKETS, PANAMA CHOCKS, CHAFING CHAINS, SEA-LINK TOWING SHACKLES AND SEA-LINK TOWING PLATES.

SMIT BRACKET
WITH ABS CERTIFICATION

SMALL SIZE
SWL 100 TON

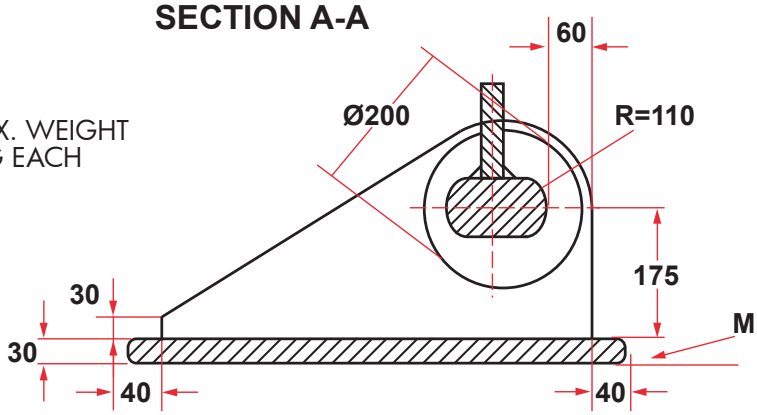


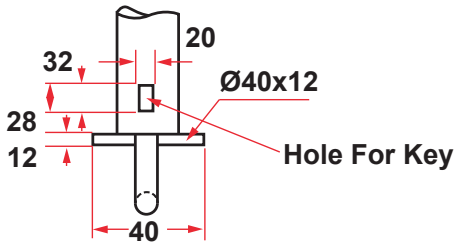
CONNECTION FOR 2-3/4" - 3"
TOWING CHAIN



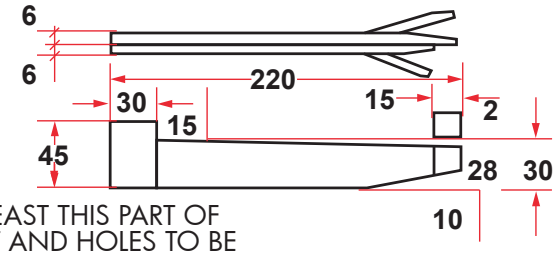
SECTION A-A

APPROX. WEIGHT
195 KG EACH

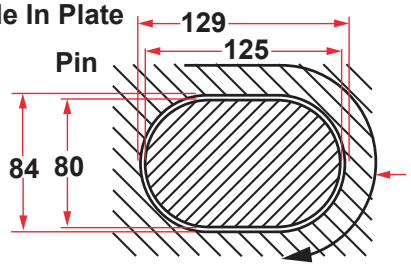




KEY



AT LEAST THIS PART OF BOLT AND HOLES TO BE MACHINED

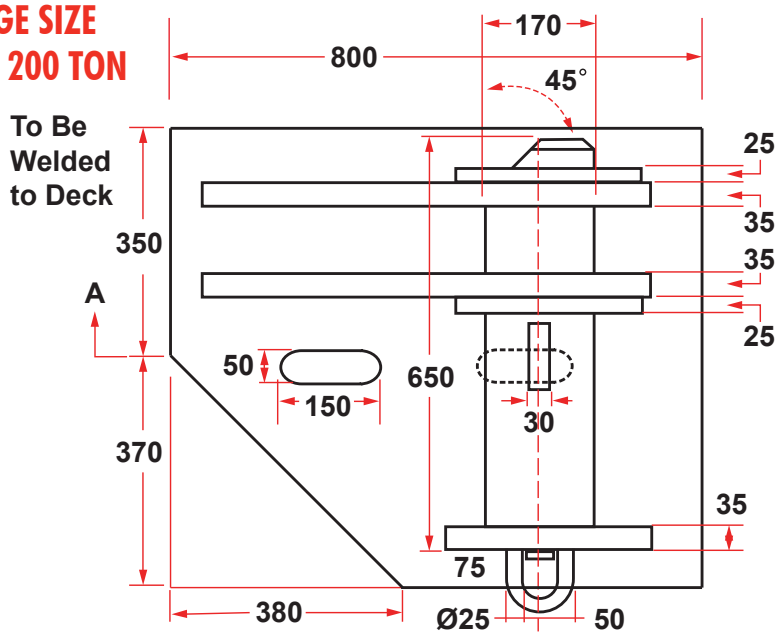


DECK UNDERNEATH TO BE REINFORCED IF NECESSARY STARBOARD CONNECTION IS DRAWN, PORT CONNECTION IS REFLECTED IMAGE.

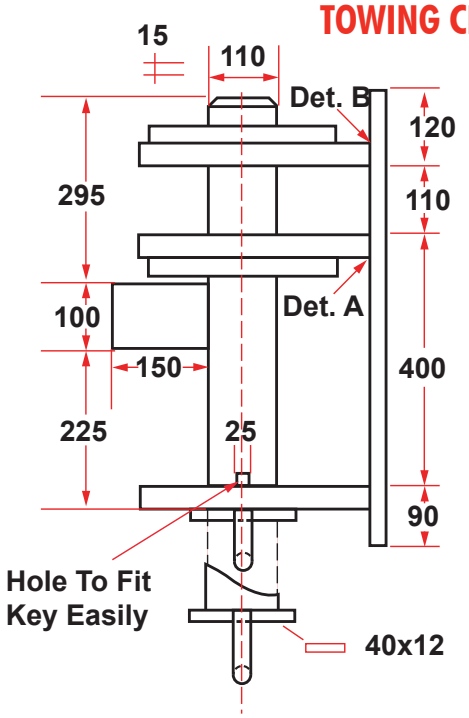
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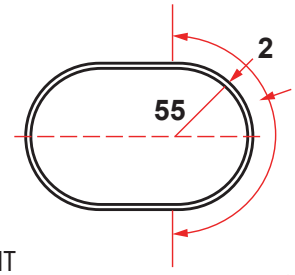
SMIT BRACKET
WITH ABS CERTIFICATION

LARGE SIZE
SWL 200 TON



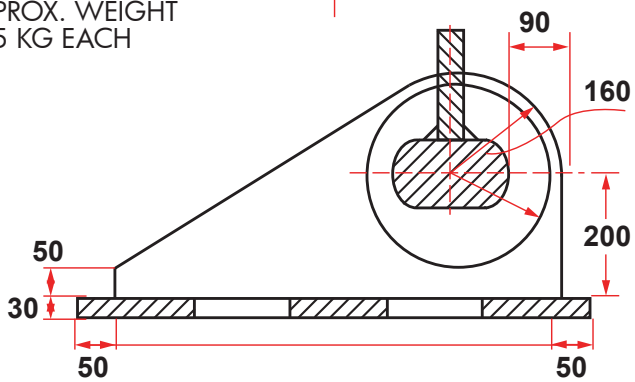
CONNECTION FOR 3-1/4" TOWING CHAIN

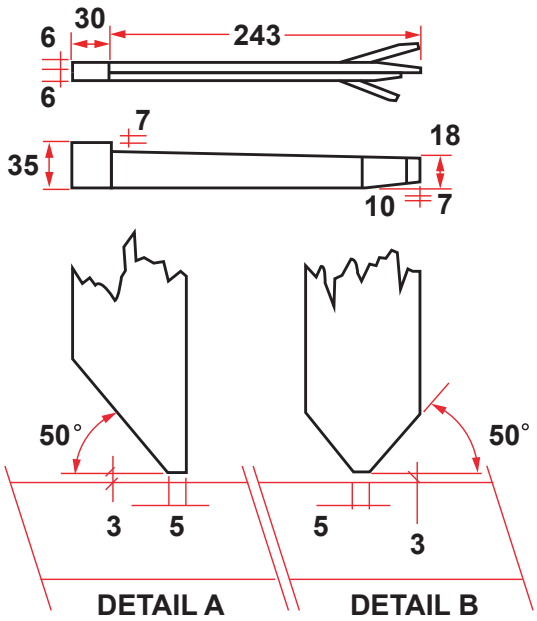




AT LEAST THIS PART OF BOLT AND HOLES TO BE MACHINED

APPROX. WEIGHT
375 KG EACH

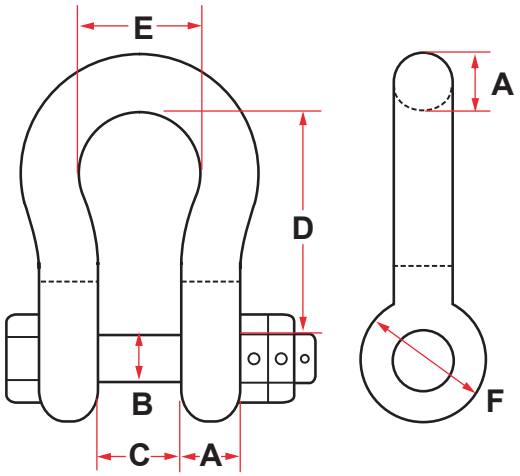




DECK UNDERNEATH TO BE REINFORCED IF NECESSARY STARBOARD CONNECTION IS DRAWN, PORT CONNECTION IS REFLECTED IMAGE.

SEA-LINK HEAVY LIFT INDUSTRIAL AND MARINE TOWING SHACKLES

(MADE WITH PRIDE IN THE USA)



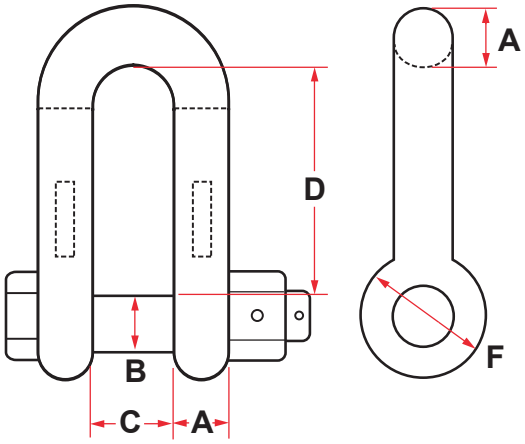
ANCHOR PATTERN — REGULAR JAW

SIZE (A)	WORKING LOAD LIMIT IN TONS	PIN DIAM. IN INCHES (B)	JAW WIDTH INCHES (C)	DIMENSIONS (INCHES)			APPROX. WT. EACH IN POUNDS
				D	E	F	
1-1/2	31	1-3/4	2-3/8	5-3/4	3-7/8	3-1/2	20
1-3/4	41	2	2-7/8	7	5	4-1/4	23
2	52	2-1/4	3-1/4	7-3/4	5-3/4	4-5/8	41
2-1/4	67	2-1/2	4-1/4	9-1/4	6-1/2	5	67
2-1/2	82	2-3/4	4-1/2	10-1/2	7-1/2	5-3/4	88
2-3/4	104	3	4-1/2	11	7-3/4	6-1/8	112
3	123	3-1/4	5	13	8-1/2	6-1/2	133
3-1/2	150	3-3/4	5-3/4	15	9	8-1/4	250
4	200	4-1/4	6-1/2	16	11	9-1/8	358

JAW TOLERANCE
* Shackle Size 1-1/2 - 3 Inches = (+/-.125)
* Shackle Size 3-1/2 - 4 Inches = (+/-.250)

REACH TOLERANCE
* Shackle Size 1-1/2 - 2-1/2 Inches = (+/-.500)
* Shackle Size 2-3/4 - 4 Inches = (+/-.750)

SAFETY
* 5:1 Safety Factor



CHAIN PATTERN — REGULAR JAW

SIZE (A)	WORKING LOAD LIMIT IN TONS	PIN DIAM. IN INCHES (B)	JAW WIDTH INCHES (C)	DIMENSIONS (INCHES)		APPROX. WT. EACH IN POUNDS
				D	F	
1-1/2	31	1-3/4	2-3/8	5-1/2	3-1/2	19
1-3/4	41	2	2-7/8	6-3/4	4-1/4	22
2	52	2-1/4	3-1/4	7-3/4	4-5/8	36
2-1/4	67	2-1/2	4-1/4	9-1/4	5	62
2-1/2	82	2-3/4	4-1/2	10-1/2	5-3/4	86
2-3/4	104	3	4-1/2	11	6-1/8	110
3	123	3-1/4	5	13	6-1/2	125
3-1/2	150	3-3/4	5-3/4	15	8-1/4	218
4	200	4-1/4	6-1/2	16	9-1/8	310

JAW TOLERANCE
* Shackle Size 1-1/2 - 3 Inches = (+/-.125)
* Shackle Size 3-1/2 - 4 Inches = (+/-.250)

REACH TOLERANCE
* Shackle Size 1-1/2 - 2-1/2 Inches = (+/-.500)
* Shackle Size 2-3/4 - 4 Inches = (+/-.750)

SAFETY
* 5:1 Safety Factor

AVAILABLE IN SINGLE NUT OR DOUBLE NUT PINS.

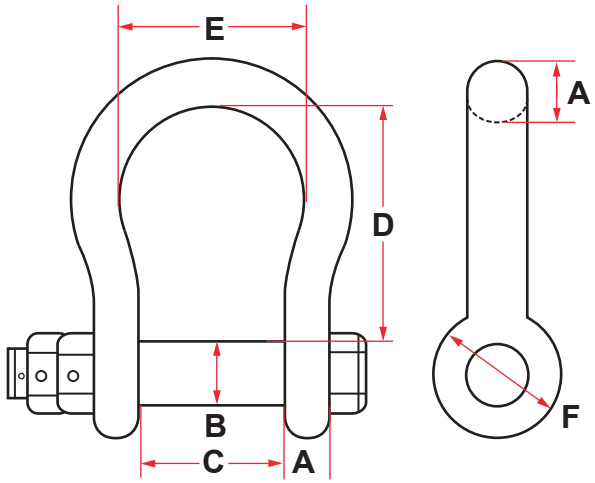
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SEA-LINK HEAVY LIFT INDUSTRIAL AND MARINE TOWING SHACKLES (WIDE JAW)

(MADE WITH PRIDE IN THE USA)

ANCHOR PATTERN — WIDE JAW

SIZE (A)	WORKING LOAD LIMIT IN TONS	PIN DIAM. IN INCHES (B)	JAW WIDTH INCHES (C)	DIMENSIONS (INCHES)			APPROX. WT. EACH IN POUNDS
				D	E	F	
1-1/2	22	1-3/4	4-3/16	8-1/8	6-1/4	3-1/2	28
1-3/4	30	2	5	9-3/8	6-7/8	4-1/4	40
2	40	2-1/4	5-3/4	10-1/2	8-1/8	4-5/8	55
2-1/4	48	2-1/2	6-1/4	11-1/2	8-7/8	5	75
2-1/2	55	2-3/4	6-1/2	12-3/8	9-3/8	5-3/4	106
2-3/4	68	3	7	12-3/4	9-3/4	6-1/8	138
3	80	3-1/4	7-1/4	13	10	6-1/2	157
3-1/2	120	3-3/4	9-1/4	15-1/2	12-1/4	8-1/4	274



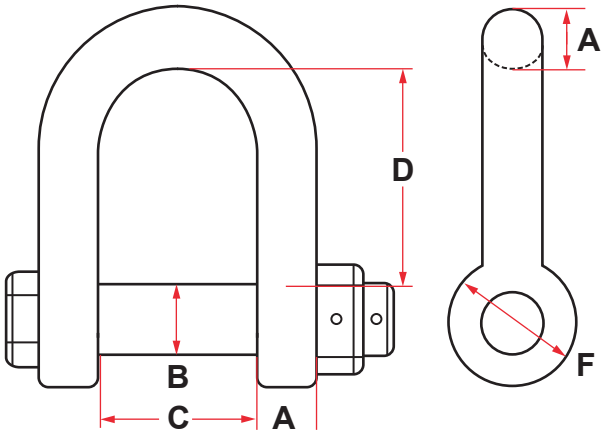
JAW TOLERANCE
* Shackle Size 1-1/2 - 3 Inches = (+/-.125)
* Shackle Size 3-1/2 Inches = (+/-.250)

REACH TOLERANCE
* Shackle Size 1-1/2 - 2-1/2 Inches = (+/-.500)
* Shackle Size 2-3/4 - 3-1/2 Inches = (+/-.750)

SAFETY
* 5:1 Safety Factor

CHAIN PATTERN — WIDE JAW

SIZE (A)	WORKING LOAD LIMIT IN TONS	PIN DIAM. IN INCHES (B)	JAW WIDTH INCHES (C)	DIMENSIONS (INCHES)		APPROX. WT. EACH IN POUNDS
				D	F	
1-1/2	22	1-3/4	4-3/16	8-1/8	3-1/2	28
1-3/4	30	2	5	9-3/8	4-1/4	45
2	40	2-1/4	5-3/4	10-1/2	4-5/8	60
2-1/4	48	2-1/2	6-1/4	11-1/2	5	71
2-1/2	55	2-3/4	6-1/2	12-3/8	5-3/4	112
2-3/4	68	3	7	12-3/4	6-1/8	127
3	80	3-1/4	7-1/4	13	6-1/2	165
3-1/2	120	3-3/4	9-1/4	15-1/2	8-1/4	278



JAW TOLERANCE
* Shackle Size 1-1/2 - 3 Inches = (+/-.125)
* Shackle Size 3-1/2 Inches = (+/-.250)

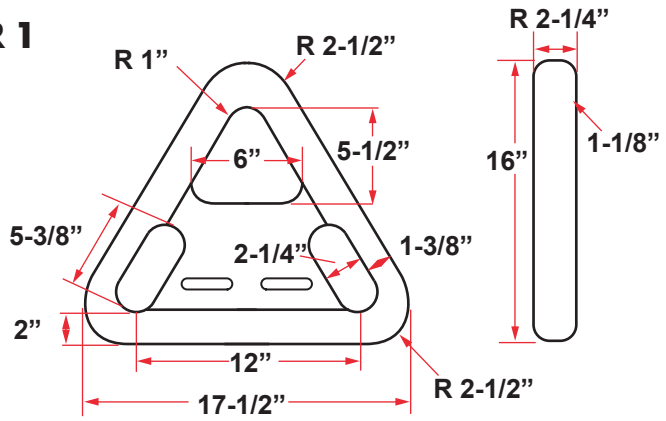
REACH TOLERANCE
* Shackle Size 1-1/2 - 2-1/2 Inches = (+/-.500)
* Shackle Size 2-3/4 - 3-1/2 Inches = (+/-.750)

SAFETY
* 5:1 Safety Factor

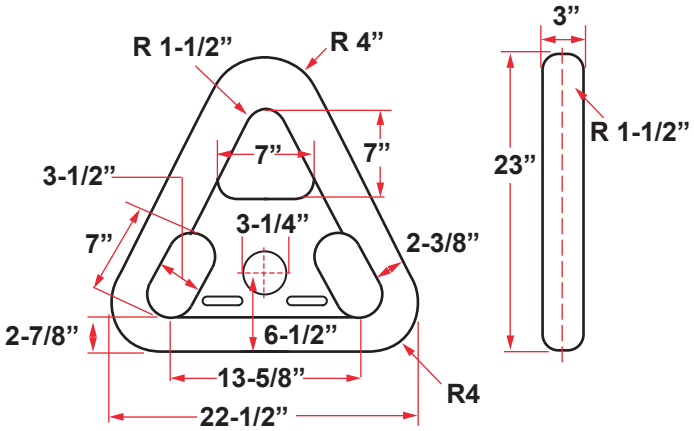
AVAILABLE IN SINGLE NUT OR DOUBLE NUT PINS.

SEA-LINK TOW PLATES
WITH ABS CERTIFICATION

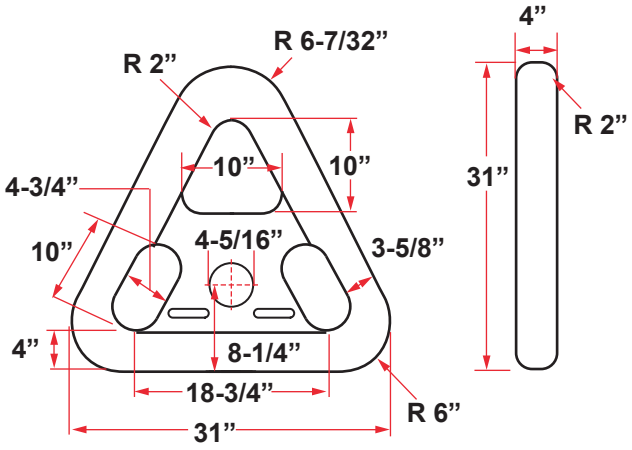
NUMBER 1



NUMBER 2



NUMBER 3

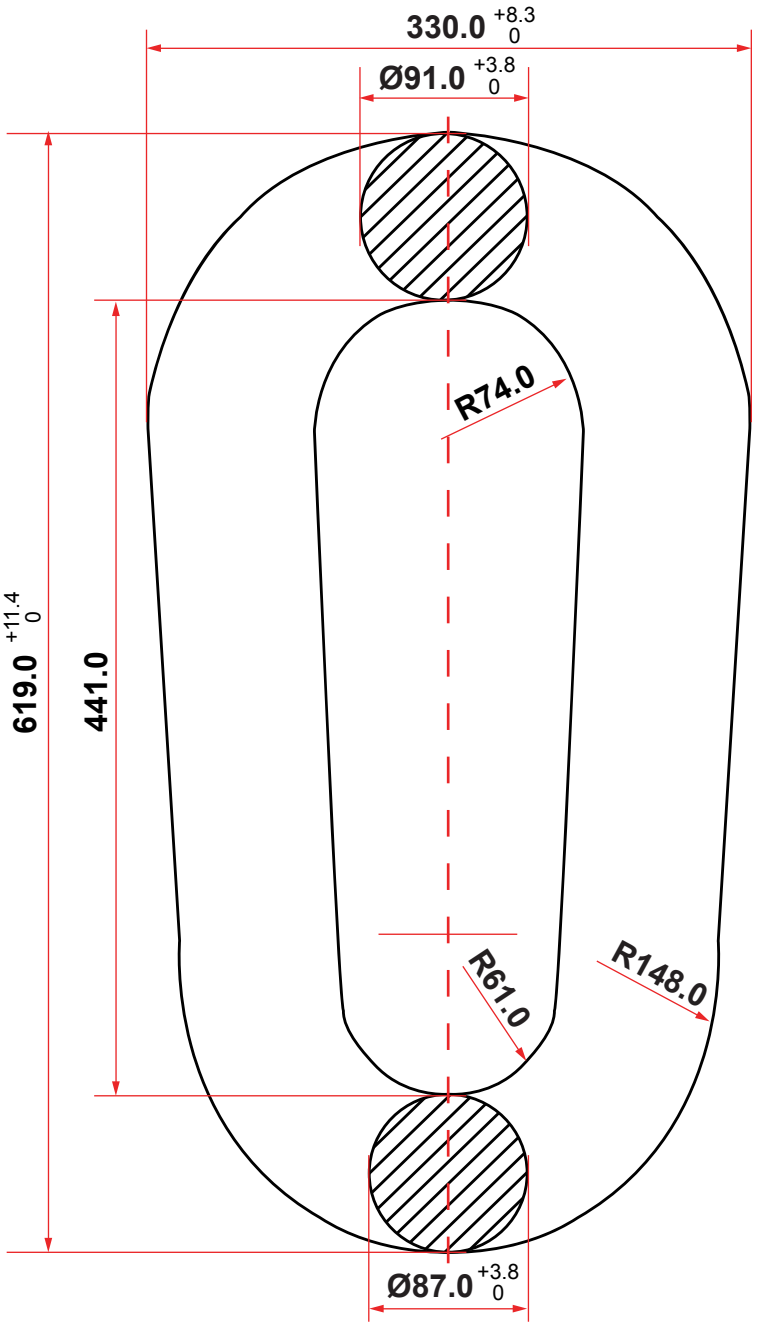


All dimensions in inches and pounds unless otherwise indicated.

TOW PLATE SPECIFICATIONS			
	NO. 1	NO. 2	NO. 3
SHACKLE SIZES	1-1/2" - 2"	2-1/4" - 3"	3-1/2" - 4"
DIMENSIONS	17-1/2" x 16"	22-1/2" x 23"	31" x 31"
WEIGHT	75	202	485
PROOF TEST	300,000	485,000	624,000

Approximate dimensions shown above. Contact us for specific dimensions, as they may differ between manufacturers.

(76MM) PEAR SHAPED RING
WITH ABS CERTIFICATION



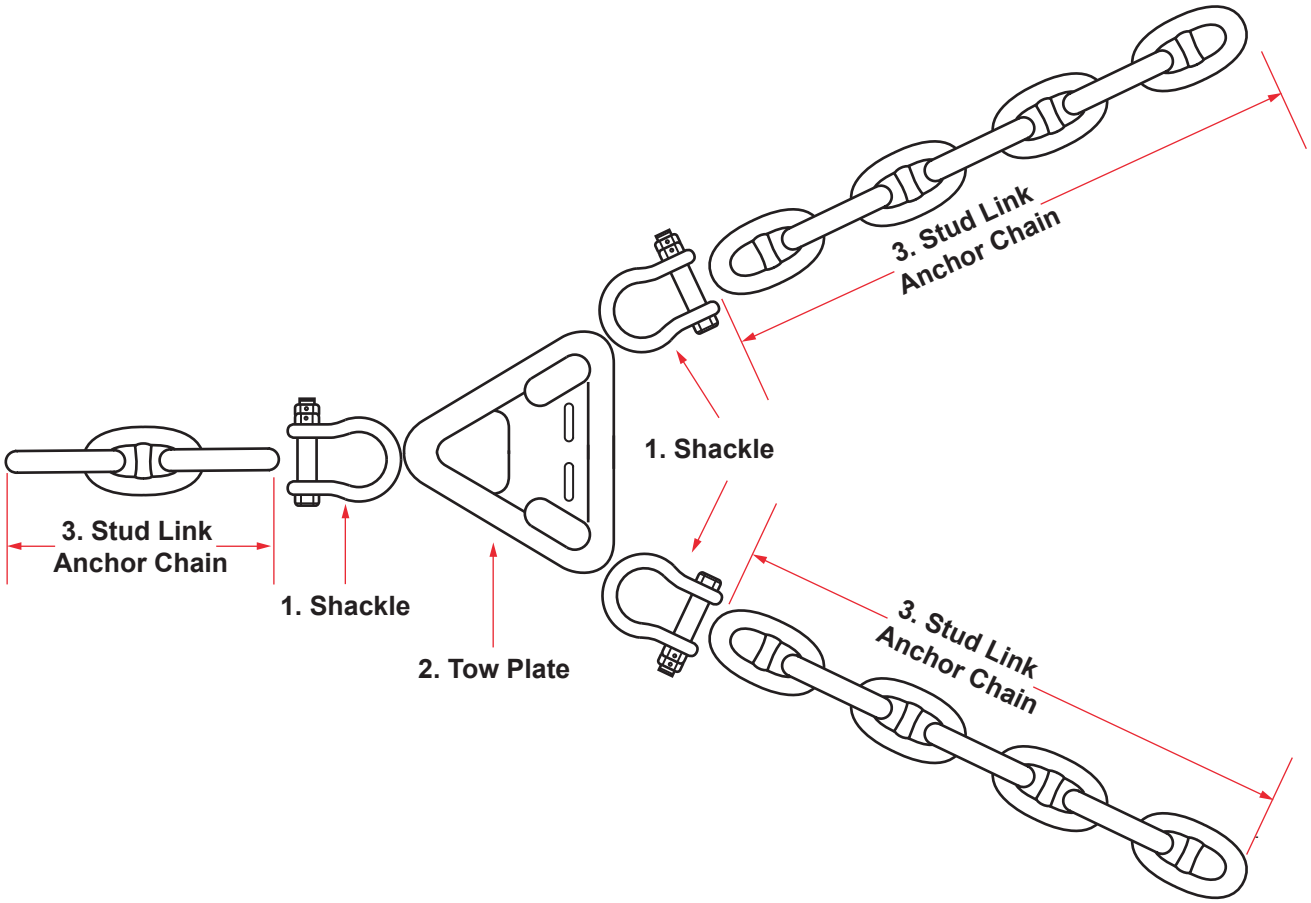
3» (76mm) Pear Shaped Ring ABS Certified

Notes:

1 Weight	160lbs
2. Proof Load	3066.4 kN
3. Break Load	4621.4 kN

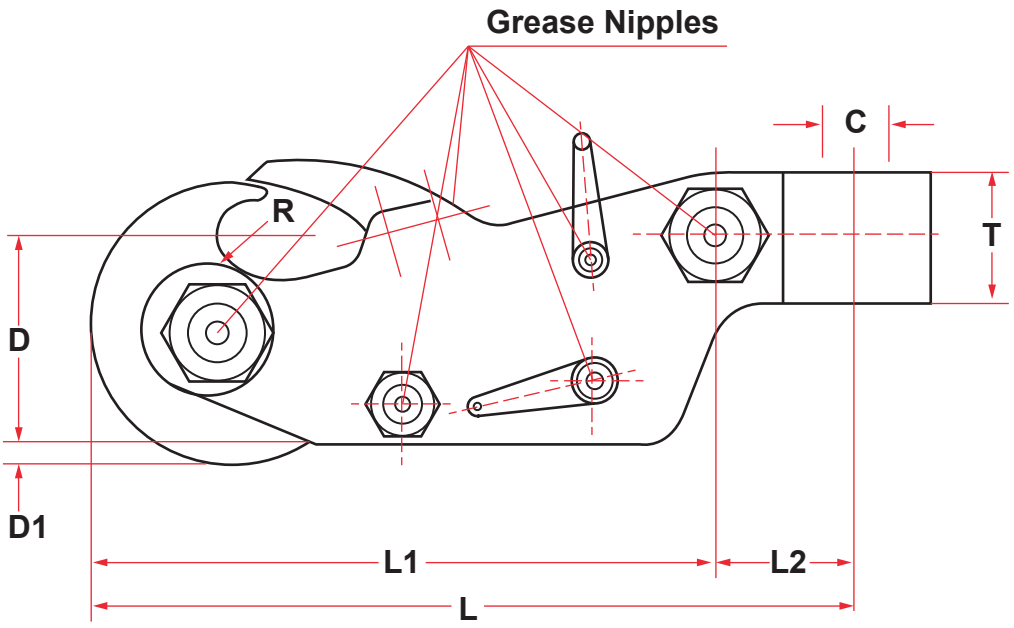
TOWING BRIDAL ASSEMBLY

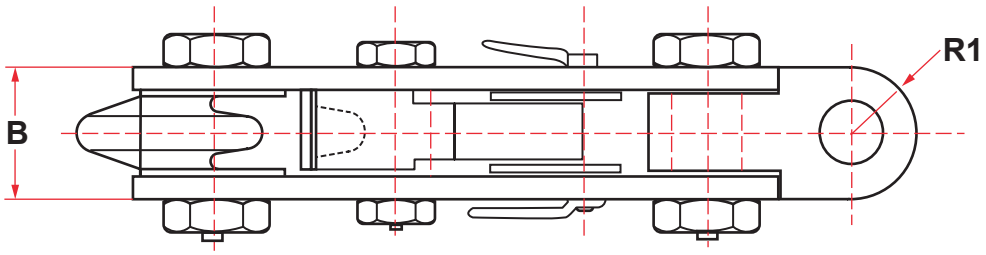
1. SEA-LINK TOWING SHACKLE
2. SEA-LINK TOWING PLATE
3. STUD LINK ANCHOR CHAIN / G3



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DISK TOWING HOOK

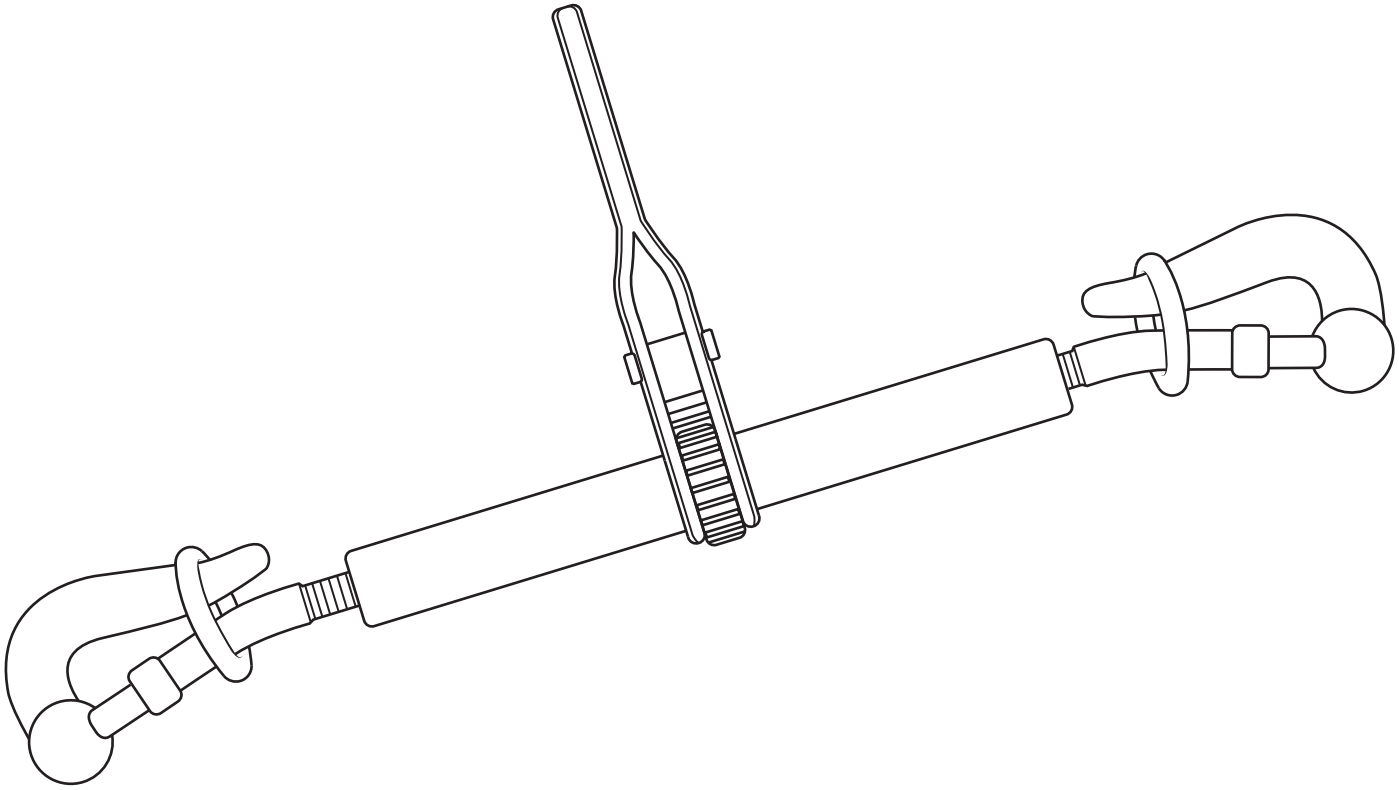




	WEIGHT (KG)	TEST LOAD (KN)	S.W.L. (KN)	B	B1	C	D	D1	H	L	L1	L2	R	R1	R2	T
TYPE 18.25	380	500	250	182	-	80	309	48	-	1115	915	200	75	85	-	180
TYPE 30.45	450	900	450	232	-	100	323	35	-	1190	940	250	75	115	-	200
TYPE 50.65	715	1300	650	262	-	110	380	90	-	1340	1090	250	87.50	125	-	225
TYPE 70.100	1135	2000	1000	292	-	135	490	40	-	1615	1325	290	87.50	140	-	270

PUSH-PULL RATCHETS

FOR CONSTRUCTION AND INDUSTRIAL WORKBOATS... BARGES... CONTAINERSHIP LASHINGS



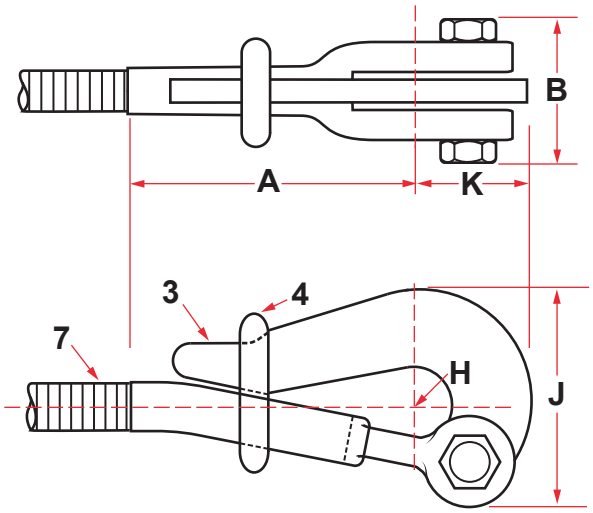
TOWING

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VERTICAL & HORIZONTAL LASHINGS



ANGLE-SHANK PELICAN HOOK ASSEMBLY DIMENSIONS AND LOADING

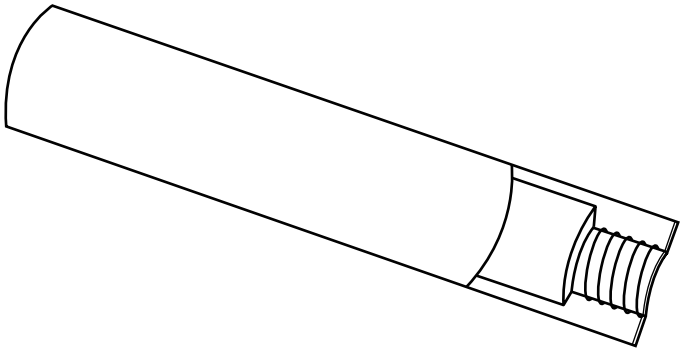
ANGLE SHANK PELICAN HOOK ASSEMBLIES						
SIZE (INCHES)	DIMENSIONS (INCHES)					MINIMUM BREAKING STRENGTH (TONS)
	A	B	H	J	K	
1-1/8	6-1/2	3-5/8	1-5/8	7-1/2	3-3/8	25
1-3/8	8	4	1	6	3-1/4	45

3 - Pelican Hook

4 - Keeper Link

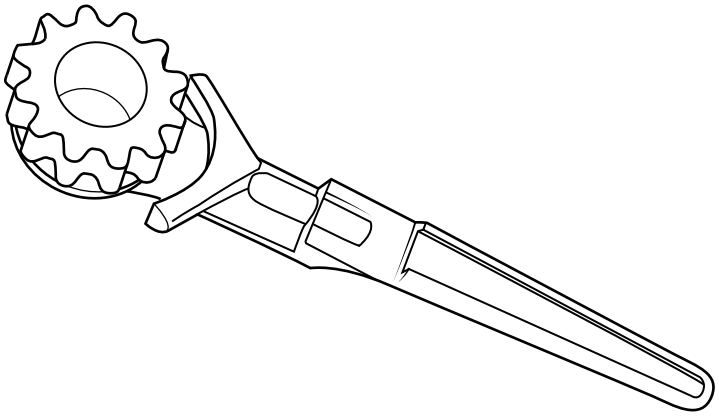
7 - Angle Shank Jaw

RATCHET BARREL



This cutaway barrel picture explains one of the differences between the superior Anchor Marine Ratchet and the common. The Anchor Marine ratchet barrel is made from cold-drawn seamless steel tubing instead of welded pipe. It's 50% stronger and provides a lighter ratchet. Anchor Marine ratchet barrels are made for adjustment ranges from 6" to 60", and for screw diameters (Acme or National Coarse) from 1/2" to 2-1/2".

DOUBLE-ACTING HANDLES



The Anchor Marine Double-Acting Push-Pull Handles have a spring-loaded pawl that assures constant engagement of the pawl in the ratchet sheel (See cutaway illustration). This handle can be used overhead and the pawl will always be in position, which makes it ideal for construction and shipyard uses. Double-acting handles are available in the same sizes and styles as the other Anchor Marine Handles.

CUSTOM DESIGN YOUR OWN PUSH-PULL RACHETS



SHACKLE-TYPE PELICAN HOOK ASSEMBLY



ANGLE SHANK PELICAN HOOK ASSEMBLY



JAW

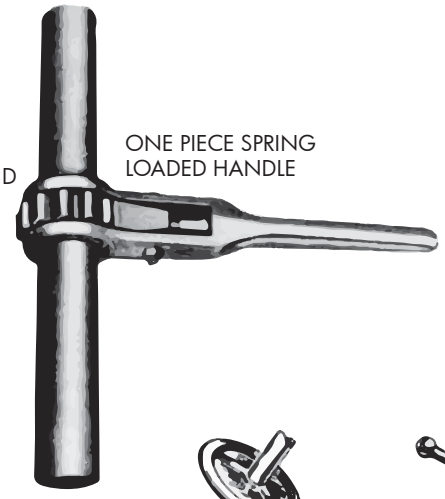


JAW WITH LOCKNUT



WELDED LINK PELICAN HOOK ASSEMBLE

RATCHET AND BARREL



ONE PIECE SPRING LOADED HANDLE

If any of the ratchets shown on previous pages do not meet your needs, here's how you can tailor a ratchet for your own application.

Beginning with the plain threaded barrel, choose the diameter to provide strength you need and the length for the takeup you require.

Next, decide which of the five handles shown applies best. Then select by name the two end fittings from the eleven types shown.

Select the amount of work load in pounds or tons you anticipate and the number of ratchets needed. We will send you a quotation promptly.



HAND SHEEL



VICE TYPE



ALL-STEEL HANDLE



3-PIECE HANDLE



WELDED LINK AND HOOK



SWIVEL OR THREADED SHANK HOOK



EYE AND SHACKLE



EYE AND LINK



EYE



STUB

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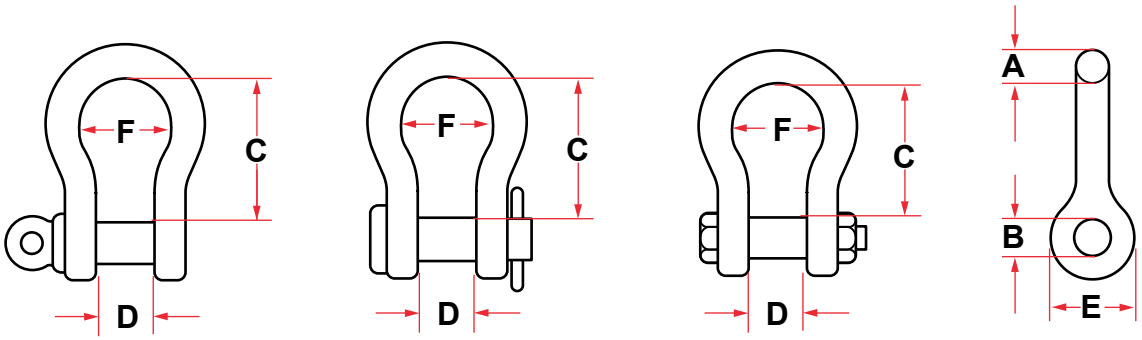
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HARDWARE



ANCHOR PATTERN SHACKLES



HEAT-TREATED, DROP FORGED CARBON STEEL
ANCHOR SHACKLE: SCREW PIN, ROUND PIN, SAFETY BOLT PIN

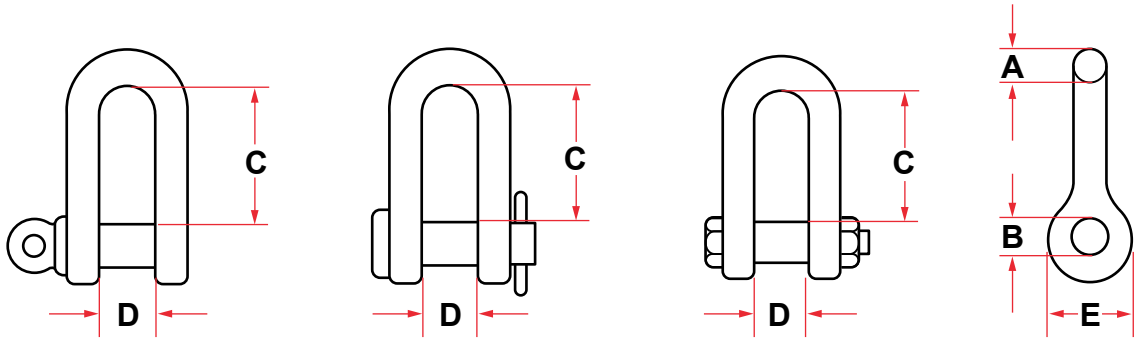
RATED LOAD TONS	DIMENSIONS (INCHES)						WEIGHT IN POUNDS	
	A	B	C	D	E	F	SCREW PIN OR ROUND PIN	SAFETY BOLT
1/3	3/16	1/4	7/8	3/8	9/16	19/32	0.05	
1/2	1/4	5/16	1-1/8	1/2	3/4	3/4	0.12	
3/4	5/16	3/8	1-1/4	9/16	7/8	1	0.18	
1	3/8	7/16	1-7/16	11/16	1	1-1/8	0.3	
1-1/2	7/16	1/2	1-11/16	3/4	1-1/8	1-1/4	0.5	
2	1/2	5/8	1-7/8	13/16	1-3/16	1-5/16	0.75	0.8
3-1/4	5/8	3/4	2-7/16	1-1/16	1-9/16	1-11/16	1.5	1.6
4-3/4	3/4	7/8	3	1-1/4	1-7/8	2	2.16	3.0
6-1/2	7/8	1	3-5/16	1-7/16	2-1/8	2-1/4	3.37	4.0
8-1/2	1	1-1/8	3-3/4	1-11/16	2-3/8	2-5/8	5.3	5.5
9-1/2	1-1/8	1-1/4	4-1/4	1-7/8	2-5/8	3	7.0	8.0
12	1-1/4	1-3/8	4-1/2	2	2-15/16	3-3/8	9.6	11.0
13-1/2	1-3/8	1-1/2	5-1/4	2-1/4	3-5/16	3-5/8	12.6	15.0
17	1-1/2	1-5/8	5-3/4	2-3/8	3-5/8	3-7/8	17.3	19.5
21	1-5/8	1-3/4	6-1/4	2-5/8	3-3/16	4-3/8	21.0	23.0
25	1-3/4	2	7	2-7/8	4-5/16	5	27.8	31.5
35	2	2-1/4	7-3/4	3-1/4	5	5-3/4	41.0	42.0
42	2-1/4	2-1/2	8-3/4	3-7/8	5-1/2	6-1/2	65.0	69.0
55	2-1/2	2-3/4	10	4-1/8	6	7-1/4	83.5	94.0
60	2-3/4	3	11-1/4	4-1/2	6-1/4	8	118.0	121.0
85	3	3-1/4	13	5	6-3/4	9	140.0	146.0
120	3-1/2	3-3/4	15	5-3/4	8-1/2	10-1/8		250.0
150	4	4-1/4	17	6-1/2	9-3/8	10-1/2		360.0
175	4-1/2	4-3/4	19	7-1/4	10	12-1/2		445.0

Sizes 3/16" Thru 1" Available in Stainless Steel Safety Type
NOTES: Minimum breaking strength is six times rated working load.
Furnished in galvanized or self colored finish.

Pins are galvanized after threading.
Shackles can be furnished with complete traceability, proof test certificates, and serial number at slight additional charge.

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Anchor MARINE & INDUSTRIAL SUPPLY, INC.

CHAIN PATTERN SHACKLES



HEAT-TREATED, DROP FORGED CARBON STEEL
CHAIN SHACKLE: SCREW PIN, ROUND PIN, SAFETY BOLT PIN

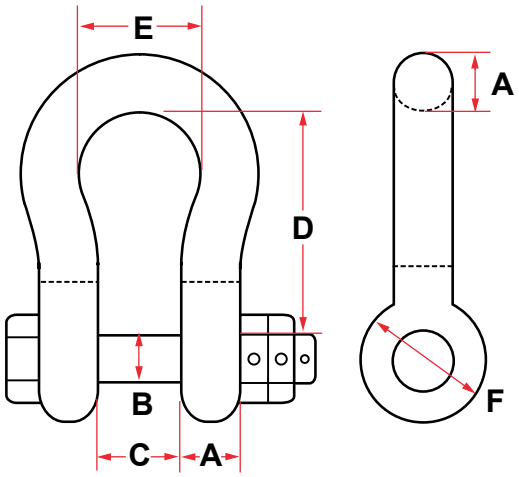
RATED LOAD TONS	DIMENSIONS (INCHES)					WEIGHT IN POUNDS	
	A	B	C	D	E	SCREW PIN OR ROUND PIN	SAFETY BOLT
1/3	3/16	1/4	7/8	3/8	9/16	0.05	
1/2	1/4	5/16	1-1/8	1/2	3/4	0.1	
3/4	5/16	3/8	1-1/4	9/16	7/8	0.18	
1	3/8	7/16	1-7/16	11/16	1	0.25	
1-1/2	7/16	1/2	1-11/16	3/4	1-1/8	0.41	
2	1/2	5/8	1-7/8	13/16	1-3/16	0.61	0.8
3-1/4	5/8	3/4	2-7/16	1-1/16	1-9/16	1.2	1.4
4-3/4	3/4	7/8	3	1-1/4	1-7/8	2.12	2.5
6-1/2	7/8	1	3-5/16	1-7/16	2-1/8	3.28	3.8
8-1/2	1	1-1/8	3-3/4	1-11/16	2-3/8	4.6	5.5
9-1/2	1-1/8	1-1/4	4-1/4	1-7/8	2-5/8	6.3	7.5
12	1-1/4	1-3/8	4-1/2	2	2-15/16	9.25	10.8
13-1/2	1-3/8	1-1/2	5-1/4	2-1/4	3-5/16	12.19	14.3
17	1-1/2	1-5/8	5-3/4	2-3/8	3-5/8	16.15	19.0
21	1-5/8	1-3/4	6-1/4	2-5/8	3-13/16	21.0	23.0
25	1-3/4	2	7	2-7/8	4-5/16	27.0	30.5
35	2	2-1/4	7-3/4	3-1/4	5	39.5	45.0
42	2-1/4	2-1/2	8-3/4	3-7/8	5-1/2	65.0	69.0
55	2-1/2	2-3/4	10	4-1/8	6	72.0	82.0
60	2-3/4	3	11-1/4	4-1/2	6-1/4		98.0
85	3	3-1/4	13	5	6-3/4		135.0
120	3-1/2	3-3/4	15	5-3/4	8-1/2		187.0
150	4	4-1/4	17	6-1/2	9-3/8		360.0
175	4-1/2	4-3/4	19	7-1/4	10		445.0

Sizes 3/16" Thru 1" Available in Stainless Steel Safety Type
NOTES: Minimum breaking strength is six times rated working load.
Furnished in galvanized or self colored finish.

Pins are galvanized after threading.
Shackles can be furnished with complete traceability, proof test certificates, and serial number at slight additional charge.

SEA-LINK HEAVY LIFT INDUSTRIAL AND MARINE TOWING SHACKLES

(MADE WITH PRIDE IN THE USA)



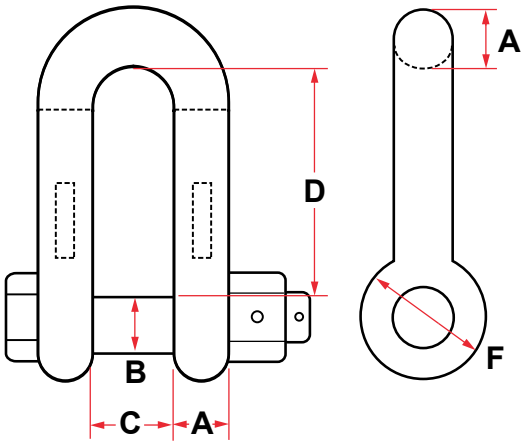
ANCHOR PATTERN — REGULAR JAW

SIZE (A)	WORKING LOAD LIMIT IN TONS	PIN DIAM. IN INCHES (B)	JAW WIDTH INCHES (C)	DIMENSIONS (INCHES)			APPROX. WT. EACH IN POUNDS
				D	E	F	
1-1/2	31	1-3/4	2-3/8	5-3/4	3-7/8	3-1/2	20
1-3/4	41	2	2-7/8	7	5	4-1/4	23
2	52	2-1/4	3-1/4	7-3/4	5-3/4	4-5/8	41
2-1/4	67	2-1/2	4-1/4	9-1/4	6-1/2	5	67
2-1/2	82	2-3/4	4-1/2	10-1/2	7-1/2	5-3/4	88
2-3/4	104	3	4-1/2	11	7-3/4	6-1/8	112
3	123	3-1/4	5	13	8-1/2	6-1/2	133
3-1/2	150	3-3/4	5-3/4	15	9	8-1/4	250
4	200	4-1/4	6-1/2	16	11	9-1/8	358

JAW TOLERANCE
* Shackle Size 1-1/2 - 3 Inches = (+/-.125)
* Shackle Size 3-1/2 - 4 Inches = (+/-.250)

REACH TOLERANCE
* Shackle Size 1-1/2 - 2-1/2 Inches = (+/-.500)
* Shackle Size 2-3/4 - 4 Inches = (+/-.750)

SAFETY
* 5:1 Safety Factor



CHAIN PATTERN — REGULAR JAW

SIZE (A)	WORKING LOAD LIMIT IN TONS	PIN DIAM. IN INCHES (B)	JAW WIDTH INCHES (C)	DIMENSIONS (INCHES)		APPROX. WT. EACH IN POUNDS
				D	F	
1-1/2	31	1-3/4	2-3/8	5-1/2	3-1/2	19
1-3/4	41	2	2-7/8	6-3/4	4-1/4	22
2	52	2-1/4	3-1/4	7-3/4	4-5/8	36
2-1/4	67	2-1/2	4-1/4	9-1/4	5	62
2-1/2	82	2-3/4	4-1/2	10-1/2	5-3/4	86
2-3/4	104	3	4-1/2	11	6-1/8	110
3	123	3-1/4	5	13	6-1/2	125
3-1/2	150	3-3/4	5-3/4	15	8-1/4	218
4	200	4-1/4	6-1/2	16	9-1/8	310

JAW TOLERANCE
* Shackle Size 1-1/2 - 3 Inches = (+/-.125)
* Shackle Size 3-1/2 - 4 Inches = (+/-.250)

REACH TOLERANCE
* Shackle Size 1-1/2 - 2-1/2 Inches = (+/-.500)
* Shackle Size 2-3/4 - 4 Inches = (+/-.750)

SAFETY
* 5:1 Safety Factor

AVAILABLE IN SINGLE NUT OR DOUBLE NUT PINS.

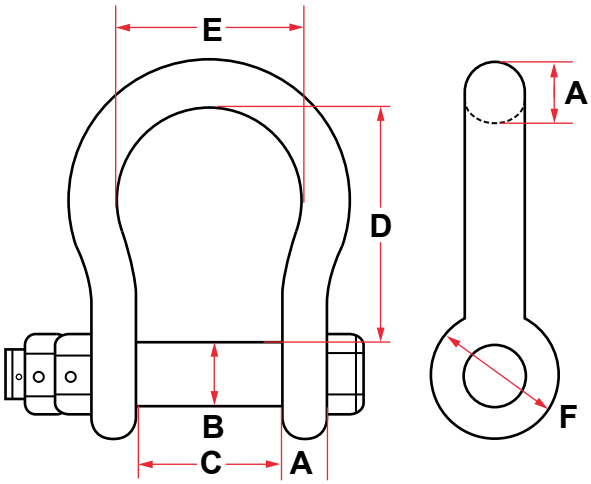
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SEA-LINK HEAVY LIFT INDUSTRIAL AND MARINE TOWING SHACKLES (WIDE JAW)

(MADE WITH PRIDE IN THE USA)

ANCHOR PATTERN — WIDE JAW

SIZE (A)	WORKING LOAD LIMIT IN TONS	PIN DIAM. IN INCHES (B)	JAW WIDTH INCHES (C)	DIMENSIONS (INCHES)			APPROX. WT. EACH IN POUNDS
				D	E	F	
1-1/2	22	1-3/4	4-3/16	8-1/8	6-1/4	3-1/2	28
1-3/4	30	2	5	9-3/8	6-7/8	4-1/4	40
2	40	2-1/4	5-3/4	10-1/2	8-1/8	4-5/8	55
2-1/4	48	2-1/2	6-1/4	11-1/2	8-7/8	5	75
2-1/2	55	2-3/4	6-1/2	12-3/8	9-3/8	5-3/4	106
2-3/4	68	3	7	12-3/4	9-3/4	6-1/8	138
3	80	3-1/4	7-1/4	13	10	6-1/2	157
3-1/2	120	3-3/4	9-1/4	15-1/2	12-1/4	8-1/4	274



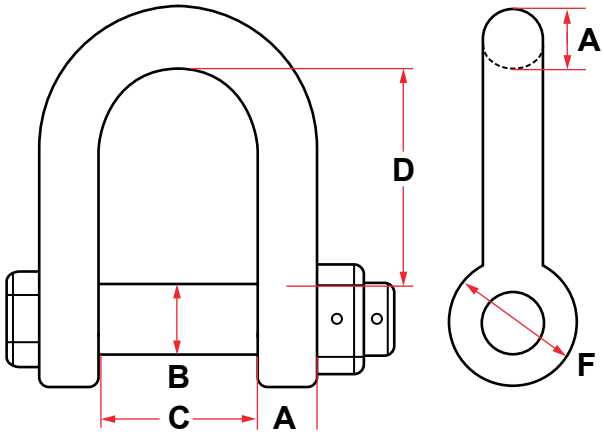
JAW TOLERANCE
* Shackle Size 1-1/2 - 3 Inches = (+/-.125)
* Shackle Size 3-1/2 Inches = (+/-.250)

REACH TOLERANCE
* Shackle Size 1-1/2 - 2-1/2 Inches = (+/-.500)
* Shackle Size 2-3/4 - 3-1/2 Inches = (+/-.750)

SAFETY
* 5:1 Safety Factor

CHAIN PATTERN — WIDE JAW

SIZE (A)	WORKING LOAD LIMIT IN TONS	PIN DIAM. IN INCHES (B)	JAW WIDTH INCHES (C)	DIMENSIONS (INCHES)		APPROX. WT. EACH IN POUNDS
				D	F	
1-1/2	22	1-3/4	4-3/16	8-1/8	3-1/2	28
1-3/4	30	2	5	9-3/8	4-1/4	45
2	40	2-1/4	5-3/4	10-1/2	4-5/8	60
2-1/4	48	2-1/2	6-1/4	11-1/2	5	71
2-1/2	55	2-3/4	6-1/2	12-3/8	5-3/4	112
2-3/4	68	3	7	12--3/4	6-1/8	127
3	80	3-1/4	7-1/4	13	6-1/2	165
3-1/2	120	3-3/4	9-1/4	15-1/2	8-1/4	278



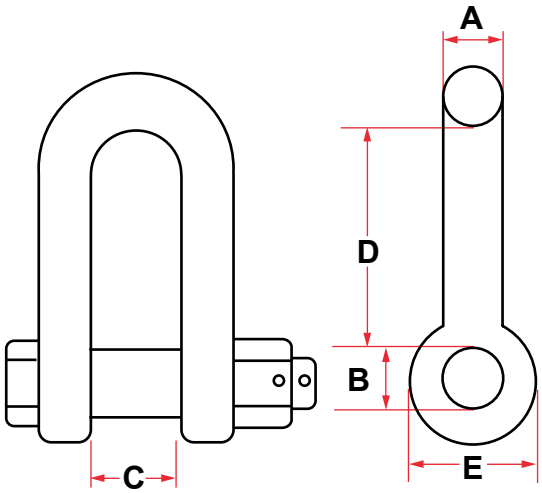
JAW TOLERANCE
* Shackle Size 1-1/2 - 3 Inches = (+/-.125)
* Shackle Size 3-1/2 Inches = (+/-.250)

REACH TOLERANCE
* Shackle Size 1-1/2 - 2-1/2 Inches = (+/-.500)
* Shackle Size 2-3/4 - 3-1/2 Inches = (+/-.750)

SAFETY
* 5:1 Safety Factor

AVAILABLE IN SINGLE NUT OR DOUBLE NUT PINS.

3" SEA-LINK TOWING SHACKLE (ELONGATED)

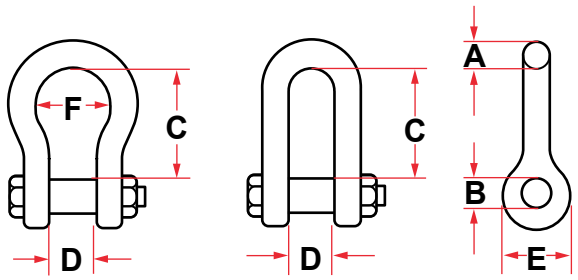


SAFE WORKING LOAD 115 TONS

DIMENSIONS (INCHES)	
A	3
B	3-1/4
C	5-1/2
D	16-1/4

HIGH STRENGTH ALLOY SHACKLES

HEAT-TREATED, DROP FORGED ALLOY STEEL ANCHOR AND CHAIN SHACKLES: SCREW PIN AND SAFETY BOLT PIN

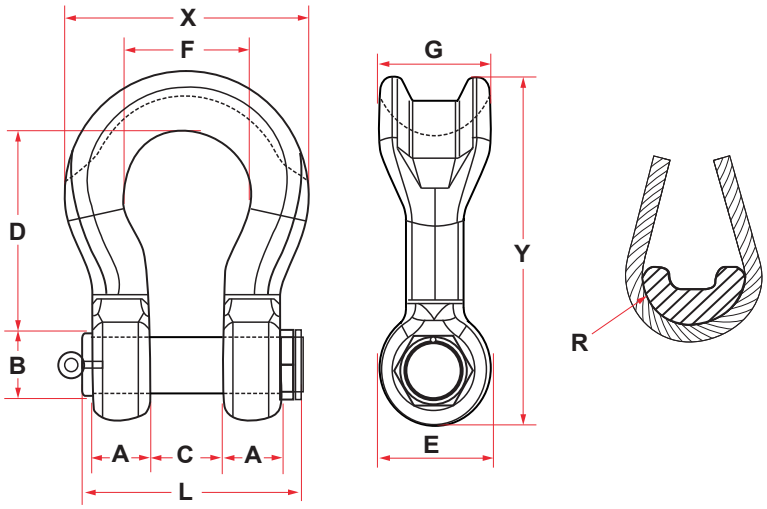


RATED LOAD TONS	DIMENSIONS IN INCHES							WEIGHT IN POUNDS	
	A	B	C		D	E	F	SCREW PIN OR ROUND PIN	SAFETY BOLT
			ANCHOR	CHAIN					
1-1/4	3/8	7/16	1-7/16		21/32	31/32	1-1/32	0.3	
1-3/4	7/16	1/2	1-11/16		23/32	1-1/16	1-5/32	0.5	
2-1/2	1/2	5/8	1-7/8		13/16	1-3/16	1-5/16	0.75	0.84
4	5/8	3/4	2-3/8		1-1/16	1-9/16	1-11/16	1.3	1.8
6	3/4	7/8	2-13/16		1-1/4	1-7/8	2	2.3	2.5
7-1/2	7/8	1	3-5/16		1-7/16	2-1/8	1-9/32	3.5	4.0
10	1	1-1/8	3-3/4		1-11/16	2-3/8	2-11/16	5.0	5.5
11-1/2	1-1/8	1-1/4	4-1/4		1-13/16	2-5/8	2-29/32	7.0	7.5
14	1-1/4	1-3/8	4-1/2		2-1/32	3	3-1/4	9.5	11.0
16	1-3/8	1-1/2	5-1/4		2-1/4	3-5/16	3-1/2	13.0	14.0
20*	1-1/2	1-5/8	3-3/4		2-3/8	3-5/8	3-7/8	17.0	19.0
30	1-1/2	1-5/8	5-3/4	5	2-3/8	3-5/8	3-7/8	19.0	21.0
24*	1-5/8	1-3/4	6-1/4		2-5/8	3-13/16	4-3/8	24.0	26.0
30*	1-3/4	2	7		2-7/8	4-5/16	5	28.0	31.0
40	1-3/4	2	7	5-3/4	2-7/8	4-5/16	5	30.0	34.0
40*	2	2-1/4	7-3/4		3-1/4	5	5-3/4	39.0	42.0
50	2	2-1/4	7-3/4	6-3/4	3-1/4	5	5-3/4	48.0	52.0
60	2-1/4	2-1/2	8-3/4	7-1/8	3-7/8	5-1/2	6-1/2		68.0
80	2-1/2	2-3/4	10-1/2		4-1/8	6	7-1/4		92.0
85*	2-1/2	2-3/4	10	8	4-1/8	6	7-1/4		94.0
95	2-3/4	3	11-1/4	8-1/2	4-1/2	6-1/4	8		121.0
110	3	3-1/4	13	9	5	6-3/4	9		144.0
120*	3	3-1/4	13		5	6-1/2	9		146.0
140	3-1/2	3-3/4	15	10-1/2	5-3/4	8-1/2	10-1/8		250.0
175	4	4-1/4	17	12	6-1/2	9-3/8	10-1/2		360.0
250	4-1/2	4-3/4	19	14-1/2	7-1/4	10	12-1/2		445.0
250*	4-3/4	5-1/8	22-1/2		7-7/8	10-1/2	14-1/8		640.0
300	5	5-1/4	21	21	8	12-1/2	14		620.0
300*	5-1/8	5-3/4	25-1/2		8-1/4	11	15-3/4		810.0
350	5-1/2	5-3/4	2-3	23	8-3/4	13-1/2	15-1/2		990.0
400*	5-3/4	6-1/8	28		8-7/8	12-1/2	17-3/4		1140.0
400	6	6-3/4	26	26	10-1/4	15	17-1/2		1225.0
500*	6-1/8	6-3/4	30-1/2		9-7/8	14	19-5/8		1380.0
500	6-1/2	7-1/4	29	29	11	16	19		1710.0
600	7	7-1/2	31	31	11-1/2	17	20		2030.0
700	7-1/2	8	33	33	12-1/4	18	21-1/2		2605.0
750*	8	8-1/2	32-1/2		13-3/8	17	23		3070.0
800	8	8-1/2	36	36	13-1/2	19	23		2980.0
1000*	9-1/2	10	39		15-1/2	20	29-1/8		5150.0

* Available Size Options
** Various Dimensional Options are available: Please confirm when necessary.
Sizes 3/16" Thru 1" Available in Stainless Steel

NOTES: Minimum breaking strength is five times rated working load. Furnished in galvanized or self colored finish.
Pins are galvanized after threading. Shackles can be furnished with complete traceability, proof test certificates, and serial number at slight additional charge.

WIDE BODY SLING SAVER SHACKLE



Material : Alloy steel quenched and tempered
Safety Facor : 5 times
Finish : Painted
Certificates : 3.1 B Material Manufacturer Proofload.
On Request : 3.1 C Material Certificate DNV, Loyds, ABS, BV etc. MPI & US Inspection

Rounded wide body protects sling from damages.

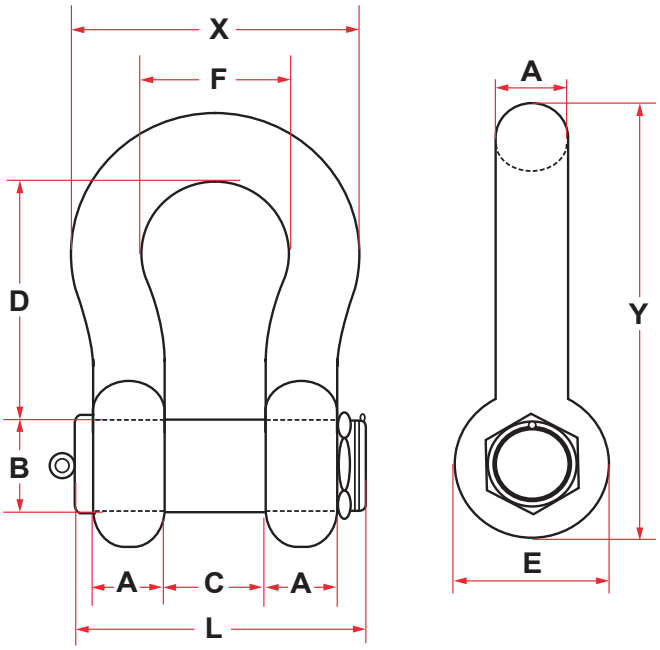
WLL TON	A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)	G (MM)	L (MM)	R (MM)	X (MM)	Y (MM)	WEIGHT (*) KGS
30	35	44	65	180	90	128	80	202	45	209	292	14
40	45	51	84	200	109	140	97	252	53	235	331	21
55	65	56	95	250	130	160	115	295	55	288	400	33
75	75	70	110	300	150	185	120	345	60	334	485	53
125	85	80	140	370	165	220	150	395	80	380	583	84
150	90	95	150	400	200	250	170	420	90	429	638	115
200	105	105	160	480	225	275	205	470	110	484	755	183
250	120	120	180	550	240	300	230	520	125	540	850	255
300	140	134	195	600	280	350	265	580	140	628	947	368
400	160	160	230	620	330	370	320	655	170	689	1035	571
500	170	180	265	680	350	450	340	710	180	779	1125	719
600	180	200	290	720	405	490	370	795	190	849	1213	960
700	210	215	320	780	465	540	400	880	215	957	1330	1350
800	220	230	345	800	465	555	420	925	220	975	1358	1400
900	235	250	370	850	480	585	440	1010	235	1060	1450	2100
1000	235	270	400	850	530	615	460	1050	240	1091	1490	2200
1250	275	300	455	960	570	645	560	1210	285	1205	1695	2800
1550	275	320	485	980	610	680	580	1240	290	1240	1745	3300
1750	310	360	500	1120	660	700	600	1330	310	1346	1860	4700
2000	320	385	520	1140	680	720	620	1350	320	1368	1932	4800
2500	330	400	520	1140	740	730	635	1380	330	1383	1995	5400
3000	340	420	530	1140	760	740	650	1410	340	1413	2025	5800
3500	350	440	540	1140	790	750	670	1480	350	1480	2068	6800

Tolerance ± 5%

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Anchor MARINE & INDUSTRIAL SUPPLY, INC.

BOW SAFTEY PIN SHACKLE

Material : Up to and including 120 T forged high tensile steel. Above 120 T forged high alloy steel.
Safety Factor : 5 times. Generally to U.S. Federal Spec RR-271
Finish : Painted / Galvanised
Certificates : 3.1 B Material Manufacturer
On Request : 3.1 C Material Certificate
Proofload certificate
DNV, Loyds, ABS, BV etc.
MPI & US Inspection

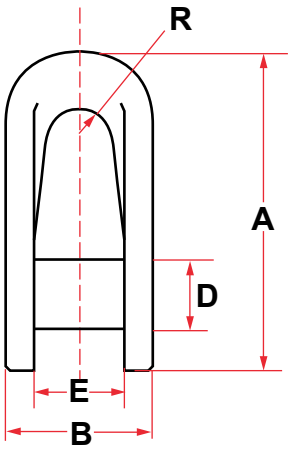


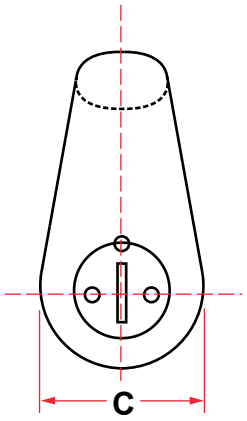
WLL TON	A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)	L (MM)	X (MM)	Y (MM)	WEIGHT KGS
120	89	95	150	380	200	238	420	416	617	110
150	102	108	170	400	230	275	475	479	671	160
200	120	125	180	500	260	290	520	530	813	235
250	125	140	205	540	260	305	560	555	865	285
300	130	150	205	600	305	305	570	565	958	340
400	165	175	230	680	350	326	665	655	1108	560
500	180	185	255	700	370	350	720	710	1158	685
600	195	205	285	700	405	375	815	765	1200	880
700	205	217	310	700	435	400	860	810	1231	980
800	210	217	310	700	435	400	870	820	1236	1100
900	220	230	330	700	465	420	910	860	1268	1280
1000	230	240	350	750	480	420	950	880	1290	1460
1250	278	270	370	780	590	450	1105	1010	1490	2320
1500	280	290	370	800	610	450	1105	1010	1530	2450
1750	300	330	430	950	660	540	1230	1140	1745	3280
2000	320	360	460	1050	680	560	1300	1200	1890	3920

Tolerance ± 5%

MOORING SHACKLES SEA-LINK

(MADE WITH PRIDE IN THE USA.)





TONSBERG TYPE

(PIN STYLE)

NO. SL 90 ST		
A	11-3/8"	290mm
B	4-1/2"	115mm
C	5-1/2"	140mm
D	2-1/2"	65mm
E	3"	76mm
R	1-1/8"	28mm

Breaking Load 90 Tons
Weight: 29 Lbs. 13Kg.

NO. SL 120 ST		
A	13-3/16"	335mm
B	5-3/16'	135mm
C	5-3/4"	145mm
D	2-3/4"	70mm
E	3-7/8'	98mm
R	1-1/8"	28mm

Breaking Load 120 Tons
Weight: 37 Lbs. 16.8Kg.

ALL MODELS OF "SEA-LINK" MOORING SHACKLES ARE MADE OF STAINLESS STEEL

MANDAL TYPE

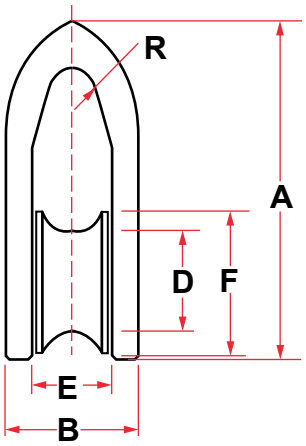
(ROLLER STYLE)

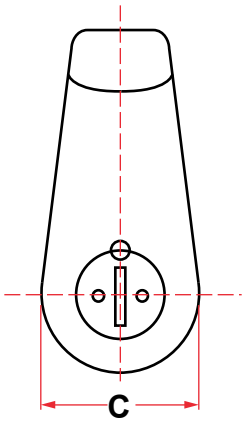
NO. SL 90 SM		
A	11-3/8"	290mm
B	4-1/8"	105mm
C	4-3/4"	122mm
D	2-3/4"	70mm
E	2-3/4"	70mm
F	4-3/4"	121mm
R	1-1/4"	33mm

Breaking Load 90 Tons
Weight: 29 Lbs. 13Kg.

NO. SL 120 SM		
A	11-13/16"	300mm
B	5-3/8"	136mm
C	4-13/16"	125mm
D	2-3/4"	70mm
E	3-3/4"	95mm
F	5-7/16"	138mm
R	1-7/8"	48mm

Breaking Load 120 Tons
Weight: 37 Lbs. 16.8Kg.





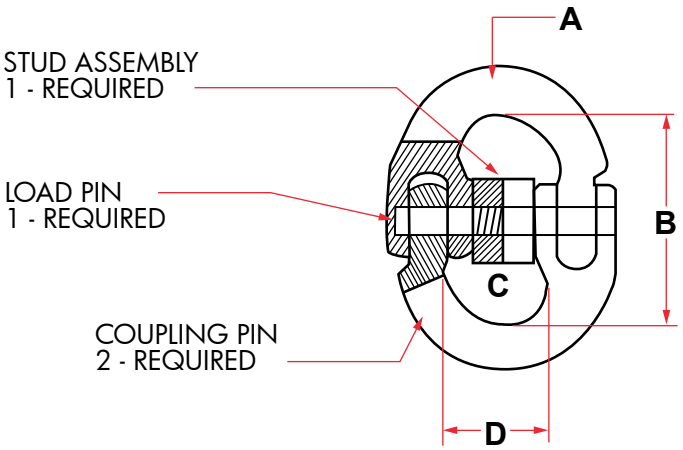
FACTORY CERTIFICATES INCLUDED WITH EVERY "SEA-LINK" MOORING SHACKLES

WWW.ANCHORMARINEHOUSTON.COM

HOUSTON (713) 644-1183 | FAX (713) 644-1185 | TOLL FREE 1 (800) 233-8014 | EMAIL Sales@AnchorMarineHouston.com

Anchor MARINE & INDUSTRIAL SUPPLY, INC.

HAMMERLOK COUPLING LINK



Dependable and easy to use for fast, on-the-job assembly; for attaching chain to master links and eye-type hooks, and installing new body chain in old slings.

CHAIN SIZE (INCHES) **		7/32	9/32	3/8	1/2	5/8	3/4	7/8	1	1-1/4
WORKING LOAD LIMIT (LBS.) *		2100	3500	7100	12000	18100	28300	34200	47700	72300
CODE NO.		664220	664228	664241	664250	664262	664275	664287	664300	664325
DIMENSIONS (INCHES)	A	1/4	5/16	1/2	11/16	13/16	15/16	1-3/64	1-1/4	1-17/32
	B	1-13/32	1-13/16	2-13/32	3-3/8	4-1/16	4-25/32	5-1/8	5-3/4	6-13/16
	C	31/64	5/8	53/64	1-7/32	1-1/2	1-51/64	1-29/32	2-3/16	2-5/8
	E **	13/32	1/2	3/4	1	1-1/4	1-1/2	1-3/4	2	2-1/4
	MAX. WIDTH	1-5/16	1-11/16	2-7/32	3-1/8	3-11/16	4-5/16	5-5/16	6-3/16	7-3/4
WEIGHT EACH (LBS.)		0.12	0.23	0.65	1.50	2.60	3.80	6.30	9.30	17.30

* Diameter of stock of largest link intended to be used with Hammerlok.
** Caution: This working load limit should not be exceeded.

LOAD BINDERS

CAUTION: NEVER EXCEED THE WORKING LOAD LIMIT.

FAILURE TO FOLLOW WARNINGS AND INSTRUCTIONS CAN RESULT IN SERIOUS INJURY OR DEATH. READ IMPORTANT WARNING AND INFORMATION PRECEDING FITTINGS SECTION.

- IMPROPER OPERATION OF LOAD BINDERS CAN RESULT IN SERIOUS INJURY OR DEATH.
- Never exceed the Working Load Limit.
- Read the following warnings, as well as the warnings on each page of this catalog.
- Do not operate the binder while you or anyone else is on the load. You might slip or fall, risking serious injury or death.
- When applying the binder, always position the load binder so the handle is tightened in a downward manner. Failure to do so may result in a sudden snapping back of the lever which might result in serious injury or death.
- Load binders are designed to be tightened to the approximate Working Load Limit by a substantial hand effort. Do not use a hand extension. Extensions can severely damage the binder system and result in serious injury or death.
- The operator should at all times use the load binder from a firm standing position that will ensure protection for himself as well as those in the immediate vicinity.
- Load binders are a form of machinery and require periodic inspection and maintenance. Inspect for wear, deformation, cracks, nicks or gouges before using. Replace if damaged.
- Load binders should be periodically lubricated to give optimum performance and reduce friction losses.
- Consult the U.S. Government Printing Office for the Federal Motor Carrier Safety Regulations for additional important information, especially S 393.9 (relating to safe loading), S393.102 (relating to protection against shifting cargo) and S393.102 (relating to strength securement systems).





STANDARD LOAD BINDERS, LEVER TYPE

- In releasing lever type binders, be sure no one is positioned to be struck by the handle which may release suddenly.
- If there is a possibility for a relaxation of the chain when the binder is in the locked or "cover over" position, the handle should be secured to the binding chain by securely wrapping the loose end of the chain around the handle. Whenever possible, secure the handle down with a positive retaining method.

Forged steel, heat treated, painted red.

SIZE	WORKING LOAD LIMIT (LBS.)	BREAKING STRENGTH (LBS.)	APPROX. WT. EACH (LBS.) *	TAKE-UP
1-1/4"	2600	7750	3.1	2-1/2"
5/16" - 3/8"	5400	19000	8.25	3-3/4"
3/8" - 1/2"	9200	27600	11.5	4-1/4"

RATCHET LOAD BINDERS

Forged steel, heat treated, painted red.

SIZE	WORKING LOAD LIMIT (LBS.)	BREAKING STRENGTH (LBS.)	APPROX. WT. EACH (LBS.) *	TAKE-UP
5/16" - 3/8"	5400	19000	11.25	8"
3/8" - 1/2"	9200	27600	13.25	8"

* Listed for comparison only. Never exceed the Working Load Limit.

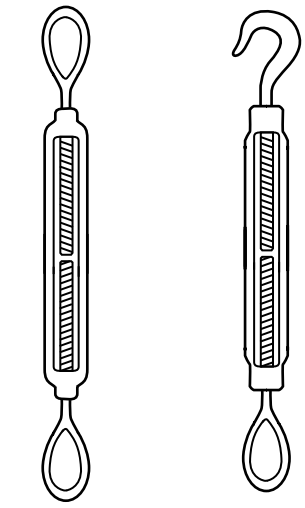
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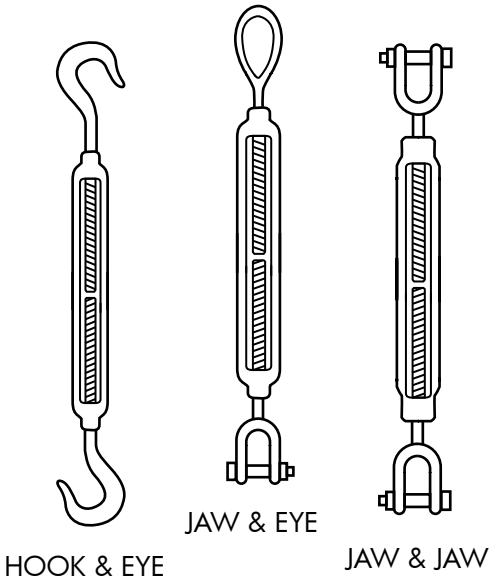
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Anchor MARINE & INDUSTRIAL SUPPLY, INC.

TURNBUCKLES

ACCORDING TO FEDERAL SPECIFICATION FF-T-79LB





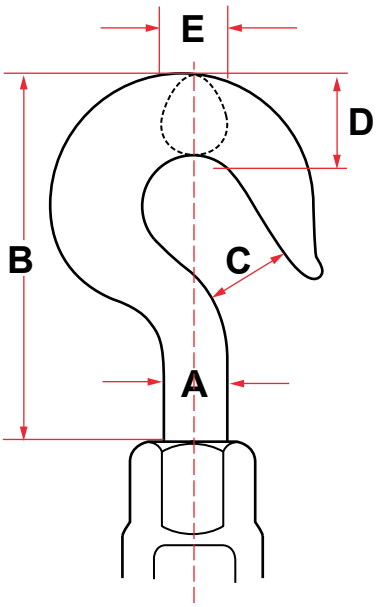
DIAMETER (A) AND TAKEUP (B) INCHES	AVERAGE OVERALL LENGTH (C) IN CLOSED POSITION INCHES	WEIGHT POUNDS EACH		
		WITH EYE OR HOOKS	JAW AND EYE	JAW AND JAW
1/4 x 4	8-1/4	0.31	0.33	0.35
5/16 x 4-1/2	9-9/16	0.50	0.53	0.58
3/8 x 6	11-7/8	0.79	0.86	0.93
1/2 x 6	13-5/16	1.42	1.54	1.66
9	16-5/16	1.83	1.95	2.07
12	19-5/16	2.01	2.19	2.37
5/8 x 6	15-1/2	2.61	2.81	3.02
9	18-1/2	2.81	3.01	3.22
12	21-1/2	3.12	3.32	3.53
18	28-1/8	6.00	6.20	6.40
3/4 x 6	17-1/16	3.60	3.87	4.18
9	20-1/8	4.69	4.98	5.27
12	23-1/16	5.07	5.36	5.65
18	29-1/16	6.21	6.51	6.81
7/8 x 12	24-5/8	8.10	8.75	9.40
18	30-5/8	9.93	10.60	11.20
1 x 6	20-5/8	8.75	9.15	9.50
12	26-5/8	10.40	11.20	12.10
18	32-5/8	13.20	14.10	14.90
24	38-5/8	15.90	16.80	17.60
1-1/4 x 12	29-7/8	19.00	20.50	22.00
18	35-7/8	23.40	24.90	26.40
24	41-7/8	27.80	29.30	30.90
1-1/2 x 12	32-3/8	26.10	28.20	30.30
18	38-3/8	37.50	39.60	41.80
24	44-3/8	43.10	45.20	47.30
36	58-3/4	52.60	54.80	57.00
1-3/4 x 18	41-3/4	45.00	48.80	52.40
24	47-3/4	52.20	56.00	59.60
2 x 24	51-3/4	89.80	94.60	100.00
2-1/2 x 24	58-1/2	140.00	150.00	161.00
2-3/4 x 24	61-1/2	194.00	200.00	216.00

When Ordering Be Sure to Specify:
1st – Diameter of thread.
2nd – Length of take-up.
3rd – Self colored or galvanized.
4th – The type of end fittings desired.

Larger sizes available per request.
Lock nuts available per request.
Jaw end fittings sizes 1/4" through 5/8" have bolts and nuts.
Jaw end fittings sizes 3/4" through 2-3/4" have pins and cotters.
Large jaw sizes available with bolts and nuts upon special request.

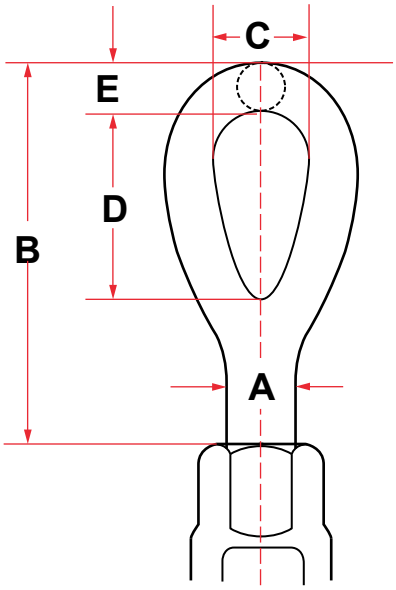
TURNBUCKLES

HOOK



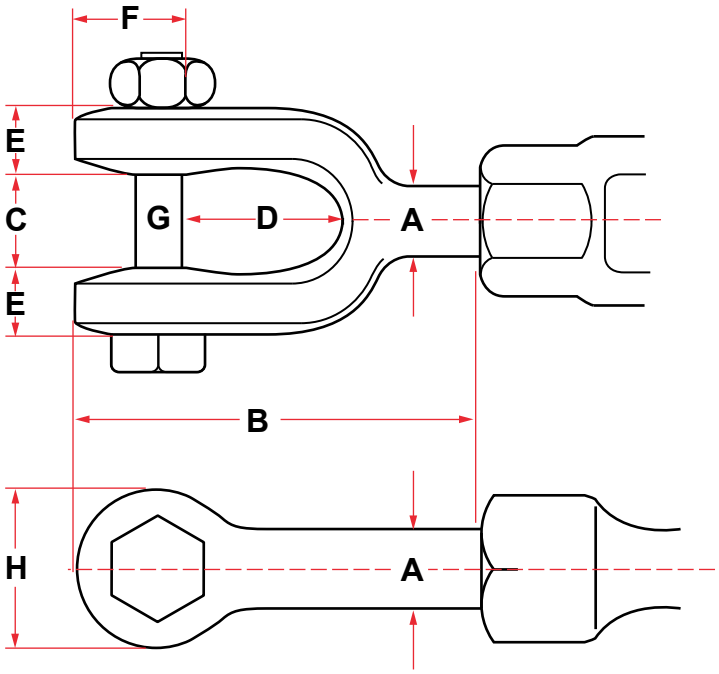
DIMENSIONS (INCHES)					RATED LOAD (LBS.)
A	B	C	D	E	
1/4	1-5/8	7/16	3/8	1/4	400
5/16	1-29/32	1/2	7/16	5/16	700
3/8	2-9/32	9/16	17/32	3/8	1000
1/2	2-27/32	21/32	11/16	1/2	1500
5/8	3-17/32	27/32	27/32	5/8	2250
3/4	4-5/16	31/32	1	3/4	3000
7/8	5	1-1/8	1-3/16	7/8	4000
1	5-11/16	1-1/4	1-3/8	1	5000
1-1/4	6-29/32	1-1/2	1-1/2	1-1/16	6500
1-1/2	8-11/16	1-7/8	1-3/4	1-5/16	7500

EYE



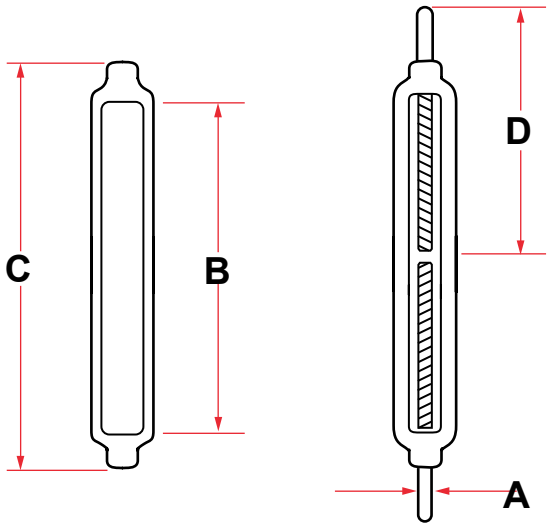
DIMENSIONS (INCHES)					RATED LOAD (LBS.)
A	B	C	D	E	
1/4	1-25/32	11/32	25/32	7/32	500
5/16	2-3/16	7/16	15/16	9/32	800
3/8	2-9/16	17/32	1-1/8	11/32	1200
1/2	3-7/32	23/32	1-7/16	7/16	2200
5/8	3-7/8	7/8	1-3/4	1/2	3500
3/4	4-11/16	1	2-1/8	5/8	5200
7/8	5-1/4	1-1/4	2-3/8	3/4	7200
1	6-3/8	1-7/16	3	7/8	10000
1-1/4	7-3/4	1-13/16	3-9/16	1-1/8	15200
1-1/2	8-5/8	2-1/8	4-1/8	1-1/4	21400
1-3/4	10	2-3/8	4-11/16	1-1/2	28000
2	12-1/8	2-11/16	5-3/4	1-3/4	37000
2-1/2	13-9/16	3-1/8	6-1/2	2	60000
2-3/4	15	3-1/4	7	2-1/4	75000

JAW



DIMENSIONS (INCHES)								RATED LOAD (LBS.)
A	B	C	D	E	F	G	H	
1/4	1-5/8	13/32	5/8	9/32	1/2	1/4	5/8	500
5/16	2	15/32	7/8	9/32	1/2	1/4	11/16	800
3/8	2-3/16	1/2	7/8	5/16	19/32	5/16	13/16	1200
1/2	2-3/4	5/8	1-1/16	13/32	3/4	3/8	1	2200
5/8	3-1/2	3/4	1-5/16	1/2	1-1/32	1/2	1-5/16	3500
3/4	4-1/8	15/16	1-1/2	9/16	1-9/32	5/8	1-5/8	5200
7/8	4-27/32	1-1/8	1-3/4	11/16	1-15/32	3/4	1-7/8	7200
1	5-17/32	1-3/16	2-1/16	25/32	1-21/32	7/8	2-1/8	10000
1-1/4	7-3/16	1-3/4	2-13/16	1	2-3/32	1-1/8	2-5/8	15200
1-1/2	7-7/8	2-1/16	2-13/16	1-1/16	2-15/32	1-3/8	3-1/8	21400
1-3/4	9-3/8	2-1/8	3-3/8	1-1/4	2-29/32	1-5/8	3-1/2	28000
2	10-7/8	2-1/2	3-11/16	1-9/16	3-17/32	2	4-3/16	37000
2-1/2	13-11/16	2-7/8	4-7/16	1-9/16	4-5/8	2-1/4	5-5/8	60000
2-3/4	15	3-1/2	4-3/16	1-5/8	5-3/8	2-3/4	6-1/2	75000

TURNBUCKLES



BODY ONLY WITH STUBS

DROP FORGED

WITH STUBS AND BODY ONLY

Meets Federal Specifications FF-T-7916

DIAMETER (A) AND TAKEUP (B) INCHES	DIAMETER (INCHES)		RATED LOAD (LBS.)	WEIGHT EACH ESTIMATED (LBS.)	
	C	D		BODY ONLY	WITH STUDS
1/4 x 4	4-3/4	5	500	0.15	0.28
5/16 x 4-1/2	5-7/16	6	800	0.19	0.39
3/8 x 6	7-1/8	8	1200	0.44	0.80
1/2 x 6	7-1/2	8	2200	0.78	1.50
1/2 x 9	10-1/2	9-1/2	2200	0.68	1.63
1/2 x 12	13-1/2	11	2200	0.85	1.90
5/8 x 6	8	8	3500	1.05	2.35
5/8 x 9	10-7/8	9-1/2	3500	1.18	2.63
5/8 x 12	13-7/8	11	3500	1.43	3.08
3/4 x 6	8-1/4	8-1/2	3500	1.60	3.60
3/4 x 9	11-1/4	9-1/2	5200	1.56	3.76
3/4 x 12	14-1/4	11	5200	2.08	4.68
3/4 x 18	20-1/4	14-1/2	5200	2.64	5.74
7/8 x 6	8-5/8	9	5200	2.25	5.25
7/8 x 12	14-5/8	11	5200	2.70	6.35
7/8 x 18	20-5/8	14-1/2	5200	3.80	8.30
1 x 6	9	9-1/2	7200	2.75	5.60
1 x 12	15	12-1/2	7200	3.93	8.93
1 x 18	21	15-1/2	7200	5.28	11.33
1 x 24	27	19	10000	7.38	14.53

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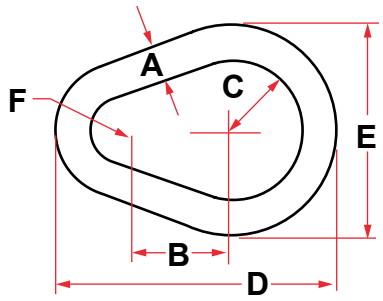


TURNBUCKLES

DIAMETER (A) AND TAKEUP (B) INCHES	DIAMETER (INCHES)			WEIGHT EACH ESTIMATED (LBS.)	
	C	D	RATED LOAD (LBS.)	BODY ONLY	WITH STUDS
1-1/8 x 6	9	9-1/2	12400	2.75	7.60
1-1/4 x 6	9-3/4	10	15200	5.00	11.50
1-1/4 x 12	15-1/8	13	15200	5.40	13.60
1-1/4 x 18	21-1/8	15-1/2	15200	8.25	18.15
1-1/4 x 24	27-1/8	19	15200	10.17	21.87
1-3/8 x 6	9-3/4	10-1/4	18000	5.97	13.87
1-1/2 x 6	10-1/2	10-1/4	21400	7.00	17.20
1-1/2 x 12	15-3/4	13	21400	8.44	20.44
1-1/2 x 18	21-3/4	16	21400	11.56	26.16
1-1/2 x 24	27-3/4	19	21400	13.69	31.69
1-5/8 x 6	10-1/2	10-1/2	25000	7.00	20.50
1-3/4 x 6	11-1/4	11	28000	11.00	25.00
1-3/4 x 18	22-3/8	17	28000	16.38	35.78
1-3/4 x 24	28-3/8	20	28000	21.25	49.90
1-7/8 x 6	12	11-1/2	32000	15.00	33.00
2 x 6	12	11-1/2	37000	15.00	35.00
2 x 24	29	20	37000	27.50	50.30
2-1/4 x 6	13-1/2	13	48000	25.00	49.00
2-3/8 x 6	13-1/2	13	54000	25.00	53.00
2-1/2 x 6	13-1/2	13	60000	25.00	57.00
2-1/2 x 24	31-1/2	21	60000	54.00	110.00
2-3/4 x 6	16-1/2	16	75000	50.00	90.00
2-3/4 x 24	31-1/2	22	75000	54.00	128.00
3 x 6	16-1/2	16	96000	50.00	105.00
3-1/4 x 6	16-1/2	16	122000	50.00	120.00
3-1/2 x 6	16-1/2	16	122000	60.00	135.00
4 x 6	18	17	167800	95.00	225.00
4-1/2 x 9	22-1/2	19	233800	155.00	325.00

ALLOY PEAR SHAPE LINK

- Quenched & Tempered Alloy Steel
- Unless noted otherwise, each link is individually proof tested to values shown on the certificate.
- Each link is shipped with a proof test certificate.
- Sizes 1" and under are drop forged. Sizes over 1" are welded and magnetic particle inspected.

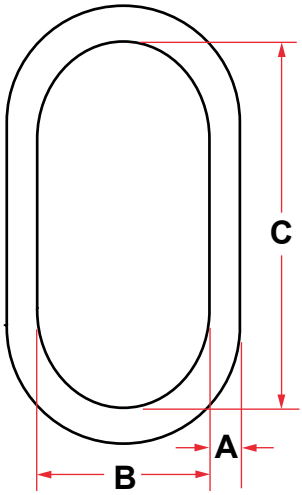


Never Exceed Working Load Limit.

SIZE A (INCHES)	WORKING LOAD LIMIT (LBS.)	PROOF LOAD (LBS.)	WEIGHT EACH (LBS.)	DIMENSIONS (INCHES)				
				B	C	D	E	F
1/2	7000	14000	0.55	1.50	1.00	4.00	3.00	0.50
5/8	9000	18000	1.10	1.88	1.25	5.00	3.75	0.63
3/4	12300	24600	1.76	2.25	1.50	6.00	4.50	0.75
7/8	14000	28000	2.82	2.63	1.75	7.00	5.25	0.88
1	24360	48700	4.22	3.00	2.00	8.00	6.00	1.00
1-1/8	30600	61200	6.25	3.38	2.25	8.75	6.75	1.13
1-1/4	36200	72400	8.25	3.75	2.50	10.00	7.50	1.25
1-3/8	43000	86000	11.25	4.13	2.75	11.00	8.25	1.38
1-1/2	54300	113200	14.25	4.50	3.00	12.00	9.00	1.50
1-5/8	62600	125200	18.50	4.88	3.25	13.00	9.75	1.63
1-3/4	84900	169800	22.50	5.25	3.50	14.00	10.50	1.75
1-7/8	95800	191600	29.00	5.63	3.75	15.00	11.25	1.88
2	102600	205200	34.00	6.00	4.00	16.00	12.00	2.00
2-1/4	143100	289200	48.00	6.75	4.50	18.00	13.50	2.25
2-1/2	160000	320000	66.00	7.50	5.00	20.00	15.00	2.50
2-3/4	216900	433800	88.00	8.25	5.50	22.00	16.50	2.75
3	228000	456000	114.00	9.00	6.00	24.00	18.00	3.00
3-1/4	262200	524400	146.00	9.75	6.50	26.00	19.50	3.25
3-1/2	279000	558000	181.00	10.50	7.00	28.00	21.00	3.50
4	373000	746000	271.00	12.00	8.00	32.00	24.00	4.00

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ALLOY MASTER LINK



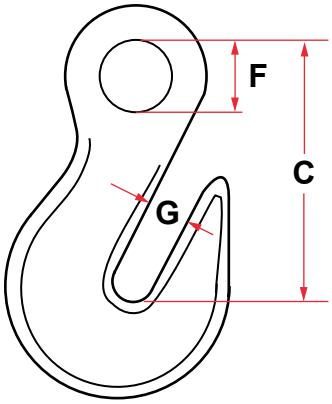
- Quenched & Tempered Alloy Steel
- Unless noted otherwise, each link is individually proof tested to values shown on the certificate. Proof tested according to ASTM A952 to avoid localized point loading.
- Each link is shipped with a proof test certificate.
- Sizes 2" and under are drop forged. Sizes over 2" are welded and magnetic particle inspected.

Never Exceed Working Load Limit.

SIZE A (INCHES)	WEIGHT (LBS.)			DIMENSIONS (INCHES)	
	WORKING LOAD LIMIT	PROOF LOAD	WEIGHT EACH	B	C
1/2	7000	14000	0.82	2.50	5.00
5/8	9000	18000	1.52	3.00	6.00
3/4	12300	24600	2.07	2.75	5.50
1	24360	48700	4.85	3.50	7.00
1-1/4	36200	72400	9.57	4.38	8.75
1-1/2	54300	113200	16.22	5.25	10.50
1-3/4	84900	169800	25.22	6.00	12.00
2	102600	205200	37.04	7.00	14.00
2-1/4	143100	289200	54.10	8.00	16.00
2-1/2	160000	320000	67.75	8.00	16.00
2-3/4	216900	433800	87.70	9.50	16.00
3	228000	456000	115.00	9.00	18.00
3-1/4	262200	524400	145.00	10.00	20.00
3-1/2	279000	558000	200.00	12.00	24.00
3-3/4	336000	672000	198.00	10.00	20.00
4	373000	746000	228.00	10.00	20.00
4-1/4	354000	708000	302.00	12.00	24.00
4-1/2	360000	720000	345.00	14.00	28.00
4-3/4	389000	778000	436.00	14.00	28.00
5	395000	790000	516.00	15.00	30.00

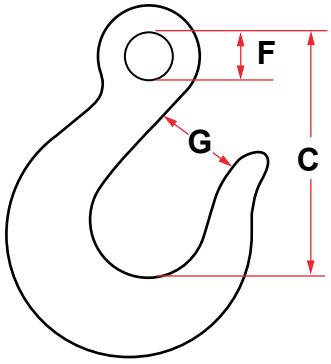
CHAIN HOOKS

EYE GRAB HOOK



SIZE OF CHAIN (INCHES)	RATED LOAD (LBS.)			APPROXIMATE DIMENSIONS (INCHES)			WEIGHT POUNDS EACH
	LOW CARBON	HIGH TEST	LOW ALLOY	C	F	G	
1/4	1250	2600	3250	1-31/32	1/2	11/32	0.28
5/16	1900	3900	5000	2-1/4	9/16	7/16	0.45
3/8	2650	5400	6600	2-9/16	21/32	1/2	0.79
7/16	3500	7200	8750	2-15/16	3/4	9/16	1.19
1/2	4500	9200	11250	3-3/8	7/8	21/32	1.75
5/8	6900	11500	16500	4-3/32	1-1/16	25/32	3.25
3/4		18500	27000	5-5/32	1-3/8	15/16	5.94
7/8		24000	35000	5-29/32	1-9/16	1-1/16	9.17
1		30000	45000	6-23/32	1-13/16	1-3/16	13.83

EYE SLIP HOOK



SIZE OF CHAIN (INCHES)	RATED LOAD (LBS.)			APPROXIMATE DIMENSIONS (INCHES)			WEIGHT POUNDS EACH
	LOW CARBON	HIGH TEST	LOW ALLOY	C	F	G	
1/4	1250	2600	3250	2-17/32	1/2	15/16	0.40
5/16	1900	3900	5000	2-29/32	5/8	1-1/16	0.70
3/8	2650	5400	6600	3-5/16	23/32	1-5/16	1.00
7/16	3500	7200	8750	3-7/8	13/16	1-9/16	1.56
1/2	4500	9000	11250	4-9/32	15/16	1-11/16	2.31
5/8	6900	10000	15000	5-7/32	1-1/8	2	3.78
3/4		12500	19250	5-25/32	1-3/8	2-1/8	6.56
7/8		17250	26000	7-5/32	1-9/16	2-3/4	10.42
1		22700	34000	8-3/32	1-13/16	3	14.33

RATED LOAD SHOULD NOT BE EXCEEDED

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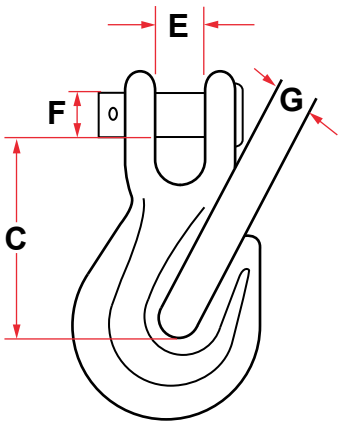
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CHAIN HOOKS

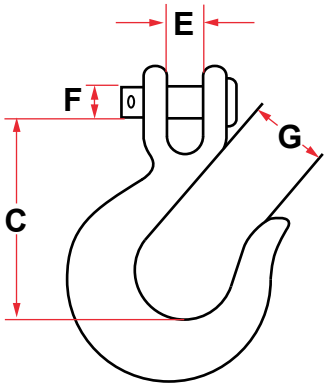
CLEVIS GRAB HOOK

SIZE OF CHAIN (INCHES)	RATED LOAD (LBS.)			APPROXIMATE DIMENSIONS (INCHES)				WEIGHT POUNDS EACH
	HIGH TEST	TRANSPORT	LOW ALLOY	C	E	F	G	
1/4	2600	3150	3600	1-13/16	7/16	3/8	11/32	0.36
5/16	3900	4700	5400	2-5/32	1/2	7/16	7/16	0.60
3/8	5400	6600	7500	2-15/32	19/32	15/32	1/2	1.00
7/16	7200	8750	10000	2-25/32	21/32	9/16	9/16	1.31
1/2	9200	11300	12750	3-7/32	3/4	5/8	21/32	2.06
5/8	12750	16500	19000	4-3/32	29/32	3/4	25/32	4.25
3/4	18500		27000	4-5/8	15/16	7/8	15/16	7.19



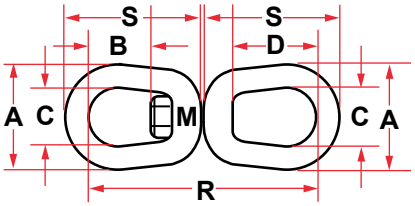
CLEVIS SLIP HOOK

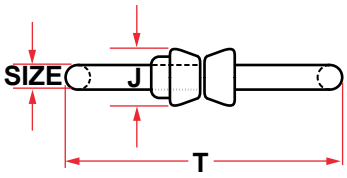
SIZE OF CHAIN (INCHES)	RATED LOAD (LBS.)			APPROXIMATE DIMENSIONS (INCHES)				WEIGHT POUNDS EACH
	HIGH TEST	TRANSPORT	LOW ALLOY	C	E	F	G	
1/4	2600	3150	3250	2-9/16	7/16	3/8	15/16	0.44
5/16	3900	4700	5000	2-23/32	13/32	7/16	1-1/16	0.75
3/8	5400	6000	6600	3-1/4	19/32	15/32	1-5/16	1.13
7/16	7200	8700	8750	3-21/32	9/16	9/16	1-9/16	2.06
1/2	9200	11000	11300	4	3/4	5/8	1-11/16	2.75
5/8	11500	16000	16500	4-15/16	13/16	3/4	2	4.75
3/4			19250	6-3/32	1-5/16	1	2-1/2	11.28



RATED LOAD SHOULD NOT BE EXCEEDED

REGULAR SWIVELS



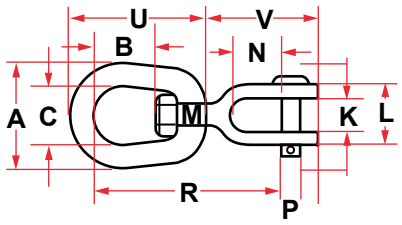


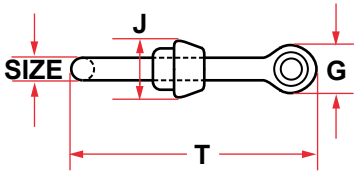
Hot Dip Galvanized
Quenched & Tempered

Meets the requirements of Federal Specification RR-C-271D

SIZE (INCHES)	WORKING LOAD LIMIT (LBS.)	WEIGHT EACH (LBS.)	DIMENSIONS (INCHES)								
			A	B	C	D	J	M	R	S	T
1/4	850	0.21	1.25	0.69	0.75	1.06	0.69	0.31	2.94	1.69	3.44
5/16	1250	0.39	1.63	0.81	1.00	1.25	0.81	0.38	3.56	2.06	4.19
3/8	2250	0.75	2.00	0.94	1.25	1.50	1.00	0.50	4.31	2.50	5.06
1/2	3600	1.43	2.50	1.31	1.50	2.00	1.31	0.63	5.44	3.19	6.44
5/8	5200	2.50	3.00	1.56	1.75	2.38	1.50	0.75	6.56	3.88	7.81
3/4	7200	4.13	3.50	1.75	2.00	2.63	1.88	0.88	7.19	4.31	8.69
7/8	10000	6.25	4.00	2.06	2.25	3.06	2.13	1.00	8.38	5.00	10.13
1	12500	9.00	4.50	2.31	2.50	3.50	2.38	1.13	9.63	5.75	11.63
1-1/4	18000	16.37	5.63	2.69	3.13	3.69	3.00	1.38	11.13	6.75	13.35
1-1/2	45200	49.06	7.00	4.19	4.00	4.19	4.00	2.25	17.13	10.00	20.13

JAW END SWIVELS





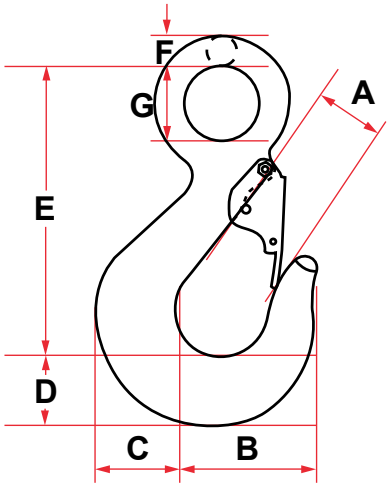
Hot Dip Galvanized
Quenched & Tempered

Meets the requirements of Federal Specification RR-C-271D

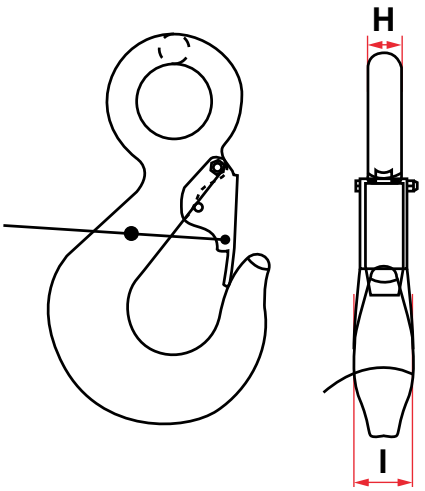
SIZE (INCHES)	WORKING LOAD LIMIT (LBS.)	WEIGHT EACH (LBS.)	DIMENSIONS (INCHES)													
			A	B	C	G	J	K	L	M	N	P	R	T	U	V
1/4	850	0.25	1.25	0.69	0.75	0.69	0.69	0.47	1.03	0.31	0.88	0.25	2.63	3.38	1.69	1.69
5/16	1250	0.37	1.63	0.81	1.00	0.81	0.81	0.50	1.13	0.38	0.88	0.31	2.94	3.88	2.06	1.81
3/8	2250	0.70	2.00	0.94	1.25	1.00	1.00	0.63	1.41	0.50	1.06	0.38	3.63	4.75	2.50	2.25
1/2	3600	1.43	2.50	1.31	1.50	1.31	1.31	0.75	1.75	0.63	1.31	0.50	4.50	6.06	3.19	2.88
5/8	5200	2.48	3.00	1.56	1.75	1.63	1.50	0.94	2.06	0.75	1.50	0.63	5.31	7.31	3.88	3.44
3/4	7200	3.88	3.50	1.75	2.00	1.88	1.88	1.13	2.53	0.88	1.75	0.75	6.06	8.31	4.31	4.00
7/8	10000	5.75	4.00	2.06	2.25	2.13	2.13	1.19	2.75	1.00	2.06	0.88	7.00	9.53	5.00	4.53
1	12500	10.25	4.50	2.31	2.50	2.63	2.38	1.75	3.72	1.13	2.81	1.13	8.56	11.69	5.75	5.94
1-1/4	18000	15.75	5.69	2.69	3.13	3.13	3.00	2.06	4.31	1.38	2.81	1.38	9.44	13.13	6.75	6.38
1-1/2	45200	54.75	7.00	4.19	4.00	5.63	4.00	2.88	6.00	2.25	4.44	2.25	14.74	20.84	10.00	10.84

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EYE HOOK (ROV)



STANDARD HOOK WITH SAFETY LATCH



ROV HOOK

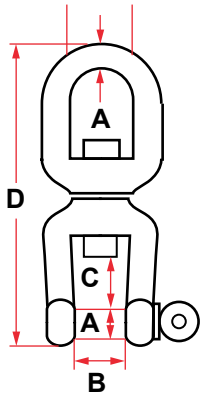
HOOK NO.	WLL (TONS)	MBL (TONS)	DIMENSIONS (INCHES)									WEIGHT KG
			A	B	C	D	E	F	G	H	I	
27	8	32	2-1/8	2-11/16	2-3/32	1-7/8	8	1	1-31/32	1	1-1/2	8.2
29	12.5	50	2-13/16	3-3/8	2-11/16	2-13/32	9-31/32	1-1/4	2-1/2	1-1/4	1-7/8	17
30	16	64	3-3/16	3-25/32	3	2-11/16	11-3/16	1-13/32	2-27/32	1-13/32	2-3/32	22
31	20	80	3-19/32	4-7/32	3-3/8	3	12-9/16	1-9/16	3-3/16	1-9/16	2-13/32	29
32	28	112	2-13/16	4-13/32	3-25/32	3-1/4	13-15/16	1-1/2	3-3/4	1-1/2	2-15/32	37
33	31	125	3-3/16	4-15/16	4-3/16	3-5/8	15-5/16	1-11/16	3-15/16	1-11/16	2-3/4	51
34	40	160	3-21/32	5-1/2	4-9/16	4-1/16	18	1-7/8	5-1/8	1-7/8	3-5/32	75
35	50	200	4-3/16	6-7/32	5-5/16	4-9/16	19-1/2	2-1/8	5-1/8	2-1/8	3-1/2	108
36	63	250	4-11/16	6-15/16	5-15/16	5-1/8	22-1/4	2-3/8	5-29/32	2-3/8	3-29/32	139
37	80	320	5-5/32	7-13/16	6-5/8	5-23/32	27-5/32	2-5/8	6-11/16	2-5/8	4-5/16	218
38	100	400	5-15/16	8-7/8	7-11/16	6-25/32	28-9/16	3-1/8	6-7/8	3-1/8	4-15/16	353
39	150	600	6-13/16	9-27/32	8-7/8	7-27/32	30-1/8	3-3/8	5-1/8	3-3/8	6-5/16	573
40	200	800	7-7/8	10-13/16	10-1/4	9-5/16	33-15/32	4	5-29/32	4	7-3/32	919
41	250	1000	9-3/16	12-3/16	11-13/32	10-19/32	36-17/32	4-23/32	6-11/16	4-23/32	7-7/8	1270
42	300	1200	10-3/8	13-25/32	13	12-3/16	41-13/32	5-1/2	7-15/32	5-1/2	8-21/32	1808
43	400	1600	11-15/16	15-3/4	14-31/32	13-9/16	47-1/16	6-11/16	8-1/4	6-11/16	9-7/16	2480
44	500	2000	14-9/16	17-23/32	16-1/8	15-11/32	53-9/16	7-7/8	8-15/32	7-7/8	12-19/32	4057

Material : Grade 80
Safety : 4 times
Finish : Painted
Certificate : Manufacturer certificate, proofload on request.

S181 EYE AND JAW SWIVEL

Stainless 316

DIMENSIONS (INCHES)				WORKING LOAD LIMIT (LBS.)	WEIGHT (LBS.)
SIZE (A)	B	C	D		
1/4	0.50	0.43	2.62	600	0.14
5/16	0.62	0.62	3.62	1100	0.33
3/8	0.75	0.87	4.62	1540	0.63
1/2	1.00	1.12	6.00	2640	1.40
5/8	1.25	1.37	7.37	4750	2.38
3/4	1.50	1.62	8.62	7000	3.93

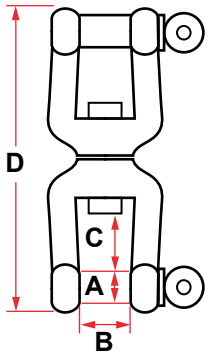


S0182 JAW AND JAW SWIVEL

Stainless 316

DIMENSIONS (INCHES)				WORKING LOAD LIMIT (LBS.)	WEIGHT (LBS.)
SIZE (A)	B	C	D		
1/4	0.50	0.43	2.50	600	0.15
5/16	0.62	0.62	3.50	1100	0.38
3/8	0.75	0.87	4.44	1540	0.74
1/2	1.00	1.12	5.88	2640	1.54
5/8	1.25	1.37	7.31	4750	2.63
3/4	1.50	1.62	8.63	7000	4.34

NOTE: COMMERCIAL TYPE



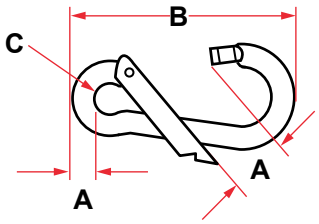
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SNAP HOOK OFFSET GATE

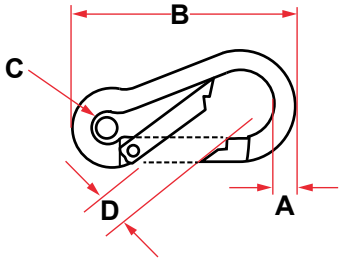
AISI 316 Stainless



DIMENSIONS (INCHES)				BREAKING STRENGTH (LBS.)	WEIGHT (LBS.)
A	B	C	D		
5/16	3-1/8	3/8	3/4	1400	0.15
3/8	4	1/2	7/8	2000	0.28
7/16	4-3/4	11/16	1-1/16	2500	0.41

SNAP HOOK WITH EYE INSERT

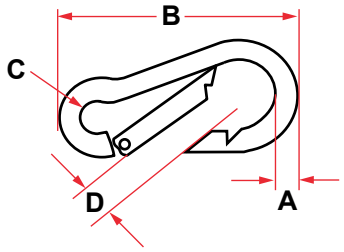
AISI 316 Stainless



DIMENSIONS (INCHES)				BREAKING STRENGTH (LBS.)	WEIGHT (LBS.)
A	B	C	D		
1/4	2-3/8	1/4	3/8	700	0.06
5/16	3-1/8	3/8	7/16	1400	0.14
3/8	4	7/16	9/16	2000	0.29
7/16	4-3/4	9/16	11/16	2500	0.46

SNAP HOOK

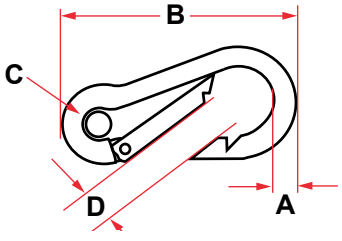
AISI 316 Stainless



DIMENSIONS (INCHES)				BREAKING STRENGTH (LBS.)	WEIGHT (LBS.)
A	B	C	D		
1/4	2-3/8	5/16	5/16	700	0.06
5/16	3-1/8	7/16	3/8	1400	0.14
3/8	3-15/16	9/16	1/2	2000	0.29
7/16	4-11/16	11/16	5/8	2500	0.46

SNAP HOOK WITH EYE INSERT

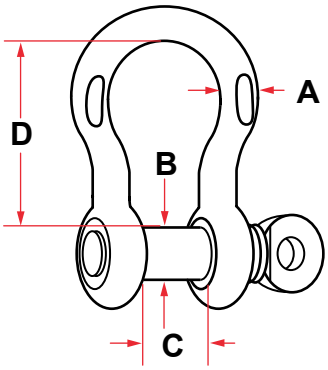
AISI 316 Stainless



DIMENSIONS (INCHES)				BREAKING STRENGTH (LBS.)	WEIGHT (LBS.)
A	B	C	D		
1/4	2-3/8	1/4	5/16	700	0.06
5/16	3-1/8	3/8	3/8	1400	0.15
3/8	3-15/16	7/16	1/2	2000	0.31
7/16	4-3/4	5/8	5/8	2500	0.43

STAINLESS SCREW PIN ANCHOR SHACKLE

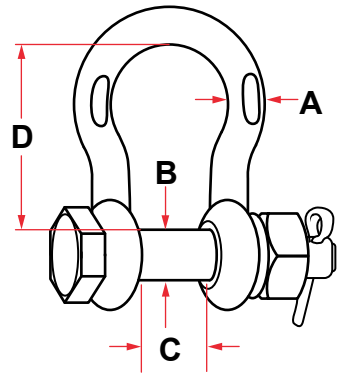
DIMENSIONS (INCHES)				LBS.	
A SIZE	B	C	D	WORKING LOAD LIMIT	WEIGHT
3/16	0.26	0.41	0.83	650	0.05
1/4	0.31	0.47	1.11	1000	0.10
5/16	0.38	0.53	1.20	1300	0.17
3/8	0.44	0.66	1.41	1500	0.30
7/16	0.50	0.72	1.77	2000	0.50
1/2	0.63	0.82	1.83	3000	0.71
5/8	0.75	1.02	2.41	4000	1.39
3/4	0.88	1.25	2.84	6000	2.31
7/8	1.00	1.48	3.30	8000	3.64
1	1.13	1.70	3.80	10000	5.18
1-1/4	1.38	2.03	4.69	14000	9.88



SCREW PIN

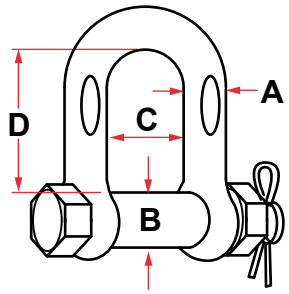
STAINLESS SAFETY ANCHOR SHACKLE

DIMENSIONS (INCHES)				LBS.	
A SIZE	B	C	D	WORKING LOAD LIMIT	WEIGHT
1/4	0.31	0.47	1.11	1000	0.12
5/16	0.38	0.53	1.20	1300	0.18
3/8	0.44	0.66	1.41	1500	0.35
7/16	0.50	0.72	1.77	2000	0.57
1/2	0.63	0.82	1.83	3000	0.84
5/8	0.75	1.02	2.41	4000	1.64
3/4	0.88	1.25	2.84	6000	2.75
7/8	1.00	1.48	3.30	8000	4.18
1	1.13	1.70	3.80	10000	5.61
1-1/4	1.38	2.03	4.69	14000	9.88



SAFETY TYPE

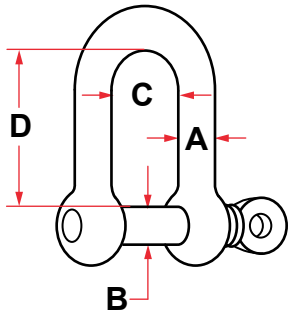
STAINLESS SAFETY CHAIN SHACKLE



SAFETY TYPE

DIMENSIONS (INCHES)				LBS	
A SIZE	B	C	D	WORKING LOAD LIMIT	WEIGHT
5/32	0.17	0.32	0.55	200	0.02
3/16	0.19	0.37	0.69	500	0.03
1/4	0.23	0.47	0.82	750	0.05
5/16	0.31	0.62	1.10	1000	0.12
3/8	0.39	0.79	1.34	1200	0.23
1/2	0.47	0.95	1.65	1500	0.38

STAINLESS SCREW PIN CHAIN SHACKLE



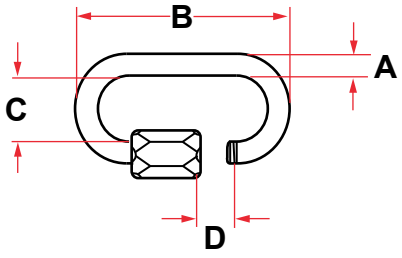
SCREW PIN

DIMENSIONS (INCHES)				LBS.	
A SIZE	B	C	D	WORKING LOAD LIMIT	WEIGHT
1/4	0.31	0.46	0.87	1000	0.11
5/16	0.38	0.52	1.02	1300	0.18
3/8	0.44	0.65	1.24	1500	0.31
7/16	0.50	0.75	1.43	2000	0.50
1/2	0.63	0.79	1.58	3000	0.74
5/8	0.75	1.05	1.94	4000	1.14
3/4	0.88	1.20	2.40	6000	2.36
7/8	1.01	1.45	2.88	8000	3.46
1	1.13	1.67	3.20	10000	4.85

QUICK LINK

Electrogalvanized Steel

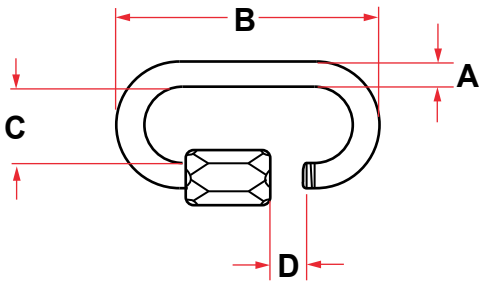
DIMENSIONS (INCHES)				BREAKING STRENGTH (LBS.)	WEIGHT (LBS.)
A	B	C	D		
1/8	1-7/16	7/16	3/16	1100	0.02
3/16	2	9/16	1/4	3080	0.04
1/4	2-1/4	9/16	5/16	4400	0.10
5/16	2-15/16	3/4	3/8	7700	0.18
3/8	3-1/2	7/8	1/2	12100	0.33



LONG STYLE QUICK LINK

Electrogalvanized Steel

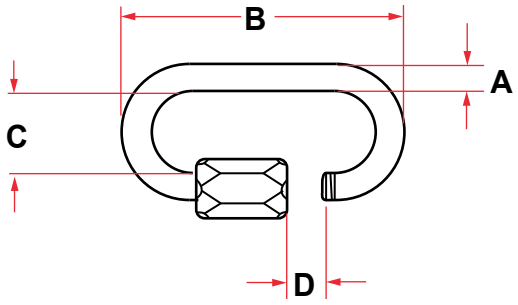
DIMENSIONS (INCHES)				BREAKING STRENGTH (LBS.)	WEIGHT (LBS.)
A	B	C	D		
1/8	1-13/16	7/16	3/8	990	0.03
3/16	2-7/16	1/2	1/2	2750	0.06
1/4	2-3/4	5/8	9/16	3850	0.09
5/16	3-1/2	11/16	11/16	7150	0.20
3/8	4-1/8	7/8	13/16	11000	0.35
1/2	4-7/8	15/16	15/16	13750	0.60
9/16	5-5/8	1-1/16	1-1/16	22000	0.93
5/8	6-5/16	1-3/16	1-3/16	27500	1.40
11/16	7	1-5/16	1-5/16	33000	1.95
25/32	7-15/16	1-7/16	1-7/16	39600	2.69



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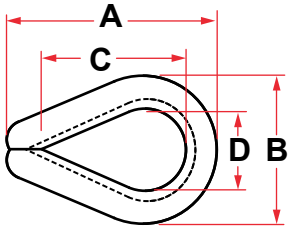
Anchor
MARINE & INDUSTRIAL SUPPLY, INC.

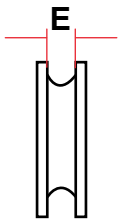


QUICK LINK

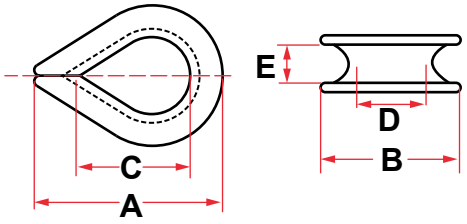
AISI 316 Stainless

DIMENSIONS (INCHES)				BREAKING STRENGTH (LBS.)	WEIGHT (LBS.)
A	B	C	D		
1/8	1-1/4	3/8	3/16	2420	0.02
5/32	1-9/16	7/8	7/32	2750	0.03
3/16	1-15/16	9/16	1/4	4950	0.05
1/4	2-1/4	5/8	5/16	7150	0.08
5/16	2-13/16	3/4	7/16	12000	0.18
3/8	3-7/16	13/16	1/2	19800	0.31
1/2	4-1/8	1	5/8	27500	0.51
9/16	4-3/4	1-1/8	5/8	38500	0.81
5/8	5-1/2	1-1/4	3/4	49500	1.25





HEAVY DUTY WIRE ROPE THIMBLE



REGULAR WIRE ROPE THIMBLE

According to Federal Specification FF-C-450, Type III, Class I.

STAINLESS HEAVY DUTY WIRE ROPE THIMBLES - TYPE 304 & 316

SIZE (INCHES)	DIMENSIONS (INCHES)					APPROX. WEIGHT (LBS.)
	A	B	C	D	E	
1/4	2.19	1.50	1.63	0.88	0.44	0.08
5/16	2.50	1.88	1.88	1.13	0.50	0.10
3/8	2.88	2.09	2.09	1.13	0.66	0.25
1/2	3.63	2.63	2.75	1.50	0.88	0.45
5/8	4.25	3.09	3.25	1.75	1.00	0.68
3/4	5.00	3.50	3.75	2.00	1.25	1.20
7/8	5.66	4.19	4.31	2.25	1.50	1.85
1	6.13	4.63	5.00	2.50	1.56	2.20
1-1/8 - 1-1/4	7.13	5.33	5.38	2.88	1.88	3.80
1-1/4 - 1-3/8	8.38	6.67	6.50	3.50	2.25	8.60

STAINLESS REGULAR WIRE ROPE THIMBLES - TYPE 316

SIZE (INCHES)	DIMENSIONS (INCHES)					APPROX. WEIGHT (LBS.)
	A	B	C	D	E	
1/8	1.88	1.06	1.25	0.69	0.16	0.02
3/16	1.88	1.06	1.25	0.69	0.22	0.02
1/4	1.94	1.06	1.31	0.69	0.28	0.03
5/16	2.13	1.25	1.50	0.81	0.38	0.05
3/8	2.38	1.47	1.63	0.94	0.44	0.06
1/2	2.75	1.75	1.88	1.13	0.56	0.12
5/8	3.50	2.38	2.25	1.38	0.69	0.24

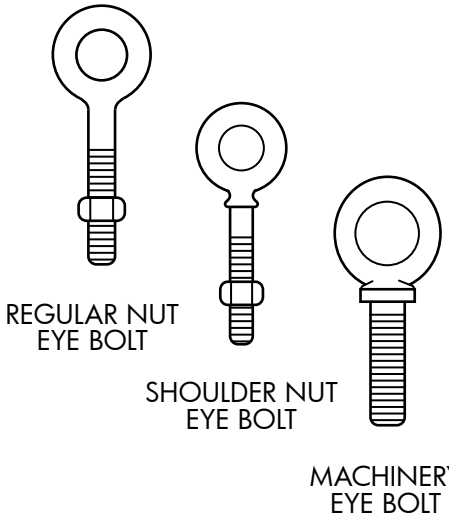
FORGED EYE BOLTS

WARNINGS

1. Loads may slip or fall if proper eye bolt assembly and lifting procedures are not used.
2. A failing load can seriously injure or kill.
3. Read and understand both sides of these instructions, and follow all eye bolt safety information presented here.
4. Read, understand and follow in diagrams and charts below before using eye bolt assemblies.

IMPORTANT SAFETY INFORMATION

1. Always inspect eye bolt before use.
2. Never use eye bolt that shows signs of wear or damage.
3. Never use eye bolt if eye or shank is bent or elongated.
4. Always be sure threads on shanks and receiving holes are clean.
5. Never machine, grind, or cut eye bolt.



ASSEMBLY SAFETY

1. Never exceed load limits specified in Table I.
2. Never use regular nut eye bolts for angular lifts.
3. Always use shoulder nut eye bolts (or machinery eye bolts) for angular lifts.
4. For angular lifts, adjust working load limits as follows:

Direction of Pull	Adjusted Working Load
45 degrees	30% of rated working load
90 degrees	25% of rated working load

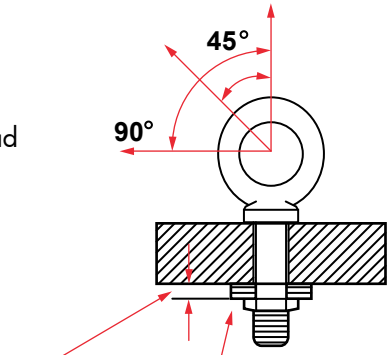
5. Never undercut eye bolt to seat shoulder against the load.
6. Always countersink receiving hole or use washers to seat shoulder.
7. Always screw eye bolt down completely for proper seating.
8. Always tighten nuts securely against the load.

SHOULDER NUT EYE BOLT

Installation for angular loading:

The threaded shank must protrude through the load sufficiently to allow full engagement of the nut.

If the eye bolt protrudes so far through the load that the nut can't be tightened securely against the load, use properly sized washers to take up the excess space BETWEEN THE NUT AND THE LOAD.



Thickness of spacers must exceed the distance between the bottom of the load and the last thread of the eye bolt.

Place washers or spacers between nut and load so that when the nut is tightened securely, the shoulder is secured flush against the load surface.

SHOULDER NUT EYE BOLT

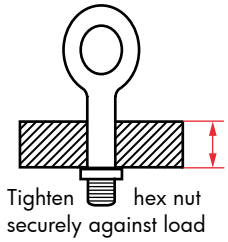
IN-LINE LOAD	
SIZE (INCHES)	WORKING LOAD LIMIT
1/4	650
5/16	1200
3/8	1550
1/2	2600
5/8	5200
3/4	7200
7/8	10600
1	13300
1-1/4	21000
1-1/2	24000

READ AND UNDERSTAND THESE INSTRUCTIONS BEFORE USING EYE BOLTS.
INSTALLATION FOR IN-LINE LOADING.

FORGED EYE BOLTS

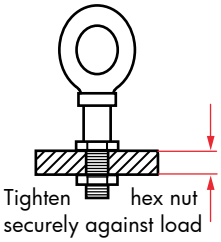
RIGHT

More than one eye bolt diameter of threads, only (1) nut required.

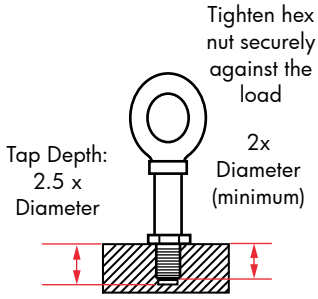


RIGHT

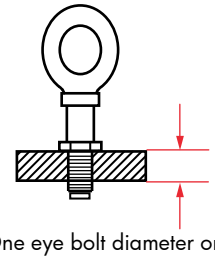
One eye bolt diameter of threads or less, use two (2) nuts.



RIGHT



WRONG

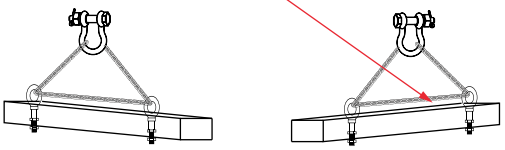


OPERATING SAFETY

- Always stand clear of load.
- Always lift load with steady, even pull — do not jerk.
- Always apply load to eye bolt in the plane of the eye — not at an angle.
- Never exceed the capacity of the eye bolt (see Table 1)
- When using lifting slings of two or more legs, make sure the loads in the legs are calculated using the angle from the vertical to the leg and properly size the shoulder nut or machinery eye bolt for the angular load.

Do not reeve slings from one eye bolt to another. This will alter the load and angle of loading on the eye bolt.

After slings have been properly attached to the eye bolts, apply force slowly. Watch the load carefully and be prepared to stop applying force if the load starts buckling. Buckling may occur if the load is not stiff enough to resist the compressive forces which result from the angular loading.



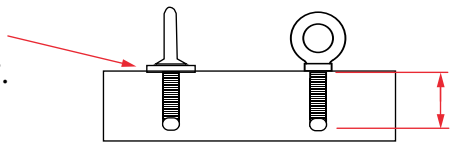
MACHINERY EYE BOLT - INSTALLATION FOR IN-LINE & ANGULAR LOADING

1. After the loads on the eye bolts have been calculated, select the proper size eye bolt for the job. For angular lifts, adjust working loads as follows:

Direction of Pull	Adjusted Working Load
45°	30% of rated working load
90°	25% of rated working load

2. Drill and tap the load to the correct sizes to a minimum depth of one-half the eye bolt size beyond the shank length of the machinery eye bolt.
3. Thread the eye bolt into the load until the shoulder is flush and securely tightened against the load.
4. If the plane of the machinery eye bolt is not aligned with the sling line, estimate the amount of unthreading rotation necessary to align the plane of the eye properly.
5. Remove the machinery eye bolt from the load and add shims (washers) of proper thickness to adjust the angle of the plane of the eye to match the sling line. Use Table II to estimate the required shim thickness for the amount of unthreading rotation required.

Slim added to change eye alignment 90°.



Minimum tap depth is basic shank length plus one-half the nominal eye bolt diameter.

TABLE II

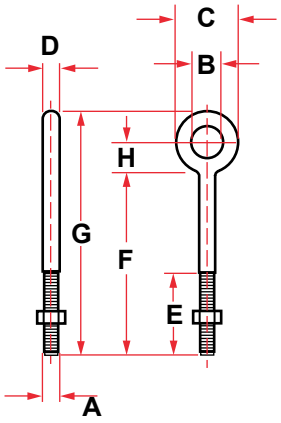
EYE BOLT

SIZE LOAD LIMIT	SLIM THICKNESS REQ'D TO CHANGE ROTATION 90 (DEGREES)
1/4	0.1250
5/16	0.1390
3/8	0.0156
1/2	0.0192
5/8	0.0227
3/4	0.0250
7/8	0.0278
1	0.0312
1-1/4	0.0357
1-1/2	0.0417

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FORGED EYE BOLTS

- Forged Steel - Quenched and Tempered
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- All Bolts Hot Dip galvanized after threading (UNC).
- Furnished with standard Hot Dip galvanized hex nuts.
- Recommended for in-line pull.
- Anchor Marine products meet or exceed all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, Anchor Marine products meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



SHACKLE DIA & LENGTH (INCHES)	WORKING LOAD LIMIT (LBS.)	WEIGHT PER 100 (LBS.)	DIMENSIONS (INCHES)							
			A	B	C	D	E	F	G	H
1/4 x 2	650	8.20	0.25	0.50	1.00	0.25	1.50	2.00	3.06	0.56
1/4 x 4	650	11.70	0.25	0.50	1.00	0.25	2.50	4.00	5.06	0.56
5/16 x 2-1/4	1200	13.30	0.31	0.62	1.25	0.31	1.50	2.25	3.56	0.69
5/16 x 4-1/4	1200	25.00	0.31	0.62	1.25	0.31	2.50	4.25	5.56	0.69
3/8 x 2-1/2	1550	23.30	0.38	0.75	1.50	0.38	1.50	2.50	4.12	0.88
3/8 x 4-1/2	1550	29.50	0.38	0.75	1.50	0.38	2.50	4.50	6.12	0.88
3/8 x 6	1550	35.20	0.38	0.75	1.50	0.38	1.50	6.00	7.62	0.88
1/2 x 3-1/4	2600	50.30	0.50	1.00	2.00	0.50	2.50	3.25	5.38	1.12
1/2 x 6	2600	66.10	0.50	1.00	2.00	0.50	3.00	6.00	8.12	1.12
1/2 x 8	2600	82.00	0.50	1.00	2.00	0.50	3.00	8.00	10.12	1.12
1/2 x 10	2600	88.00	0.50	1.00	2.00	0.50	3.00	10.00	12.12	1.12
1/2 x 12	2600	114.20	0.50	1.00	2.00	0.50	3.00	12.00	14.12	1.12
5/8 x 4	5200	103.10	0.62	1.25	2.50	0.62	2.00	4.00	6.69	1.44
5/8 x 6	5200	118.20	0.62	1.25	2.50	0.62	3.00	6.00	8.69	1.44
5/8 x 8	5200	135.10	0.62	1.25	2.50	0.62	3.00	8.00	10.69	1.44
5/8 x 10	5200	153.60	0.62	1.25	2.50	0.62	3.00	10.00	12.69	1.44
5/8 x 12	5200	167.10	0.62	1.25	2.50	0.62	4.00	12.00	14.69	1.44
3/4 x 4-1/2	7200	168.60	0.75	1.50	3.00	0.75	2.00	4.50	7.69	1.69
3/4 x 6	7200	184.50	0.75	1.50	3.00	0.75	3.00	6.00	9.19	1.69
3/4 x 8	7200	207.90	0.75	1.50	3.00	0.75	3.00	8.00	11.19	1.69
3/4 x 10	7200	235.00	0.75	1.50	3.00	0.75	3.00	10.00	13.19	1.69
3/4 x 12	7200	257.50	0.75	1.50	3.00	0.75	4.00	12.00	15.19	1.69
3/4 x 15	7200	298.00	0.75	1.50	3.00	0.75	5.00	15.00	18.19	1.69
7/8 x 5	10600	270.00	0.88	1.75	3.50	0.88	2.50	5.00	8.75	2.00
7/8 x 8	10600	308.00	0.88	1.75	3.50	0.88	4.00	8.00	11.75	2.00
7/8 x 12	10600	400.00	0.88	1.75	3.50	0.88	4.00	12.00	15.75	2.00
1 x 6	13300	421.00	1.00	2.00	4.00	1.00	3.00	6.00	10.31	2.31
1 x 9	13300	468.50	1.00	2.00	4.00	1.00	4.00	9.00	13.31	2.31
1 x 12	13300	540.00	1.00	2.00	4.00	1.00	4.00	12.00	16.31	2.31
1 x 18	13300	650.00	1.00	2.00	4.00	1.00	7.00	18.00	22.31	2.31
1-1/4 x 8	21000	750.00	1.25	2.50	5.00	1.25	4.00	8.00	13.38	2.88
1-1/4 x 12	21000	900.00	1.25	2.50	5.00	1.25	4.00	12.00	17.38	2.88
1-1/4 x 20	21000	1210.00	1.25	2.50	5.00	1.25	6.00	20.00	25.38	2.88

* Ultimate Load is 5 times the Working Load Limit. Working Load Limit shown is for in-line pull. Maximum Proof Load is 2 times the Working Load Limit.

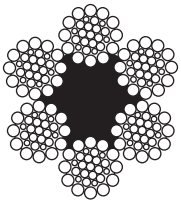
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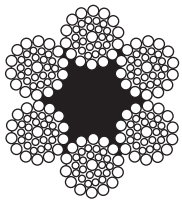
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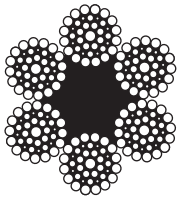
WIRE ROPE



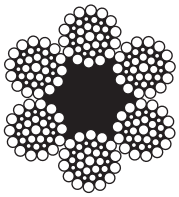
6 X 31 WARRINGTON SEALE



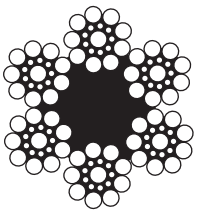
6 X 36 WARRINGTON SEALE



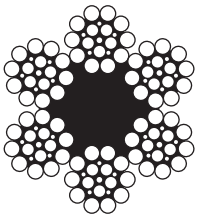
6 X 41 SFW SEALE FILLER WIRE



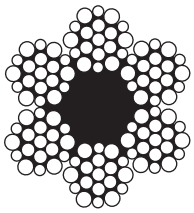
6 X 36 SEALE WARRINGTON SEALE



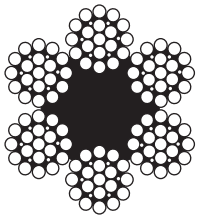
6 X 19 SEALE



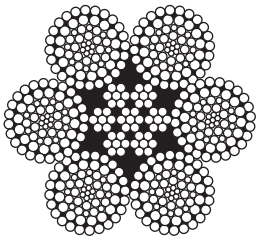
6 X 21 FILLER WIRE



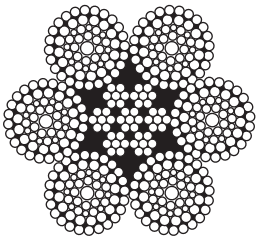
6 X 19 WARRINGTON



6 X 25 FILLER WIRE



6 X 70 IWRC



6 X 64 IWRC



SUGGESTED WIRE ROPE FOR PARTICULAR USES

Preformed or Form-Set construction is used for all ropes shown.

USE	SIZE (INCHES)	CONSTRUCTION	LAY	CORE	GRADE
CLAMSHELL					
HOLDING & CLOSING LINES	1/2 - 1-1/4	6 x 25 FW or 6 x 36 WS	RRL	IWRC	EIPS
BOTTOM HOIST LINE	1/2 & Up	6 X 25 FW	RRL	IWRC	EIPS
TAG LINE	1/4 x 5/16	6 X 36 WS	RRL	FIBER	EIPS
	3/8 & Up	6 X 41 WS	RRL	FIBER	EIPS
CRAWLER & TRUCK CRANES					
HOIST LINE	1/2 - 1-1/4	6 x 25 FW or 19 x 7 NSNR	RRL	IWRC	EIPS
BOTTOM HOIST LINE	All	6 x 25 FW	RRL	IWRC	EIPS
WHIP LINE	3/8 - 1-1/4	19 x NSNR	RRL	IWRC	EIPS
CRANES & HOISTS					
OVERHEAD	1/4 - 7/16	6 x 19 S or 6 x 36 WS	RRL	IWRC	EIPS
	1/2 - 1	6 X 36 WS	RRL	IWRC	EIPS
	1-1/8 & Up	6 X 41 WS	RRL	IWRC	EIPS
LADLE CRANE	1/2 - 1	6 X 36 WS	RRL	IWRC	EIPS
	1-1/8 & Up	6 X 41 WS	RRL	IWRC	EIPS
DRAGLINE					
HOIST LINE	Up to 1-1/4	6 x 25 FW or 8 x 25	RRL	IWRC	EIPS
	1-3/8 & Up	6 x 41 WS or 8 x 25, 8 x 36	RRL	IWRC	EIPS
DRAG LINE	3/4 - 1-1/2	6 x 21 FW or 8 x 25	RRL	IWRC	EIPS
	1-5/8 - 3	6 x 25 FW or 8 x 36	RRL	IWRC	EIPS
	3 & Up	6 x 41 FW or 8 x 36	RRL	IWRC	EIPS
BOOM HOIST	1/2 & Up	6 x 25 FW or 8 x 25	RRL	IWRC	EIPS
SHOVELS					
HOIST LINE	Up to 1-1/8	6 x 25 FW or 8 x 25	RRL	IWRC	EIPS
	1/4 & Up	6 x 41 WS or 8 x 25	RRL	IWRC	EIPS
CROWD & RETRACT	3/4 & Up	6 x 41 WS or 8 x 25	RRL	IWRC	EIPS
BOTTOM HOIST	1/2 - 1-1/4	6 x 25 FW or 8 x 25	RRL	IWRC	EIPS
	1-3/8 & Up	6 x 41 WS or 8 x 25	RRL	IWRC	EIPS
TRIP ROPE	3/8 - 1	6 x 36 WS or 8 x 25	RRL	FIBER	IPS
	1 & Up	6 x 41 WS or 8 x 25	RRL	FIBER	IPS
LOGGING ROPES					
CHOKERS	All	6 x 26 WS or 6 x 25 FW	RRL	IWRC	EIPS
WINCH LINES	All	6 x 26 WS or 6 x 25 FW	RRL	IWRC	EIPS
MINING					
SLOPE ROPE	All	6 x 19 S or 6 x 21 FW	RRL	FIBER	IPS
SHAFT HOIST ROPES	All	6 x 19 S or 6 x 25 FW	RLL or RRL	FIBER	IPS
SLUSHER ROPE	All	3 x 19 S or 6 x 19 S	RRL	IWRC	IPS
MINING MACHINE ROPE	All	6 x 36 WS or 6 x 41 WS	RRL	IWRC	EIPS

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SUGGESTED WIRE ROPE FOR PARTICULAR USES

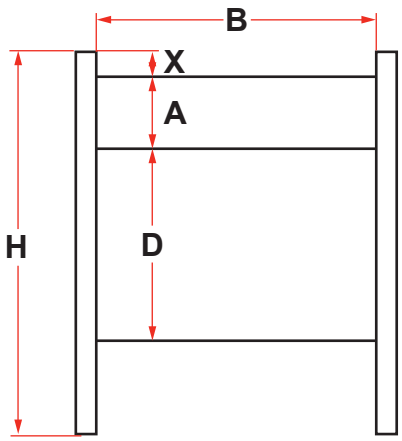
Preformed or Form-Set construction is used for all ropes shown.

USE	SIZE (INCHES)	CONSTRUCTION	LAY	CORE	GRADE
MARINE ROPES					
TOWING HAWSER	All	6 X 41 WS	RRL	F.C. or IWRC	EIPS
MOORING LINES	All	6 x 24 S or 6 x 41 WS	RRL	F.C. or IWRC	EIPS
CARGO FALLS	All	6 X 36 WS	RRL	IWRC	EIPS
OIL FIELD					
ROTARY DRILL LINES	3/4 - 1-1/2	6 x 19 S or 6 x 21 S	RRL	IWRC	EIPS
SAND LINES	All	6 x 7	RRL	POLY	IPS
TUBING LINES	All	6 x 26 WS or 19 x 7 NSNR	RRL or LRL	IWRC	EIPS
CABLE TOOL LINE	All	6 X 21 WS	LRL	POLY	IPS
OFFSHORE					
ROTARY DRILL LINES	1 - 1-3/4	6 x 19 S	RRL	IWRC	EIPS
RISER TENSIONER LINES	1-1/4 - 2	6 X 41 WS	RLL	IWRC	IPS
GUIDE LINES	1/2 - 1	6 x 25 FW	RRL	IWRC	IPS
SAND LINES	1/2 - 5/8	6 x 7	RRL	FIBER	IPS
PENDANT LINES	1-1/2 - 3	6 x 25 FW or 6 x 37 WS	RRL	IWRC	EIPS
CRANE-MAIN HOIST	3/8 - 2	6 x 25 FW or 6 x 37 WS	RRL	F.C. or IWRC	IPS or EIPS
CRANE-AUXILIARY HOIST	3/8 - 2-1/4	19 x 7 NSNR or 36 x 7 NSNR	RRL	IWRC	EIPS
ANCHOR LINES	1-3/8 - 6	6 x 37 WS through 6 x 91	RRL	IWRC	EIPS
HEAVY LIFT SLINGS	1-1/2 - 4	6 X 37 WS	RRL	IWRC	EIPS
CABLE LAID HEAVY LIFT SLINGS	3-1/2 - 10	7 x 6 x 41	RLL or LLL	IWRC	EIPS

DEFINITION OF ABBREVIATIONS

GRADE	CONSTRUCTION	LAY	CORE
IPS - Improved Plow Steel	FW - Fiber Wire	RRL - Right Regular Lay	IWRC - Independent Wire Rope Core
EIPS - Extra Improved Plow Steel	WS - Warrington Seale	RLL - Right Lang Lay	FC - Fiber Core
GIPS - Galvanized Improved Plow Steel	SFW - Seale Fiber Wire	LRL - Left Regular Lay	Fiber - Hemp or Poly Care
	NSNR - Non Spin Non Rotating	LLL - Left Lang Lay	Poly - Polypropylene Core
	W - Warrington		
	S - Seale		

FIGURING REEL CAPACITY



SHIPPING REEL CAPACITY

While it is virtually impossible to calculate the precise length of wire rope that can be spooled on a reel or drum, the following formula provides a sufficiently close approximation.

The formula* is:

$$L = (A + D)\ A\ B\ K$$

Where: L = length of rope (ft.)
A = depth of rope space on drum (inches)
B = width of drum between flanges (inches)
D = drum barrel diameter (inches)
K = constant for given rope diameter (see table below)
H = diameter of reel flanges (inches)
X = clearance

"K" FACTORS (0.2618 + ROPE DIAMETER^2)

DIAMETER (INCHES)	K	DIAMETER (INCHES)	K	DIAMETER (INCHES)	K
1/16	49.8	1/2	0.925	1-3/8	0.1270
3/32	23.4	9/16	0.741	1-1/2	0.1070
1/8	13.6	5/8	0.607	1-5/8	0.0886
5/32	8.72	11/16	0.506	1-3/4	0.0770
3/16	6.14	3/4	0.428	1-7/8	0.0675
7/32	4.59	13/16	0.354	2	0.0597
1/4	3.29	7/8	0.308	2-1/8	0.0532
5/16	2.21	1	0.239	2-1/4	0.0476
3/8	1.58	1-1/8	0.191	2-3/8	0.0419
7/16	1.19	1-1/4	0.152	2-1/2	0.0380

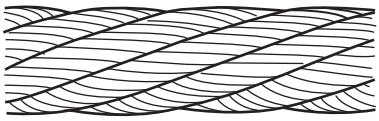
* This formula is based on uniform rope winding on the reel.

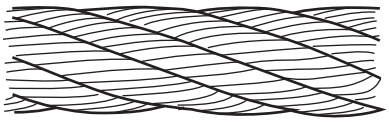
It will not give correct results if the winding is non-uniform. The formula also assumes that there will be the same number of wraps of rope in each layer. While this is not strictly correct, there is no appreciable error in the results unless the traverse of the reel is quite small relative to the flange diameter "H."

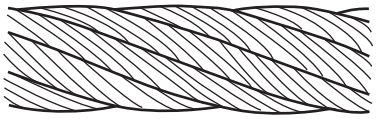
** The values given for "K" factors take normal rope oversize into account. Clearance ("X") should be about two inches unless rope-end fittings require more.

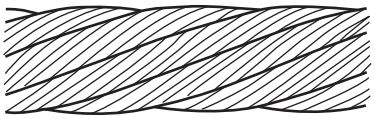
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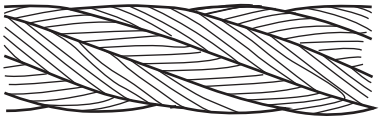
WIRE ROPE: POPULAR CLASSIFICATIONS

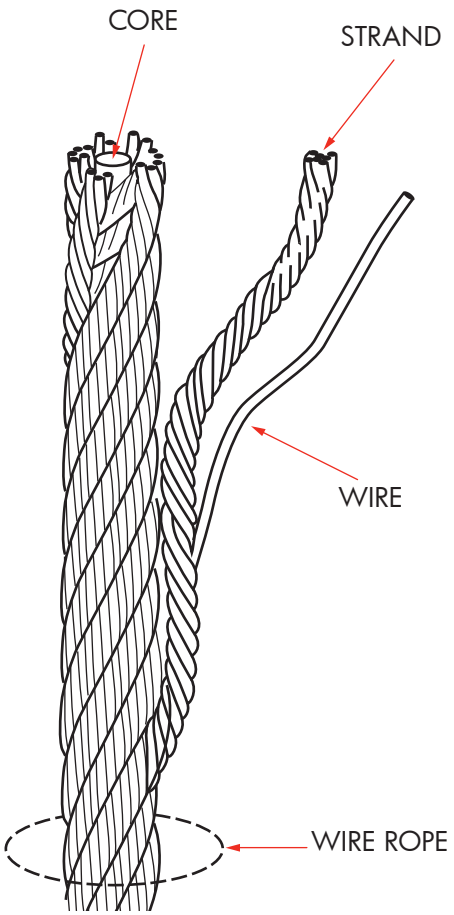

LEFT LAY REGULAR LAY


RIGHT LAY REGULAR LAY


RIGHT LAY LANG LAY


LEFT LAY LANG LAY


ALTERNATE LAY

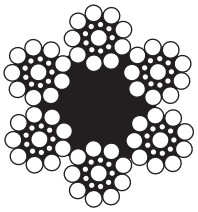


BASED ON THE NOMINAL NUMBER OF WIRES IN EACH STRAND

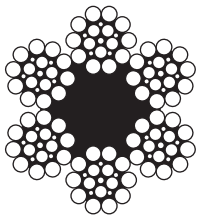
CLASSIFICATION	DESCRIPTION
6 x 7	Containing 6 strands that are made up of 3 through 14 wires, of which no more than 9 are outside wires.
6 x 19	Containing 6 strands that are made up of 15 through 26 wires, of which no more than 12 are outside wires.
6 x 37	Containing 6 strands that are made up of 27 through 49 wires, of which no more than 18 are outside wires.
6 x 61	Containing 6 strands that are made up of 50 through 74 wires, of which no more than 24 are outside wires.
6 x 91	Containing 6 strands that are made up of 75 through 109 wires, of which no more than 30 are outside wires.
6 x 127	Containing 6 strands that are made up of 110 or more wires, of which no more than 36 are outside wires.
8 x 19	Containing 8 strands that are made up of 15 through 26 wires, of which no more than 12 are outside wires.
19 x 7 and 18 x 7	Containing 19 strands, each strand is made up of 7 wires. It is manufactured by covering an inner rope of 7 x 7 left lang lay construction with 12 strands in right regular lay. (The rotation-resistant property that characterizes this highly specialized construction is a result of the counter torques developed by the two layers.) When the steel wire core strand is replaced by a fiber core, the description becomes 18 x 7.

When a center wire is replaced by a strand, it is considered as a single wire, and the rope classification remains unchanged. There are, of course, many other types of wire rope, but they are useful only in a limited number of applications, and, as such, are sold as specialties.

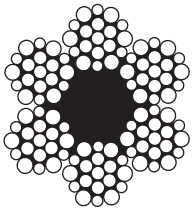
NOMINAL STRENGTHS OF WIRE ROPE



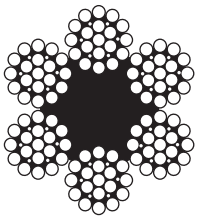
6 X 19 SEALE



6 X 21 FILLER WIRE



6 X 19 WARRINGTON



6 X 25 FILLER WIRE

6 x 19 Classification/Bright (Uncoated), or Drawn-Galvanized, Fiber Core

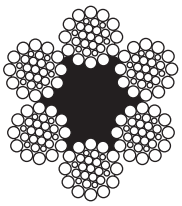
NOMINAL DIAMETER		NOMINAL STRENGTH*		APPROX. MASS	
INCHES	MM	IMPROVED PLOW STEEL		LBS./ FT.	KG/M
		TONS	METRIC TONS		
1/4	6.5	2.74	2.49	0.11	0.16
5/16	8.0	4.26	3.86	0.16	0.24
3/8	9.5	6.10	5.53	0.24	0.35
7/16	11.5	8.27	7.50	0.32	0.48
1/2	13.0	10.70	9.71	0.42	0.63
9/16	14.5	13.50	12.20	0.53	0.79
5/8	16.0	16.70	15.10	0.66	0.98
3/4	19.0	23.80	21.60	0.95	1.41
7/8	22.0	32.20	29.20	1.29	1.92
1	26.0	41.80	37.90	1.68	2.50
1-1/8	29.0	52.60	47.70	2.13	3.17
1-1/4	32.0	64.60	58.60	2.63	3.91
1-3/8	35.0	77.70	70.50	3.18	4.73
1-1/2	38.0	92.00	83.50	3.78	5.63
1-5/8	42.0	107.00	97.10	4.44	6.61
1-3/4	45.0	124.00	112.00	5.15	7.66
1-7/8	48.0	141.00	128.00	5.91	8.80
2	51.0	160.00	145.00	6.72	10.00
2-1/8	54.0	179.00	162.00	7.59	11.30
2-1/4	57.0	200.00	181.00	8.51	12.70
2-3/8	61.0	222.00	201.00	9.48	14.10
2-1/2	64.0	244.00	221.00	10.50	15.60
2-5/8	67.0	268.00	243.00	11.60	17.30
2-3/4	70.0	292.00	265.00	12.70	18.90

6 x 19 Classification/Bright (Uncoated), or Drawn-Galvanized, IWRC

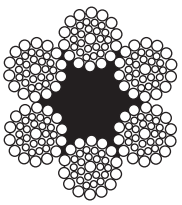
NOMINAL DIAMETER		NOMINAL STRENGTH*				APPROX. MASS	
INCHES	MM	IMPROVED PLOW STEEL		EXTRA IMPROVED PLOW STEEL		LBS./ FT.	KG/M
		TONS	METRIC TONS	TONS	METRIC TONS		
1/4	6.5	2.94	2.67	3.40	3.08	0.12	0.17
5/16	8.0	4.58	4.16	5.27	4.78	0.18	0.27
3/8	9.5	6.56	5.95	7.55	6.85	0.26	0.39
7/16	11.5	8.89	8.07	10.20	9.25	0.35	0.52
1/2	13.0	11.50	10.40	13.30	12.10	0.46	0.68
9/16	14.5	14.50	13.20	16.80	15.20	0.59	0.88
5/8	16.0	17.70	16.20	20.60	18.70	0.72	1.70
3/4	19.0	25.60	23.20	29.40	26.70	1.04	1.55
7/8	22.0	34.60	31.40	39.80	36.10	1.42	2.11
1	26.0	44.90	40.70	51.70	46.90	1.85	2.75
1-1/8	29.0	56.50	51.30	65.00	59.00	2.34	3.48
1-1/4	32.0	69.40	63.00	79.90	72.50	2.89	4.30
1-3/8	35.0	83.50	75.70	96.00	87.10	3.50	5.21
1-1/2	38.0	98.90	89.70	114.00	103.00	4.16	6.19
1-5/8	42.0	115.00	104.00	132.00	120.00	4.88	7.26
1-3/4	45.0	133.00	121.00	153.00	139.00	5.67	8.44
1-7/8	48.0	152.00	138.00	174.00	158.00	6.50	9.67
2	51.0	172.00	156.00	198.00	180.00	7.39	11.00
2-1/8	54.0	192.00	174.00	221.00	200.00	8.35	12.40
2-1/4	57.0	215.00	195.00	247.00	224.00	9.36	13.90
2-3/8	61.0	239.00	217.00	274.00	249.00	10.40	15.50
2-1/2	64.0	262.00	238.00	302.00	274.00	11.60	17.30
2-5/8	67.0	288.00	261.00	331.00	300.00	12.80	19.00
2-3/4	70.0	314.00	285.00	361.00	327.00	14.00	20.80

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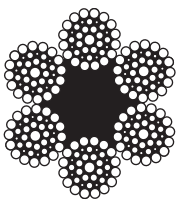
NOMINAL STRENGTHS OF WIRE ROPE



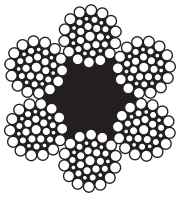
6 X 31 WARRINGTON SEALE



6 X 36 WARRINGTON SEALE



6 X 41 SFW SEALE FILLER WIRE



6 X 36 SEALE WARRINGTON SEALE

6 x 37 Classification/Bright (Uncoated), or Drawn-Galvanized, Fiber Core

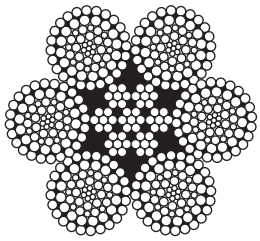
NOMINAL DIAMETER		NOMINAL STRENGTH*		APPROX. MASS	
INCHES	MM	IMPROVED PLOW STEEL		LBS./FT.	KG/M
		TONS	METRIC TONS		
1/4	6.5	2.74	2.49	0.11	0.16
5/16	8.0	4.26	3.86	0.16	0.24
3/8	9.5	6.10	5.53	0.24	0.35
7/16	11.5	8.27	7.50	0.32	0.48
1/2	13.0	10.70	9.71	0.42	0.63
9/16	14.5	13.50	12.20	0.53	0.79
5/8	16.0	16.70	15.10	0.66	0.98
3/4	19.0	23.80	21.60	0.95	1.41
7/8	22.0	32.20	29.20	1.29	1.92
1	26.0	41.80	37.90	1.68	2.50
1-1/8	29.0	52.60	47.70	2.13	3.17
1-1/4	32.0	64.60	58.60	2.63	3.91
1-3/8	35.0	77.70	70.50	3.18	4.73
1-1/2	38.0	92.00	83.50	3.78	5.63
1-5/8	42.0	107.00	97.10	4.44	6.61
1-3/4	45.0	124.00	112.00	5.15	7.66
1-7/8	48.0	141.00	128.00	5.91	8.80
2	51.0	160.00	145.00	6.72	10.00
2-1/8	54.0	179.00	162.00	7.59	11.30
2-1/4	57.0	200.00	181.00	8.51	12.70
2-3/8	61.0	222.00	201.00	9.48	14.10
2-1/2	64.0	244.00	221.00	10.50	15.60
2-5/8	67.0	268.00	243.00	11.60	17.30
2-3/4	70.0	292.00	265.00	12.70	18.90
2-7/8	74.0	317.00	287.00	13.90	20.70
3	77.0	344.00	312.00	15.10	22.50
3-1/8	80.0	371.00	336.00	16.40	24.40
3-1/4	83.0	399.00	362.00	17.70	26.30

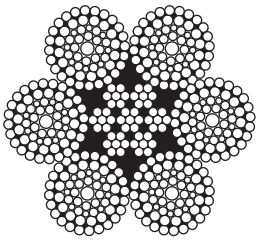
6 x 37 Classification/Bright (Uncoated), or Drawn-Galvanized, IWRC

NOMINAL DIAMETER		NOMINAL STRENGTH*				APPROX. MASS	
INCHES	MM	IMPROVED PLOW STEEL		EXTRA IMPROVED PLOW STEEL		LBS./FT.	KG/M
		TONS	METRIC TONS	TONS	METRIC TONS		
1/4	6.5	2.94	2.67	3.40	3.08	0.12	0.17
5/16	8.0	4.58	4.16	5.27	4.78	0.18	0.27
3/8	9.5	6.56	5.95	7.55	6.85	0.26	0.39
7/16	11.5	8.89	8.07	10.20	9.25	0.35	0.52
1/2	13.0	11.50	10.40	13.30	12.10	0.46	0.68
9/16	14.5	14.50	13.20	16.80	15.20	0.59	0.88
5/8	16.0	17.70	16.20	20.60	18.70	0.72	1.70
3/4	19.0	25.60	23.20	29.40	26.70	1.04	1.55
7/8	22.0	34.60	31.40	39.50	35.90	1.42	2.11
1	26.0	44.90	40.70	51.70	46.90	1.85	2.75
1-1/8	29.0	56.50	51.30	65.00	59.00	2.34	3.48
1-1/4	32.0	69.40	63.00	79.90	72.50	2.89	4.30
1-3/8	35.0	83.50	75.70	96.00	87.10	3.50	5.21
1-1/2	38.0	98.90	89.70	114.00	103.00	4.16	6.19
1-5/8	42.0	115.00	104.00	132.00	120.00	4.88	7.26
1-3/4	45.0	133.00	121.00	153.00	139.00	5.67	8.44
1-7/8	48.0	152.00	138.00	174.00	158.00	6.50	9.67
2	51.0	172.00	156.00	198.00	180.00	7.39	11.00
2-1/8	54.0	192.00	174.00	221.00	200.00	8.35	12.40
2-1/4	57.0	215.00	195.00	247.00	224.00	9.36	13.90
2-3/8	61.0	239.00	217.00	274.00	249.00	10.40	15.50
2-1/2	64.0	262.00	238.00	302.00	274.00	11.60	17.30
2-5/8	67.0	288.00	261.00	331.00	300.00	12.80	19.00
2-3/4	70.0	314.00	285.00	361.00	327.00	14.00	20.80
2-7/8	74.0	341.00	309.00	392.00	356.00	15.30	22.80
3	77.0	370.00	336.00	425.00	386.00	16.60	24.70
3-1/8	80.0	399.00	362.00	458.00	415.00	18.00	26.80
3-1/4	83.0	429.00	389.00	492.00	446.00	19.50	29.00
3-3/8	86.0	459.00	416.00	529.00	480.00	21.00	31.30
3-1/2	90.0	491.00	445.00	564.00	512.00	22.70	33.80
3-5/8	96.0	523.00	458.00	602.00	528.00	24.30	36.20
3-3/4	103.0	557.00	505.00	641.00	581.00	26.00	38.70

NOMINAL STRENGTHS OF WIRE ROPE

6 X 70 IWRC





6 X 64 IWRC

6 x 61 Classification/Bright (Uncoated), or Drawn-Galvanized, Fiber Core

NOMINAL DIAMETER		NOMINAL STRENGTH*		APPROX. MASS	
		IMPROVED PLOW STEEL			
INCHES	MM	TONS	METRIC TONS	LBS./FT.	KG/M
1	26.0	39.8	36.1	1.68	2.50
1-1/8	29.0	50.1	45.4	2.13	3.17
1-1/4	32.0	61.5	55.8	2.63	3.91
1-3/8	35.0	74.1	67.2	3.18	4.73
1-1/2	38.0	87.9	79.7	3.78	5.63
1-5/8	42.0	103.0	93.4	4.44	6.61
1-3/4	45.0	119.0	108.0	5.15	7.66
1-7/8	48.0	136.0	123.0	5.91	8.80
2	51.0	154.0	140.0	6.77	10.00
2-1/8	54.0	173.0	157.0	7.59	11.30
2-1/4	57.0	193.0	175.0	8.51	12.70
2-3/8	61.0	214.0	194.0	9.48	14.10
2-1/2	64.0	236.0	214.0	10.50	15.60
2-5/8	67.0	260.0	236.0	11.60	17.30
2-3/4	70.0	284.0	258.0	12.70	18.90
2-7/8	74.0	309.0	280.0	13.90	20.70
3	77.0	335.0	304.0	15.10	22.50
3-1/4	83.0	390.0	354.0	17.70	26.30
3-3/8	88.0	419.0	380.0	19.10	28.40
3-1/2	90.0	449.0	407.0	20.60	30.70
3-3/4	96.0	511.0	464.0	23.60	35.10
4	103.0	577.0	523.0	26.90	40.00
4-1/4	109.0	646.0	586.0	30.30	45.10
4-1/2	115.0	719.0	652.0	34.00	50.60
4-3/4	122.0	794.0	720.0	37.90	56.40
5	128.0	872.0	791.0	42.00	62.50

6 x 61 Classification/Bright (Uncoated), or Drawn-Galvanized, IWRC

NOMINAL DIAMETER		NOMINAL STRENGTH*				APPROX. MASS	
		IMPROVED PLOW STEEL		EXTRA IMPROVED PLOW STEEL			
INCHES	MM	TONS	METRIC TONS	TONS	METRIC TONS	LBS./FT.	KG/M
1	26.0	42.8	38.8	49.1	44.5	1.85	2.75
1-1/8	29.0	53.9	48.9	61.9	56.2	2.34	3.48
1-1/4	32.0	66.1	60.0	76.1	69.0	2.89	4.30
1-3/8	35.0	79.7	72.3	91.7	83.2	3.50	6.59
1-1/2	38.0	94.5	85.7	109.0	98.9	4.16	6.19
1-5/8	42.0	111.0	101.0	127.0	115.0	4.88	7.62
1-3/4	45.0	128.0	116.0	146.0	132.0	5.67	8.44
1-7/8	48.0	146.0	132.0	168.0	152.0	6.50	9.67
2	51.0	165.0	150.0	190.0	172.0	7.39	11.00
2-1/8	54.0	186.0	169.0	214.0	194.0	8.35	12.40
2-1/4	57.0	207.0	188.0	239.0	217.0	9.36	13.90
2-3/8	61.0	230.0	209.0	264.0	240.0	10.40	15.50
2-1/2	64.0	254.0	230.0	292.0	265.0	11.60	17.30
2-5/8	67.0	279.0	253.0	321.0	291.0	12.80	18.30
2-3/4	70.0	305.0	277.0	350.0	318.0	14.00	20.80
2-7/8	74.0	333.0	302.0	382.0	347.0	15.30	22.80
3	77.0	360.0	327.0	414.0	376.0	16.60	24.70
3-1/4	83.0	419.0	380.0	483.0	438.0	19.50	29.00
3-3/8	86.0	451.0	409.0	518.0	470.0	21.00	31.30
3-1/2	90.0	483.0	438.0	555.0	503.0	22.70	33.80
3-3/4	96.0	549.0	498.0	632.0	573.0	26.00	38.70
4	103.0	620.0	562.0	713.0	647.0	29.60	44.10
4-1/4	109.0	694.0	630.0	799.0	725.0	33.30	49.60
4-1/2	115.0	772.0	700.0	888.0	806.0	37.40	55.70
4-3/4	122.0	853.0	774.0	981.0	890.0	41.70	62.10
5	128.0	937.0	850.0	1078.0	978.0	46.20	68.80

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SPIN RESISTANT TYPES

NOMINAL STRENGTHS OF WIRE ROPE

8 x 19 Classification/Bright (Uncoated), or Drawn-Galvanized, Fiber Core

NOMINAL DIAMETER		NOMINAL STRENGTH*		APPROX. MASS	
		IMPROVED PLOW STEEL			
INCHES	MM	TONS	METRIC TONS	LBS./FT.	KG/M
1/4	6.5	2.35	2.13	0.10	0.15
5/16	8.0	3.65	3.31	0.15	0.22
3/8	9.5	5.24	4.75	0.22	0.33
7/16	11.5	7.09	6.43	0.30	0.45
1/2	13.0	9.23	8.37	0.39	0.58
9/16	14.5	11.60	10.50	0.50	0.74
5/8	16.0	14.30	13.00	0.61	0.91
3/4	19.0	20.50	18.60	0.88	1.31
7/8	22.0	27.70	25.10	1.20	1.79
1	26.0	36.60	32.70	1.57	2.34
1-1/8	29.0	45.30	41.10	1.99	2.96
1-1/4	32.0	55.70	50.50	2.45	3.65
1-3/8	35.0	67.10	60.70	2.97	4.42
1-1/2	38.0	79.40	72.00	3.53	5.25

8 x 19 Classification/Bright (Uncoated), or Drawn-Galvanized, IWRC

NOMINAL DIAMETER		NOMINAL STRENGTH*				APPROX. MASS	
		IMPROVED PLOW STEEL		EXTRA IMPROVED PLOW STEEL			
INCHES	MM	TONS	METRIC TONS	TONS	METRIC TONS	LBS./FT.	KG/M
1/2	13.0	10.10	9.16	11.6	10.5	0.47	0.70
9/16	14.5	12.80	11.60	14.7	13.3	0.60	0.89
5/8	16.0	15.70	14.20	18.1	16.4	0.73	1.09
3/4	19.0	22.50	20.40	25.9	23.5	1.06	1.58
7/8	22.0	30.50	27.70	35.0	31.8	1.44	2.14
1	26.0	39.60	35.90	45.5	41.3	1.88	2.80
1-1/8	29.0	49.80	45.20	57.3	51.7	2.39	3.56

NOMINAL STRENGTHS OF WIRE ROPE

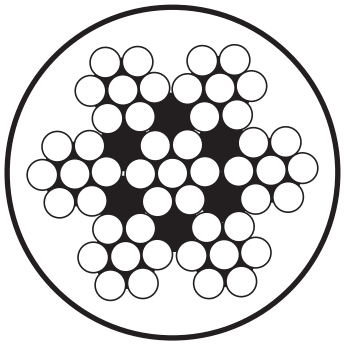
18 x 7 Classification/Bright (Uncoated), or Drawn-Galvanized Wire, Fiber Core

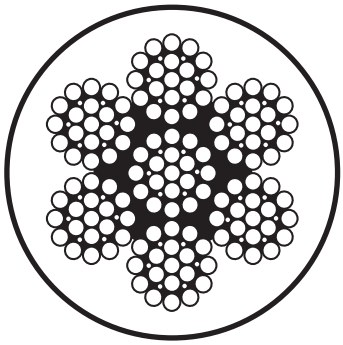
NOMINAL DIAMETER		NOMINAL STRENGTH*				APPROX. MASS	
		IMPROVED PLOW STEEL		EXTRA IMPROVED PLOW STEEL			
INCHES	MM	TONS	METRIC TONS	TONS	METRIC TONS	LBS./FT.	KG/M
1/2	13.0	9.85	8.94	10.8	9.8	0.43	0.64
9/16	14.5	12.40	11.20	13.6	12.3	0.55	0.82
5/8	16.0	15.30	18.90	16.8	15.2	0.68	1.01
3/4	19.0	21.80	19.80	24.0	21.8	0.97	1.44
7/8	22.0	29.50	26.80	32.5	29.5	1.32	1.96
1	26.0	38.30	34.70	42.2	38.3	1.73	2.57
1-1/8	29.0	48.20	43.70	53.1	48.2	2.19	3.26
1-1/4	32.0	59.20	53.70	65.1	59.1	2.70	4.02
1-3/8	35.0	71.30	64.70	78.4	71.1	3.27	4.87
1-1/2	38.0	84.40	76.60	92.8	84.2	3.89	5.79

19 x 7 Classification/Bright (Uncoated), or Drawn-Galvanized Wire, Fiber Core

NOMINAL DIAMETER		NOMINAL STRENGTH*				APPROX. MASS	
		IMPROVED PLOW STEEL		EXTRA IMPROVED PLOW STEEL			
INCHES	MM	TONS	METRIC TONS	TONS	METRIC TONS	LBS./FT.	KG/M
1/2	13.0	9.85	8.94	10.8	9.8	0.45	0.67
9/16	14.5	12.40	11.20	13.6	12.3	0.58	0.86
5/8	16.0	15.30	18.90	16.8	15.2	0.71	1.06
3/4	19.0	21.80	19.80	24.0	21.8	1.02	1.52
7/8	22.0	29.50	26.80	32.5	29.5	1.39	2.07
1	26.0	38.30	34.70	42.2	38.3	1.82	2.71
1-1/8	29.0	48.20	43.70	53.1	48.2	2.30	3.42
1-1/4	32.0	59.20	53.70	65.1	59.1	2.84	4.23
1-3/8	35.0	71.30	64.70	78.4	71.1	3.43	5.10
1-1/2	38.0	84.40	76.60	92.8	84.2	4.08	6.07

AIRCRAFT CABLES





VINYL COATED (GALVANIZED)

CABLE DIAMETER (INCHES)	COATED TO (INCHES)	APPROX. WT. PER 1000 FT. (LBS.)	BREAKING STRENGTH (LBS.)	CONSTRUCTION
1/16	3/32	9.3	480	7 x 7
1/16	1/8	11.8	480	7 x 7
3/32	1/8	18.5	920	7 x 7
3/32	3/16	25.8	920	7 x 7
1/8	3/16	46.3	1700	7 x 7
3/32	1/8	19.9	1000	7 x 19
1/8	3/16	36.2	2000	7 x 19
3/16	1/4	77.5	4200	7 x 19
1/4	5/16	123.0	7000	7 x 19
5/16	3/8	197.0	9800	7 x 19
3/8	7/16	270.0	14400	7 x 19

Other sizes, constructions, metals and coating available upon request.

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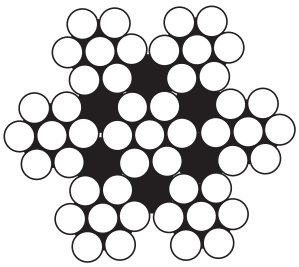
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AIRCRAFT CABLES

GALVANIZED

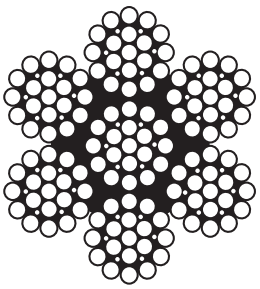
DIAMETER (INCHES)	CONSTRUCTION	MINIMUM BREAK STRENGTH (LBS.)	RATED LOAD (LBS.)	WEIGHT PER 100 FT. (LBS.)
1/16	7 x 7	480	100	0.8
3/32	7 x 7	920	180	1.6
1/8	7 x 7	1700	340	2.8
1/8	7 x 19	2000	400	2.9
5/32	7 x 7	2600	520	4.3
5/32	7 x 19	2800	560	4.5
3/16	7 x 7	3700	740	6.2
3/16	7 x 19	4200	840	6.5
7/32	7 x 19	5600	1120	8.6
1/4	7 x 19	7000	1400	11.0
9/32	7 x 19	8000	1600	13.9
5/16	7 x 19	9800	1960	17.3
3/8	7 x 19	14400	2880	24.3



7 X 7

STAINLESS STEEL

DIAMETER (INCHES)	CONSTRUCTION	MINIMUM BREAK STRENGTH (LBS.)	RATED LOAD (LBS.)	WEIGHT PER 100 FT. (LBS.)
1/16	7 x 7	480	100	0.8
3/32	7 x 7	920	180	1.6
1/8	7 x 7	1700	340	2.8
1/8	7 x 19	1760	350	2.9
5/32	7 x 7	2600	480	4.3
5/32	7 x 19	2800	560	4.5
3/16	7 x 7	3700	740	6.2
3/16	7 x 19	3700	740	6.5
7/32	7 x 19	5000	1000	8.6
1/4	7 x 19	6400	1280	11.0
9/32	7 x 19	7800	1560	13.9
5/16	7 x 19	9000	1800	17.3
3/8	7 x 19	12000	2400	24.3
7/16	6 x 19	16300	3300	35.0
1/2	6 x 19	22800	4700	46.0
9/16	6 x 19	28500	5900	59.0
5/8	6 x 19	35000	7200	72.0
3/4	6 x 19	49600	10300	104.0



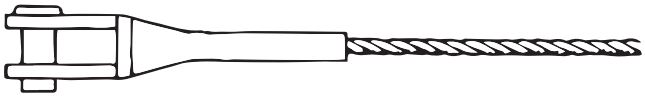
7 X 19

FITTINGS ATTACHMENT

End fittings, or attachments are available in many designs, some of which were developed for particular applications. The six shown are among the most commonly used.



WIRE ROPE SOCKET - SPELTER (ZINC) OR RESIN ATTACHMENT.



WIRE ROPE SOCKET - SWAGED



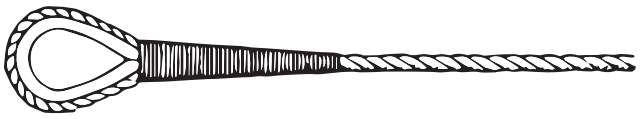
MECHANICAL SPLICE - LOOP OR THIMBLE ATTACHMENT



WEDGE SOCKET



CLIPS - NUMBER OF CLIPS VARIES WITH ROPE SIZE



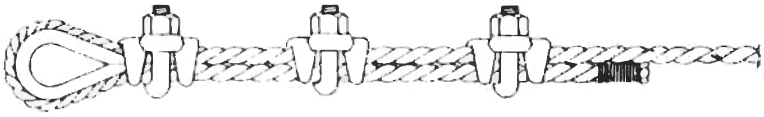
LOOP OR THIMBLE SPLICE - HAND TUCKED

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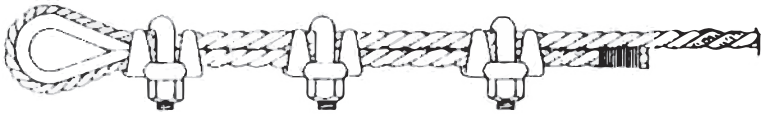
RECOMMENDED METHOD OF APPLYING WIRE ROPE CLIPS



RIGHT WAY FOR MAXIMUM ROPE STRENGTH



WRONG WAY — CLIPS STAGGERED



WRONG WAY — CLIPS REVERSED

U-BOLT CLIPS RECOMMENDED METHOD OF APPLYING U-BOLT WIRE ROPE CLIPS

1. Turn back the specified amount of rope from the thimble. Apply the first clip one base width from the dead end of the wire rope (U-bolt over dead end—live end rests in clip saddle.) Tighten nuts evenly to recommended torque.
2. Apply the next clip as near the loop as possible. Turn on nuts firm but do not tighten.
3. Space additional clips if required equally between the first two. Turn on nuts (take up rope slack) tighten all nuts evenly on all clips to recommended torque.
4. NOTICE! Apply the initial load and retighten nuts to the recommended torque. Rope will stretch and shrink in diameter when loads are applied. Inspect periodically and retighten.

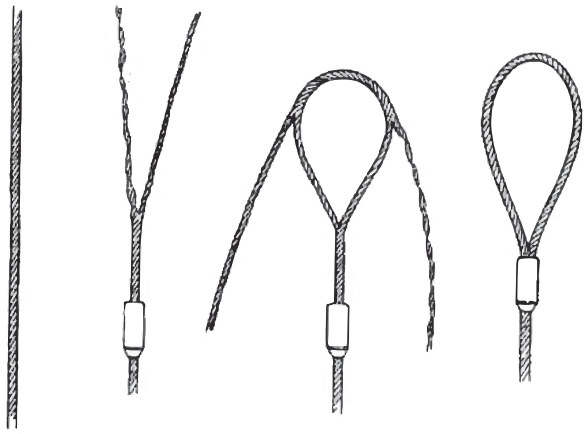
TWIN BASE CLIPS RECOMMENDED METHOD OF APPLYING TWIN BASE ROPE CLIPS

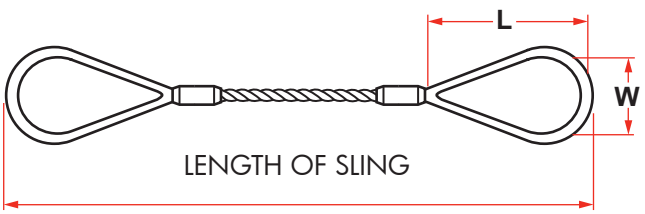
1. Turn back the specified amount of rope from the thimble. Apply the first clip one base width from the dead end of the wire rope tighten nuts evenly to recommended torque.
2. Apply the next clip as near the loop as possible. Turn on nuts firm but do not tighten.
3. Space additional clips if required equally between the first two. Turn on nuts (take up rope slack) tighten all nuts evenly on all clips to recommended torque.
4. NOTICE! Apply the initial load and retighten nuts to the recommended torque. Rope will stretch and shrink in diameter when loads are applied. Inspect periodically and retighten.

IMPORTANT: Failure to make a termination in accordance with aforementioned instructions or failure to periodically check and retighten to the recommended torque will cause a reduction in aformentioned efficiency rating.

SINGLE LEG WIRE ROPE SLINGS

In the flemish eye mechanical splice, rope is separated into two parts — 3 adjacent strands and 3 adjacent strands and core. These are then re-laid back in opposite directions to form an eye, and secured with a pressed metal sleeve.





SINGLE PART SLINGS



HAND SPLICE

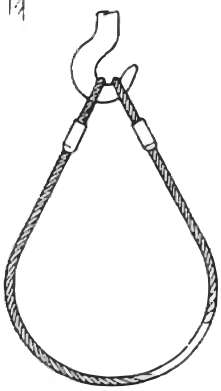


MECHANICAL SPLICE

LENGTH MEASURED BEARING TO BEARING OF LOOPS



CHOKER HITCH

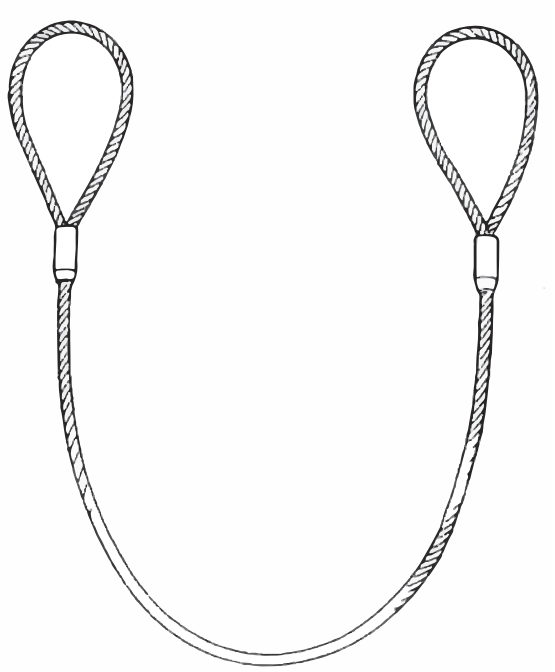


BASKET HITCH

RATE CAPACITIES IN TONS OF 2,000 POUNDS					ROPE DIAMETER (INCHES)	LOOP DIMENSIONS (INCHES)	
STRAIGHT PULL	CHOKER HITCH	BASKET HITCH				W	L
		30°	45°	60°			
0.56	0.42	0.97	0.79	0.56	1/4	2	4
0.87	0.65	1.50	1.20	0.87	5/16	2-1/2	5
1.20	0.93	2.10	1.80	1.20	3/8	3	6
1.70	1.30	2.90	2.40	1.70	7/16	3-1/2	7
2.20	1.60	3.80	3.10	2.20	1/2	4	8
2.70	2.10	4.80	3.90	2.70	9/16	4-1/2	9
3.40	2.50	5.90	4.80	3.40	5/8	5	10
4.90	3.60	8.40	6.90	4.90	3/4	6	12
6.60	4.90	11.00	9.30	6.60	7/8	7	14
8.50	6.40	15.00	12.00	8.50	1	8	16
10.00	7.80	18.00	15.00	10.00	1-1/8	9	18

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BASKET HITCH

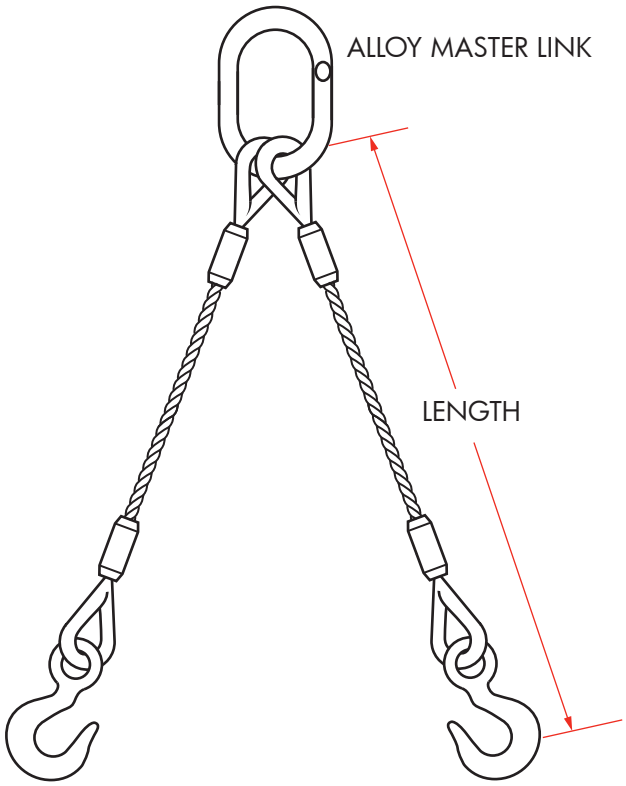


6 x 19, 6 x 37 Type, I.P.S., IWRC

ROPE (INCHES)	EYE SIZE (INCHES)		RECOMMENDED MINIMUM LENGTH	RATED CAPACITY (TONS 2,000 LBS) *					
	W	L		STRAIGHT PULL	CHOKER HITCH	BASKET HITCH			
						VERTICAL	30°	45°	60°
1/4	3	6	1' 6"	0.56	0.42	1.1	0.97	0.79	0.56
5/16	3	6	1' 10"	0.87	0.65	1.7	1.5	1.2	0.87
3/8	3	6	1' 10"	1.2	0.93	2.5	2.2	1.8	1.2
7/16	4	8	2' 4"	1.7	1.3	3.4	2.9	2.4	1.7
1/2	4	8	2' 6"	2.2	1.6	4.4	3.8	3.1	2.2
9/16	4	8	2' 8"	2.8	2.1	5.5	4.8	3.9	2.8
5/8	5	10	3' 2"	3.4	2.6	6.8	5.9	4.8	3.4
3/4	6	12	3' 8"	4.9	3.6	9.7	8.4	6.9	4.9
7/8	7	14	4' 4"	6.6	4.9	13.0	11.0	9.3	6.6
1	8	16	4' 10"	8.5	6.4	17.0	15.0	12.0	8.5
1-1/8	9	18	5' 6"	10.0	7.8	21.0	18.0	15.0	10.0
1-1/4	10	20	6' 2"	13.0	9.6	26.0	22.0	18.0	13.0
1-3/8	11	22	6' 10"	15.0	12.0	31.0	27.0	22.0	15.0
1-1/2	12	24	7' 4"	18.0	14.0	37.0	32.0	26.0	18.0
1-3/4	14	28	8' 6"	25.0	18.0	49.0	43.0	35.0	25.0
2	16	32	9' 10"	32.0	24.0	64.0	55.0	45.0	32.0

TWO-LEGGED BRIDLE

Rated Capacity for two-legged bridles whether used as chokers or with hooks or other end fixures, is affected by rigging angles, the same as straight slings in basket hitches. Note reduction in rated capacity as legs spread to wider angles.

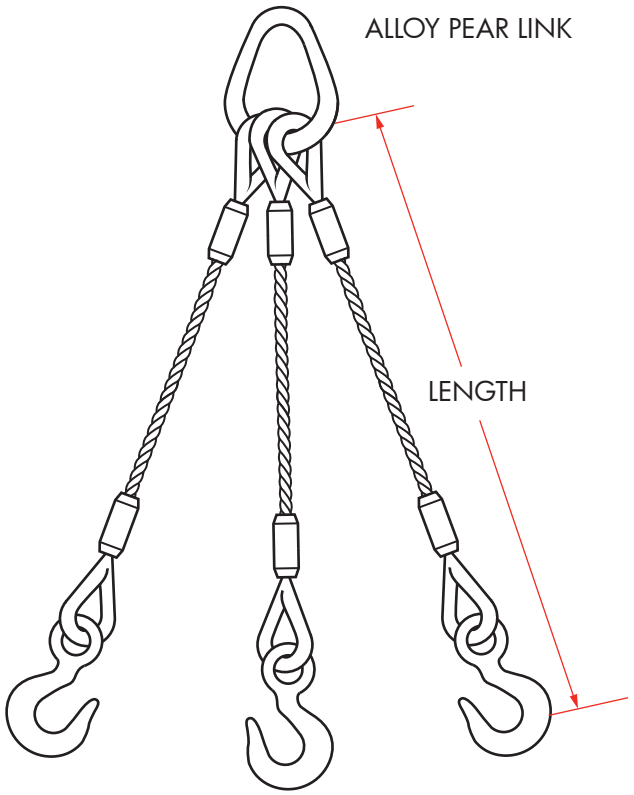


6 x 19, 6 x 37 Type, I.P.S., IWRC

ROPE (INCHES)	RECOMMENDED MINIMUM LENGTH	RATED CAPACITY (TONS 2,000 LBS) *				FITTINGS	
		STRAIGHT PULL	30°	45°	60°	HOOK SIZE (TONS)	ALLOY MASTER LINKS SIZE (INCHES)
1/4	1' 6''	1.10	0.97	0.79	0.56	0.75	1/2
5/16	1' 8''	1.70	1.50	1.20	0.87	1.00	5/8
3/8	1' 10''	2.50	2.20	1.80	1.20	1.50	3/4
7/16	2' 4''	3.40	2.90	2.40	1.70	2.00	7/16
1/2	2' 6''	4.40	3.80	3.10	2.20	2.50	1
9/16	2' 10''	5.50	4.80	3.90	2.80	3.00	1-1/4
5/8	3' 4''	6.80	5.90	4.80	3.40	4.00	1-1/4
3/4	3' 8''	9.70	8.40	6.90	4.90	5.00	1-1/4
7/8	4' 4''	13.00	11.00	9.30	6.60	7.50	1-1/2
1	5'	17.00	15.00	12.00	8.50	10.00	1-3/4
1-1/8	5' 10''	21.00	18.00	15.00	10.00	12.00	1-3/4
1-1/4	6' 6''	26.00	22.00	18.00	13.00	15.00	1-7/8
1-3/8	7'	31.00	27.00	22.00	15.00	20.00	2-1/8
1-1/2	7' 6''	37.00	32.00	26.00	18.00	20.00	2-1/4
1-3/4	9' 2''	49.00	43.00	35.00	25.00	25.00	2-1/2

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THREE-LEGGED BRIDLE



SINGLE PART BODY SLINGS

Multi-legged bridles — with two, three or four straight legs — are offered with plain eyes, thimble eyes, open or closed sockets, shackles and turnbuckles. If required, rings or alloy oblong links can be supplied rather than the pear shaped links shown.

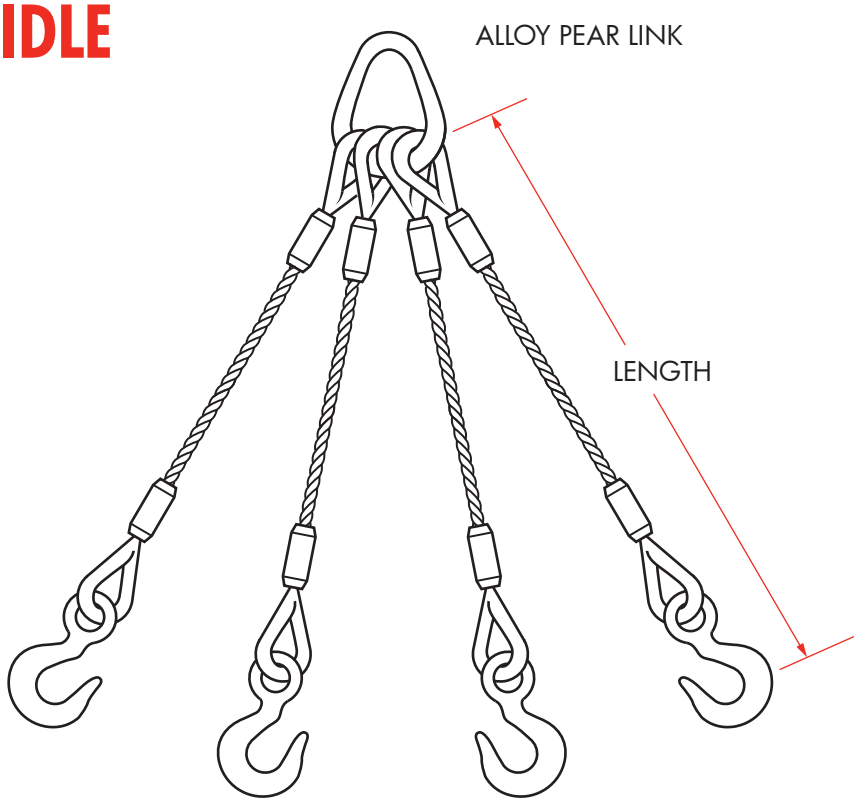
Rated capacities for 3 and 4 bridle slings are based on equal leg slings with the sling angle being the greatest angle measured between any two of the sling legs.

6 x 19, 6 x 37 Type, I.P.S., IWRC

ROPE (INCHES)	RECOMMENDED MINIMUM LENGTH	RATED CAPACITY (TONS 2,000 LBS) *				FITTINGS	
		STRAIGHT PULL	30°	45°	60°	HOOK SIZE (TONS)	ALLOY PEAR LINKS SIZE (INCHES)
1/4	1' 6''	1.70	1.50	1.20	0.84	0.75	5/8
5/16	1' 8''	2.60	2.30	1.80	1.30	1.00	3/4
3/8	1' 10''	3.70	3.20	2.60	1.90	1.50	7/8
7/16	2' 4''	5.10	4.40	3.60	2.50	2.00	1
1/2	2' 6''	6.60	5.70	4.60	3.30	2.50	1-1/4
9/16	2' 10''	8.30	7.20	5.80	4.10	3.00	1-1/4
5/8	3' 4''	10.00	8.80	7.20	5.10	4.00	1-1/4
3/4	3' 8''	15.00	13.00	10.00	7.30	5.00	1-1/2
7/8	4' 4''	20.00	17.00	14.00	9.90	7.50	1-3/4
1	5'	26.00	22.00	18.00	13.00	10.00	1-3/4
1-1/8	5' 10''	31.00	27.00	22.00	16.00	12.00	2-1/8
1-1/4	6' 6''	39.00	33.00	27.00	19.00	15.00	2-1/2
1-3/8	7'	46.00	40.00	33.00	23.00	20.00	2-1/2 (2-3/4)*
1-1/2	7' 6''	55.00	48.00	39.00	27.00	20.00	2-3/4 (3)*
1-3/4	9' 2''	74.00	64.00	52.00	37.00	25.00	3 (3-1/4)*

* Links in parentheses are needed for adequate space when thimbles are used in the slings eyes at the link.

FOUR-LEGGED BRIDLE

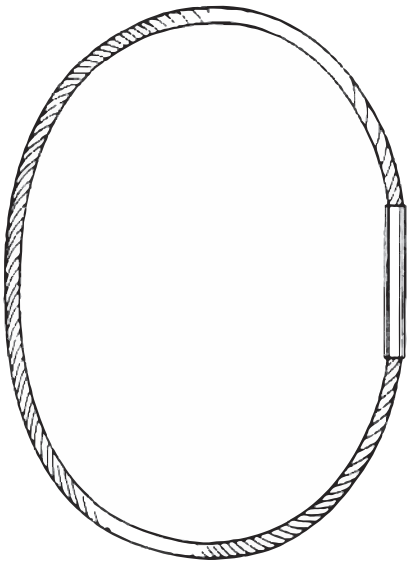


6 x 19, 6 x 37 Type, I.P.S., IWRC

ROPE (INCHES)	RECOMMENDED MINIMUM LENGTH	RATED CAPACITY (TONS 2,000 LBS) *				FITTINGS	
		STRAIGHT PULL	30°	45°	60°	HOOK SIZE (TONS)	ALLOY PEAR LINKS SIZE (INCHES)
1/4	1' 6''	2.20	1.90	1.60	1.10	0.75	3/4
5/16	1' 8''	3.50	3.00	2.50	1.70	1.00	7/8
3/8	1' 10''	5.00	4.30	3.50	2.50	1.50	1
7/16	2' 4''	6.80	5.80	4.80	3.40	2.00	1-1/4 **
1/2	2' 6''	8.70	7.60	6.20	4.40	2.50	1-1/4
9/16	2' 10''	11.00	9.50	7.80	5.5	3.00	1-1/4 (1-3/8)
5/8	3' 4''	14.00	12.00	9.60	6.80	4.00	1-1/2
3/4	3' 8''	19.00	17.00	14.00	9.70	5.00	1-3/4
7/8	4' 4''	26.00	23.00	19.00	13.00	7.50	1-7/16 (2)
1	5'	34.00	30.00	24.00	17.00	10.00	2-1/8 (2-1/4)
1-1/8	5' 10''	42.00	36.00	30.00	21.00	12.00	2-1/2 (2-1/2)
1-1/4	6' 6''	51.00	44.00	36.00	26.00	15.00	2-3/4 (3)***
1-3/8	7'	62.00	54.00	44.00	31.00	20.00	2-3/4 (3-1/4)
1-1/2	7' 6''	73.00	63.00	52.00	37.00	20.00	3 (3-1/4)

* Links in parentheses are needed for adequate space when thimbles are used in the slings eyes at the link.
** If thimbles are used, use 1/2'' thimbles. *** If thimbles are used, use 1-3/8'' thimbles.

GROMMET SLINGS



6 x 19, 6 x 37 Classification, IPS, IWRC

ROPE GROMMETS

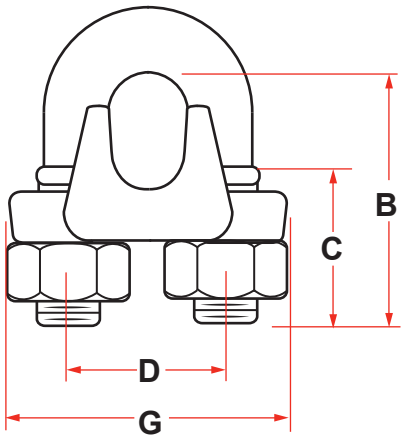
SIZE (INCHES)	RATED CAPACTIY (TONS 2,000 LBS)					
	STRAIGHT PULL	CHOKER HITCH	BASKET HITCH			
			VERTICAL	30°	45°	60°
1/4	0.85	0.64	1.7	1.5	1.2	0.8
3/8	1.9	1.4	3.8	3.3	2.7	1.9
1/2	3.3	2.5	6.7	5.8	4.7	3.4
5/8	5.2	3.9	10.0	8.6	7.1	5.0
3/4	7.4	5.6	15.0	13.0	11.0	7.5
7/8	10.0	7.5	20.0	17.0	14.0	10.0
1	13.0	9.7	26.0	23.0	18.0	13.0
1-1/8	16.0	12.0	32.0	28.0	23.0	16.0
1-1/4	19.0	15.0	39.0	34.0	27.0	19.0
1-3/8	23.0	18.0	47.0	40.0	33.0	23.0
1-1/2	28.0	21.0	55.0	48.0	39.0	28.0

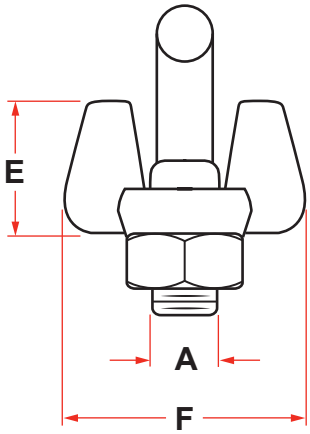
CABLE LAID GROMMETS

SIZE (INCHES)	RATED CAPACTIY (TONS 2,000 LBS)					
	STRAIGHT PULL	CHOKER HITCH	BASKET HITCH			
			VERTICAL	30°	45°	60°
3/8	1.6	1.2	3.2	2.8	2.3	1.6
9/16	3.5	2.6	6.9	6.0	4.9	3.4
5/8	4.5	3.4	9.0	7.8	6.3	4.5
3/4	5.1	3.8	10.0	8.8	7.2	5.0
15/16	7.9	5.9	16.0	14.0	11.0	8.0
1-1/8	11.0	8.4	22.0	19.0	16.0	11.0
1-5/16	15.0	11.0	30.0	26.0	21.0	15.0
1-1/2	19.0	14.0	39.0	33.0	27.0	19.0
1-11/16	24.0	18.0	49.0	42.0	34.0	24.0
1-7/8	30.0	22.0	60.0	52.0	42.0	30.0
2-1/4	42.0	31.0	84.0	73.0	59.0	42.0
2-5/8	56.0	42.0	112.0	97.0	79.0	56.0

* Rated loads are based on a diameter of curvature of 5 times the individual rope diameter at points of sling contact with load.

WIRE ROPE CLIPS





DROP FORGED U-BOLT TYPE

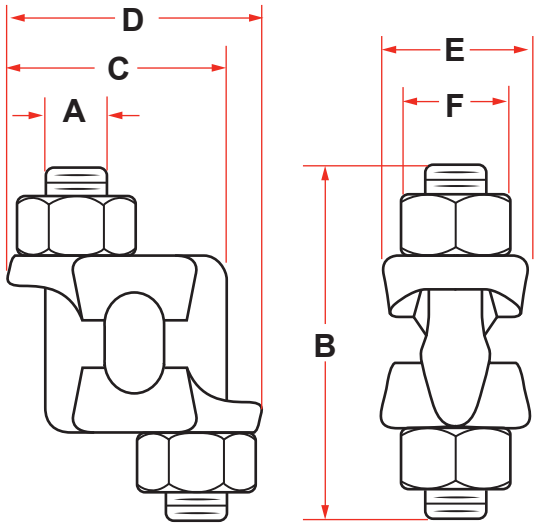
Meets Federal Specification FF-C-450 Type 1 Class-1.

CLIP AND ROPE SIZE (INCHES)	DIMENSIONS (INCHES)							MINIMUM NUMBER OF CLIPS REQUIRED	TORQUE IN FT. (LBS.)	MINIMUM ROPE TURNBACK (INCHES)	WEIGHT LBS. PER 100
	A	B	C	D	E	F	G				
1/8	7/32	23/32	7/16	15/32	13/32	13/16	15/16	2	4.5	3-1/4	5
3/16	1/4	31/32	9/16	19/32	1/2	15/16	1-5/32	2	4.5	3-3/4	9
1/4	5/16	1-1/32	1/2	3/4	21/32	1-3/16	1-7/16	2	15	4-3/4	18
5/16	3/8	1-3/8	3/4	7/8	23/32	1-5/16	1-11/16	2	30	5-1/4	30
3/8	7/16	1-1/2	3/4	1	29/32	1-5/8	1-15/16	2	45	6-1/2	42
7/16	1/2	1-7/8	1	1-3/16	1-1/32	1-13/16	2-9/32	2	65	7	70
1/2	1/2	1-7/8	1	1-3/16	1-1/8	1-29/32	2-9/32	3	65	11-1/2	75
9/16	9/16	2-1/4	1-1/4	1-5/16	1-7/32	2-1/16	2-1/2	3	95	12	100
5/8	9/16	2-3/8	1-1/4	1-5/16	1-11/32	2-1/16	2-1/2	3	95	12	100
3/4	5/8	2-3/4	1-7/16	1-1/2	1-13/32	2-1/4	2-27/32	4	130	18	150
7/8	3/4	3-1/8	1-5/8	1-3/4	1-19/32	2-7/16	3-5/32	4	225	19	240
1	3/4	3-1/2	1-13/16	1-7/8	1-25/32	2-5/8	3-15/32	5	225	26	250
1-1/8	3/4	3-7/8	2	2	1-29/32	2-13/16	3-19/32	6	225	34	310
1-1/4	7/8	4-1/4	2-1/8	2-5/16	2-3/16	3-1/8	4-1/8	7	360	44	460
1-3/8	7/8	4-5/8	2-5/16	2-3/8	2-5/16	3-1/8	4-3/16	7	360	44	520
1-1/2	7/8	4-15/16	2-3/8	2-19/32	2-17/32	3-13/32	4-7/16	8	360	54	590
1-5/8	1	5-5/16	2-5/8	2-3/4	2-21/32	3-5/8	4-3/4	8	430	58	730
1-3/4	1-1/8	5-3/4	2-3/4	3-1/16	2-15/16	3-13/16	5-9/32	8	590	61	980
2	1-1/4	6-7/16	3	3-3/8	3-9/32	4-7/16	5-7/8	8	750	71	1340
2-1/4	1-1/4	7-1/8	3-3/16	3-7/8	3-15/16	4-9/16	6-3/8	8	750	73	1570
2-1/2	1-1/4	7-11/16	3-7/16	4-1/8	4-7/16	4-11/16	6-5/8	9	750	84	1790
2-3/4	1-1/4	8-5/16	3-9/16	4-3/8	4-7/8	5	6-7/8	10	750	100	2200
3	1-1/2	9-3/16	3-7/8	4-3/4	5-11/32	5-5/16	7-5/8	10	1200	106	3200
3-1/2	1-1/2	10-3/4	4-1/2	5-1/2	6	6-3-16	8-3/8	12	1200	149	4000

Furnished in galvanized finish. Also Available in stainless steel and bronze.

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DROP FORGED TWIN BASE TYPE (FIST GRIP)

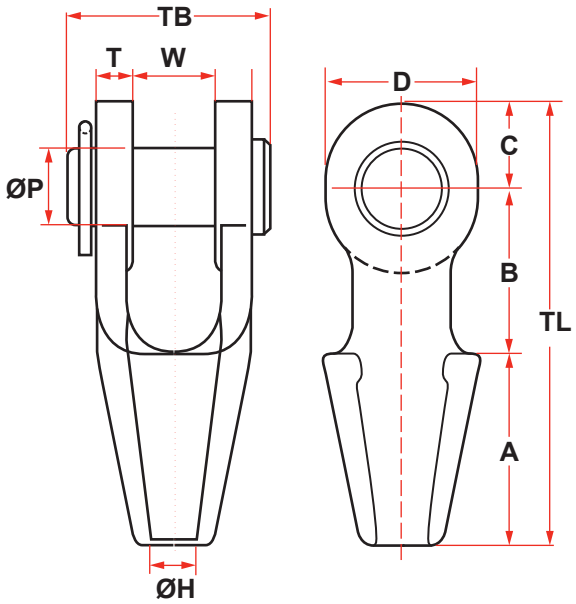


Meets Federal Specification FF-C-450 Type III.

CLIP AND ROPE SIZE (INCHES)	DIMENSIONS (INCHES)						MINIMUM NUMBER OF CLIPS REQUIRED	TORQUE IN FT. (LBS.)	MINIMUM ROPE TURNBACK (INCHES)	WEIGHT LBS. PER 100
	A	B	C	D	E	F				
3/16	3/8	1-5/8	1-1/4	1-15/32	15/16	11/16	2	30	4	21.00
1/4	3/8	1-5/8	1-1/4	1-15/32	15/16	11/16	2	30	4	21.00
5/16	3/8	1-15/16	1-11/32	1-9/16	1-1/16	11/16	2	30	5	27.08
3/8	7/16	2-3/8	1-19/32	1-7/8	1-1/16	3/4	2	45	5-1/2	45.00
7/16	1/2	2-3/4	1-7/8	2-3/16	1-1/4	7/8	2	65	6-1/2	65.00
1/2	1/2	2-3/4	1-7/8	2-3/16	1-1/4	7/8	3	65	11	65.00
9/16	5/8	3-1/2	2-9/32	2-5/8	1-1/2	1-1/16	3	130	12-3/4	112.50
5/8	5/8	3-1/2	2-9/32	2-5/8	1-1/2	1-1/16	3	130	13-1/2	112.50
3/4	3/4	3-3/4	2-11/16	3-1/16	1-13/16	1-1/4	3	225	16	143.75
7/8	3/4	4-1/8	2-31/32	3-1/8	2-1/8	1-1/4	4	225	26	200.60
1	3/4	4-5/8	3-1/16	3-17/32	2-1/4	1-1/4	5	225	37	260.00
1-1/8	7/8	5-1/4	3-7/16	3-29/32	2-3/8	1-7/16	5	360	41	325.00
1-1/4	7/8	5-1/4	3-9/16	4-1/32	2-1/2	1-7/16	6	360	55	425.00
1-3/8	1	7	4-1/8	4-21/32	3	1-5/8	6	500	62	700.00
1-1/2	1	7	4-1/8	4-21/32	3	1-5/8	7	500	78	700.00

Furnished in galvanized finish. Also Available in stainless steel and bronze.

OPEN SPELTER SOCKET WITH PIN

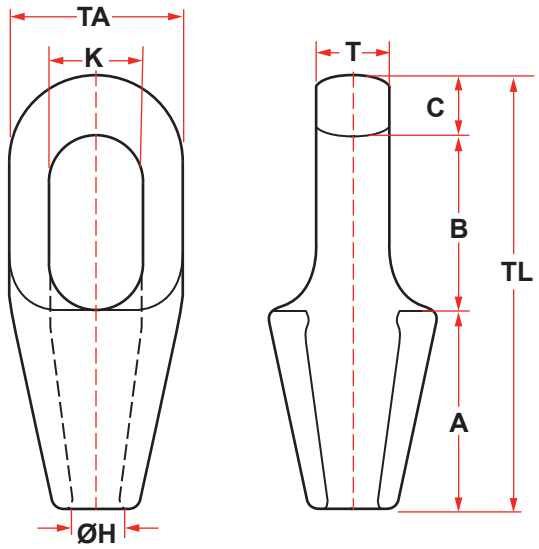


ALLOY CAST STEEL

MODEL NO	MBL (US TONS)	FOR WIRE Ø		DIMENSIONS (INCHES)										WEIGHT (LBS)
		MM	INCHES	A	B	C	D	ØH	Ø P	T	TL	TB	W	
OSS 196 P	9	6 - 7	1/4	1-15/16	1-9/16	3/4	1-15/16	5/16	5/8	3/8	4-5/16	2	3/4	1
OSS 197 P	13	8 - 10	3/8	2-1/4	1-3/4	7/8	1-5/8	1/2	13/16	7/16	4-7/8	2-1/2	13/16	2
OSS 198 P	22	11 - 13	7/16 - 1/2	2-1/2	2	1-1/16	1-15/16	9/16	1	1/2	5-9/16	2-5/8	1	2
OSS 199 P	28	14 - 16	9/16 - 5/8	3	2-1/2	1-1/4	2-5/16	11/16	1-3/16	9/16	6-3/4	3-3/8	1-1/4	4
OSS 100 P	44	18 - 19	3/4	3-1/2	3	1-9/16	2-3/4	13/16	1-3/8	5/8	8-1/16	3-3/4	1-1/2	7
OSS 104 P	61	20 - 22	7/8	4	3-1/2	1-3/4	3-1/8	15/16	1-5/8	3/4	9-1/4	4-5/16	1-3/4	10
OSS 108 P	83	23 - 26	1	4-1/2	4	2-3/8	4-1/8	1-1/8	2	7/8	10-13/16	5-1/16	2	18
OSS 111 P	99	27 - 30	1-1/8	5	4-1/2	2-9/16	4-1/2	1-1/4	2-1/4	1	12-1/16	5-9/16	2-1/4	26
OSS 115 P	138	31 - 36	1-1/4 - 1-3/8	5-1/2	5	2-13/16	4-15/16	1-1/2	2-1/2	1-1/8	13-5/16	6-1/8	2-1/2	35
OSS 118 P	165	37 - 39	1-1/2	6	6-3/8	3-1/8	5-9/16	1-5/8	2-3/4	1-3/16	15-1/2	6-15/16	3	51
OSS 120 P	187	40 - 42	1-5/8	6-1/2	6-1/2	3-7/16	6-1/8	1-3/4	3	1-5/16	16-7/16	7-3/8	3	60
OSS 125 P	248	43 - 48	1-3/4 - 1-7/8	7-1/2	7	3-15/16	6-15/16	2	3-1/2	1-9/16	18-7/16	8-7/16	3-1/2	90
OSS 128 P	309	49 - 54	2 - 2-1/8	8-1/2	9	4-1/4	7-5/8	2-1/4	3-3/4	1-13/16	21-3/4	9-5/8	4	128
OSS 130 P	397	55 - 60	2-1/4 - 2-3/8	9	9-13/16	4-3/4	8-1/4	2-1/2	4-1/4	2-1/16	23-9/16	10-13/16	4-7/16	187
OSS 132 P	468	61 - 68	2-1/2 - 2-5/8	9-3/4	10-3/4	5-1/4	9-5/16	2-7/8	4-3/4	2-3/8	25-3/4	11-13/16	5	260
OSS 135 P	507	69 - 75	2-3/4 - 2-7/8	11	11	5-7/16	9-7/16	3-1/8	5	2-7/8	27-3/8	13-3/16	5-1/4	342
OSS 138 P	617	76 - 80	3 - 3-1/8	12	11-1/4	5-3/4	9-15/16	3-3/8	5-1/4	3	29	14	5-3/4	381
OSS 140 P	689	81 - 86	3-1/4 - 3-3/8	13	11-3/4	6-5/16	11-7/16	3-5/8	5-1/2	3-1/8	31	14-3/4	6-1/4	507
OSS 142 P	794	87 - 93	3-1/2 - 3-5/8	14	12-1/2	7	12-5/8	3-7/8	6	3-1/4	33-9/16	15-3/4	6-3/4	584
OSS 144 P	965	94 - 102	3-3/4 - 4	15	13-1/2	7-1/2	13-3/4	4-1/4	7	3-1/2	36	17-1/8	7-1/2	816
OSS 146 P	1323	108 - 115	4-1/4 - 4-1/2	17-11/16	18-7/8	8-7/16	15-3/4	4-15/16	7-11/16	3-15/16	45-1/16	18-5/16	8-1/16	1157
OSS 150 P	1433	120 - 130	4-3/4 - 5	19-11/16	19-11/16	9-13/16	17-11/16	5-5/8	8-11/16	4-5/16	49-3/16	20-11/16	8-7/8	1620

MBL = Minimum Breaking Load
Our standard sockets are delivered in blue colour paint. Hot dipped galvanized is also available. All sockets can be provided with Declaration of compliance according EN 1024-2.1, Material certificate according EN 10204-3.1 and EC Declaration according machine directive 98/37/EC.

CLOSED SPELTER SOCKET

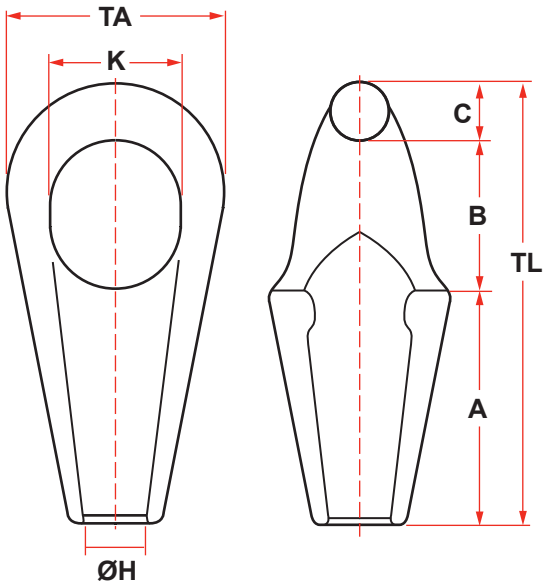


ALLOY CAST STEEL

MODEL NO.	MBL (US TONS)	FOR WIRE Ø		DIMENSIONS (INCHES)								WEIGHT (LBS)
		MM	INCHES	A	B	C	ØH	K	T	TA	TL	
CSS 296	9	6 - 7	1/4	1-15/16	1-9/16	7/16	5/16	7/8	1/2	1-7/16	4	1
CSS 297	13	8 - 10	3/8	2-1/4	1-7/8	9/16	1/2	1	11/16	1-11/16	4-11/16	1
CSS 298	22	11 - 13	7/16 - 1/2	2-1/2	2-5/16	11/16	9/16	1-3/16	7/8	2	5-1/2	2
CSS 299	28	14 - 16	9/16 - 5/8	3	2-9/16	13/16	11/16	1-7/16	1	2-5/8	6-3/8	3
CSS 200	44	18 - 19	3/4	3-1/2	3-1/16	1-1/16	13/16	1-5/8	1-1/4	3	7-5/8	5
CSS 201	61	20 - 22	7/8	4	3-9/16	1-5/16	15/16	1-7/8	1-1/2	3-5/8	8-13/16	8
CSS 204	83	23 - 26	1	4-1/2	4-1/16	1-7/16	1-1/8	2-1/4	1-3/4	4-1/8	9-15/16	12
CSS 207	99	27 - 30	1-1/8	5	4-9/16	1-9/16	1-1/4	2-1/2	2	4-1/2	11-1/8	15
CSS 212	138	31 - 36	1-1/4 - 1-3/8	5-1/2	5-1/8	1-11/16	1-1/2	2-3/4	2-1/4	5	12-5/16	21
CSS 215	165	37 - 39	1-1/2	6	6-1/8	2	1-5/8	3-1/8	2-1/2	5-3/8	14-1/8	29
CSS 217	187	40 - 42	1-5/8	6-1/2	6-3/4	2-1/8	1-3/4	3-1/4	2-3/4	5-3/4	15-3/8	37
CSS 219	248	43 - 48	1-3/4 - 1-7/8	7-1/2	7-13/16	2-3/16	2	3-11/16	3	6-3/4	17-7/16	57
CSS 222	309	49 - 54	2 - 2-1/8	8-1/2	8-13/16	2-7/16	2-1/4	3-15/16	3-1/4	7-5/8	19-3/4	83
CSS 224	397	55 - 60	2-1/4 - 2-3/8	9	9-3/4	2-7/8	2-1/2	4-7/16	3-5/8	8-1/2	21-9/16	110
CSS 226	468	61 - 68	2-1/2 - 2-5/8	9-3/4	10-5/8	3-1/8	2-7/8	5-1/2	4	9-1/2	23-1/2	143
CSS 227	507	69 - 75	2-3/4 - 2-7/8	11	11-1/4	3-1/8	3-1/8	6-1/4	4-7/8	10-3/4	25-3/8	207
CSS 228	617	76 - 80	3 - 3-1/8	12	11-3/4	3-1/4	3-3/8	6-3/4	5-1/4	11-1/2	27	243
CSS 229	689	81 - 86	3-1/4 - 3-3/8	13	12-1/4	4	3-5/8	7-1/4	5-3/4	12-1/4	29-1/4	320
CSS 230	794	87 - 93	3-1/2 - 3-5/8	14	13	4	3-7/8	7-3/4	6-1/4	13	31	401
CSS 231	965	94 - 102	3-3/4 - 4	15	14	4-1/4	4-1/4	8-1/2	7	14-1/4	33-1/4	463
CSS 233	1323	108 - 115	4-1/4 - 4-1/2	17-11/16	16-3/4	4-15/16	4-15/16	9-1/4	7-1/2	15-15/16	39-3/8	728
CSS 240	1433	120 - 130	4-3/4 - 5	19-11/16	20-11/16	4-15/16	5-5/8	10-1/4	7-7/8	17-11/16	45-1/4	1102

MBL = Minimum Breaking Load
Our standard sockets are delivered in blue colour paint. Hot dipped galvanized is also available. All sockets can be provided with Declaration of compliance according EN 1024-2.1, Material certificate according EN 10204-3.1 and EC Declaration according machine directive 98/37/EC.

SHORT BOW SOCKETS



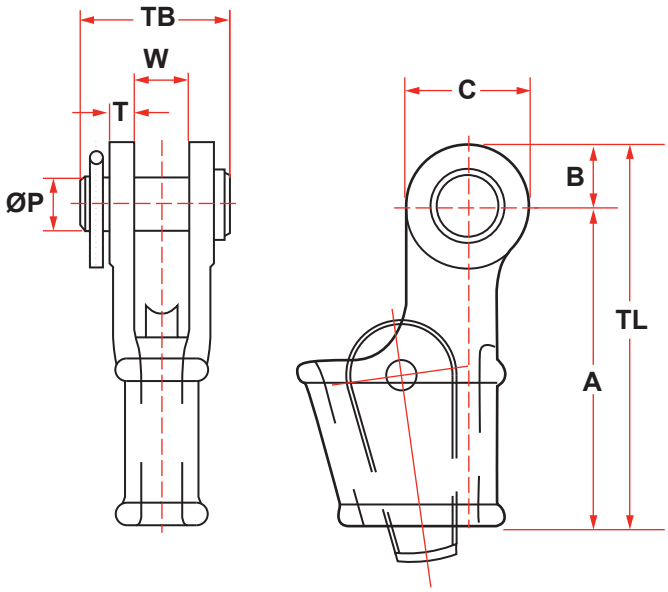
HIGH ALLOY CAST STEEL

MODEL NO.	MBL (US TONS)	FOR WIRE Ø		DIMENSIONS (INCHES)							WEIGHT (LBS)
		MM	INCHES	A	B	C	ØH	K	TA	TL	
SBS 517	176	37 - 42	1-1/2 - 1-5/8	6-3/8	4-1/16	1-1/2	1-3/4	3-5/8	5-13/16	11-13/16	24
SBS 519	220	43 - 48	1-3/4 - 1-7/8	7-3/8	4-3/4	1-5/8	2	4-7/16	7	13-11/16	33
SBS 522	276	49 - 54	2 - 2-1/8	8-1/16	5-3/16	2-1/8	2-1/4	4-3/4	7-7/8	15-3/8	49
SBS 524	353	55 - 60	2-1/4 - 2-3/8	9-1/16	5-3/16	2-7/16	2-1/2	5-5/16	8-11/16	17-5/16	60
SBS 526	441	61 - 68	2-1/2 - 2-5/8	9-1/4	6-1/2	2-11/16	2-7/8	5-7/8	9-13/16	18-7/16	88
SBS 527	551	69 - 75	2-3/4 - 2-7/8	11-5/16	6-7/8	2-15/16	3-1/8	6-7/16	10-13/16	21-1/4	119
SBS 528	661	76 - 80	3 - 3-5/8	12-3/8	7-11/16	3	3-3/8	6-7/8	11-5/8	23-1/16	165
SBS 529	772	81 - 86	3-1/4 - 3-3/8	12-7/8	8-1/2	3-1/4	3-5/8	7-5/8	12-5/8	24-5/8	179
SBS 530	882	87 - 93	3-1/2 - 3-5/8	10-3/16	8-11/16	3-5/8	3-7/8	7-15/16	13-3/4	26-3/8	254
SBS 531	992	94 - 102	3-3/4 - 4	14-3/8	9-1/4	3-15/16	4-1/8	8-7/16	14-3/4	27-9/16	287
SBS 533	1102	108 - 115	4-1/4 - 4-1/2	16-9/16	10-5/8	4-5/16	4-1/2	9-7/16	16-1/8	31-1/2	397

MBL = Minimum Breaking Load
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OPEN WEDGE SOCKETS WITH PIN

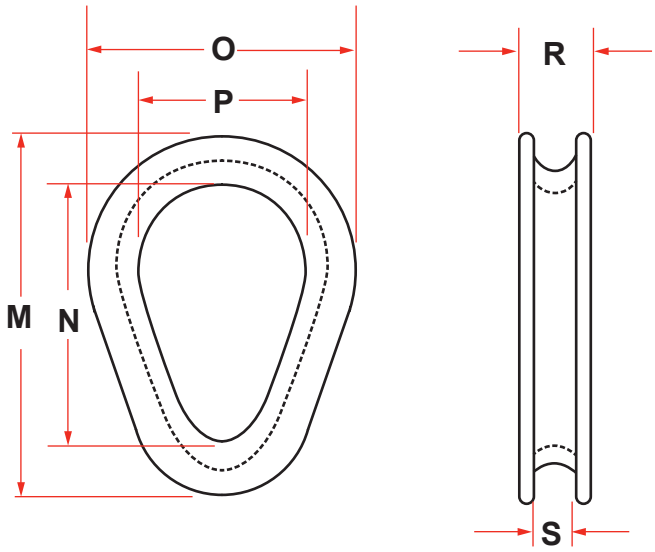


ALLOY CAST STEEL

MODEL NO	MBL (US TONS)	FOR WIRE Ø		DIMENSIONS (INCHES)								WEIGHT (LBS)
		MM	INCHES	A	B	C	ØP	T	TB	TL	W	
OWS 0.25 P	9	7 - 8	5/16	4-5/16	3/4	1-7/16	5/8	3/8	2	5-1/16	11/16	2
OWS 0.5 P	13	9 - 10	3/8	5-9/16	7/8	1-13/16	13/16	7/16	2-1/2	6-1/2	13/16	4
OWS 1 P	22	11 - 13	1/2	5-3/4	1-1/8	2-1/4	1	1/2	2-5/8	6-7/8	1	5
OWS 2 P	28	14 - 16	5/8	6-15/16	1-3/8	2-3/4	1-3/16	9/16	3-3/8	8-5/16	1-1/4	9
OWS 3 P	44	18 - 19	3/4	8-3/8	1-9/16	3-1/8	1-3/8	5/8	3-3/4	9-15/16	1-1/2	15
OWS 4 P	61	20 - 22	7/8	9-7/16	1-7/8	3-3/4	1-5/8	3/4	4-5/16	11-5/16	1-3/4	22
OWS 5 P	83	24 - 26	1	10-13/16	2-3/16	4-5/16	2	7/8	5-1/16	12-15/16	2	33
OWS 6 P	99	27 - 29	1-1/8	12-3/16	2-9/16	5-1/8	2-1/4	1	5-9/16	14-3/4	2-1/4	46
OWS 7 P	121	30 - 32	1-1/4	13-3/4	2-7/8	5-3/4	2-1/2	1-1/8	6-1/8	16-5/8	2-1/2	68
OWS 8 P	138	34 - 36	1-3/8	15-3/4	2-15/16	5-13/16	2-1/2	1-1/8	6-5/16	18-11/16	2-11/16	82
OWS 9 P	165	37 - 39	1-1/2	17-11/16	3-1/8	5-9/16	2-3/4	1-3/16	6-15/16	20-7/8	3	112
OWS 10 P	187	40 - 42	1-5/8	19-11/16	3-7/16	6-5/16	3	1-5/16	7-3/8	23-1/8	3	141
OWS 11 P	248	43 - 48	1-3/4 - 1-7/8	21-5/8	3-15/16	7-5/16	3-1/2	1-9/16	8-7/16	25-9/16	3-1/2	212
OWS 12 P	309	49 - 52	2	25-3/16	4-1/8	7-5/8	3-3/4	1-13/16	9-5/8	29-5/16	4	287
OWS 13 P	397	54 - 58	2-1/4	26	4-15/16	9-1/16	4-1/4	2-1/8	10-13/16	30-7/8	4-1/2	397
OWS 14 P	468	60 - 68	2-1/2	32-7/8	5-5/16	9-13/16	4-3/4	2-3/8	11-13/16	38-3/16	5	606
OWS 15 P	507	72 - 76	3	39-3/8	5-7/8	10-5/8	5-1/4	3	14	45-1/4	5-3/4	970
OWS 16 P	689	81 - 86	3-1/4 - 3-3/8	43-5/16	6	11-13/16	5-1/2	3-1/8	14-12/16	49-5/16	6-1/4	1124

MBL = Minimum Breaking Load
Our standard sockets are delivered in blue colour paint. Hot dipped galvanized is also available. All sockets can be provided with Declaration of compliance according EN 1024-2.1, Material certificate according EN 10204-3.1 and EC Declaration according machine directive 98/37/EC.

HAWSER THIMBLES



HEAVY DUTY HAWSER THIMBLE

GALVANIZED OR SELF-COLORED

CAST, 1035 S

DIMENSIONS (INCHES)							WEIGHT (LBS.)
ROPE DIAMETER	M	N	O	P	R	S	
5/8 - 3/4	6-3/4	4-7/8	5	3	1-1/4	13/16	2-1/2
7/8 - 1	8-5/8	5-3/4	6-1/4	3-3/4	1-7/16	1-1/16	4-1/2
1-1/8 - 1-1/4	10-1/8	6-3/4	7-1/4	4-1/4	1-11/16	1-5/16	9
1-3/8 - 1-1/2	11-1/2	8	8-1/2	5	2-1/4	1-5/8	14
1-5/8 - 1-3/4	12-1/2	8	9-3/4	5	2-1/2	1-7/8	20
1-7/8 - 2	14-3/4	9-1/4	11-1/4	5-3/4	2-3/4	2-3/16	30
2-1/8 - 2-1/4	17	10-1/2	12-3/4	6-1/4	3-1/4	2-1/2	52
2-3/8 - 2-1/2	21	14-1/2	15-1/2	9-1/2	3-3/4	2-3/4	80
2-3/4 - 3	21	14-1/8	16	9	4-1/4	3-1/4	115

Larger Sized Available Upon Application.
Furnished with or without Reinforcement Plate (*Gusset). Cast Alloy Available upon Request.

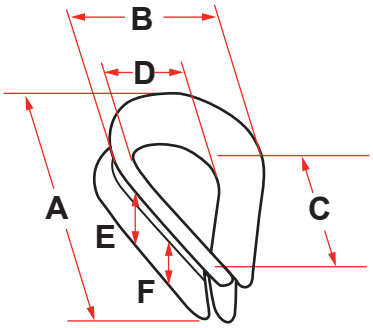
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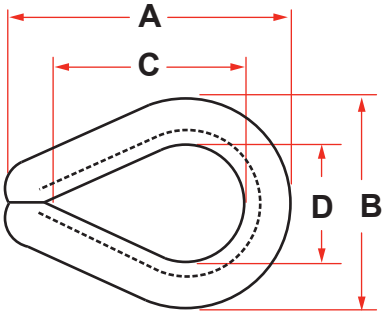
WIRE ROPE THIMBLES

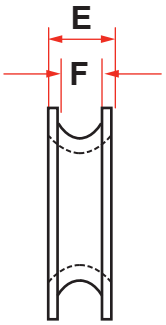
STANDARD WIRE ROPE THIMBLES, GALVANIZED STEEL



CLIP AND ROPE SIZE (INCHES)	DIMENSIONS (INCHES)						MAXIMUM PIN DIAMETER (INCHES)	WEIGHT LBS. PER 100
	A OVERALL	B OVERALL	C INSIDE	D INSIDE	E OVERALL	F INSIDE WIDTH OF SCORE		
1/8	1-15/16	1-1/16	1-5/16	11/16	1/4	5/32	5/8	3.3
3/16	1-15/16	1-1/16	1-5/16	11/16	5/16	7/32	5/8	3.4
1/4*	1-15/16	1-1/16	1-5/16	11/16	3/8	9/32	5/8	3.5
5/16*	2-1/8	1-1/4	1-1/2	13/16	7/16	3/8	3/4	4.0
3/8*	2-3/8	1-15/32	1-5/8	15/16	17/32	7/16	7/8	7.5
1/2*	2-3/4	1-3/4	1-7/8	1-1/8	11/16	9/16	1-1/16	15.8
5/8*	3-1/2	2-3/8	2-1/4	1-3/8	29/32	11/16	1-1/4	36.0
3/4	3-3/4	2-11/16	2-1/2	1-5/8	1-3/32	13/16	1-1/2	50.0
7/8	5	3-3/16	3-1/2	1-7/8	1-9/32	15/16	1-3/4	90.0
1	5-11/16	3-3/4	4-1/4	2-1/2	1-3/8	1-1/16	2-3/8	105.0
1-1/8 - 1-1/4	6-1/4	4-5/16	4-1/2	2-3/4	1-3/4	1-5/16	2-5/8	176.0
1-1/2	7-1/2	5-3/8	5	3-1/4	2-1/16	1-9/16	3-1/8	330.0
1-3/4	10-3/4	7-1/4	7-1/4	4-1/4	1-3/8	1-7/8	4-1/8	590.0
2	10-3/4	7-1/4	7-1/4	4-1/4	2-5/8	2-1/8	4-1/8	595.0

* Available in opened pattern. Suggested for light duty service only.





EXTRA HEAVY DUTY WIRE ROPE THIMBLES, GALVANIZED STEEL

CLIP AND ROPE SIZE (INCHES)	DIMENSIONS (INCHES)						MAXIMUM PIN DIAMETER (INCHES)	WEIGHT LBS. PER 100
	A OVERALL	B OVERALL	C INSIDE	D INSIDE	E OVERALL	F INSIDE WIDTH OF SCORE		
1/4*	2-3/16	1-1/2	1-5/8	7/8	13/32	9/32	13/16	7.5
5/16*	2-1/2	1-13/16	1-7/8	1-1/16	1/2	11/32	15/16	14.0
3/8*	2-7/8	2-1/8	2-1/8	1-1/8	21/32	13/32	1-1/16	25.0
7/16	3-1/4	2-3/8	2-3/8	1-1/4	3/4	15/32	1-3/16	36.0
1/2*	3-5/8	2-3/4	2-3/4	1-1/2	27/32	17/32	1-7/16	51.0
9/16	3-5/8	2-11/16	2-3/4	1-1/2	29/32	19/32	1-7/16	52.0
5/8*	4-1/4	3-1/8	3-1/4	1-3/4	1	21/32	1-5/8	75.0
3/4*	5	3-13/16	3-3/4	2	1-1/4	25/32	1-7/8	147.0
7/8	5-1/2	4-1/4	4-1/4	2-1/4	1-3/8	15/16	2-1/8	185.0
1*	6-1/8	4-15/16	4-1/2	2-1/2	1-9/16	1-1/16	2-3/8	295.0
1-1/8 - 1-1/4	7	5-7/8	5-1/8	2-7/8	1-7/8	1-5/16	2-3/4	390.0
1-1/4 - 1-3/8	9-1/16	6-13/16	6-1/2	3-1/2	2-1/4	1-7/16	3-1/4	820.0
1-3/8 - 1-1/2	9	7-1/8	6-1/4	3-1/2	2-5/8	1-9/16	3-3/8	1175.0
1-5/8	11-1/4	8-1/8	8	4	2-3/4	1-23/32	3-7/8	1625.0
1-3/4	12-3/16	8-1/2	9	4-1/2	2-7/8	1-27/32	4-3/8	1800.0
1-7/8 - 2	15-1/8	10-3/8	12	6	3-1/8	2-3/32	5-7/8	2600.0
2-1/4	17-1/8	11-7/8	14	7	3-5/8	2-3/8	6-7/8	3880.0
2-1/2**	20-1/2	13-1/2	15-3/4	8-1/2	4-1/4	2-5/8	8-1/4	7500.0

* Available in stainless steel. A rugged rope thimble suggested for heavy duty services. ** Available in Cast Steel. Larger sizes available per request (with or without Gusset Plates).



TIN PLATED COPPER OVAL SLEEVES FOR STAINLESS STEEL AIRCRAFT CABLE

CABLE SIZE (INCHES)	OVAL SLEEVE STOCK NO.	MULTI-GROOVE HAND TOOL STOCK NO.	NUMBER 635 HYDRAULIC TOOL DIE	APPROX. WEIGHT PER 1000 SLEEVES (LBS.)	SLEEVE LENGTH BEFORE COMPRESSED APPROX. (INCHES)	SLEEVE LENGTH AFTER COMPRESSED APPROX.
3/64	428-1.5-VB4	51-B4-887	33V-CGB4	OVAL B4	3/8	7/16
1/16	428-2-VC	51-C-887	33V-CGF4 64-CGMP	OVAL C	3/8	7/16
3/32	428-3-VG	51-G-887	33V-CGB4 64-CGMP	OVAL G	3/8	7/16
1/8	428-4-VM	51-M-850	64-CGMP 63-XPM	OVAL M	9/16	3/4
5/32	428-5-VP	51-P-850	64-CGMP 63-XPM	OVAL P	5/8	7/8
3/16	428-6-VX	51-X-850	63-XPM	OVAL X	15/16	1-3/16
7/32	428-7-VF2	51-F2-850		OVAL F2	7/8	1-1/16
1/4	428-8-VF6	51-F6-950		OVAL F6	1	1-3/8
5/16	428-10-VG9	3-G9-950		OVAL G9	1-1/16	1-3/8
3/8	428-12-VH5			OVAL H5	1-3/16	1-1/2
7/16	428-14-VJ8			OVAL JB	1-3/4	2-5/16
1/2	428-16-VK8			OVAL KB	1-7/8	2-9/16
9/16	428-18-VM1			OVAL M1	2	2-13/16
5/8	428-20-VN5			OVAL N5	2-3/8	3

The 428 Series oval sleeves are made from special materials and are specifically designed for use with stainless steel aircraft cable. The tin plating gives this sleeve a distinctive appearance.

STAINLESS STEEL OVAL SLEEVES

FOR EYE SPLICING STAINLESS STEEL AIRCRAFT CABLE

	OVAL SLEEVES				
CABLE SIZE (INCHES)	SLEEVE STOCK NO.	APPROX. WEIGHT PER 1000 SLEEVES (LBS.)	APPROX. LENGTH BEFORE COMPRESSED (INCHES)	HAND TOOL STOCK NO.	NUMBER 635 HYDRAULIC TOOL DIE
1/32	168-1-VB	1/2	1/4	31-B	
3/64	168-1.5-VB4	1-1/2	3/8	51-B4-887	OVAL B4
1/16	168-2-VB4	1-1/2	3/8	51-B4-887	OVAL B4
3/32	168-3-VC	2-1/4	3/8	51-C-887	OVAL C
1/8	168-4-VG	3-3/4	3/8	51-G-887	OVAL G
5/32	168-5-VM	14	23/32	51-M-850	OVAL M
3/16	168-6-VP	17	3/4	51-P-850	OVAL P
7/32	168-7-VX	31	7/8		OVAL X
1/4	168-8-VF2	44	1-1/8		OVAL F2

Conform to mililtary standard (MS-51844)

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Anchor MARINE & INDUSTRIAL SUPPLY, INC.



OVAL SLEEVE

FINISHED EYE SPLICE



STOP SLEEVE



FINISHED STOP

COPPER OVAL SLEEVES

CABLE SIZE (INCHES)	OVAL SLEEVE STOCK NO		HAND TOOL STOCK NO	APPROX WEIGHT PER 1000 SLEEVES (LBS.)	SLEEVE LENGTH BEFORE COMPRESSED APPROX. (INCHES)	SLEEVE LENGTH AFTER COMPRESSED APPROX.
	PLAIN COPPER	ZINC-PLATED COPPER				
1/32	17-1-B	27-1-B	17-BA	0.6	1/4	5/16
3/64	18-11-B4	28-11-B4	51-B4-887	2	3/8	7/16
1/16	18-1-C	28-1-C	51-C-887	3	3/8	7/16
3/32	18-2-G	28-2-G	51-G-887	5	3/8	7/16
1/8	18-3-M	28-3-M	51-M-850	17	9/16	3/4
5/32	18-4-P	28-4-P	51-P-850	23	5/8	7/8
3/16	18-6-X	28-6-X	51-X-850	49	15/16	1-3/16
7/32	18-8-F2	28-8-F2	51-F2-8950	56	7/8	1-1/16
1/4	18-10-F6	28-10-F6	3-F6-950	80	1-1/8	1-1/2
5/16	18-13-G9	28-13-G9	3-G9-950	114	1-1/16	1-3/8
NO. 635 HYDRAULIC TOOL DIES						
3/8	18-23-H5	28-23-H5	Oval H5	153	1-1/4	1-5/8
7/16	18-24-J8	28-24-J8	Oval J8	302	1-3/4	2-5/16
1/2	18-25-K8	28-25-K8	Oval K8	410	1-7/8	2-1/2
9/16	18-27-M1	28-27-M1	Oval M1	551	2	2-5/8
5/8	18-28-N5	28-28-N5	Oval N5	802	2-3/8	3-1/8

COPPER STOP SLEEVES

CABLE SIZE (INCHES)	STOCK SLEEVE STOCK NO.	HAND TOOL STOCK NO.	OUTSIDE DIAMETER OF SLEEVE	APPROX WEIGHT PER 1000 SLEEVES (LBS.)	SLEEVE LENGTH BEFORE COMPRESSED APPROX. (INCHES)	SLEEVE LENGTH AFTER COMPRESSED APPROX.
1/32	871-32-B	17-BA	1/8	3/4	1/4	120
3/64	871-12-B4	51-B4-887	11/64	1-1/2	7/32	240
1/16	871-1-C	51-C-887	13/64	2	7/32	430
1/16	871-1-Q	51-Q-929	1/4	2	5/32	425
3/32	871-17-J (Yellow)	51-MJ	21/74	8	5/16	600
3/32	871-3-Q	51-Q-929	1/4	2	5/16	550
1/8	871-18-J (Red)	51-MJ	21/64	8	5/32	900
5/32	871-19-M	51-MJ	21/64	13	5/16	1200
3/16	871-20-M (Black)	51-MJ	27/64	12	5/16	1600
7/32	871-22-M	51-MJ	7/16	20	5/8	2500
1/4	871-23-F6	3-F6-950	21/32	60	11/16	3500
5/16	871-26-F6	3-F6-950	21/32	60	11/16	4000

CARPENTER WIRE ROPE STOPPERS

MODEL NO.	STEEL WIRE ROPE DIAMETER (MM)	SWL (TONS)	DIMENSIONS (MM)						MASS (KGS.)
			A	B	C	D	E	F	
RS-20	14 - 20	5	158	70	95	136	24	20	6
RS-28	22 - 28	10	218	95	133	191	33	27	16
RS-36	30 - 36	17	280	127	170	244	43	35	34
RS-44	38 - 44	25	342	156	208	298	53	43	63
RS-52	48 - 52	35	405	184	247	355	58	52	103
RS-56	54 - 56	40	436	198	266	382	66	56	129
RS-64	60 - 64	55	498	227	304	437	75	64	193
RS-76	72 - 76	75	592	268	361	518	90	76	324
RS-84	78 - 84	90	610	276	376	540	90	76	360
RS-90	86 - 90	105	630	288	392	572	96	86	395

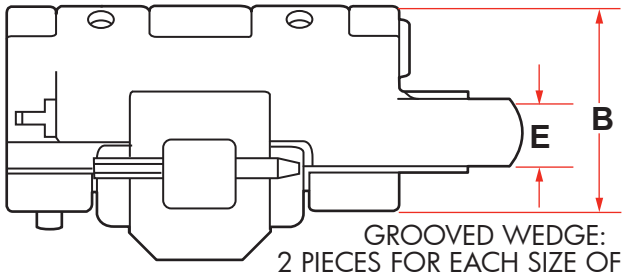
Remark: 1. Proof Load = 2 x SWL
2. Breaking Load = 5 x SWL
3. Steel Wire Rope = RHL 6 Strand

Compact design cable grip for cable diameter 14 - 90mm. Safe working load factor exceeds that of matching cable size.

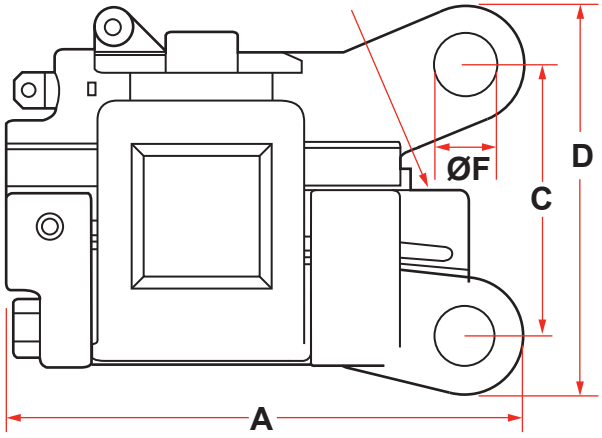
Hinged body has fixed smooth groove on one side Movable wedge, grooved with lay of cable, on the facing side.

Movable wedge enables cable to be drawn tight. Cable can be released while under full tension by releasing latch on hinged lid. Lid is securely latched with pin while in use. Shackle holes are provided for rigging bridle to stopper. Bridles available with stopper if desired. Occasionally apply grease to ensure a long trouble free life.

Optional class approval certificate as request.



GROOVED WEDGE:
2 PIECES FOR EACH SIZE OF ROPE



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CORDAGE



THREE STRAND & EIGHT STRAND – STANDARD LAY ROPES

SPECIFICATIONS



MARINE LINES



INDUSTRIAL LINES



FISHING LINES

SIZE (INCHES)		POLYPRO		NYLON		COMBO		MANILA		WORKING LOADS
DIA.	CIRC.	MIN. TENSILE STRENGTH	LBS. PER 600 FT.	MIN. TENSILE STRENGTH	LBS. PER 600 FT.	MIN. TENSILE STRENGTH	LBS. PER 600 FT.	MIN. TENSILE STRENGTH	LBS. PER 600 FT.	SPLICED WORKING LOAD RATIO
3/16"	5/8"	650	4	880	6	–	–	405	9	10.1
1/4"	3/4"	1,125	7	1,468	9	1,200	10	540	12	10.1
5/16"	1"	1,710	11	2,295	15	1,870	15	900	17	10.1
3/8"	1 1/8"	2,430	17	3,240	21	2,700	22	1,215	25	10.1
7/16"	1 1/4"	3,150	23	4,320	30	3,500	28.8	1,575	32	10.1
1/2"	1 1/2"	3,780	28	5,670	39	4,400	39	2,385	45	9.1
9/16"	1 3/4"	4,590	37	7,200	50	5,200	46	3,105	62	8.1
5/8"	2"	5,580	45	8,910	63	6,100	55	3,960	80	8.1
3/4"	2 1/4"	7,650	64	12,780	87	8,400	75	4,860	100	7.1
13/16"	2 1/2"	9,900	76	17,000	102	11,200	88	5,850	117	7.1
7/8"	2 3/4"	10,350	90	17,280	120	11,125	105	6,930	135	7.1
1"	3"	12,825	108	22,230	156	13,175	131	8,100	162	7.1
1 1/16"	3 1/4"	14,400	122	25,200	174	14,775	147	9,450	187	7.1
1 1/8"	3 1/2"	16,000	143	28,260	204	16,325	165	10,800	216	7.1
1 1/4"	3 3/4"	19,350	162	34,830	240	19,900	198	12,150	251	7.1
1 5/16"	4"	21,150	182	38,250	270	21,950	222	13,500	287	7.1
1 1/2"	4 1/2"	27,350	231	48,600	330	28,250	276	16,650	360	7.1
1 5/8"	5"	31,950	286	57,375	399	32,950	336	20,250	446	7.1
1 3/4"	5 1/2"	36,900	342	66,150	498	36,850	408	23,850	537	7.1
2"	6"	46,800	414	84,600	570	48,050	468	27,900	648	7.1
2 1/8"	6 1/2"	52,650	480	95,400	654	53,950	582	–	–	7.1
2 1/4"	7"	59,400	552	107,100	774	59,950	648	–	–	6.1
2 1/2"	7 1/2"	72,000	642	131,400	894	73,550	732	–	–	6.1
2 5/8"	8"	80,500	720	144,000	1,008	80,650	828	–	–	6.1
2 3/4"	8 1/2"	94,500	822	171,000	1,134	95,400	930	–	–	6.1
3"	9"	102,600	918	185,400	1,260	102,900	1,074	57,500	1,380	6.1
3 1/4"	10"	121,500	1,140	224,100	1,584	122,800	1,290	–	–	6.1
3 1/2"	11"	144,000	1,392	267,300	1,872	144,800	1,488	–	–	6.1
4"	12"	171,900	1,656	324,000	2,280	171,000	1,740	–	–	6.1
4 1/4"	13"	198,000	1,920	369,000	2,580	195,800	2,310	–	–	6.1
4 5/8"	14"	252,000	2,190	510,000	3,000	224,800	2,682	–	–	6.1
5"	15"	256,500	2,520	570,000	3,420	254,700	3,078	–	–	6.1

The information contained herein is descriptive only and is presented without warranty.
These specifications are the result of tests made on new and unused rope of current manufacture in accordance with the Cordage Institute Standard Test Methods. They do not cover exceptional conditions such as shock load, sustained load, etc. Pounds per 100 feet are "average" for synthetics. The maximum weight is 5% above these figures. Manila approximately 95% of the strength of three standard Manila size for size. Specifications for other ropes, are available on request.

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SIZE (INCHES)		APPROX. AVERAGE TENSILE STRENGTH (LBS.)	NET WEIGHT * PER 100 FT. IN POUNDS
DIAMETER	CIRCUMFERENCE		
3/8	1-1/8	4300	3.5
7/16	1-1/4	6000	5.0
1/2	1-1/2	8000	6.7
9/16	1-3/4	10000	8.3
5/8	2	13000	10.5
3/4	2-1/4	16500	14.5
7/8	2-3/4	24500	20.8
1	3	29000	25.8
1-1/16	3-1/4	35000	31.0
1-1/8	3-1/2	39000	35.0
1-1/4	3-3/4	44000	40.0
1-5/16	4	49000	45.0
1-1/2	4-1/2	61500	62.5

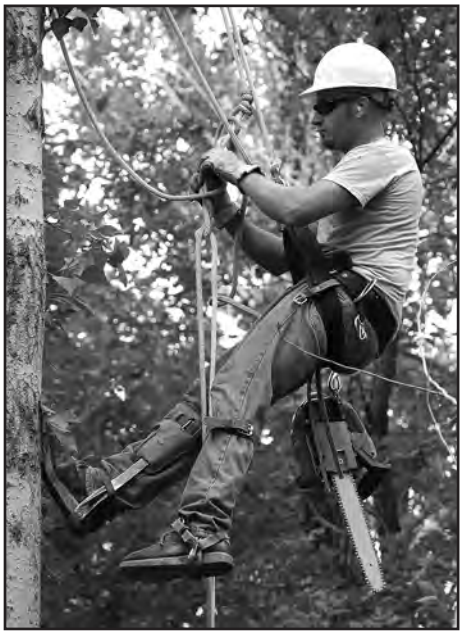
DOUBLE-BRAID NYLON

This line is produced from 100% white nylon fibers in both the cover and core. In commercial fishing, Double-Braid Nylon is recommended for use as Towing Lines, Brailing Lines, Double and Single Falls, and for general all-purpose uses. For pleasure boating uses these ropes are excellent Mooring and Anchor Lines. In the utility industry they are used as Hand Lines and Bull Ropes. Double Braid Nylon is fully spliceable. Subject to +10%, –0% from these figures.

SIZE (INCHES)		APPROX. AVERAGE TENSILE STRENGTH (LBS.)	NET WEIGHT * PER 100 FT. IN POUNDS
DIAMETER	CIRCUMFERENCE		
3/8	1-1/8	4300	4.5
7/16	1-1/4	6000	6.2
1/2	1-1/2	8000	8.0
9/16	1-3/4	10000	10.5
5/8	2	13000	13.0
3/4	2-1/4	16500	17.5
7/8	2-3/4	24500	25.0
1	3	29000	30.5
1-1/16	3-1/4	35000	36.0
1-1/8	3-1/2	39000	40.0
1-1/4	3-3/4	44000	47.0
1-5/16	4	49000	53.0
1-1/2	4-1/2	61500	67.0

DOUBLE-BRAID POLYESTER

A line incorporating 100% polyester fibers in both the cover and the core. Double-Braid Polyester is the answer to rugged demands requiring a rope with high strength and low stretch. In the utility field this product has received excellent reception in overhead transmission work for pulling in new and replacement conductors. It is also replacing wire as a Winch Line. Commercial fishermen request it for Purse Lines. Sailing enthusiasts require it for all running rigging. Industry uses it for fabricating rope sling. As with other Double-Braid products, it is fully spliceable. *Subject to +10%, –0% from these figures.



MANILA SAFETY LINE SPECIFICATIONS

DIAMETER SIZE (INCHES)	WEIGHT PER 100 FT.	MIMIMUM BREAKING STRENGTH (LBS.)
7/8	26.5	2700

MANILA SAFETY LINE is engineered for the job. It is a safety line used by tree toppers in lumbering, by high scalers in dam building and construction, and wherever there is an unusual hazard of damage to climbing rope. A BUILT-IN EXTRA MARGIN OF SAFETY makes it very different from regular manila rope. Not only is it a four-strand product, but in the center of the rope there is a heart of wire rope (performed super steel). If the Manila rope is accidentally damaged, the wire adds the margin of safety for the protection of life and limb.



PLASMA® 12 STRAND

Plasma™ 12 strand is the highest strength synthetic rope available. Plasma™ 12 strand is manufactured from AlliedSignal Spectra® Fiber that has been enhanced by Puget Sound Rope's patented recrystallization process. This process is especially effective in medium to large diameter ropes where strengths are over 50% higher and creep is significantly less than that of standard Spectra® 12 strand.

Plasma™ 12 strand comes standard with a polyurethane finish and is easily spliced using a simple lockstitch type splice or 4-3-2 tuck splice. Its soft, torque free braided construction provides easy handling.

Tensile Strengths are determined in accordance with ASTM test method D 4268-83.

Weights are calculated at linear density under standard preload (200 d^2) plus 4%.

- Highest strength
- Lowest stretch
- Low creep
- Soft hand
- Torque free
- Easy splicing
- Floats

Specify gravity	0.98
Melting point	284° F
Critical temp	150° F
Coefficient of friction	0.09-0.12
Elongation at break	4% - 5%
Fiber water absorption	0%
UV resistance	excellent
Wet abrasion	superior
Dry abrasion	superior

NOMINAL DIAMETER (INCHES)	SIZE NUMBER (CIRC.)	APPROXIMATE WEIGHT (LBS./100FT.)	MINIMUM TENSILE STRENGTH (LBS.)
7/16	1-1/4	4.2	21000
1/2	1-1/2	6.4	31300
9/16	1-3/4	7.9	37900
5/8	2	10.6	51400
3/4	2-1/4	13.3	68500
7/8	2-3/4	19.6	92600
1	3	23.4	110000
1-1/8	3-1/2	31.9	147000
1-1/4	3-3/4	36.2	165000
1-5/16	4	41.7	196000
1-1/2	4-1/2	51.7	221000
1-5/8	5	65.7	291000
1-3/4	5-1/2	78.4	314000
2	6	91.4	355000
2-1/8	6-1/2	109.0	428000
2-1/4	7	122.0	481000
2-5/8	8	167.0	560000
3	9	214.0	780000
3-1/4	10	261.0	1000000
3-5/8	11	324.0	1250000
4	12	394.0	1520000

SPECTRA® 12 STRAND

Spectra® 12 strand provides very high strength, low stretch and excellent abrasion resistance in a single braid construction.

For the equivalent weight rope it is over 3 times as strong as polyester and has less than one half the elongation.

Spectra® 12 strand comes standard with a polyurethane finish and is easily spliced using a 4-3-2 tuck splice. Its soft, torque free braided constructions provides easy handling.

Tensile Strengths are determined in accordance with ASTM test method 4268-83.

Weights are calculated using the linear density under standard preload (200 d^2) plus 4%.

- Very Low stretch
- Very High strength
- Soft hand
- Torque free
- Easy splicing
- Floats

Specify gravity	0.98
Melting point	284° F
Critical temp	150° F
Coefficient of friction	0.09-0.12
Elongation at break	6% - 8%
Fiber water absorption	0%
UV resistance	excellent
Wet abrasion	superior
Dry abrasion	superior

NOMINAL DIAMETER (INCHES)	SIZE NUMBER (CIRC.)	APPROXIMATE WEIGHT (LBS./100FT.)	MINIMUM TENSILE STRENGTH (LBS.)
7/16	1-1/4	4.2	14800
1/2	1-1/2	6.4	22500
9/16	1-3/4	7.9	27700
5/8	2	10.6	36600
3/4	2-1/4	13.3	43200
7/8	2-3/4	19.6	61000
1	3	23.4	72000
1-1/8	3-1/2	31.9	91800
1-1/4	3-3/4	36.2	102600
1-5/16	4	41.7	114300
1-1/2	4-1/2	51.7	141300
1-5/8	5	65.7	167400
1-3/4	5-1/2	78.4	198000
2	6	91.4	225000
2-1/8	6-1/2	109.0	270000
2-1/4	7	122.0	317700
2-1/2	7-1/2	148.0	360000
2-5/8	8	167.0	370800
2-3/4	8-1/2	187.0	405000
3	9	214.0	508500
3-1/4	10	261.0	616500
3-5/8	11	324.0	765000
4	12	394.0	900000

® Plasma is a trademark of Puget Sound Rope Corp.
® Spectra is a trademark of Allied Signal Corp.

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POLYESTER 12 PLAIT

Polyester 12 Plait provides high strength, low stretch and excellent abrasion resistance in a unique single braid construction.

Polyester 12 Plait is easily spliced using a standard tuck splice and is 30% stronger than three strand or 8 plait polyester. It's torque free braided construction provides easy handling and prevents kinks and hockles.

Polyester 12 Plait comes standard with an overlay marine finish and is avilable on special order with a spliceable polyeurethane finish in clear or any of six colors.

Tensile Strengths are determined in accordance with ASTM test Method D 4268-83.

Weights are calculated at linear density under standard preload (200 d^2) plus 5%.

- Low Stretch
- High Strength
- Soft hand
- Torque free
- Easy splicing
- Meets MIL-R-24750

Specify gravity	1.38
Melting point	482° F
Critical temp	350° F
Coefficient of friction	0.12-0.15
Elongation at break	15% - 20%
Fiber water absorption	0% - 1%
UV resistance	excellent
Wet abrasion	excellent
Dry abrasion	excellent

NOMINAL DIAMETER (INCHES)	SIZE NUMBER (CIRC.)	APPROXIMATE WEIGHT (LBS./100FT.)	MINIMUM TENSILE STRENGTH (LBS.)
5/8	2	14.1	12100
3/4	2-1/4	18.7	15800
7/8	2-3/4	28.2	24200
1	3	35.1	27500
1-1/8	3-1/2	41.2	35500
1-1/4	3-3/4	45.9	42100
1-5/16	4	55.0	48200
1-1/2	4-1/2	71.1	59600
1-5/8	5	84.8	72200
1-3/4	5-1/2	98.6	84400
2	6	120.0	101000
2-1/8	6-1/2	141.0	119000
2-1/4	7	160.0	137000
2-1/2	7-1/2	189.0	163000
2-5/8	8	208.0	179000
2-3/4	8-1/2	234.0	202000
3	9	273.0	233000
3-1/4	10	338.0	282000
3-5/8	11	402.0	340000
4	12	486.0	409000

NYLON DOUBLE BRAID

Nylon Double Braid is the preferred choice for applications requiring high strength with excellent shock absorbing properties. Nylon Double Braid has good resistance to abrasion, unlight and chemicals. Due to its high elongation, nylon is almost always used in applications involving shock loading such as anchor lines and mooring lines.

Nylon Double Braid comes standard with an overlay marine finish and is available on special order with a spliceable polyurethane finish in clear or any of six colors.

- High Stretch
- High Strength
- Excellent shock absorption
- Soft hand
- Torque free
- Meets MIL-R-24050D

Specify gravity	1.14
Melting point	414° F
Critical temp	300° F
Coefficient of friction	0.12-.015
Elongation at break	30% - 35%
Fiber water absorption	3% - 5%
UV resistance	good
Wet abrasion	excellent
Dry abrasion	excellent

SIZE (INCHES)		AVG. LBS./ 100FT.	STRENGTH	STANDARD PACKAGING		
DIAME-TER	CIRC.			LENGTH	BULK CARTON APPROX. WT.	600 FT. SPOOL APPROX. WT.
5/8	2	12	14800	4800	576	72
3/4	2-1/4	15	19000	3600	540	90
7/8	2-3/4	22	28300	2400	528	132
1	3	26	33500	2400	624	156
1-1/8	3-1/2	36	44900	1800	648	216
1-1/4	3-3/4	41	52300	1200	492	246
1-5/16	4	47	58800	1200	564	282
1-1/2	4-1/2	60	74000	600	360	360
1-5/8	5	74	92400	600	444	444
1-3/4	5-1/2	89	110900	600	534	534
2	6	106	131500	600	636	636
2-1/8	6-1/2	124	152800			744
2-1/4	7	144	177000			864
2-1/2	7-1/2	165	201000			990
2-5/8	8	188	231000			1128
2-3/4	8-1/2	212	254000			1272
3	9	238	283000			1428
3-1/4	10	294	319000			1764
3-5/8	11	356	381000			2136
4	12	423	447000			2538
4-1/4	13	497	522000			2982

DANLINE/MOORING LINES

8-STRAND, POLYPROPYLENE - BLUE

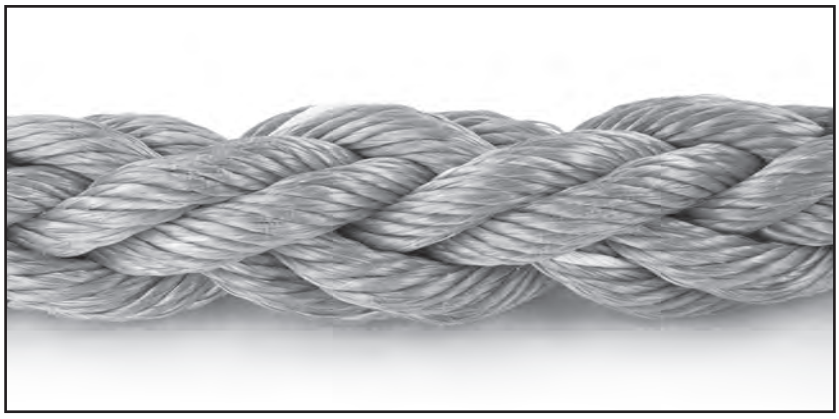
FEATURES

- Low cost general purpose rope that floats and does not absorb water.
- Specific Gravity 0.91.

APPLICATIONS

- General Marine, Mooring, Tie-Up Lines, Towing and Barge Lines.

DIAMETER (INCHES)	CIRCUMFERENCE	WEIGHT PER 100 FEET (LBS.)	BREAKING STRENGTH (LBS.)	COIL LENGTH (METERS)
1-5/8	5	41	43,477	220
2	6	71	63,580	220
2-1/4	7	59.47	73,865	220
2-1/2	7-1/2	69.60	85,085	220
2-5/8	8	105.94	97,240	220
3	9	157	126,310	220
3-1/4	10	190	158,000	220
4	12	280	233,750	220



Color: Blue with Yellow Tracer

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MAXIFLEX

8-STRAND, POLYESTER/POLYOLEFIN

FEATURES

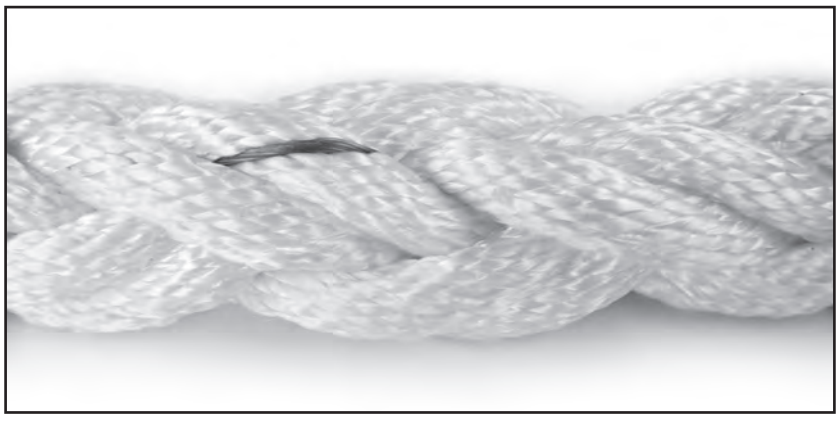
- We hereby confirm that our Maxiflex Ropes are made as per OCIMF Guidelines 2000.
- With 6' canvas covered eyes

APPLICATIONS

- General Marine, Mooring, Tie-Up Lines, Towing and Barge Lines.

1. Review of Rope Design Specification, Material Specification and Manufacturing Specification.
2. Observing and inspecting the yarn/rope through all stages of manufacture and testing.
3. Random witnessing of yarn twisting and rope through all stages of manufacturing machinery set-ups for the above sizes and production thereof.
4. Witnessing the following tests as required by OMIMF Guidelines 11th edition 2000:
   a. New Dry and New Wet Break Strength Tests.
   b. Cyclic Load Tests (as applicable)
   c. Elongation and Extension Measurements, with respect to the rope, for both Dry & Wet conditions.
5. Review and Endorsement of all Manufacturing & Test Data.

MAXIFLEX (CIR)	DIAMETER (INCHES)	TENSILE (LBS)	WEIGHT IN LBS.
5" X 720'	1-5/8	66,000	430
6" X 720'	2	101,000	621
7" X 720'	2-1/4	138,000	832
7-1/2" X 720'	2-1/2	158,000	984
8" X 720'	2-5/8	182,133	1,090
9" X 720'	3	224,910	1,380
10" X 720'	3-1/4	276,727	1,705
12" X 720'	4	407,000	2,900



Color: White with Red Tracer



AMSTEEL-BLUE

FEATURES

- Uses Dyneema® SK-75
- A size-for-size strength replacement for wire rope at only 1/7th the weight
- Torque-free, very flexible, easy to handle
- Similar elastic elongation to wire rope
- Easily inspected or field spliced
- Floats

APPLICATIONS

- Winch lines, pull-in lines
- Heavy lifting slings
- Primary vessel mooring lines
- Emergency and seismic tow lines
- Rig tow lines
- Grommets

SPECIFICATIONS

- Specific Gravity: .98 (floats)
- Elastic Elongation Percentage:
  At % of break strength
  10% 0.46%
  20% 0.70%
  30% 0.96%

DIAMETER (INCHES)	SIZE CIRCUMFERENCE (INCHES)	WEIGHT PER 100 FT. (LBS.)	SRT MBS* (LBS.)	SIZE DIAMETER (MM)	WEIGHT PER 100 M (KILOGRAMS)	SRT MBS* (METRIC TONS)	ISO/BS EN919 MBS (METRIC TONS)
3/16	9/16	1.0	4,900	5	1.5	2.2	2.4
1/4	3/4	1.6	7,700	6	2.4	3.5	3.9
5/16	1	2.7	12,300	8	4.0	5.6	6.2
3/8	1-1/8	3.6	17,600	9	5.4	8.0	8.9
7/16	1-1/4	4.2	21,500	11	6.2	9.8	10.8
1/2	1-1/2	6.4	30,600	12	9.5	13.9	15.4
9/16	1-3/4	7.9	36,500	14	11.8	16.5	18.4
5/8	2	10.2	47,500	16	15.2	21.5	23.9
3/4	2-1/4	13.3	58,000	18	19.8	26.3	29.2
7/8	2-3/4	19.6	81,700	22	29.2	37.1	41.2
1	3	21.8	98,100	24	32.4	44.5	49.4
1-1/16	3-1/4	27.5	118,000	26	40.9	53.6	59.6
1-1/8	3-1/2	31.9	133,000	28	47.5	60.4	67.1
1-1/4	3-3/4	36.2	149,000	30	53.9	67.5	75.0
1-5/16	4	41.8	166,000	32	62.2	75.2	83.6
1-3/8	4-1/8	45.0	185,000	34	67.0	83.9	93.2
1-1/2	4-1/2	51.7	205,000	36	76.9	93.0	103.0
1-5/8	5	65.2	255,000	40	97.0	116.0	128.0
1-3/4	5-1/2	78.4	302,000	44	117.0	137.0	152.0
2	6	87.0	343,000	48	129.0	155.0	173.0
2-1/8	6-1/2	109.0	411,000	52	162.0	186.0	207.0
2-1/4	7	116.0	484,000	56	173.0	219.0	244.0
2-1/2	7-1/2	148.0	529,000	60	220.0	240.0	267.0
2-5/8	8	167.0	595,000	64	248.0	270.0	300.0
2-3/4	8-1/2	187.0	662,000	68	278.0	300.0	333.0
3	9	206.0	748,000	72	307.0	339.0	377.0
3-1/4	10	240.0	906,000	80	357.0	411.0	457.0
3-5/8	11	340.0	1,313,000	88	506.0	596.0	662.0
4	12	380.0	1,637,000	96	566.0	743.0	825.0
4-1/4	13	430.0	1,826,000	104	640.0	828.0	920.0
4-5/8	14	525.0	2,216,000	112	781.0	1005.0	1117.0
5	15	580.0	2,421,000	120	863.0	1098.0	1220.0
5-1/4	16	635.0	2,637,000	128	945.0	1196.0	1329.0
5-1/2	17	695.0	2,865,000	136	1034.0	1300.0	1444.0
6	18	780.0	3,211,000	144	1161.0	1457.0	1618.0
6-1/4	19	880.0	3,581,000	158	1310.0	1624.0	1805.0
6-5/8	20	1015.0	4,104,000	168	1511.0	1862.0	2068.0
7	21	1090.0	4,370,000	178	1622.0	1982.0	2203.0
7-1/4	22	1170.0	4,658,000	184	1741.0	2113.0	2348.0
7-5/8	23	1325.0	5,243,000	194	1972.0	2378.0	2642.0
8	24	1400.0	5,540,000	203	2084.0	2513.0	2792.0

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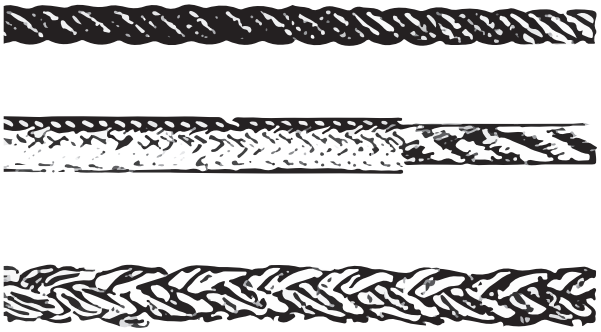
Anchor MARINE & INDUSTRIAL SUPPLY, INC.

TYPES OF ROPES

TWISTED. All Cordage products are available in the standard three-strand twisted construction. Some specialty items of Manila rope are manufactured in a four-strand construction.

BRAIDED. Double-Braid was designed and engineered for advantageous use in the power companies and with the electrical contractors; on commercial fishing vessels; on pleasure crafts and in several industries. The Double-Braid construction is available in 100 percent Nylon, and 100 percent Polyester.

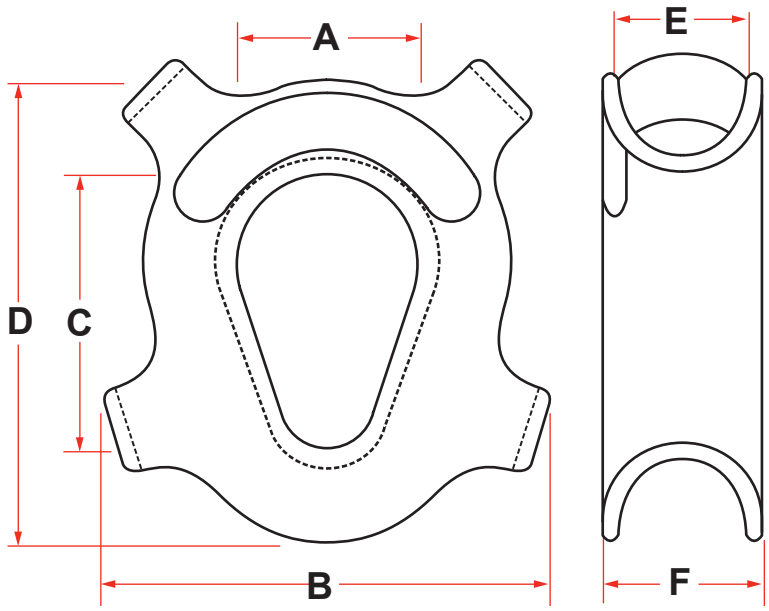
PLAITED. These unique hawsers are manufactured in eight-strand construction, having four left laid strands and four right laid strands, paired off, laid parallel and woven together. Plaited lines eliminate hidden stresses arising from kinking and hockling since they will not hockle. The vary nature of this construction is torque free and offers extreme flexibility wet or dry. Plaited ropes are available in 5'' circumference and larger.



PROPERTIES OF ROPE	MANILA	NYLON	POLYESTER	POLYPROPYLENE
Strength: Tenacity of dry fiber (in grams/denier):	5-6.0	9.0	8.5	6.5
Suggested maximum rope working load (percentage of Breaking Test):	Varies by diameter size (7% - 10%)	Varies by diameter size (9% - 12%)	Varies by diameter size (7% - 10%)	Varies by diameter size (7% - 10%)
Wet Strength compared to Dry Strength	up to 120%	85-90%	100%	100%
Rope shock absorption ability:	Poor	Excellent	Good	Very Good
Weight: Specific gravity of fibers or filaments:	1.20	1.14	1.38	0.91
Abilty to float:	No	No	No	Yes
ROPE STRENGTH/WEIGHT ROTATION (AVG.)	1.0	3.0	2.25	2.5
Elongation: Rope elongation at suggested max. working load.	Low	Very High	Moderately Low	Moderate
Creep (extension-under sustained load):	Very Low	Moderate	Low	High
Water absorption of individual fibers:	High	Moderate	Moderate	Low
Resistance to rot, mildew, deterioration due to marine organisms:	Poor	Excellent	Excellent	Excellent
Chemical Resistance: Effect of acids:	Will disintegrate in hot dilute & cold concentrated acids.	Decomposed by strong mineral acids; resistant to weak acids.	Resistant to most mineral acids; disintegrated by 95% sulfuric acid	Good resistance
Effect of alkalis:	Little resistance	Little or none.	Little effect cold; slowly disintegrated by strong alkalis at boil	High resistance
Effect of organic solvents:	Low resistance: hydrocarbons will remove proactive lubricants on rope	Fair resistance: soluble in some phenotic compounds & 90% formic acid	Generally unaffected: soluble in some phenolic compounds	Soluble in chlorinated hydrocarbons at 160° F
Degradetion: Resistance to U.V. in sunlight:	Fair	Good	Excellent	Fair; Black is best
Resistance to aging.	Good, but will lose strength as lubricants dry out.	Excellent	Excellent	Excellent
Rope Abrasion Resistance: Surface:	Good	Very Good	Best	Good
Internal:	Good	Excellent	Best	Good
Melting Point of Rope:	Not applicable	482° F	500° F	330° F
Ability of rope to render, or ease out, smoothly over metal while under load:	Excellent	Poor	Good	Very Poor

SYNTHETIC ROPE THIMBLES

INCREASES SLING LIFE, PROTECTS THE EYE, CUTS COST. LIGHT WEIGHT, HEAVY DUTY



DIMENSIONS AND DATA								
ROPE DIA.	ROPE CIRCUM.	A	B	C	D	E	F	EST. WT. LBS.
3/8 - 7/16	1-1/8 - 1-1/4	7/8	2-1/16	1-1/2	2-7/16	9/16	3/4	.25
1/2 - 9/16	1-1/2 - 1-3/4	1	2-3/8	1-5/8	2-13/16	11/16	29/32	.45
5/8 - 3/4	2 - 2-1/4	1-1/8	3-1/8	2	3-1/2	7/8	1-1/8	.60
13/16 - 15/16	2-1/2 - 2-3/4	1-1/4	3-3/4	2-15/16	4-3/16	1-1/16	1-3/8	.90
1 - 1-13/16	3 - 3-3/4	2	5-5/16	3-1/2	5-3/8	1-1/2	1-9/16	6
1-1/4 - 1-1/2	4 - 5	3-3/8	7	5-1/8	7-7/8	1-3/4	1-27/32	8
1-7/8 - 2-1/4	6 - 7	3-3/4	9-7/32	5-3/4	9-3/8	2-5/8	3-15/32	11
2-1/2	8	4-1/4	10-7/8	6-1/2	11	3-5/32	3-3/4	18
2-7/8	9	4-3/4	11-5/8	7-5/8	12	3-1/4	4-1/4	26
3-1/4	10	4-7/8	12-1/4	8-1/2	13-9/16	3-1/2	4-3/4	33
3-3/8 - 4	11-12	5-5/8	14-3/4	9-1/2	15-3/4	4-5/8	5-29/32	44
4-1/4 - 4-5/8	13-14	6-1/8	16-1/4	10	16-15/16	5-5/16	6-11/16	57
5 - 5-1/4	15-16	6-1/2	17-3/8	10-1/2	18	5-3/4	7-1/4	68
5-3/8 - 5-3/4	17-18	9	21-13/16	13-1/8	20-1/8	6-1/2	7-7/8	137
6 - 6-3/8	19-20	12	26-3/4	16-1/4	27	7-3/4	9-1/8	231
6-3/4 - 7	21-22	13-7/8	30-3/8	19-3/4	33-3/4	8-1/2	10-1/4	359

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BLOCKS







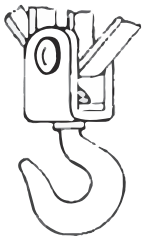
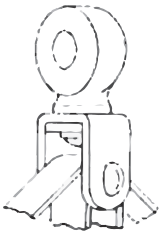
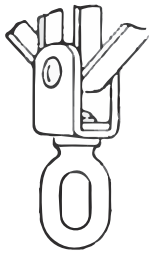
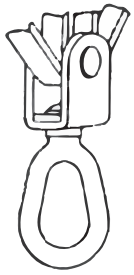
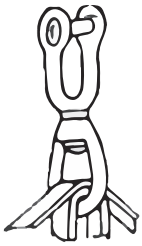
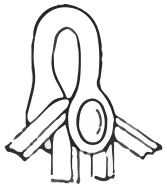
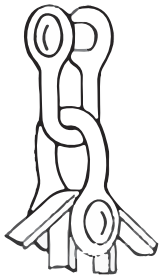
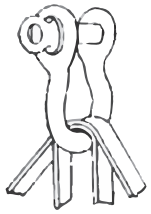






BLOCKS

CONNECTIONS

 Flatted Loose Latched Snap Hook Connection F	 Flatted Loose Swivel Latched Snap Hook Connection G	 Flatted Stiff Swivel Latched Snap Hook Connection V	 Bosloc Latched Connection X
 Front Eye Flatted Loose Hook Connection W	 Flatted Stiff Swivel Hook Connection H	 Loose Swivel Raymond Releasing Hook Connection XX	 Drilled Swivel Eye Connection P
 Drilled Swivel Eye and Shackle Connection Q	 Oblong Swivel Eye Connection T	 Oblong Swivel Eye and Shackle Connection U	 Pear Shaped Swivel Eye Connection EE
 Jaw and Eye Swivel Connection NN	 Chain Shackle Connection L	 Upset Shackle in Shackle Connection LL	 Upset Screw Pin Anchor Shackle Connection AAA

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Anchor MARINE & INDUSTRIAL SUPPLY, INC.

BLOCK REEVING

WIRE ROPE EFFICIENCY OVER SHEAVES

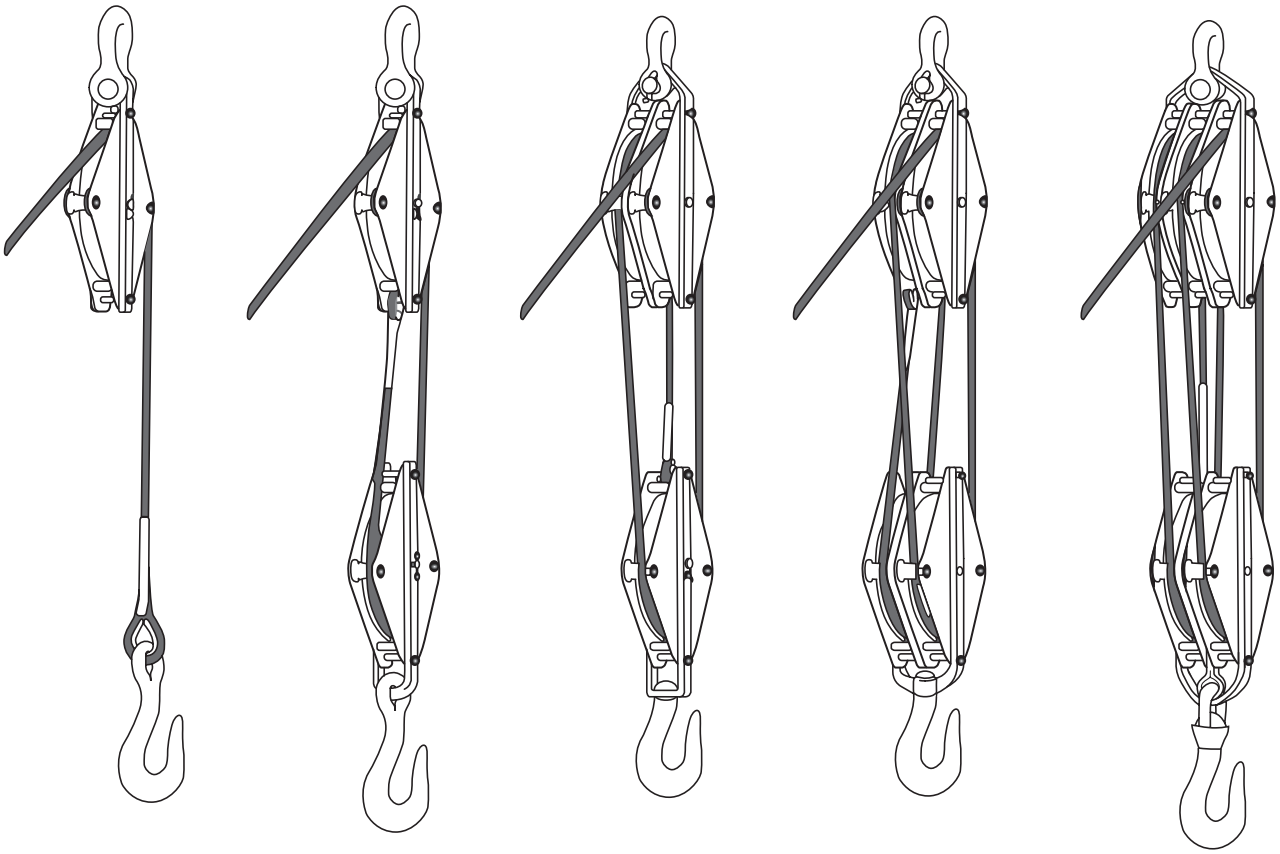
(TACKLE BLOCK SYSTEM)

Some portion of a wire ropes strength—when operating over sheaves—is expended in turning the sheaves and in flexing. This lost strength is not available to lift the load, and in a multi-part tackle block system this loss factor can be significant.

This load on the lead line (fast line) under static (no-movement) conditions can be readily calculated if the load is divided by the number of parts of line as expressed in the following formula.

$$\text{Fast line load} = \frac{\text{Total load (incl. slings, containers, etc.)}}{\text{No. of parts of line}}$$

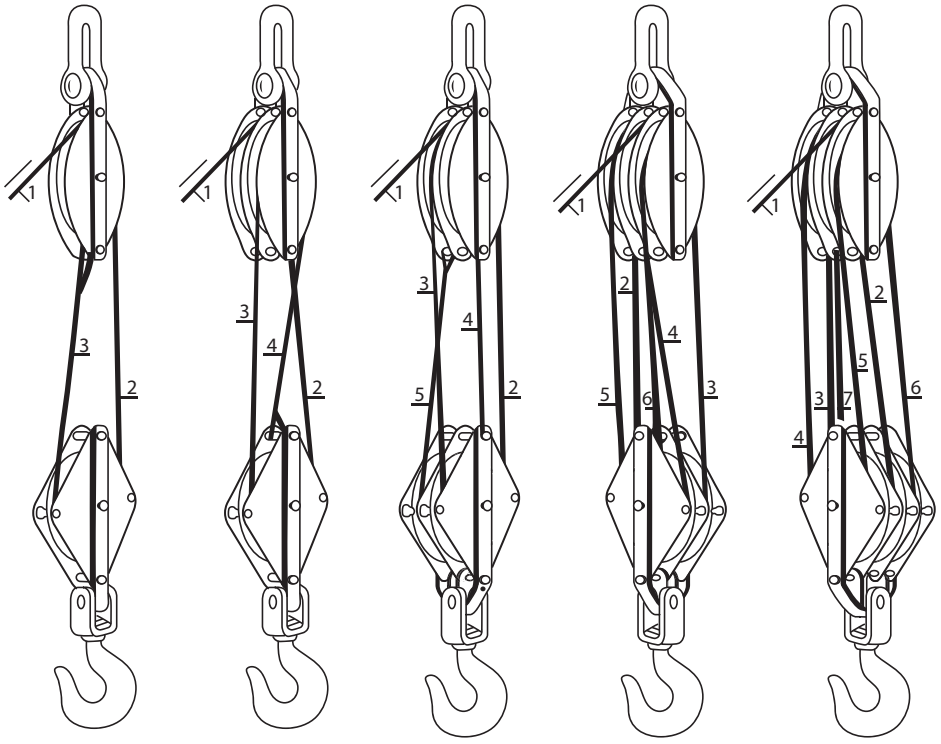
For example, in a four-part system to lift 6000 lb. the lead line will equal: $\frac{6000}{4}$ or 1500 lb.



A. ONE-PART LINE B. TWO-PART LINE C. THREE-PART LINE D. FOUR-PART LINE E. FIVE-PART LINE

BLOCKS

METHOD OF REEVING MANILA & WIRE ROPE BLOCKS



Methods of REEVING TACKLE BLOCKS vary with the application and purpose for which they are to be employed, especially on Heavy Lift Cargo Booms, Cranes, etc. where Block with 4 Sheaves or more are required, in which case a number of Lead Blocks have to be considered. We will be glad to consult with you on this matter.

PARTS OF LINE	"E" FACTORS BRONZE BUSHED	"E" FACTORS ROLLER BEARING
1	0.96	0.98
2	1.85	1.9
3	2.8	2.9
4	3.6	3.8
5	4.4	4.7
6	5.2	5.6
7	5.9	6.5
8	6.6	7.3
9	7.3	8.2
10	7.9	9.0
11	8.5	9.8
12	9.1	10.6

METHOD OF FIGURING "PARTS OF LINE"

$$\frac{L}{P} = E$$

L = Load Lifted in Lbs.

P = Line Pull in Lbs.

E = Efficiency Factor

For Example: To figure "Parts of Line" required when Load Lifted "L," and Line Pull "P" are known.

$$\frac{\text{32,000 lbs (Load Lifted "L")}}{\text{6,000 lbs (Line Pull "P")}} = 5.3 \text{ ("E")}$$

"E" factor 5.3 in table indicated 6 "Parts of Line" required.

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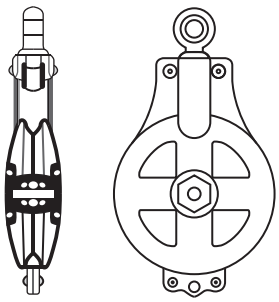
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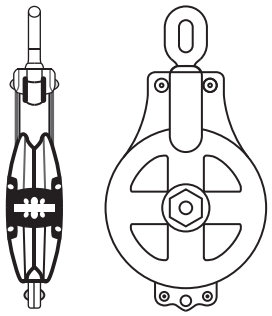
CARGO HOIST BLOCKS



DRILLED SWIVEL EYE



CARGO BLOCK
WITH SWIVEL EYE



CARGO BLOCK
WITH OBLONG EYE

	SIZE		MODEL NO.	SHEAVE SIZE		ROPE DIAMETER		CENTER PIN SIZE		WEIGHT		WORKING LOAD LIMIT	
	INCHES	MM		INCHES	MM	INCHES	MM	INCHES	MM	LBS.	KG.	US TONS	KG.
WITH DRILLED SWIVEL EYE	12	305	SL561R-12DS	12	305	3/4	19.0	1.2	30	95	43.2	5	4540
	14	356	SL561R-14DS	14	356	7/8	22.0	1.4	35	100	45.4	10	9080
	16	406	SL561R-16DS	16	406	1	25.0	1.6	40	130	59.0	10	9080
WITH OBLONG EYE	12	305	SL561R-12OS	12	305	3/4	19.0	1.2	30	95	43.2	5	4540
	14	356	SL561R-14OS	14	356	7/8	22.0	1.4	35	100	45.4	10	9080
	16	406	SL561R-16OS	16	406	1	25.0	1.6	40	130	59.0	10	9080

DO NOT EXCEED WORKING LOAD LIMIT

OVAL PATTERN REGULAR WIRE ROPE BLOCKS

STANDARD FITTINGS

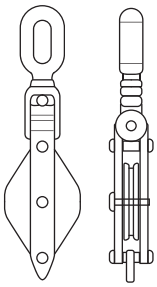
- OBLONG SWIVEL EYE
- SWIVEL HOOK
- DRILLED SWIVEL EYE



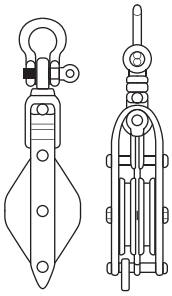
FITTINGS AVAILABLE ON SPECIAL ORDER.

- BOLT TYPE SHACKLE
- FIXED HOOK
- UPSET SHACKLE

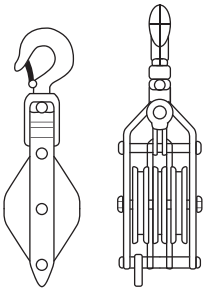
SINGLE SHEAVE BLOCK
WITH OBLONG SWIVEL EYE



DOUBLE SHEAVE BLOCK
WITH DRILLED SWIVEL EYE & SHACKLE



TRIPLE SHEAVE BLOCK
WITH SWIVEL HOOK



NO. OF SHEAVES	SIZE		SHEAVE SIZE		ROPE DIA.		CENTER PIN SIZE		WORKING LOAD LIMIT		WITH OBLONG SWIVEL EYE			WITH SWIVEL HOOK			WITH DRILLED SWIVEL EYE AND SHACKLE		
											MODEL NO.	WEIGHT		MODEL NO.	WEIGHT		MODEL NO.	WEIGHT	
	IN.	MM	IN.	MM	IN.	MM	IN.	MM	LBS.	KG.		LBS.	KG.		LBS.	KG.		LBS.	KG.
SINGLE SHEAVE BLOCK	4	102	4	102	3/8	10.0			2200	1000	SL661B-40S	8.2	3.7	SL661B-4SH	8.2	3.7	SL661B-4DS	8.2	3.7
	6	152	6	152	3/8	10.0	5/8	16.0	4400	2000	SL661B-60S	15.0	6.8	SL661B-6SH	15.0	6.8	SL661B-6DS	15.0	6.8
	8	203	8	203	1/2	12.7	3/4	19.0	5500	2500	SL661B-80S	28.0	12.7	SL661B-8SH	28.0	12.7	SL661B-8DS	28.0	12.7
	10	254	10	254	5/8	16.0	1	25.4	6600	3000	SL661B-100S	38.0	17.2	SL661B-10SH	38.0	17.2	SL661B-10DS	38.0	17.2
	12	304	12	304	3/4	19.0	1-1/4	32.0	8800	4000	SL661B-120S	62.0	28.1	SL661B-12SH	62.0	28.1	SL661B-12DS	62.0	28.1
DOUBLE SHEAVE BLOCK	4	102	4	102	3/8	10.0	1-1/2	38.0	3300	1500	SL662B-40S	14.0	6.4	SL662B-4SH	14.0	6.4	SL662B-4DS	14.0	6.4
	6	152	6	152	3/8	10.0	5/8	16.0	5500	2500	SL662B-60S	21.0	9.5	SL662B-6SH	21.0	9.5	SL662B-6DS	21.0	9.5
	8	203	8	203	1/2	12.7	3/4	19.0	7700	3500	SL662B-80S	42.0	19.0	SL662B-8SH	42.0	19.0	SL662B-8DS	42.0	19.0
	10	254	10	254	5/8	16.0	1	25.4	9900	4500	SL662B-100S	60.0	27.2	SL662B-10SH	60.0	27.2	SL662B-10DS	60.0	27.2
	12	304	12	304	3/4	19.0	1-1/4	32.0	13200	6000	SL662B-120S	94.0	42.7	SL662B-12SH	94.0	42.7	SL662B-12DS	94.0	42.7
TRIPLE SHEAVE BLOCK	4	102	4	102	3/8	10.0	1-1/2	38.0	4400	2000	SL663B-40S	15.0	6.8	SL663B-4SH	15.0	6.8	SL663B-4DS	15.0	6.8
	6	152	6	152	3/8	10.0	5/8	16.0	6600	3000	SL663B-60S	28.0	12.7	SL663B-6SH	28.0	12.7	SL663B-6DS	28.0	12.7
	8	203	8	203	1/2	12.7	3/4	19.0	8800	4000	SL663B-80S	51.0	23.2	SL663B-8SH	51.0	23.2	SL663B-8DS	51.0	23.2
	10	254	10	254	5/8	16.0	1	25.4	13200	6000	SL663B-100S	80.0	36.4	SL663B-10SH	80.0	36.4	SL663B-10DS	80.0	36.4
	12	304	12	304	3/4	19.0	1-1/4	32.0	15400	7000	SL663B-120S	115.0	52.3	SL663B-12SH	115.0	52.3	SL663B-12DS	115.0	52.3

DO NOT EXCEED WORKING LOAD LIMIT

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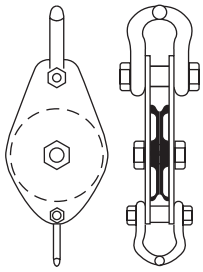
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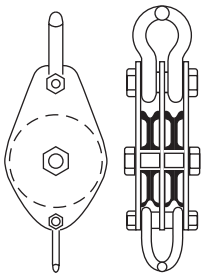
CONSTRUCTION BLOCKS



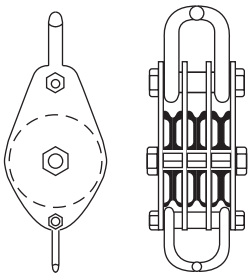
DOUBLE SHEAVE BLOCK WITH SHACKLE



SINGLE SHEAVE BLOCK WITH SHACKLE



DOUBLE SHEAVE BLOCK WITH SHACKLE



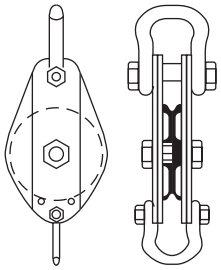
TRIPLE SHEAVE BLOCK WITH SHACKLE

MEDIUM WEIGHT OVAL PATTERN

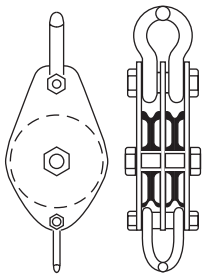
NO. OF SHEAVES	SIZE		MODEL NO.	SHEAVE SIZE		ROPE DIAMETER		CENTER PIN SZ.		WEIGHT		WLL	
	INCHES	MM		INCHES	MM	INCHES	MM	INCHES	MM	LBS.	KG.	LBS.	KG.
SINGLE SHEAVE BLOCK	6	152	SL621B-6S	6	152	1/2	12.7	1-1/2	38	25	11.4	16500	7500
	8	203	SL621B-8S	8	203	5/8	16.0	1-1/2	38	35	15.9	16500	7500
	10	254	SL621B-10S	10	254	5/8	16.0	1-1/2	38	45	20.5	22000	10000
	12	304	SL621B-12S	12	304	3/4	19.0	1-1/2	38	50	22.7	22000	10000
DOUBLE SHEAVE BLOCK	6	152	SL622B-6S	6	152	1/2	12.7	1-1/2	38	40	18.2	22000	10000
	8	203	SL622B-8S	8	203	5/8	16.0	1-1/2	38	50	22.7	22000	10000
	10	254	SL622B-10S	10	254	5/8	16.0	1-1/2	38	65	29.5	33000	15000
	12	304	SL622B-12S	12	304	3/4	19.0	1-1/2	38	75	34.1	33000	15000
TRIPLE SHEAVE BLOCK	6	152	SL623B-6S	6	152	1/2	12.7	1-1/2	38	60	27.3	27500	12500
	8	203	SL623B-8S	8	203	5/8	16.0	1-1/2	38	65	29.5	27500	12500
	10	254	SL623B-10S	10	254	5/8	16.0	1-1/2	38	85	38.6	44000	20000
	12	304	SL623B-12S	12	304	3/4	19.0	1-1/2	38	100	45.5	44000	20000



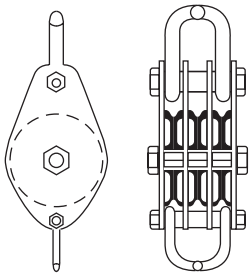
TRIPLE SHEAVE BLOCK WITH SHACKLE



SINGLE SHEAVE BLOCK WITH SHACKLE



DOUBLE SHEAVE BLOCK WITH SHACKLE



TRIPLE SHEAVE BLOCK WITH SHACKLE

EXTRA HEAVY WEIGHT OVAL PATTERN

NO. OF SHEAVES	SIZE		MODEL NO.	SHEAVE SIZE		ROPE DIAMETER		CENTER PIN SZ.		WEIGHT		WLL	
	INCHES	MM		INCHES	MM	INCHES	MM	INCHES	MM	LBS.	KG.	LBS.	KG.
SINGLE SHEAVE BLOCK	8	203	SL641B-8S	8	203	5/8 - 3/4	16 - 19	1-1/2	38	33	15.0	16500	7500
	10	254	SL641B-10S	10	254	5/8 - 3/4	16 - 19	2	51	73	33.2	22000	10000
	12	304	SL641B-12S	12	304	5/8 - 3/4	16 - 19	2-1/4	57	93	42.3	22000	10000
	14	356	SL641B-14S	14	356	5/8 - 3/4	16 - 19	2-3/4	70	130	59.1	22000	10000
	16	406	SL641B-16S	16	406	5/8 - 3/4	16 - 19	3-1/2	89	215	97.7	33000	15000
DOUBLE SHEAVE BLOCK	8	203	SL642B-8S	8	203	5/8 - 3/4	16 - 19	1-1/2	38	52	23.6	22000	10000
	10	254	SL642B-10S	10	254	5/8 - 3/4	16 - 19	2	51	110	50.0	33000	15000
	12	304	SL642B-12S	12	304	5/8 - 3/4	16 - 19	2-1/4	57	139	63.2	33000	15000
	14	356	SL642B-14S	14	356	5/8 - 3/4	16 - 19	2-3/4	70	200	90.9	44000	20000
	16	406	SL642B-16S	16	406	5/8 - 3/4	16 - 19	3-1/2	89	300	136.4	55000	25000
TRIPLE SHEAVE BLOCK	8	203	SL643B-8S	8	203	5/8 - 3/4	16 - 19	1-1/2	38	75	34.1	27500	12500
	10	254	SL643B-10S	10	254	5/8 - 3/4	16 - 19	2	51	135	61.4	44000	20000
	12	304	SL643B-12S	12	304	5/8 - 3/4	16 - 19	2-1/4	57	181	82.3	44000	20000
	14	356	SL643B-14S	14	356	5/8 - 7/8	16 - 22	2-3/4	70	240	109.1	66000	30000
	16	406	SL643B-16S	16	406	5/8 - 7/8	16 - 22	3-1/2	89	390	177.3	66000	30000

DO NOT EXCEED WORKING LOAD LIMIT

STANDARD WOOD SHELL BLOCKS FOR MANILA ROPE



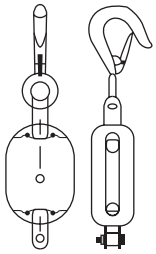
SINGLE SHEAVE BLOCK WITH FIXED HOOK

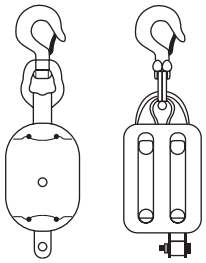


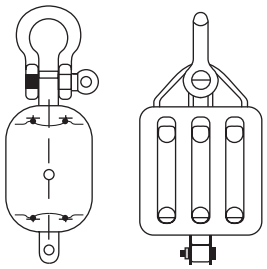
DOUBLE SHEAVE BLOCK WITH SWIVEL HOOK



TRIPLE SHEAVE BLOCK WITH SHACKLE







NO. OF SHEAVES	SIZE		SHEAVE SIZE		ROPE DIA.		CENTER PIN SIZE		WORKING LOAD LIMIT		WITH FIXED HOOK			WITH SWIVEL HOOK			WITH SHACKLE		
											MODEL NO.	WEIGHT		MODEL NO.	WEIGHT		MODEL NO.	WEIGHT	
	IN.	MM	IN.	MM	IN.	MM	IN.	MM	LBS.	KG.		LBS.	KG.		LBS.	KG.		LBS.	KG.
SINGLE SHEAVE BLOCK	3	76	1-3/4	44	3/8	10	5/16	8	500	227	SL101B-3H	2.2	1.0	SL101B-3SH	2.6	1.2	SL101B-3S	1.9	0.9
	4	102	2-1/4	57	1/2	13	3/8	10	1000	454	SL101B-4H	3.1	1.4	SL101B-4SH	3.5	1.6	SL101B-4S	2.9	1.3
	5	127	3	76	5/8	16	1/2	13	1200	544	SL101B-5H	4.2	1.9	SL101B-5SH	4.6	2.1	SL101B-5S	4.7	2.1
	6	152	3-1/2	89	3/4	19	1/2	13	1800	816	SL101B-6H	5.3	2.4	SL101B-6SH	5.7	2.6	SL101B-6S	5.8	2.6
	8	203	4-3/4	121	1	25	5/8	16	2800	1270	SL101B-8H	9.9	4.5	SL101B-8SH	10.5	4.8	SL101B-8S	10.3	4.7
	10	254	6	152	1-1/8	29	3/4	19	4000	1814	SL101B-10H	15.2	6.9	SL101B-10SH	15.7	7.1	SL101B-10S	18.0	8.2
	12	304	8	204	1-1/2	38	3/4	19	5000	2268	SL101B-12H	26.0	11.8	SL101B-12SH	26.8	12.2	SL101B-12S	29.0	13.2
DOUBLE SHEAVE BLOCK	3	76	1-3/4	44	3/8	10	5/16	8	800	363	SL102B-3H	2.7	1.2	SL102B-3SH	3.1	1.4	SL102B-3S	2.5	1.1
	4	102	2-1/4	57	1/2	13	3/8	10	1400	635	SL102B-4H	4.2	1.9	SL102B-4SH	4.6	2.1	SL102B-4S	4.0	1.8
	5	127	3	76	5/8	16	1/2	13	1800	816	SL102B-5H	6.6	3.0	SL102B-5SH	7.2	3.3	SL102B-5S	7.0	3.2
	6	152	3-1/2	89	3/4	19	1/2	13	2500	1134	SL102B-6H	9.4	4.3	SL102B-6SH	10.0	4.5	SL102B-6S	8.8	4.0
	8	203	4-3/4	121	1	25	5/8	16	3800	1724	SL102B-8H	15.8	7.2	SL102B-8SH	16.5	7.5	SL102B-8S	16.2	7.4
	10	254	6	152	1-1/8	29	3/4	19	5900	2682	SL102B-10H	31.1	14.1	SL102B-10SH	32.4	14.7	SL102B-10S	32.4	14.7
	12	304	8	204	1-1/2	38	3/4	19	8000	3636	SL102B-12H	41.5	18.8	SL102B-12SH	45.0	20.5	SL102B-12S	41.8	19.0
TRIPLE SHEAVE BLOCK	3	76	1-3/4	44	3/8	10	5/16	8	1200	544	SL103B-3H	3.1	1.4	SL103B-3SH	3.5	1.6	SL103B-3S	2.9	1.3
	4	102	2-1/4	57	1/2	13	3/8	10	1800	816	SL103B-4H	4.4	2.0	SL103B-4SH	4.9	2.2	SL103B-4S	4.2	1.9
	5	127	3	76	5/8	16	1/2	13	2200	1000	SL103B-5H	6.6	3.0	SL103B-5SH	7.6	3.5	SL103B-5S	7.5	3.4
	6	152	3-1/2	89	3/4	19	1/2	13	3200	1452	SL103B-6H	10.8	4.9	SL103B-6SH	11.4	5.2	SL103B-6S	11.2	5.1
	8	203	4-3/4	121	1	25	5/8	16	4800	2177	SL103B-8H	21.2	9.6	SL103B-8SH	22.4	10.5	SL103B-8S	22.5	10.2
	10	254	6	152	1-1/8	29	3/4	19	8000	3636	SL103B-10H	40.8	18.5	SL103B-10SH	44.4	20.2	SL103B-10S	41.2	18.7
	12	304	8	204	1-1/2	38	3/4	19	9900	4500	SL103B-12H	68.3	31.0	SL103B-12SH	71.9	32.7	SL103B-12S	71.8	32.6

Do not exceed working load limits.

Factory certification of conformance included with each block.

DO NOT EXCEED WORKING LOAD LIMIT

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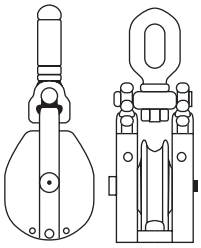
Anchor MARINE & INDUSTRIAL SUPPLY, INC.

SNATCH BLOCKS FOR MANILA ROPE WOOD SHELL AND STEEL SHELL

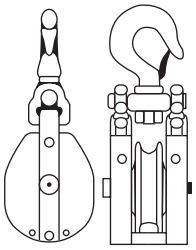
MANILA ROPE SNATCH BLOCKS – WOOD SHELL (SINGLE-SHEAVE)



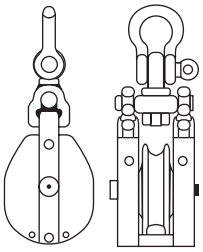
Wood Shell Block with Swivel Shackle



Wood Shell Block with Oblong Swivel Eye



Wood Shell Block with Swivel Hook



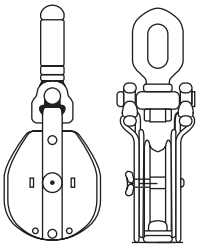
Wood Shell Block with Drilled Swivel Eye & Shackle

SIZE		SHEAVE SIZE		ROPE DIA.		CENTER PIN SIZE		WITH SWIVEL OBLONG EYE			WITH SWIVEL HOOK			WITH SWIVEL SHACKLE			WLL	
								MODEL NO.	WEIGHT		MODEL NO.	WEIGHT		MODEL NO.	WEIGHT			
IN.	MM	IN.	MM	IN.	MM	IN.	MM		LBS.	KG.		LBS.	KG.		LBS.	KG.	LBS.	KG.
4	102	2-1/2	70	3/4	19	1/2	13	SL386B-4OS	3	1.4	SL386B-4SH	3.5	1.6	SL386B-4DS	3.2	1.5	2700	1227
6	152	3	76	7/8	22	5/8	16	SL386B-6OS	7.5	3.4	SL386B-6SH	8.2	3.7	SL386B-6DS	8	3.6	3000	1364
8	203	4-1/2	114	1	25	3/4	19	SL386B-8OS	15	6.8	SL386B-8SH	15.5	7.0	SL386B-8DS	15.2	6.9	5000	2273
10	254	5-3/4	146	1-1/4	32	7/8	22	SL386B-10OS	28	12.7	SL386B-10SH	28.5	12.9	SL386B-10DS	28.2	12.8	8000	3636
12	304	6-3/4	171	1-1/2	38	1	25	SL386B-12OS	38	17.3	SL386B-12SH	39	17.7	SL386B-12DS	38.5	17.5	10000	4545
14	356	8	203	1-3/4	44	1-1/4	32	SL386B-14OS	50	22.7	SL386B-14SH	52	23.6	SL386B-14DS	51	23.2	12000	5454
16	406	9	229	2	50	1-1/4	32	SL386B-16OS	73	332	SL386B-16SH	75	34.1	SL386B-16DS	74	33.6	16000	7273

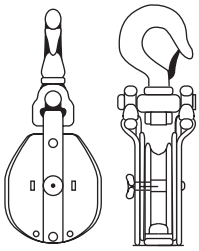
MANILA ROPE SNATCH BLOCKS - STEEL SHELL (SINGLE-SHEAVE)



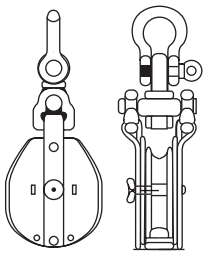
Steel Shell Block with Oblong Swivel Eye



Steel Shell Block with Oblong Swivel Eye



Steel Shell Block with Swivel Hook



Steel Shell Block with Drilled Swivel Eye & Shackle

SIZE		SHEAVE SIZE		ROPE DIA.		CENTER PIN SIZE		WITH SWIVEL OBLONG EYE			WITH SWIVEL HOOK			WITH SWIVEL SHACKLE			WLL	
								MODEL NO.	WEIGHT		MODEL NO.	WEIGHT		MODEL NO.	WEIGHT			
IN.	MM	IN.	MM	IN.	MM	IN.	MM		LBS.	KG.		LBS.	KG.		LBS.	KG.	LBS.	KG.
4	102	2-1/2	70	3/4	19	1/2	13	SL391B-4OS	3	1.4	SL391B-4SH	3.5	1.6	SL391B-4DS	3.2	1.5	2700	1227
6	152	3	76	7/8	22	5/8	16	SL391B-6OS	7.5	3.4	SL391B-6SH	8.2	3.7	SL391B-6DS	8	3.6	3000	1364
8	203	4-1/2	114	1	25	3/4	19	SL391B-8OS	15	6.8	SL391B-8SH	15.5	7.0	SL391B-8DS	15.2	6.9	5000	2273
10	254	5-3/4	146	1-1/4	32	7/8	22	SL391B-10OS	28	12.7	SL391B-10SH	28.5	12.9	SL391B-10DS	28.2	12.8	8000	3636
12	304	6-3/4	171	1-1/2	38	1	25	SL391B-12OS	38	17.3	SL391B-12SH	39	17.7	SL391B-12DS	38.5	17.5	10000	4545
14	356	8	203	1-3/4	44	1-1/4	32	SL391B-14OS	50	22.7	SL391B-14SH	52	23.6	SL391B-14DS	51	23.2	12000	5454
16	406	9	229	2	50	1-1/4	32	SL391B-16OS	73	332	SL391B-16SH	75	34.1	SL391B-16DS	74	33.6	16000	7273

BLOCKS

CONSTRUCTION
DOUBLE SHEAVE DATA

WORKING LIMIT (TONS)	WIRE ROPE SIZE		SHEAVE DIAMETER	WEIGHT (LBS.)
DESIGN FACTOR 4 TO 1	STD.	MAX. ALLOW		
8 TON	3/8 - 1/2	3/4	4	26
	3/8 - 1/2	3/4	6	34
12 TON	5/8 - 3/4	1	6	50
	5/8 - 3/4	7/8	8	54
	5/8 - 3/4	3/4	10	61
	5/8 - 3/4	7/8	12	81
	5/8 - 3/4	7/8	14	104
15 TON	3/4 - 7/8	1-1/8	6	61
	3/4 - 7/8	1-1/8	8	82
	7/8 - 1	1-1/8	10	94
	7/8 - 1	1-1/8	12	123
	7/8 - 1	1-1/8	14	150
22 TON	1 - 1-1/8	1-1/2	8	132
	1 - 1-1/8	1-1/2	10	171
	1 - 1-1/8	1-1/4	12	173
	1 - 1-1/8	1-3/8	14	201

ABOVE FEATURES

- Bronze brushed or roller bearing sheaves
- Side opening feature for easy threading
- Swivel hook, drilled eye, or swivel shackle
- 4 to 1 design factor
- Drop forged
- Hooks and shackles quickly interchangeable
- 2 tons thru 30 tons



DOUBLE



TRIPLE

NOTE: Standard wire rope size furnished unless otherwise specified.

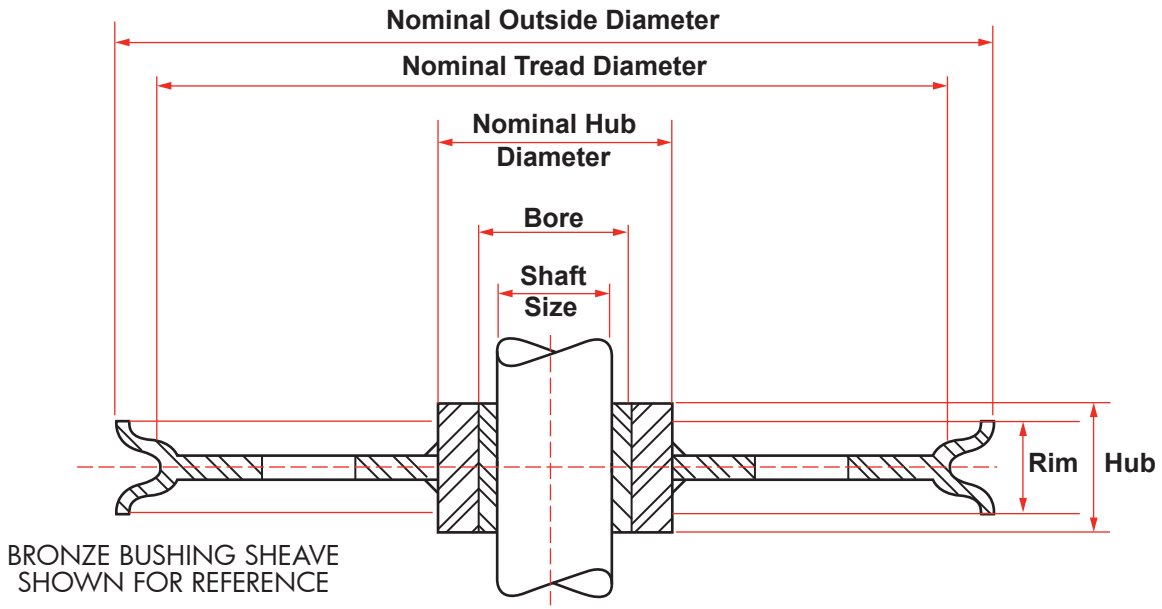


SINGLE SHEAVE DATA

WORKING LIMIT (TONS)	WIRE ROPE SIZE		SHEAVE DIAMETER	WEIGHT (LBS.)
DESIGN FACTOR 4 TO 1	STD.	MAX. ALLOW		
3 TON	3/8 - 1/2	3/4	4	15
	3/8 - 1/2	3/4	6	18
	3/8 - 1/2	3/4	8	22
	3/8 - 1/2	3/4	10	34
	3/8 - 1/2	7/8	12	39
	3/8 - 1/2	3/4	14	41
8 TON	5/8 - 3/4	1	6	29
	5/8 - 3/4	7/8	8	36
	5/8 - 3/4	3/4	10	31
	5/8 - 3/4	7/8	12	46
	5/8 - 3/4	7/8	14	58
12 TON	3/4 - 7/8	1-1/8	6	42
	3/4 - 7/8	1-1/8	8	53
	7/8 - 1	1-1/8	10	66
	7/8 - 1	1-1/8	12	75
	7/8 - 1	1-1/8	14	92
	7/8 - 1	1-1/8	16	119
22 TON	1 - 1-1/8	1-1/2	8	102
	1 - 1-1/8	1-1/2	10	125
	1 - 1-1/8	1-1/4	12	131
	1 - 1-1/8	1-3/8	14	149
	1 - 1-1/8	1-1/4	16	178
	1 - 1-1/8	1-3/8	18	214
30 TON	1-1/8 - 1-1/4	1-3/8	20	341
	1-1/8 - 1-1/4	1-3/8	24	461

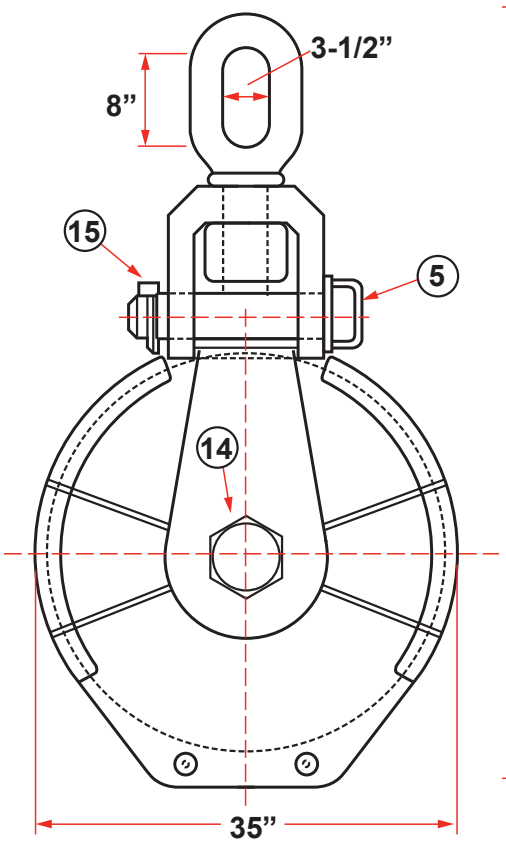
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CUSTOM SHEAVE FORM

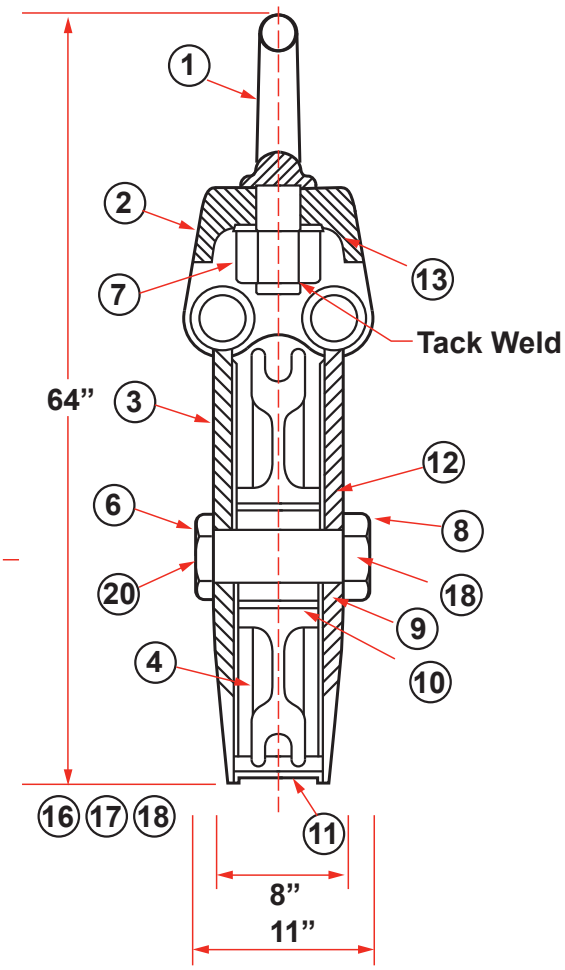


NOMINAL OUTSIDE DIAMETER	QUANTITY
+ Shaft Size =	
* Hub Width =	
Rim Width =	
Wire Rope Size =	
Nominal Thread Diameter (optional) =	
Nominal Hub Diameter (optional) =	
+ Shaft Size is Bore Size on Plain Bore Sheaves	
* Hub Width is measured over the cone of Tapered Bearing Sheaves	
BEARING TYPE	
Bronze Bushing	
‡ Roller Bearing	
Tapered Roller Bearings	
Finish / Plain Bore	
Other	
‡ Requires hardened ground shaft	
MATERIAL TYPE	
Rolled Forged (Flame hardened 14'' and larger)	
Forged Steel	
Cast Steel	
Other	
Special testing, required or certification: UT, MPI, Paint, ABS, Lloyd's, DNV, etc.	
Line Pull =	
Fleet Angle =	
Degree of Wrap =	
Line Speed =	

2"-76 TON SNATCH BLOCK



2"-76 Ton Snatch Block



MATERIAL LIST			
ITEM	TYPE	ITEM	TYPE
1	Swivel Eye	11	Spacer
2	Yoke	12	Washer, Bronze
3	Side Block	13	Washer, Bronze
4	Sheave	14	Lug, Locking
5	Pin Draw	15	Clip Spring
6	Pin Sheave	16	Hex Head Bolt
7	Nut Swivel Eye	17	Hex Nut
8	Nut Sheave Pin	18	Cotter Pin
9	Collar	19	Cotter Pin
10	Bushing, Bronze	20	Grease Fitting

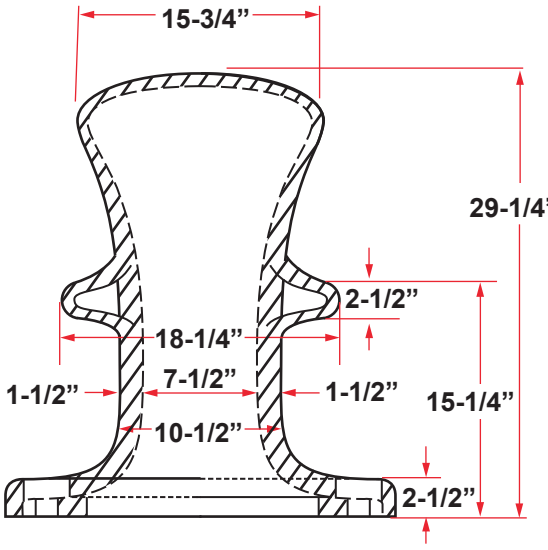
DOCK

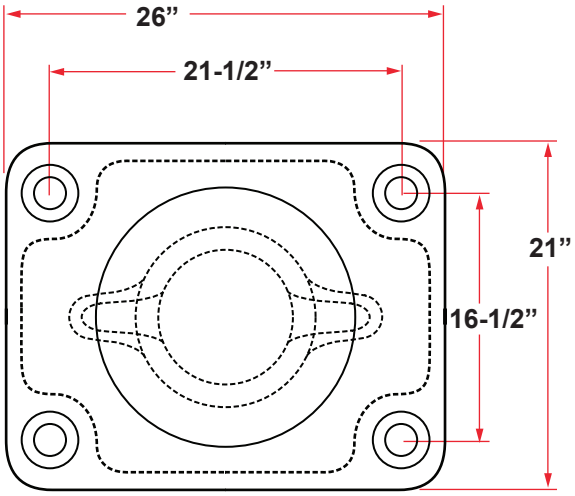


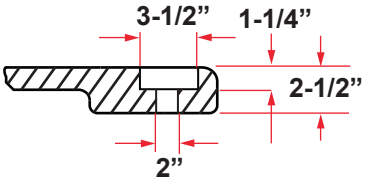
CASTING INDEX

PART NUMBER	DESCRIPTION	ANCHOR BOLTS QTY. X SIZE	MAXIMUM CAPACITY
AMB 20	BOLLARD, CAST STEEL	4 X 1-3/4''	20 TONS
AMB 25	BOLLARD, CAST STEEL	4 X 2-1/4''	25 TONS
AMB 30	BOLLARD, CAST STEEL	6 X 1-3/4''	30 TONS
AMB 40	BOLLARD, CAST STEEL	8 X 1-1/2''	40 TONS
AMB 40 A	BOLLARD, CAST STEEL	4 X 1-1/2''	40 TONS
AMB 45	BOLLARD, CAST STEEL	4 X 1-1/4''	45 TONS
AMB 50 A	BOLLARD, CAST STEEL	4 X 1-1/4''	50 TONS
AMB 50	BOLLARD, CAST STEEL	4 X 1-3/4''	50 TONS
AMB 55	BOLLARD, CAST STEEL	4 X 1-3/4''	55 TONS
AMB 65	BOLLARD, CAST STEEL	4 X 1-3/4''	65 TONS
AMB 70	BOLLARD, CAST STEEL	4 X 2''	70 TONS
AMB 80	BOLLARD, CAST STEEL	4 X 2''	80 TONS
AMB 90	BOLLARD, CAST STEEL	6 X 2''	90 TONS
AMB 100	BOLLARD, CAST STEEL	6 X 2-1/4''	100 TONS
AMB 100 A	BOLLARD, CAST STEEL	8 X 2-1/4''	100 TONS
AMB 100 B	BOLLARD, CAST STEEL	8 X 2-1/4"	100 TONS
AMB 125	BOLLARD, CAST STEEL	8 X 2''	125 TONS
AMB 150	BOLLARD, CAST STEEL	8 X 2-3/4''	150 TONS
AMB 225	BOLLARD, CAST STEEL	8 X 2-3/4''	225 TONS

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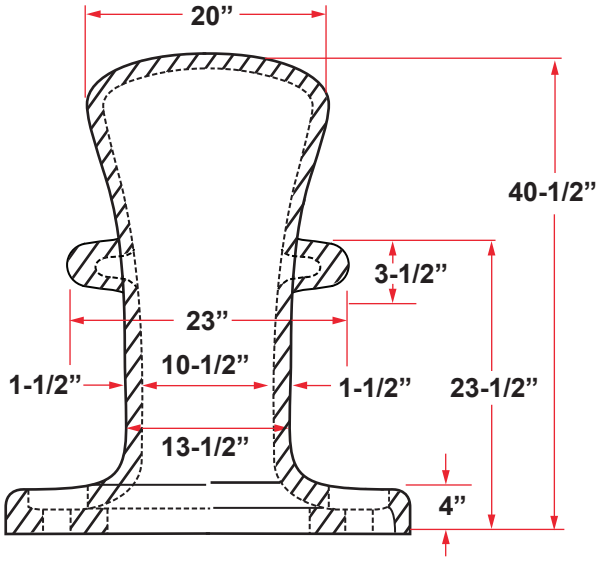


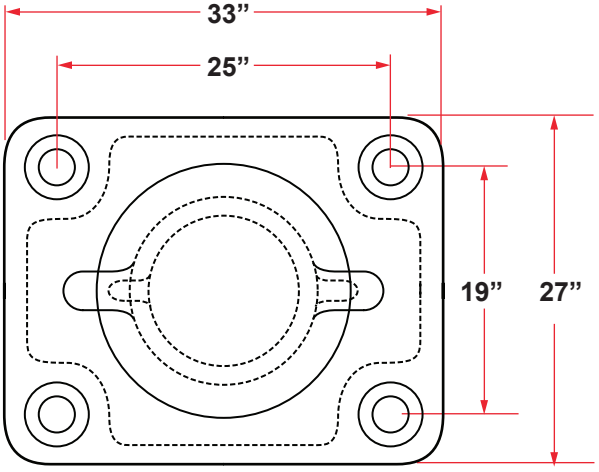


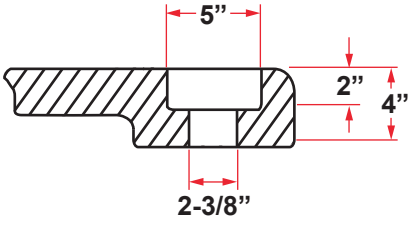


2” Ø CORE FOR
1-3/4” Ø BOLT

20 TON BOLLARD AMB 20



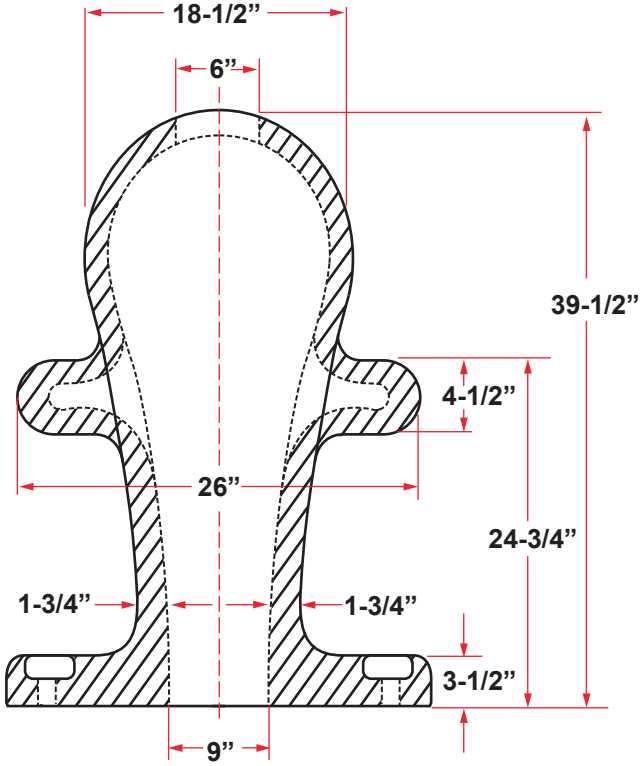


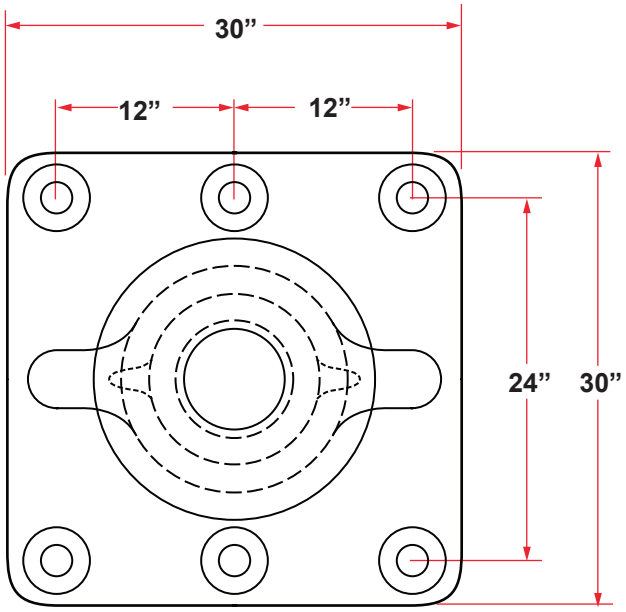


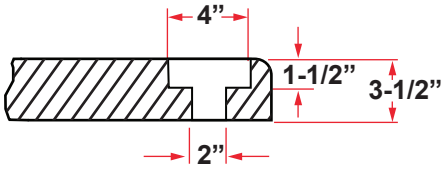
2-3/8” Ø CORE FOR
2-1/4” Ø BOLT

25 TON BOLLARD AMB 25

DOCK



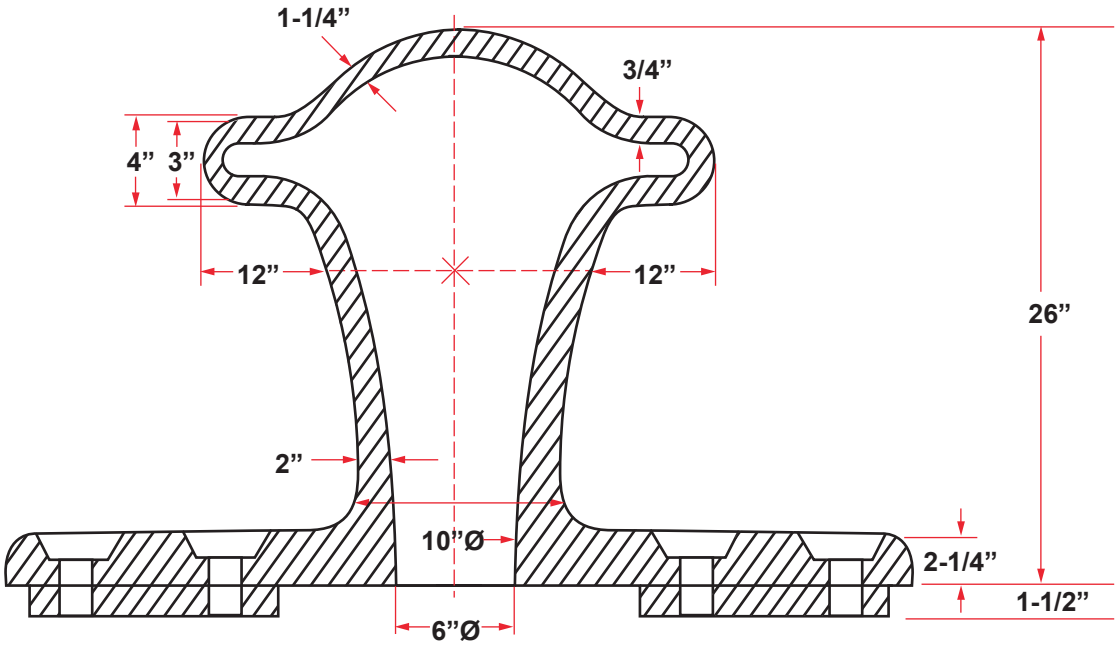


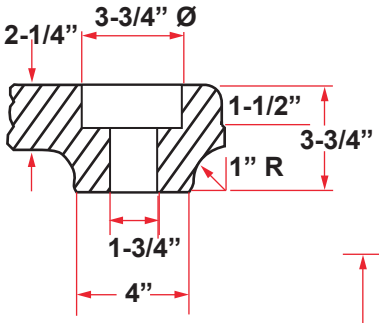


2” Ø CORE FOR
1-3/4” Ø BOLT

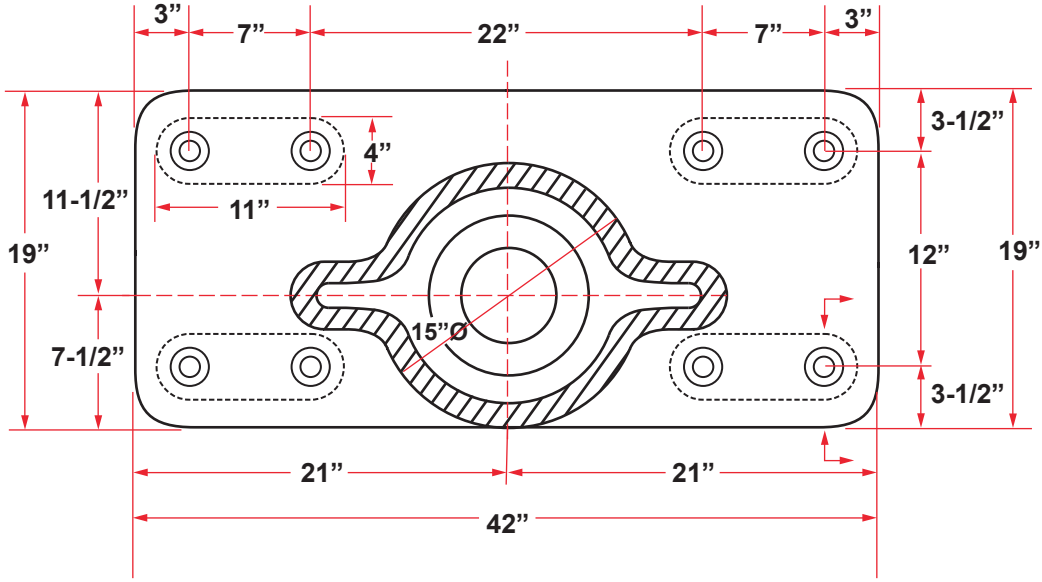
30 TON BOLLARD AMB 30

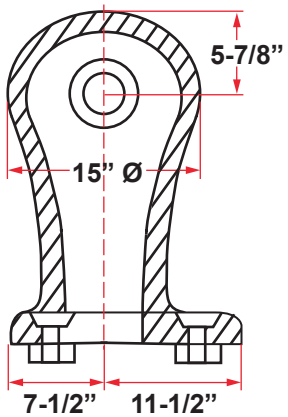
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1-3/4” Ø CORE FOR
1-1/2” Ø BOLT

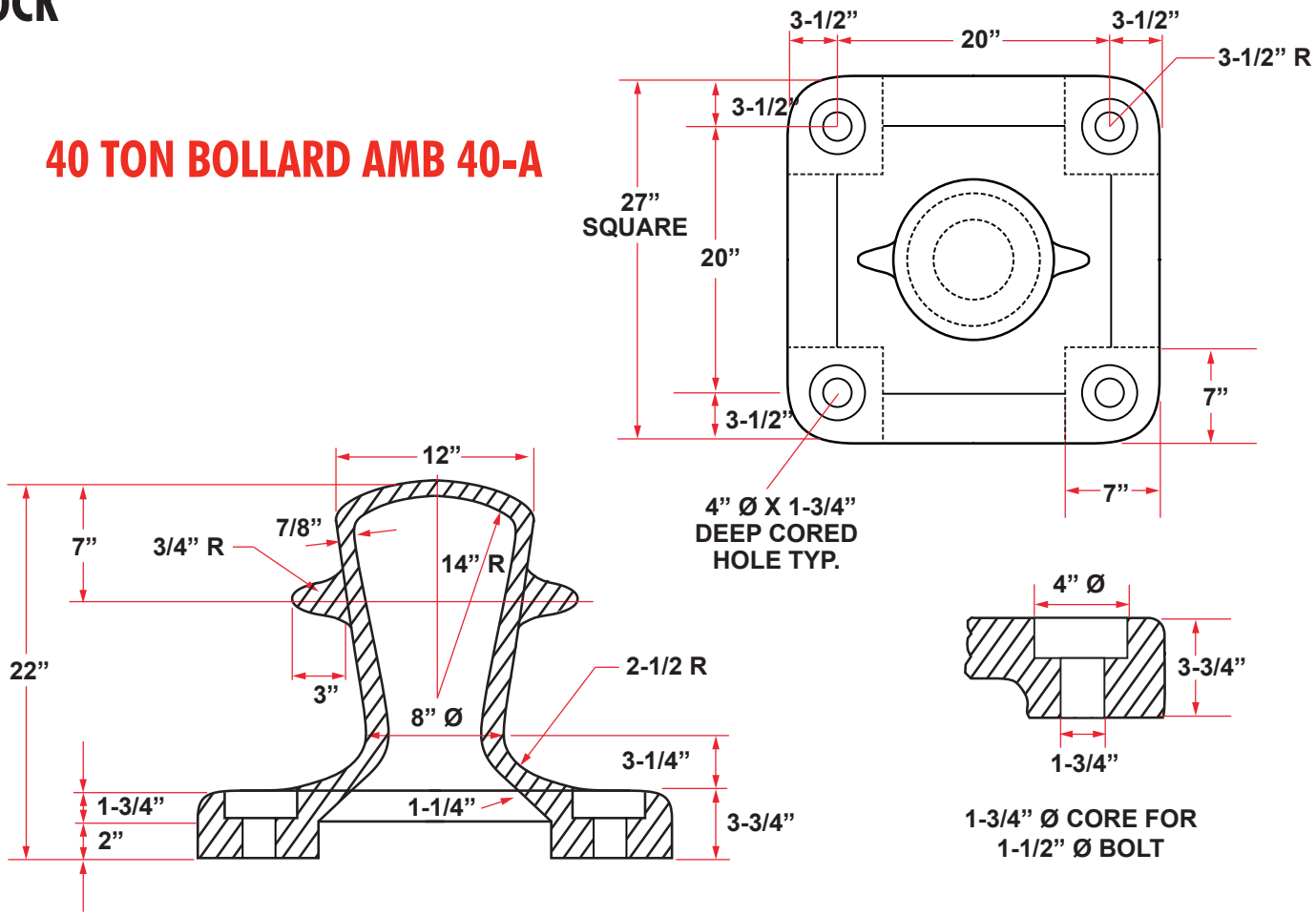




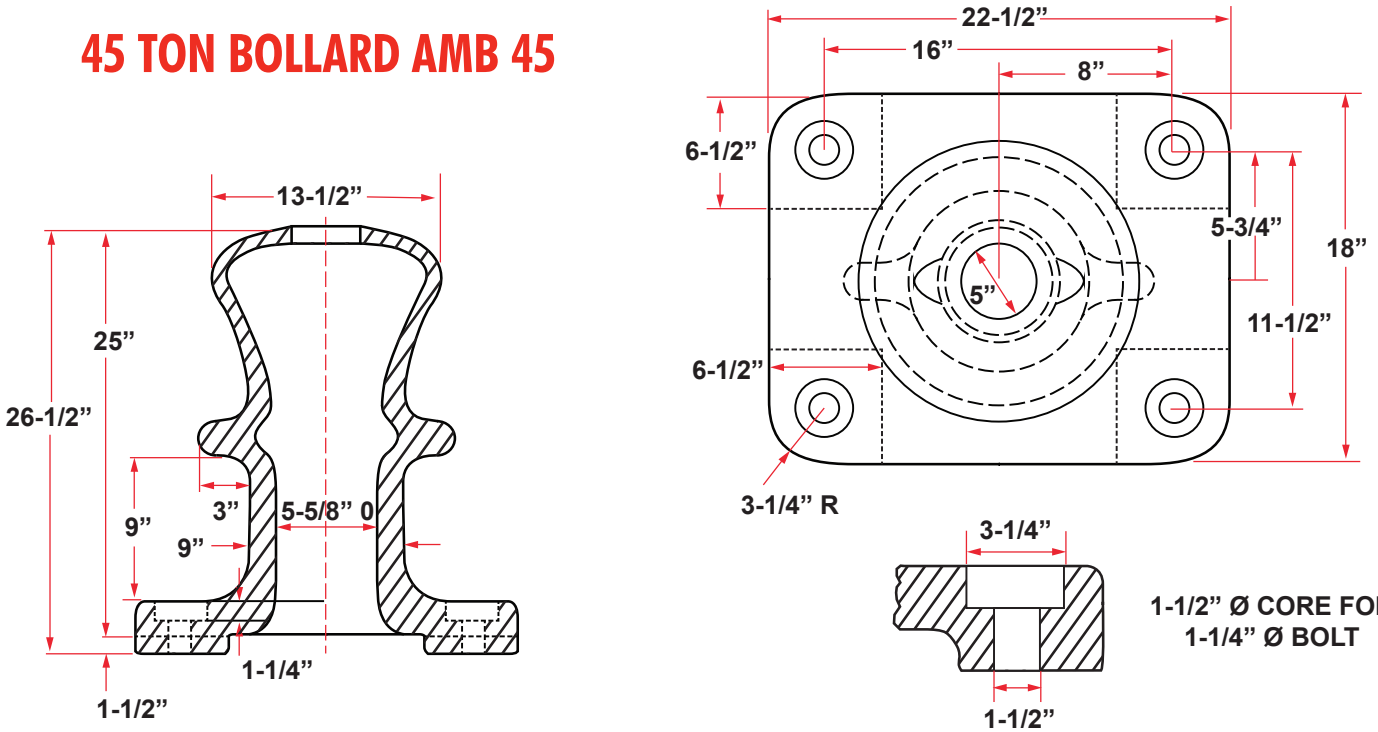
40 TON BOLLARD AMB 40

DOCK

40 TON BOLLARD AMB 40-A



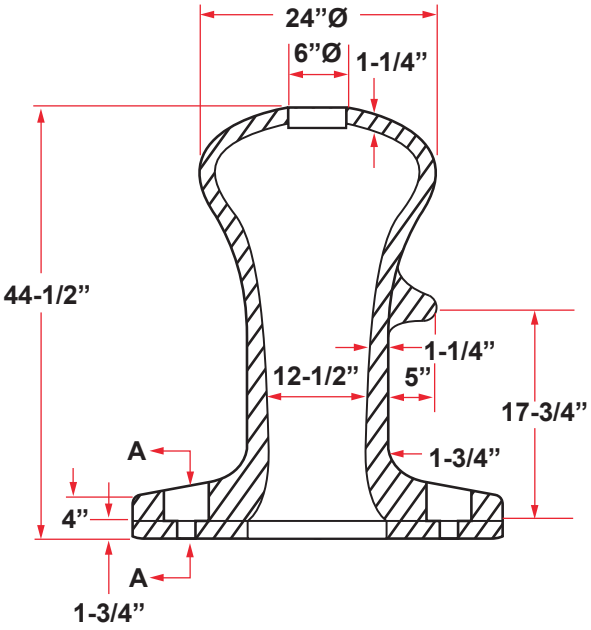
45 TON BOLLARD AMB 45

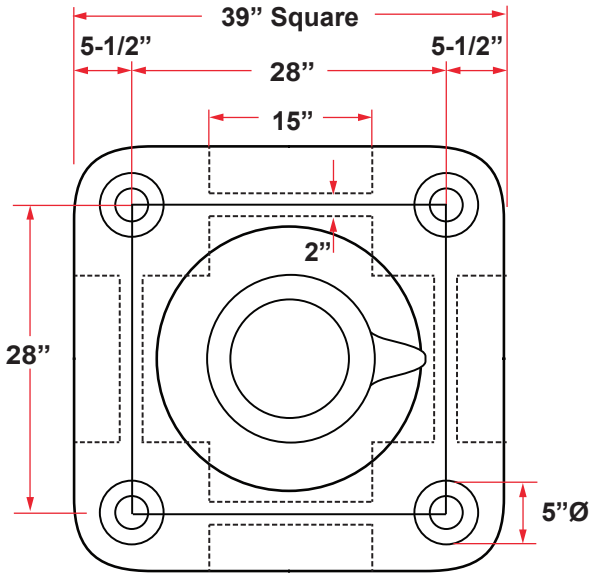


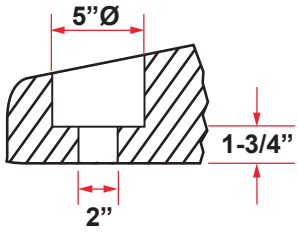
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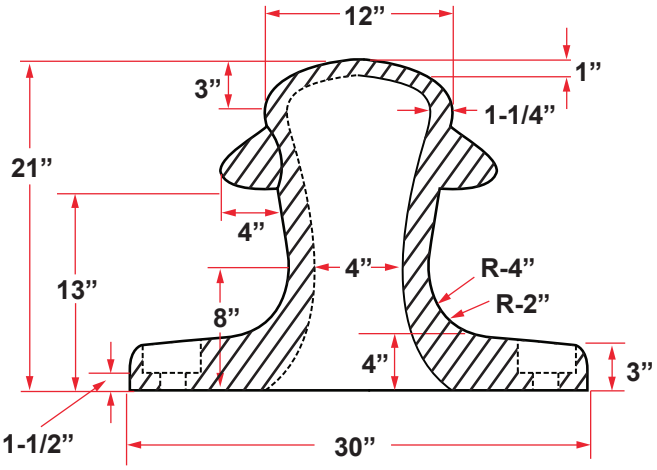


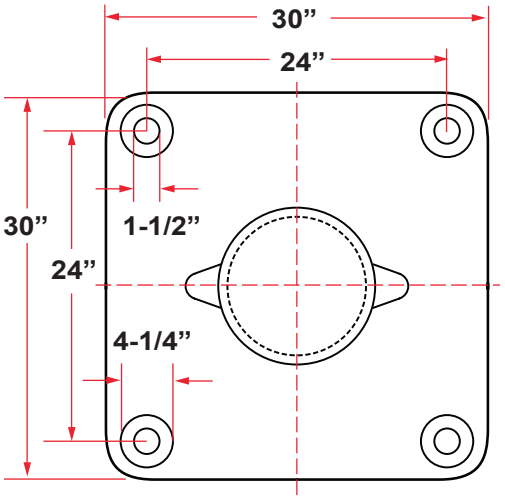


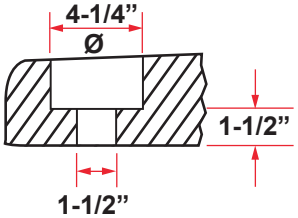


2" Ø CORE FOR
1-3/4" Ø BOLT

50 TON BOLLARD AMB 50



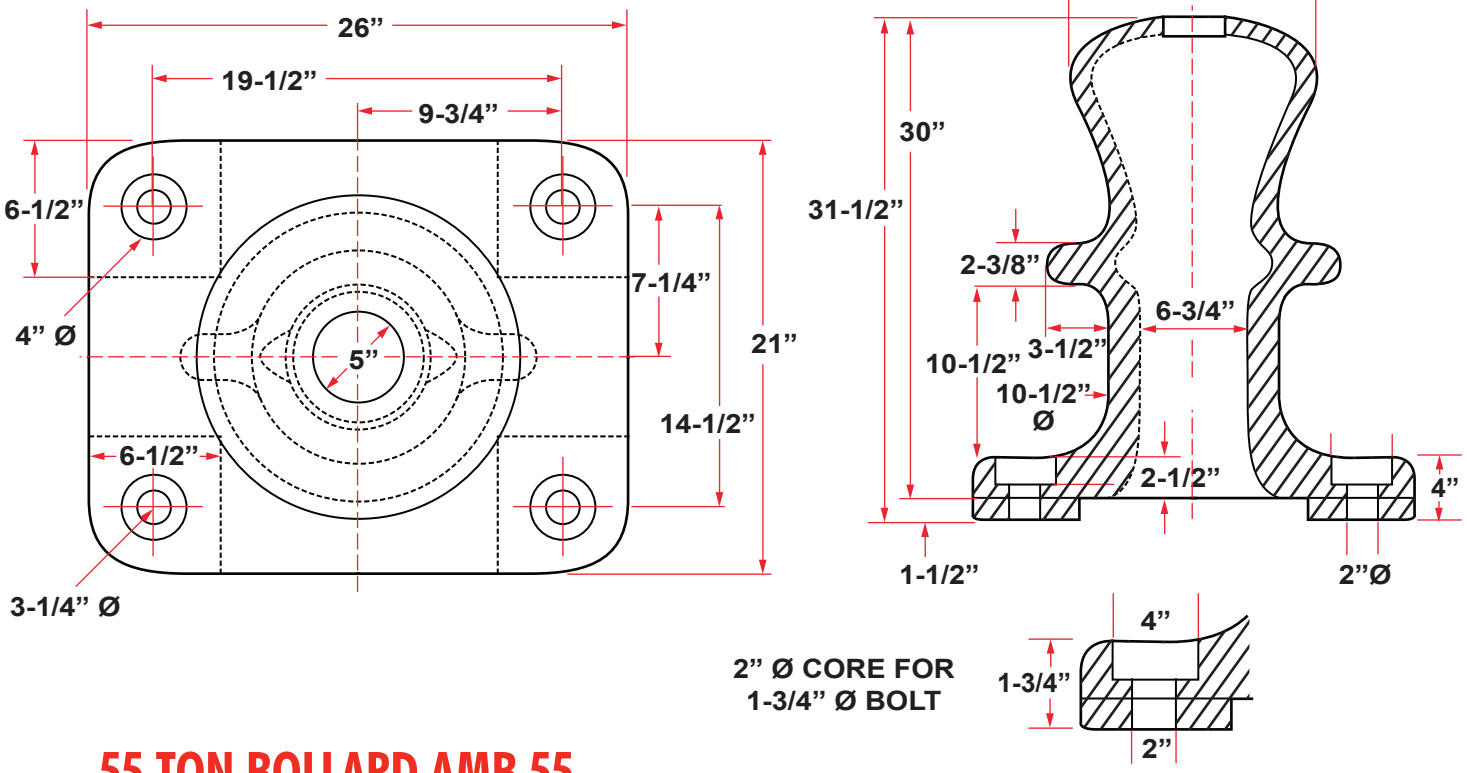




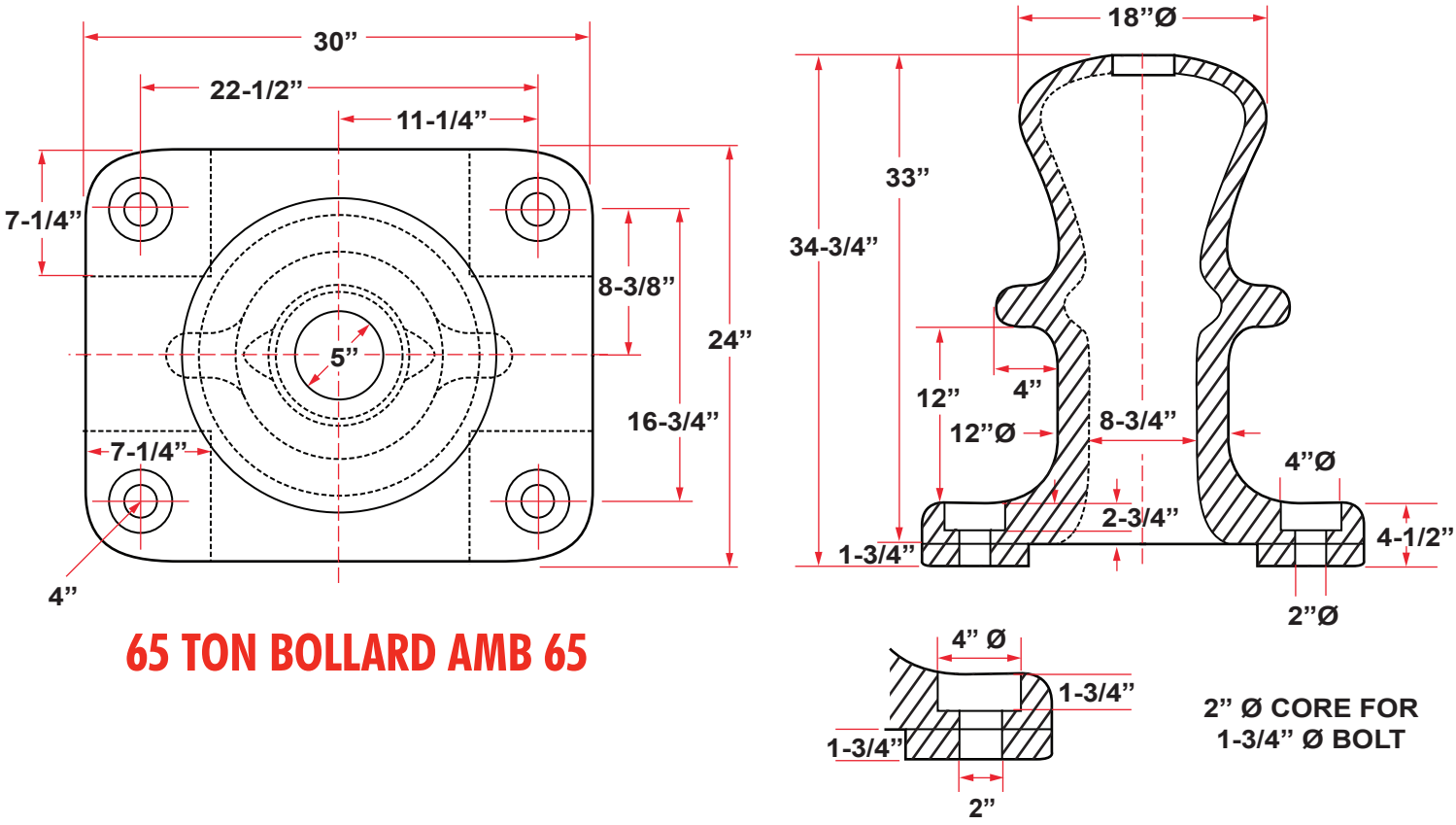
1-1/2" Ø CORE FOR
1-1/4" Ø BOLT

50 TON BOLLARD AMB 50-A

DOCK



55 TON BOLLARD AMB 55

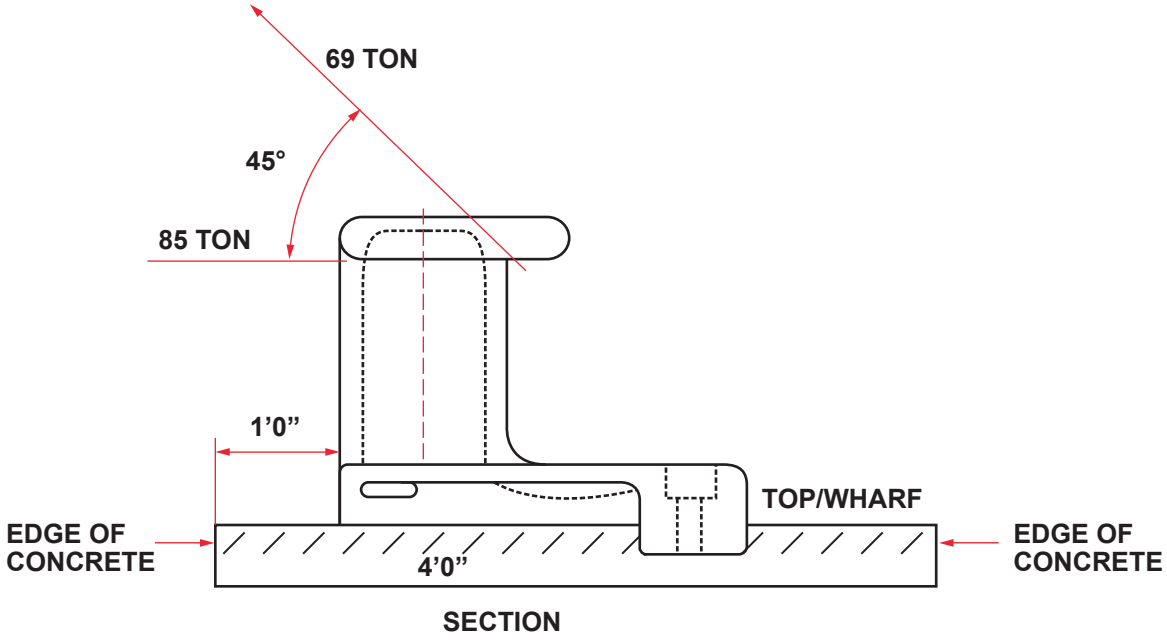


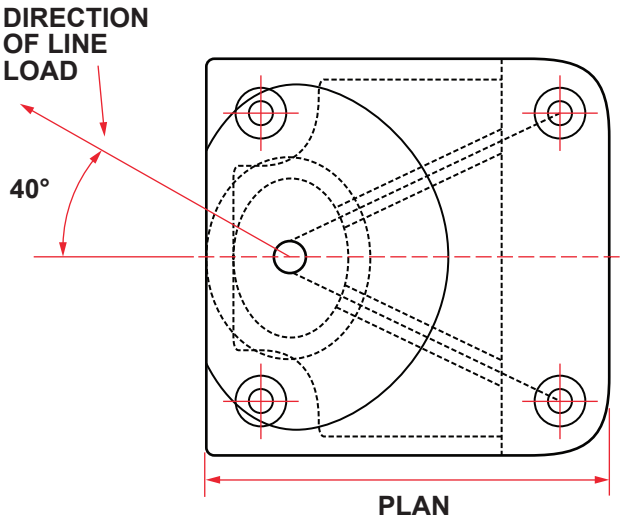
65 TON BOLLARD AMB 65

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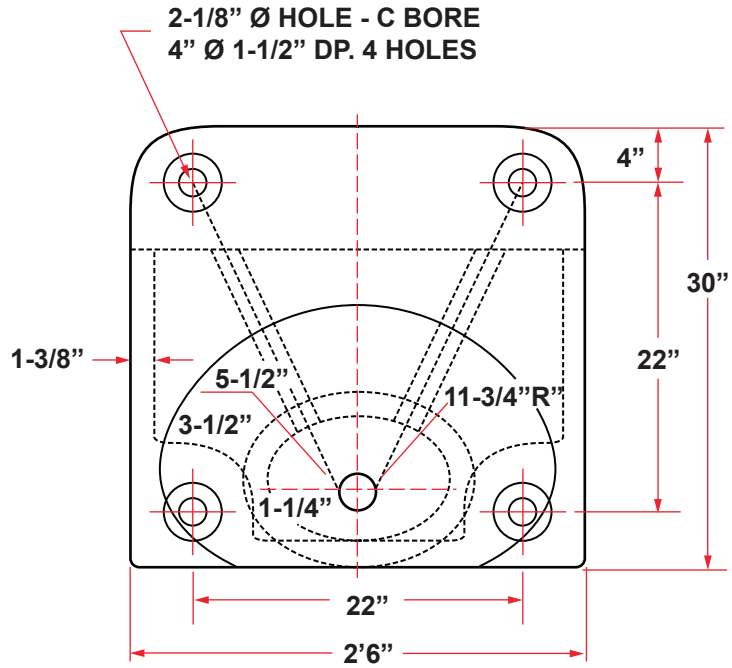
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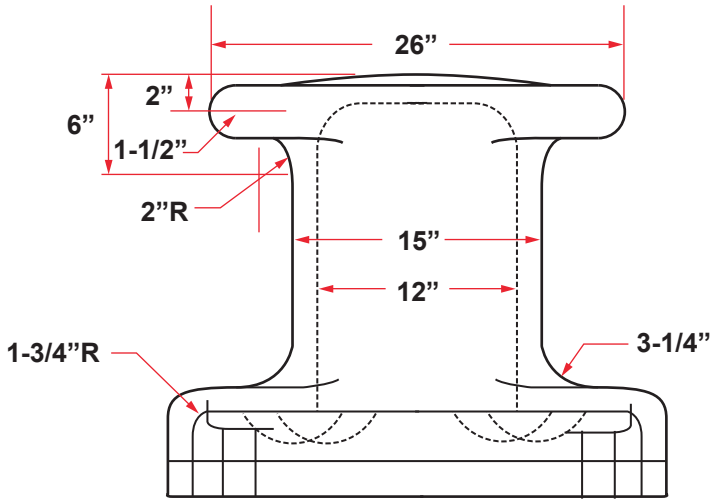


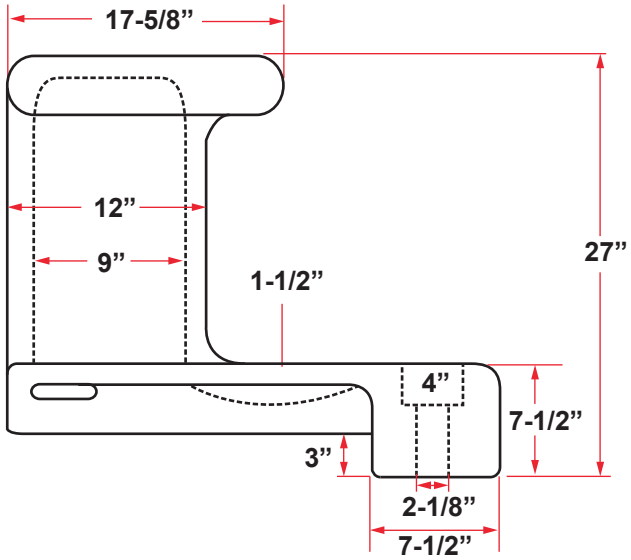


T-HEAD BOLLARD MOORING LINE LOAD

DOCK



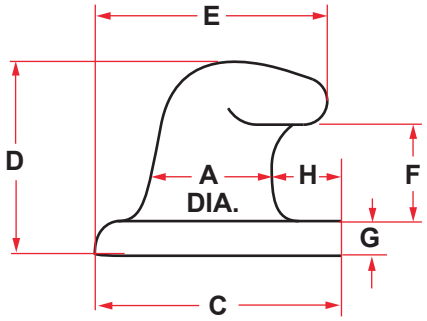


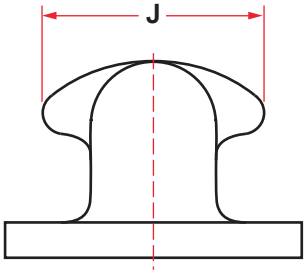


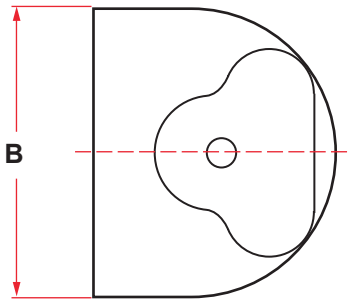
2 1/8" Ø CORE FOR
2" Ø BOLTS

70 TON BOLLARD AMB 70

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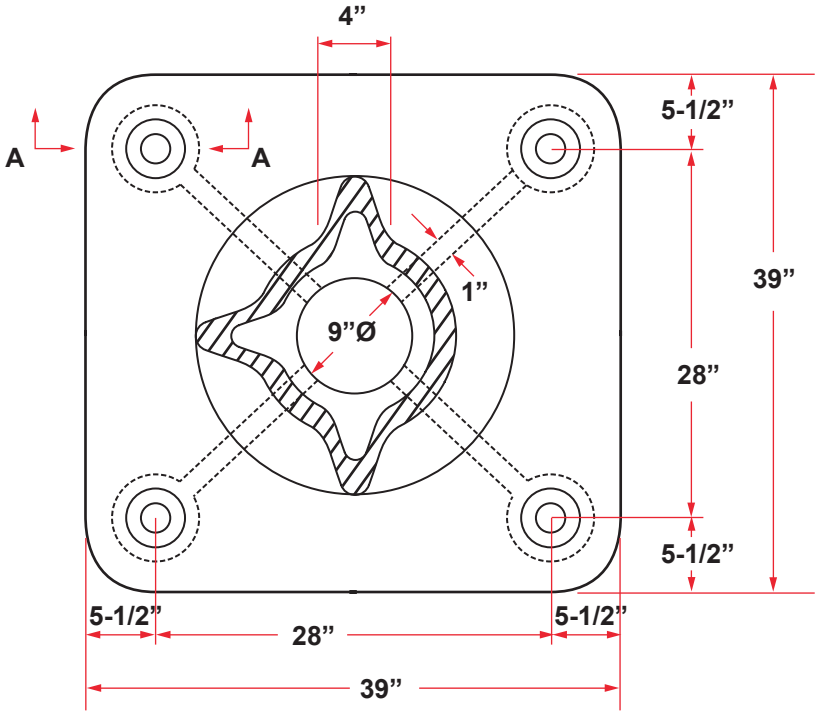


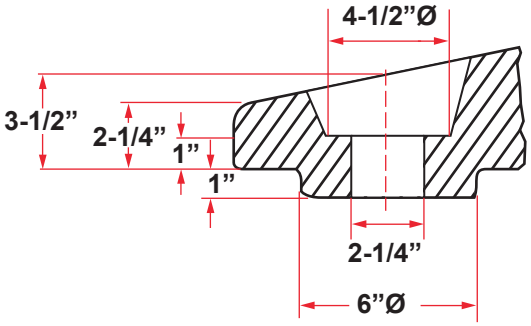
TEE HEAD MOORING BOLLARD

APPROXIMATE DIMENSIONS (INCHES)										
Load Tons	Type No.	A	B	C	D	E	F	G	H	J
50	X-5-A	11-3/4	31-1/2	25-1/2	19	22-1/2	9-1/2	3	8	23-1/2
75	X-9-A	13-1/2	31-1/2	28-1/4	20	24-1/4	10-1/4	3-1/2	8-3/4	25-1/2
100	X-10-A	14-3/4	39-1/4	32	23-1/2	28	12	4	10-3/4	29-1/2
150	X-15-A	17	42-1/2	35-1/2	26-1/4	32-3/4	13-3/4	4-3/8	11	31-1/2

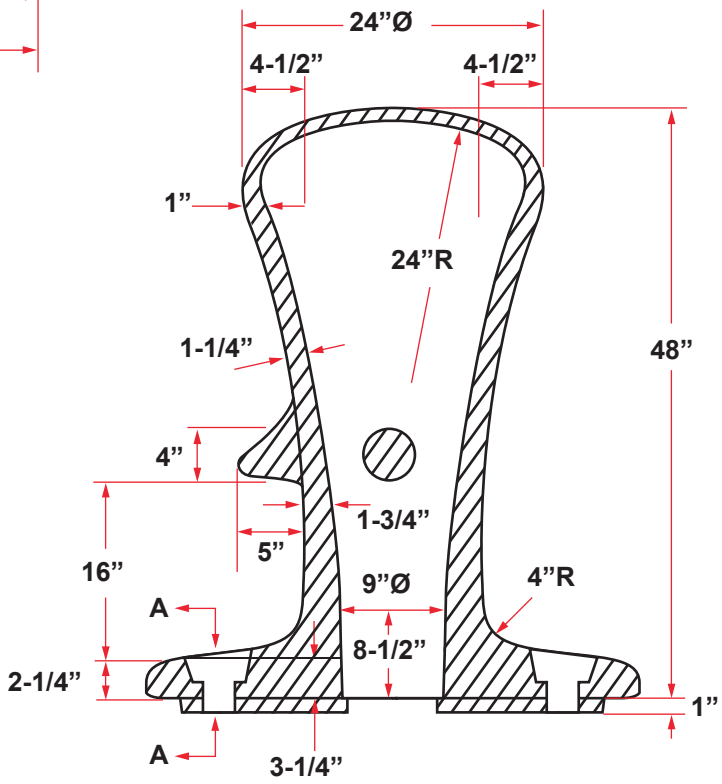


DOCK





2-1/4” CORE HOLES FOR
2” Ø BOLTS

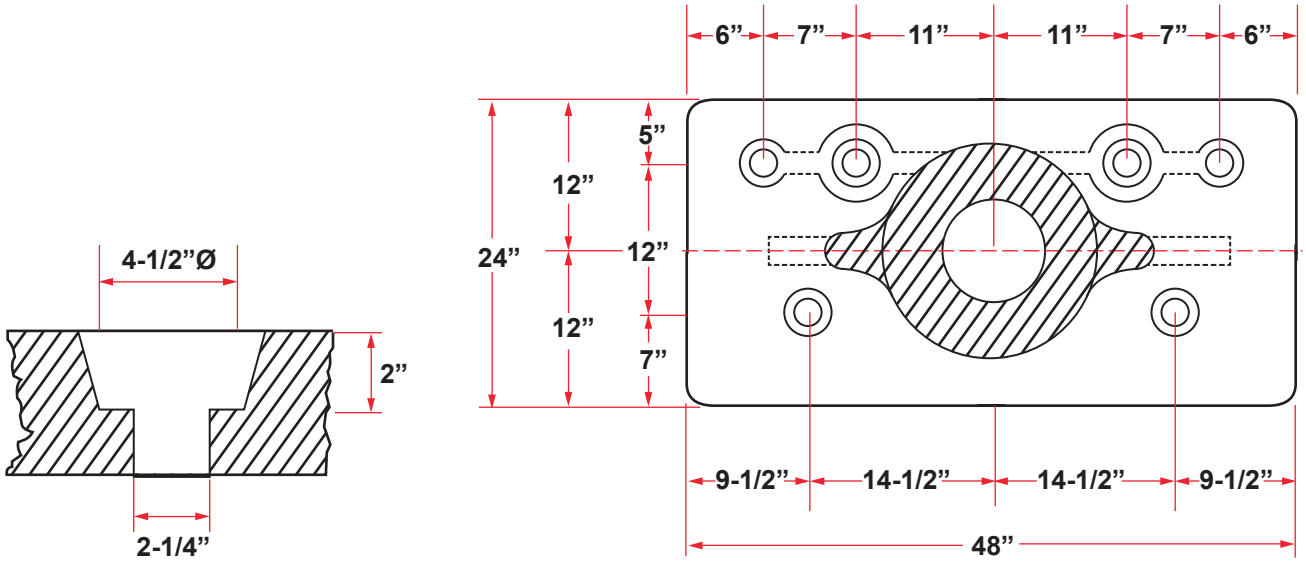


80 TON BOLLARD AMB 80

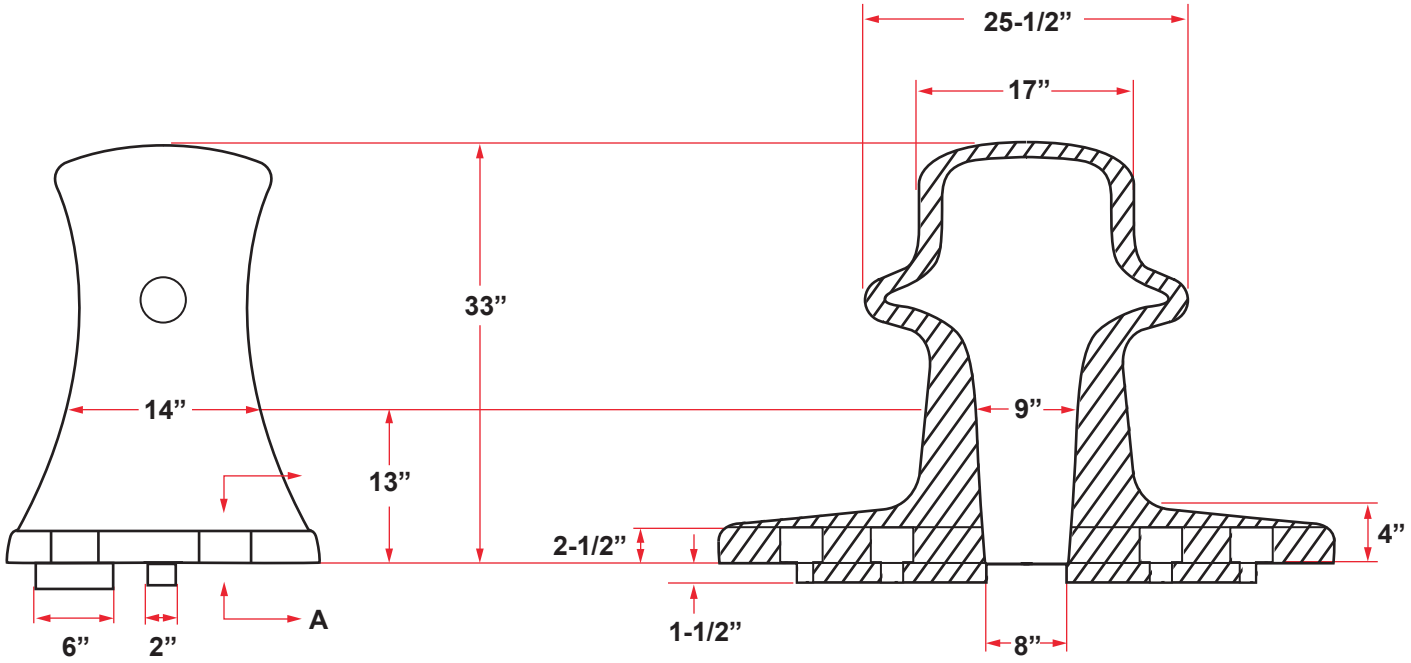
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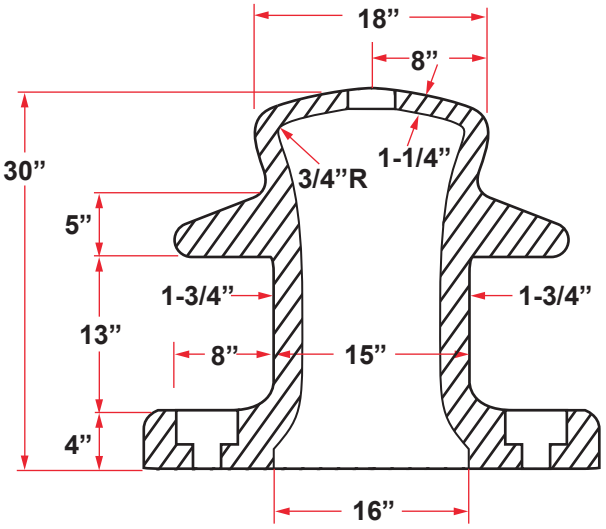


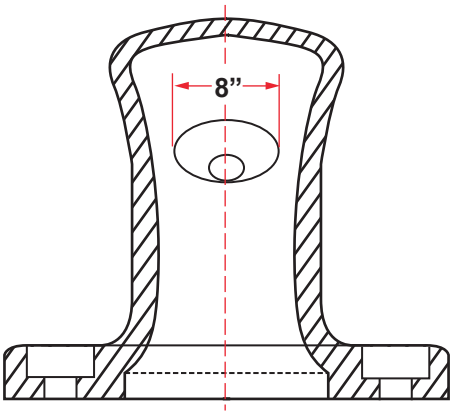
2-1/4” Ø CORE FOR
2” Ø BOLT

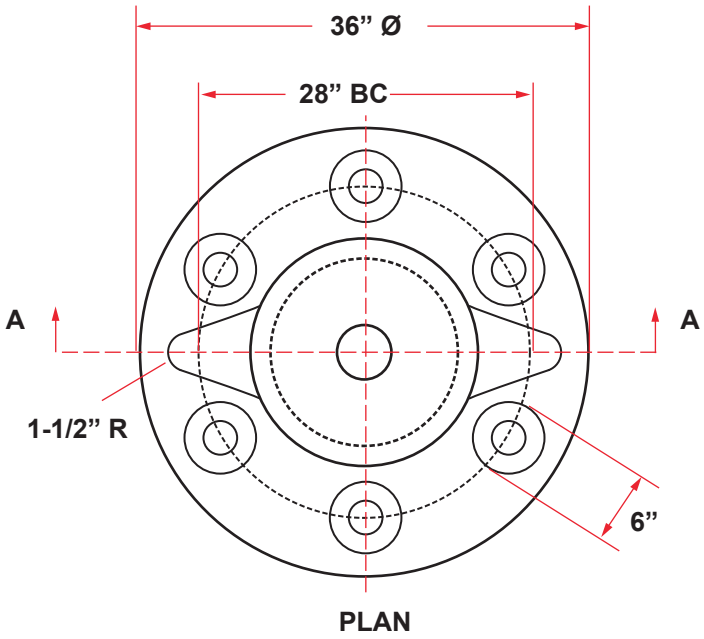


90 TON BOLLARD AMB 90

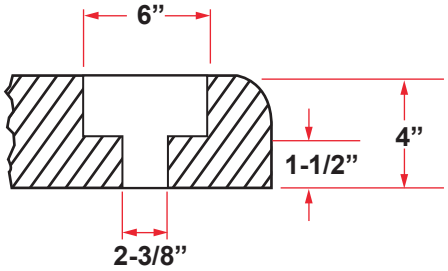
DOCK







PLAN



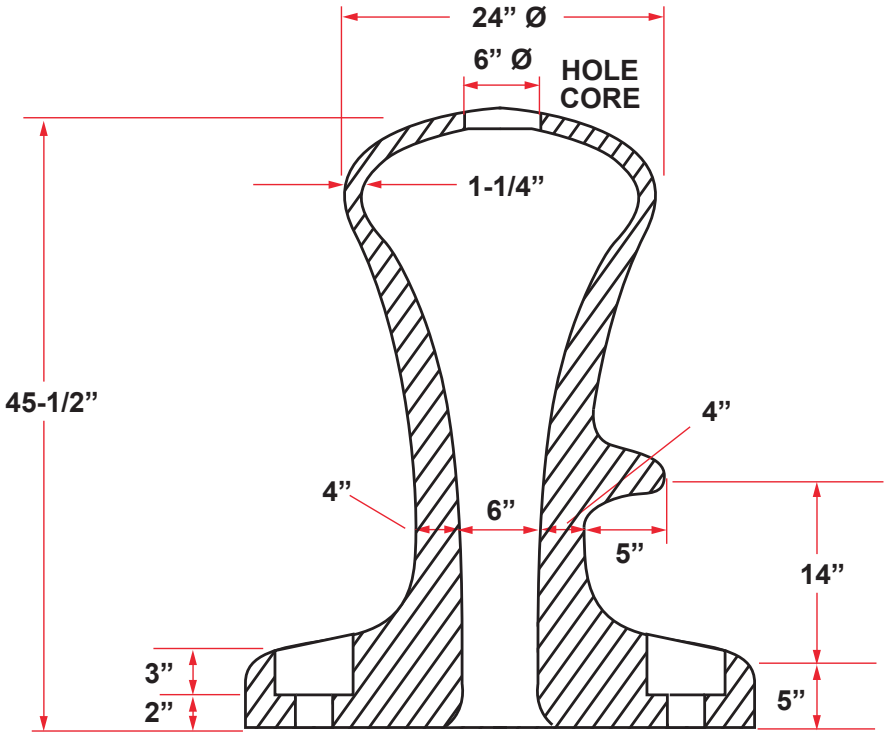
2-3/8” Ø CORE FOR
2-1/4” Ø BOLT

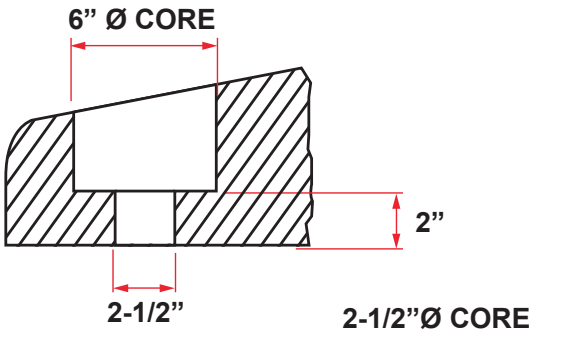
100 TON BOLLARD AMB 100

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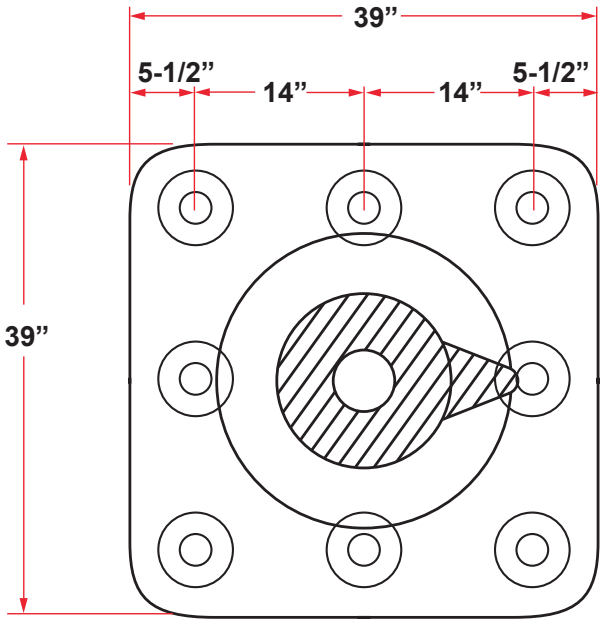
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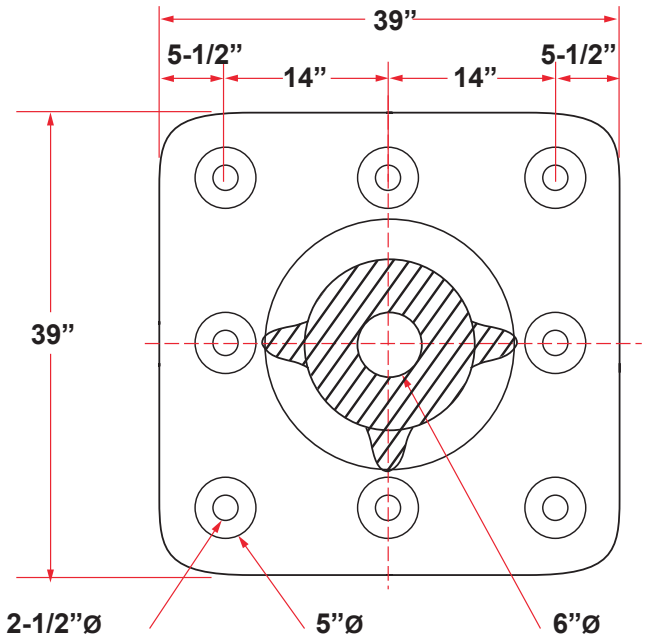


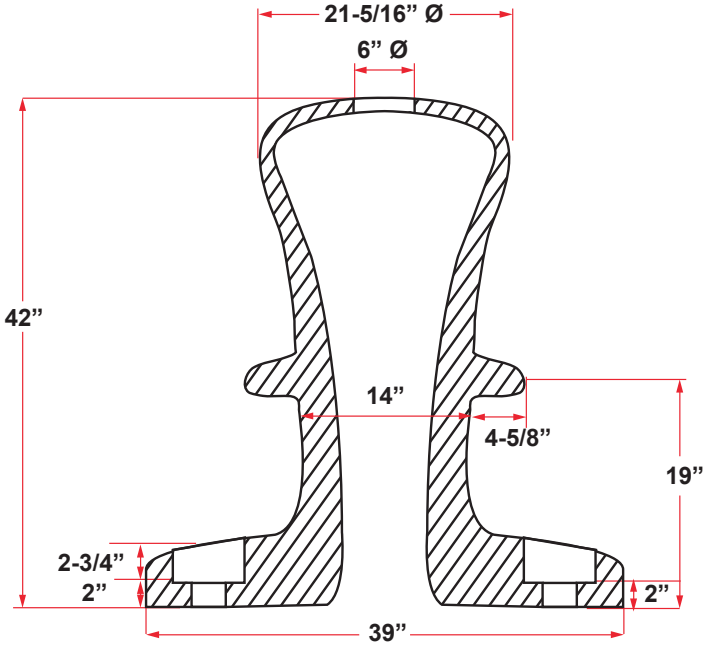
2-1/2"Ø CORE
FOR 2-1/4" Ø BOLT

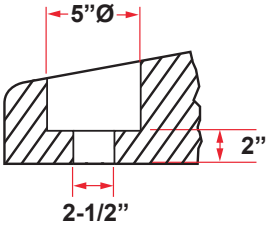


100 TON BOLLARD AMB 100-A

DOCK







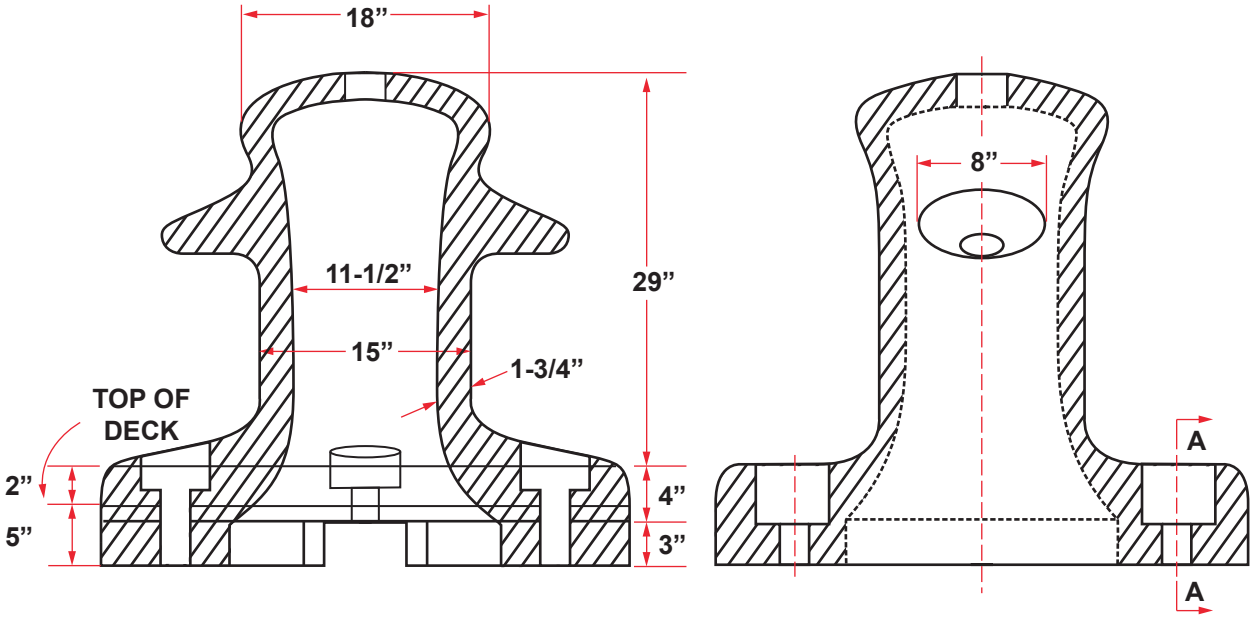
2 1/2” Ø CORE FOR
2-1/4” Ø BOLT

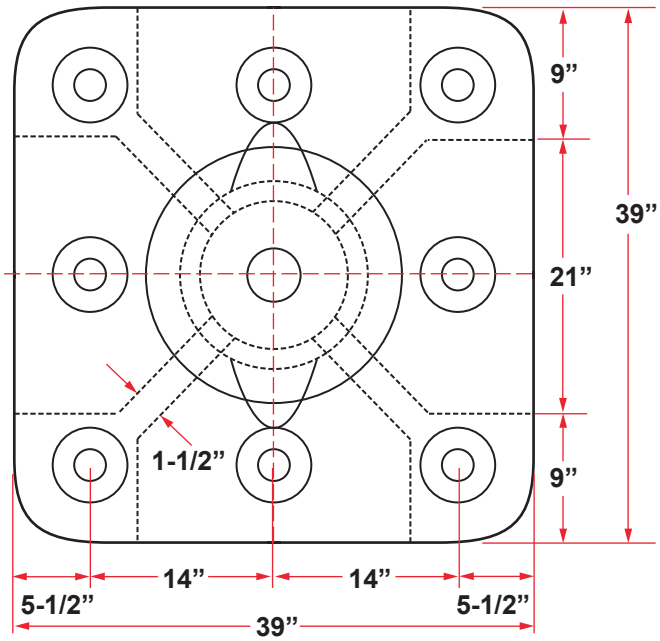
100 TON BOLLARD AMB 100-B

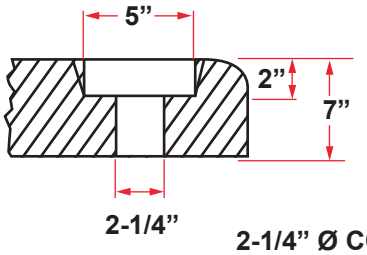
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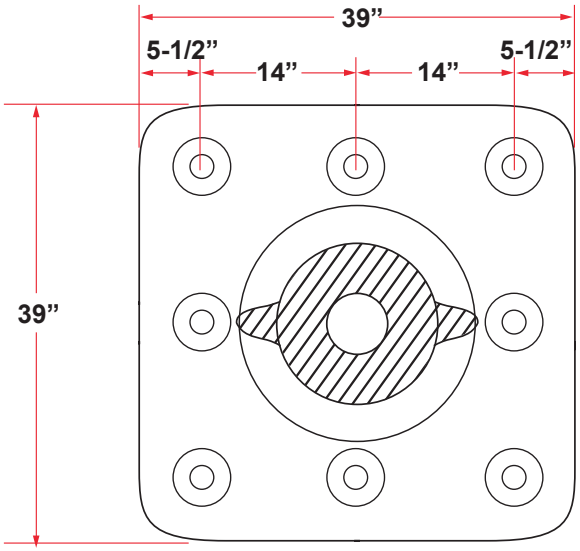


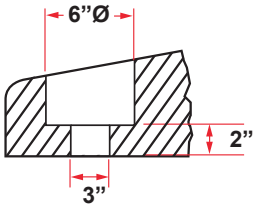


2-1/4” Ø CORE
FOR 2’ Ø BOLT

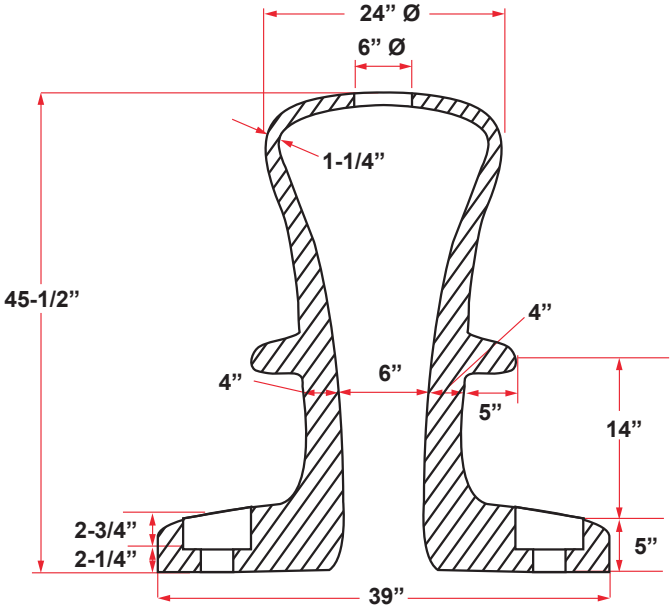
125 TON BOLLARD AMB 125

DOCK





3” Ø CORE FOR
2-3/4” Ø BOLT

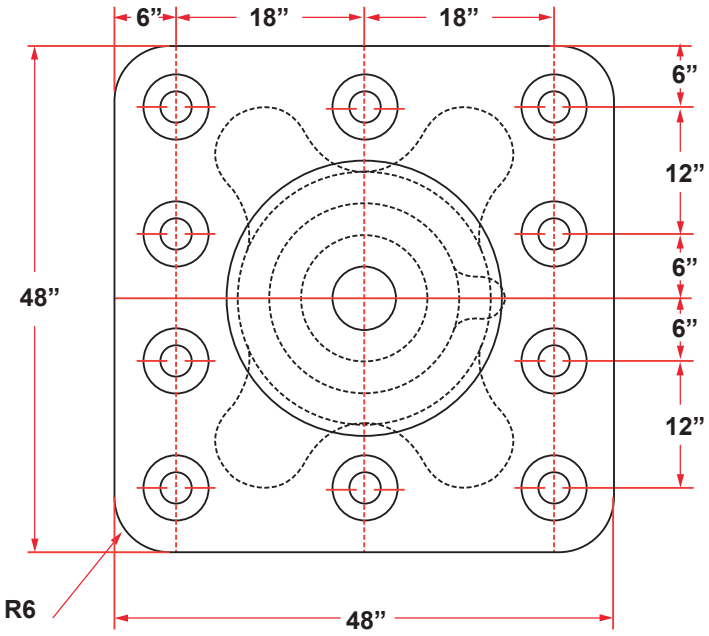


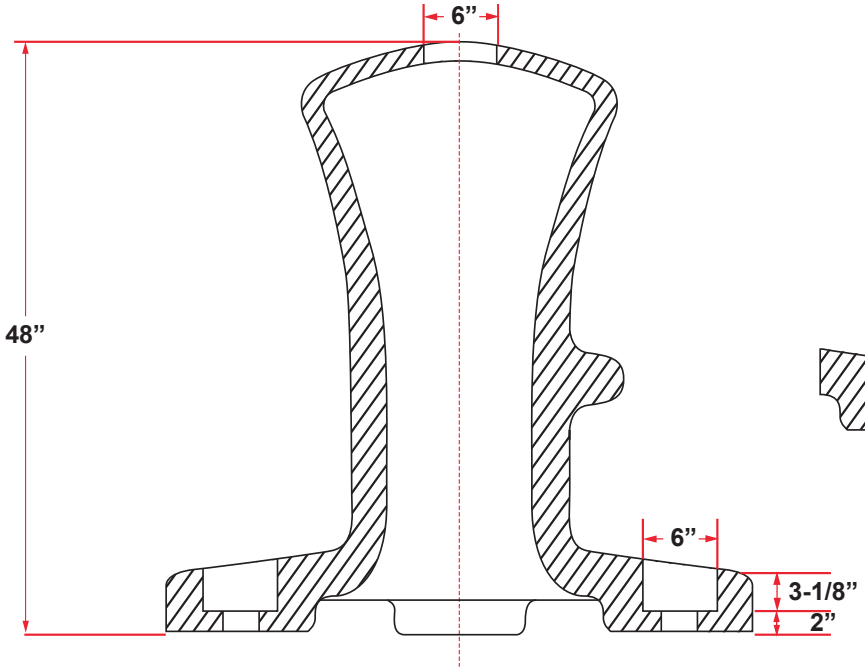
150 TON BOLLARD AMB 150

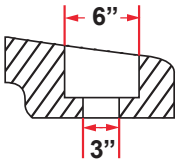
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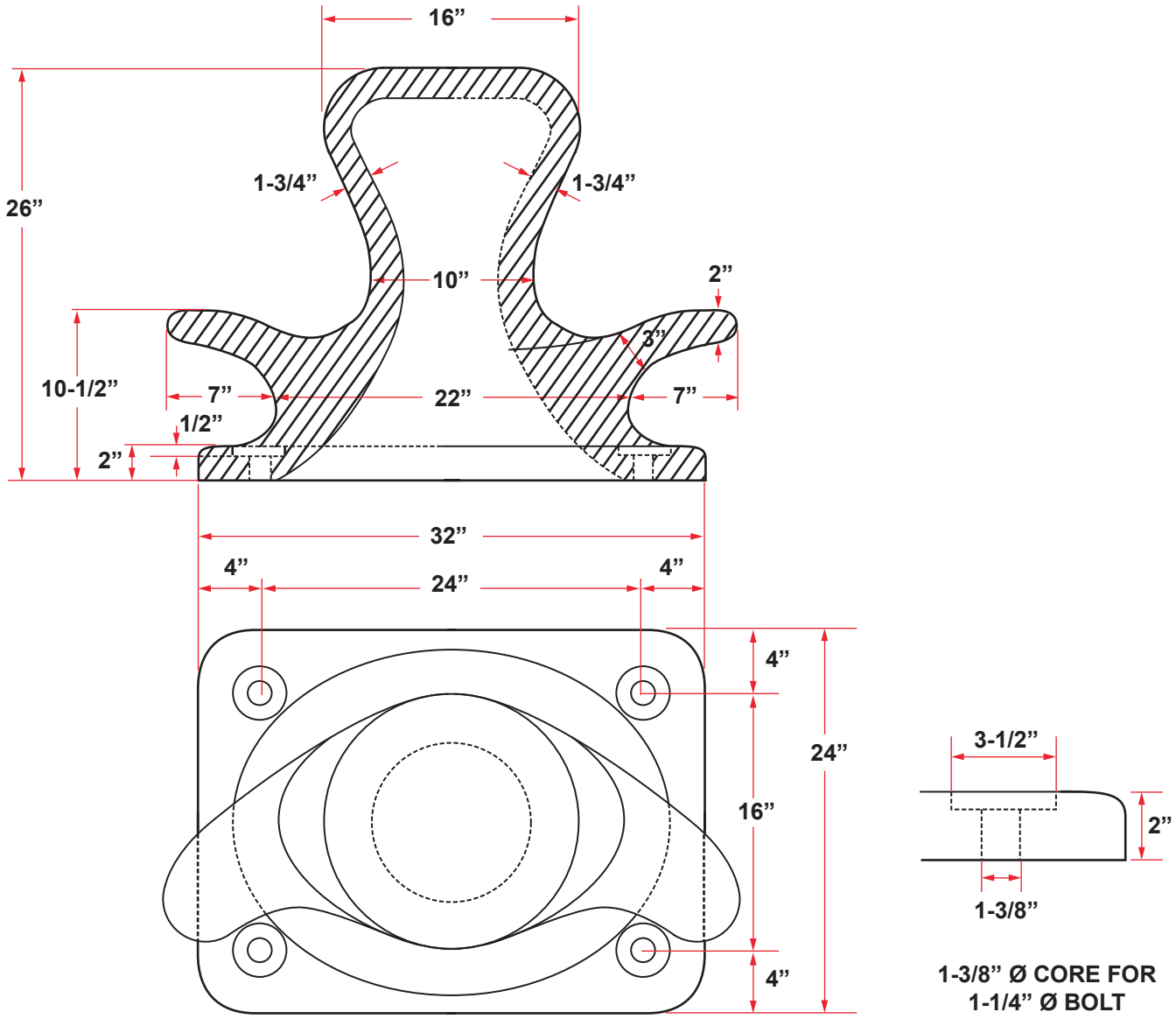




3” CORE Ø
FOR 2-3/4 BOLT

225 TON BOLLARD AMB 225

DOCK

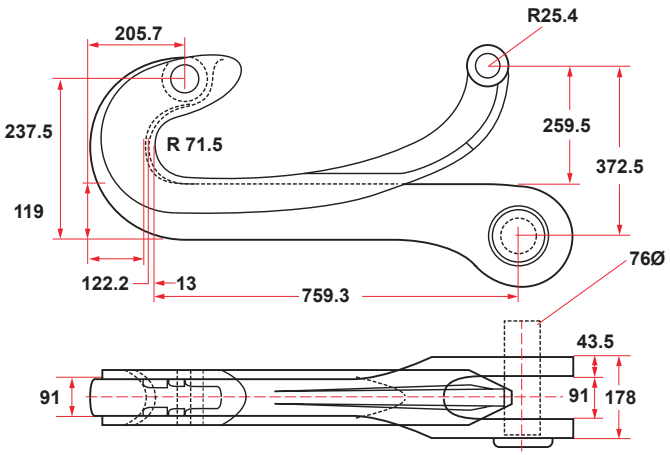


MOORING BITT MB10.2432

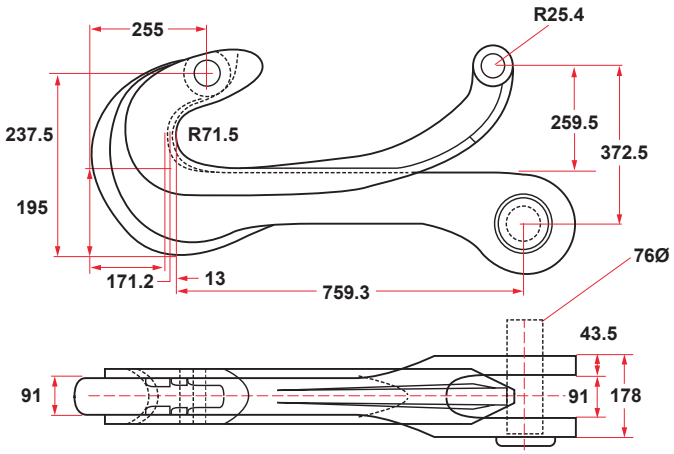
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FAX (713) 644-1185
TOLL FREE 1 (800) 233-8014
EMAIL Sales@AnchorMarineHouston.com
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QUICK RELEASE BUOY HOOK

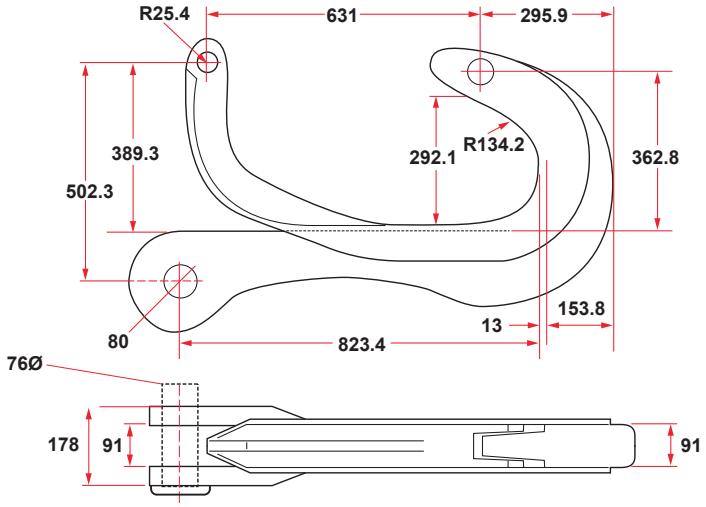
WITH ABS CERTIFICATION



300,000 LBS PROOF LOAD
WEIGHT: 357 LBS

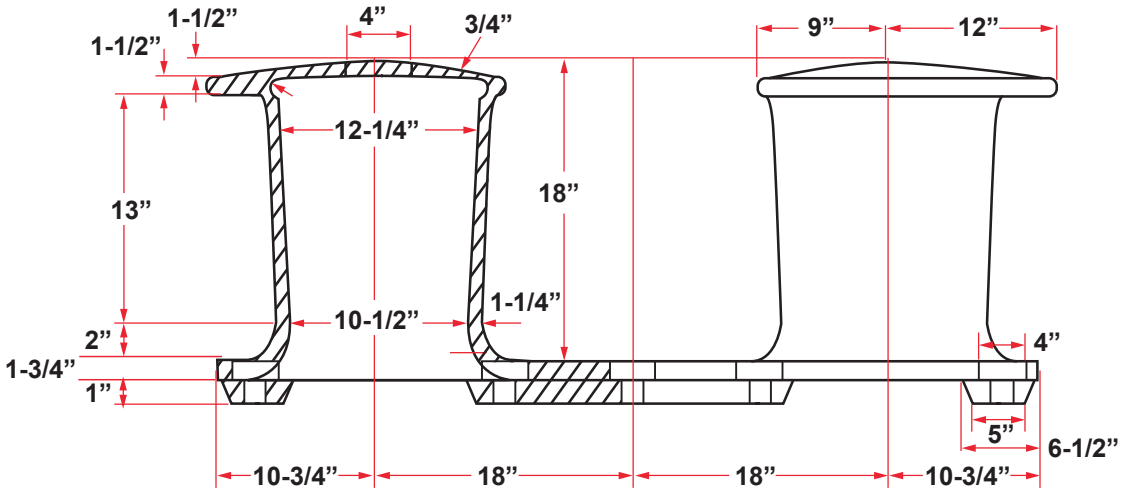


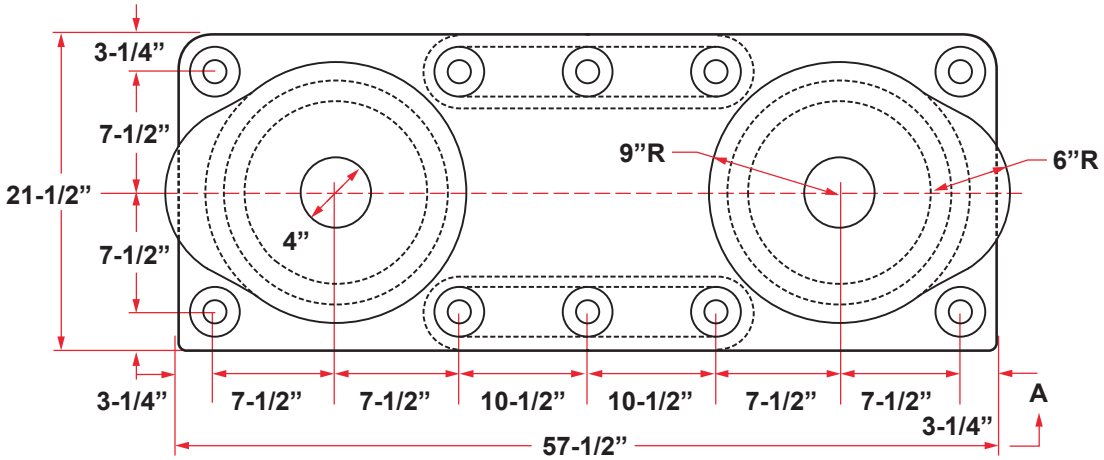
400,000 LBS PROOF LOAD
WEIGHT: 410 LBS

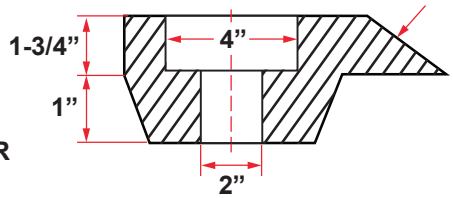


400,000 LBS PROOF LOAD WIDEMOUTH
WEIGHT: 502 LBS

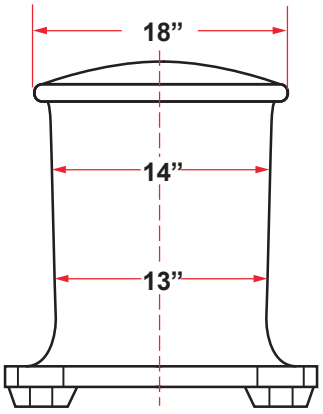
DOCK







2" Ø CORE FOR
1-3/4" Ø BOLT

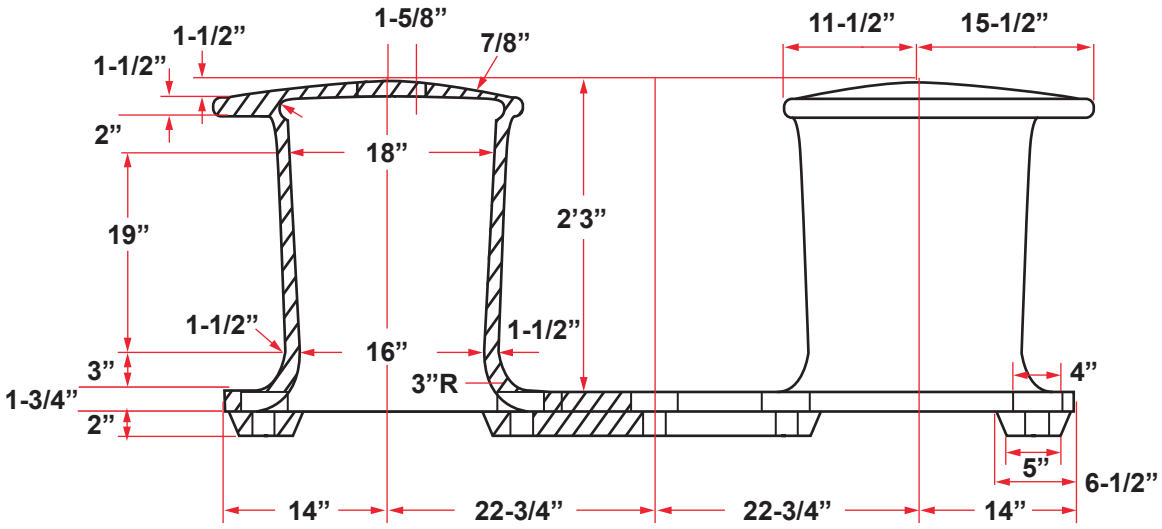


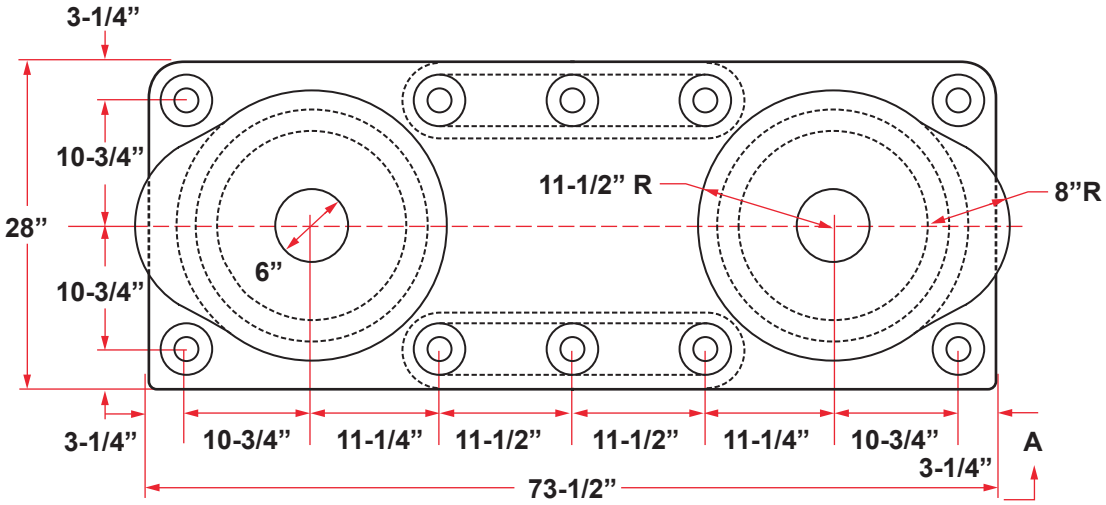
30 TON DOUBLE BITT AMDB - 30

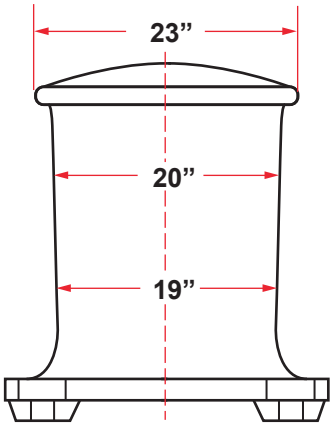
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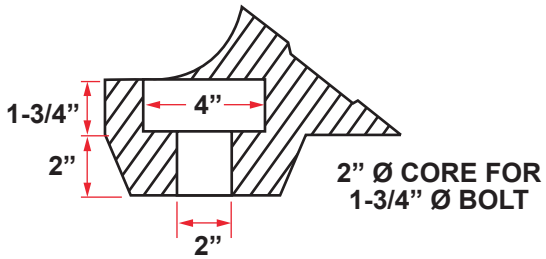
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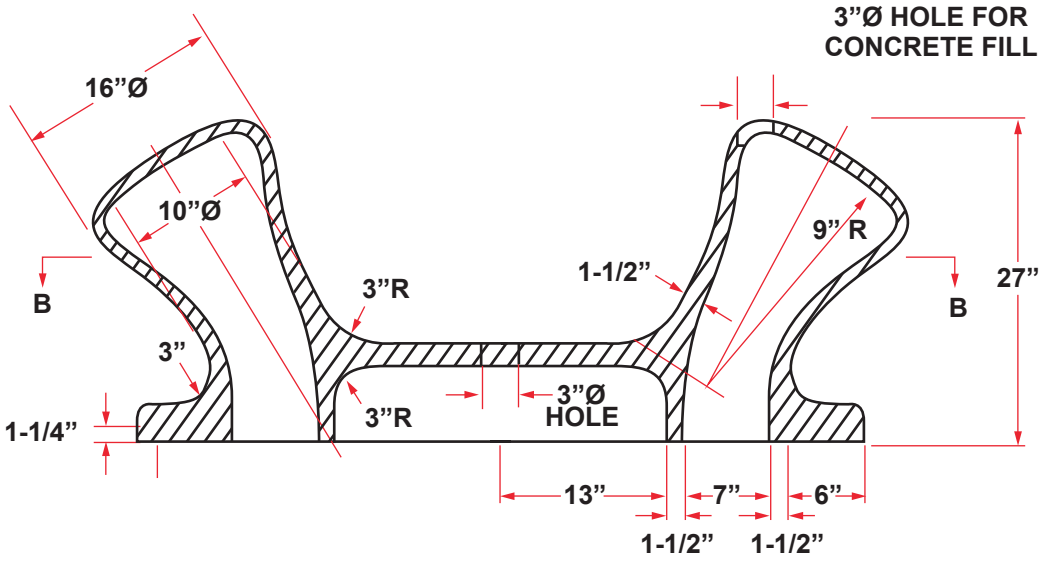


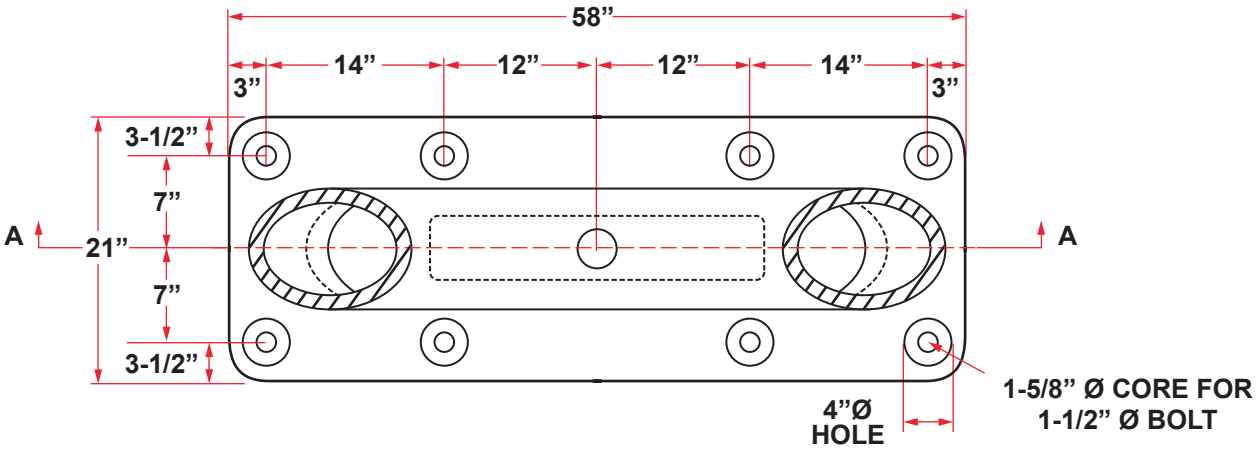


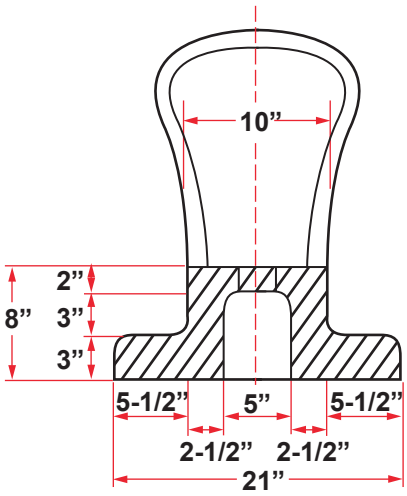


100 TON DOUBLE BITT AMDB - 100

DOCK

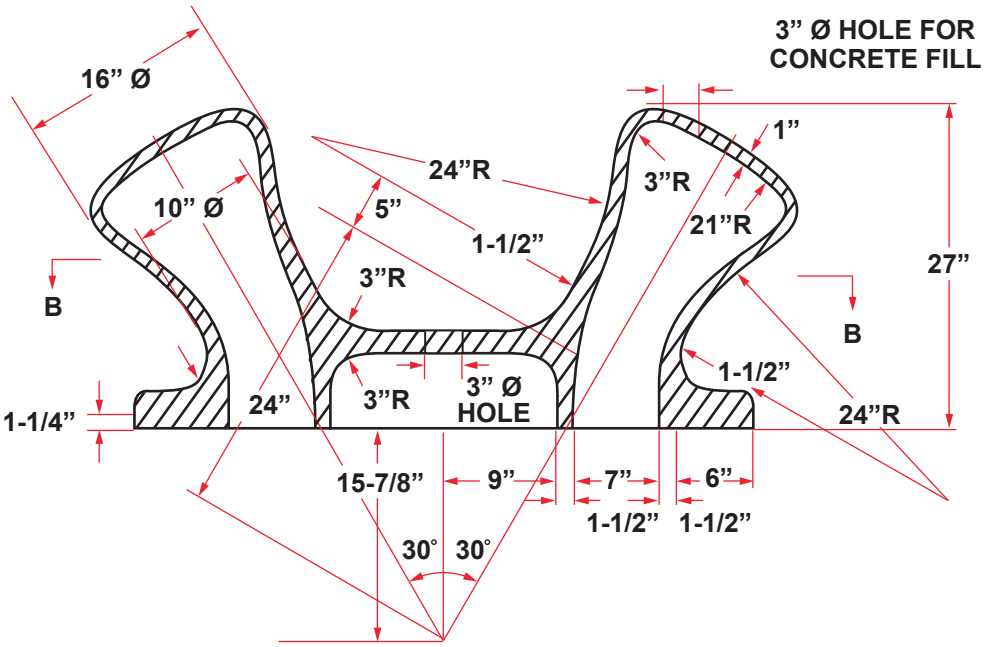


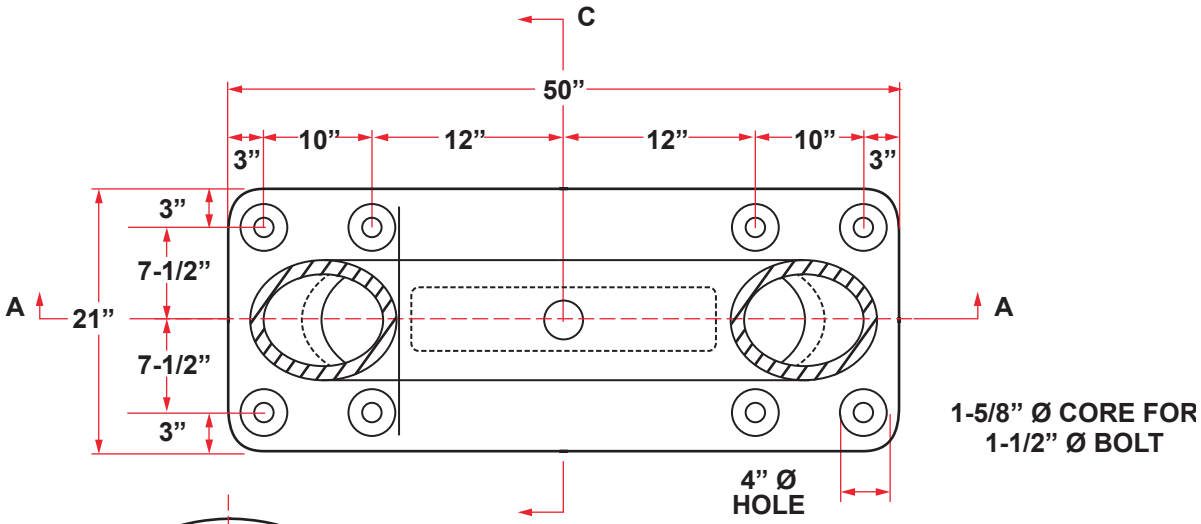


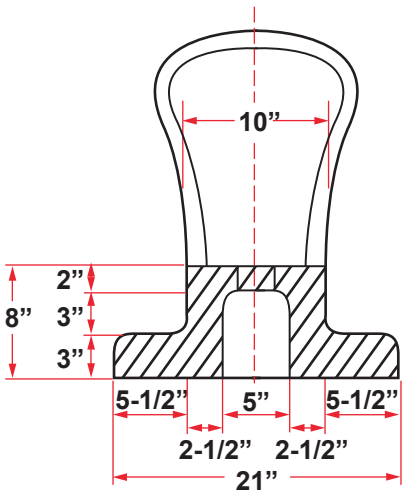


100 TON DOUBLE BITT AMDB 100 - 58

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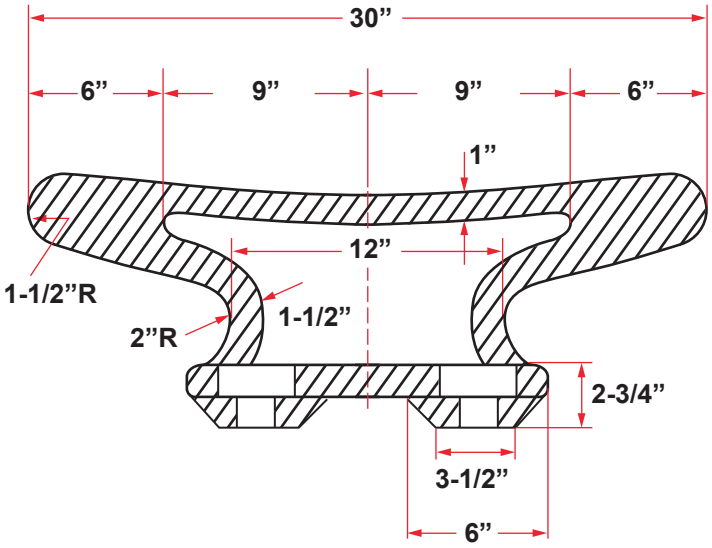


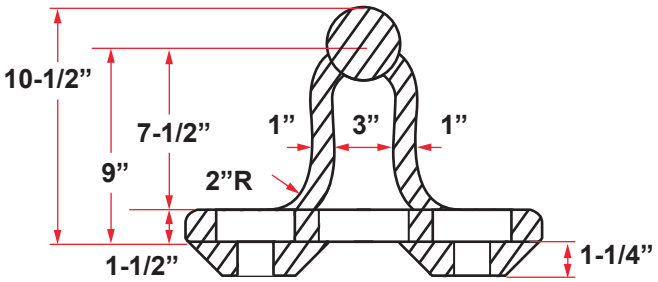


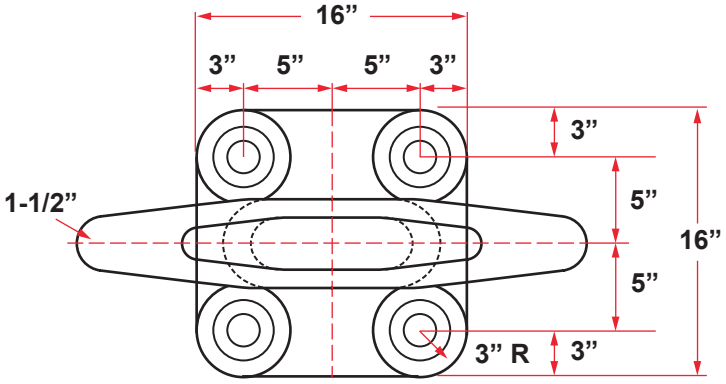


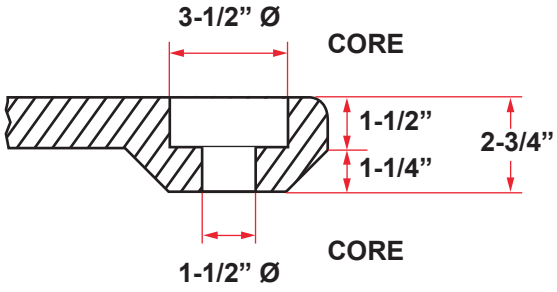
100 TON DOUBLE BITT AMDB 100 - 50

DOCK









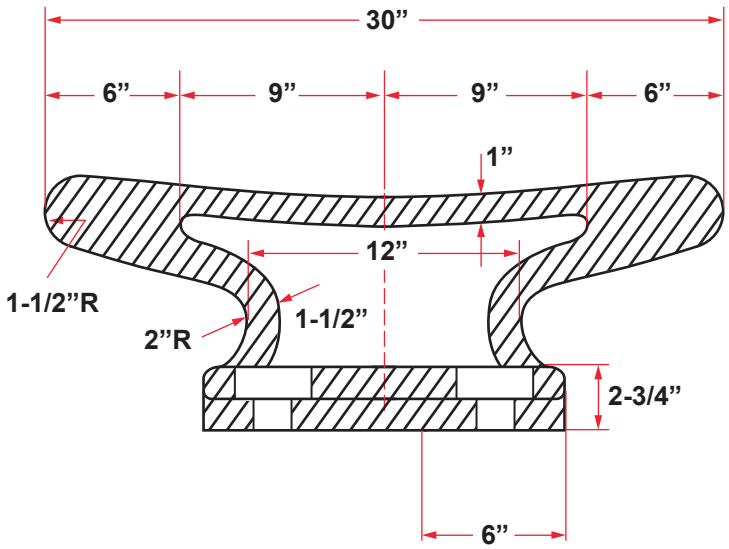
1-1/2” Ø CORE FOR
1-1/4” Ø BOLT

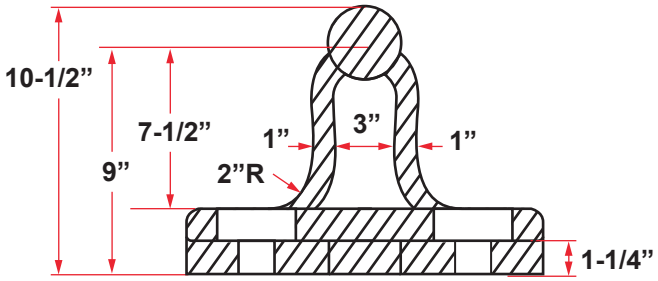
10 TON CLEAT AMC - 10A

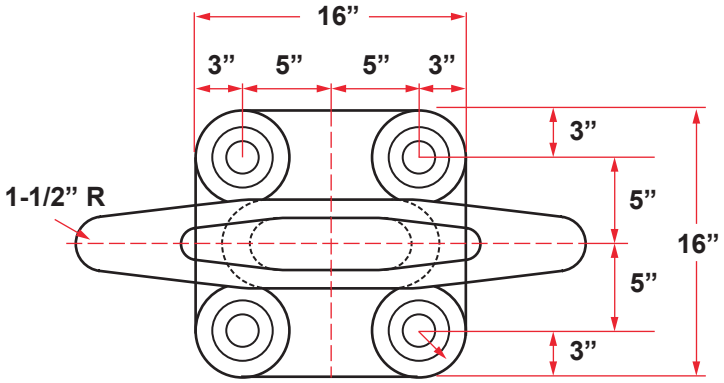
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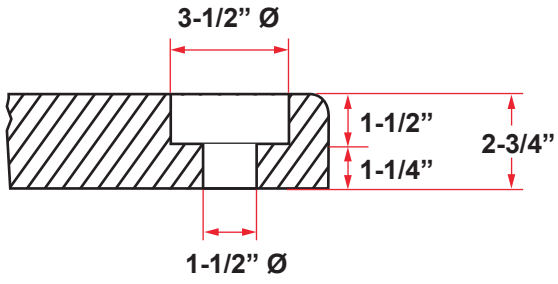
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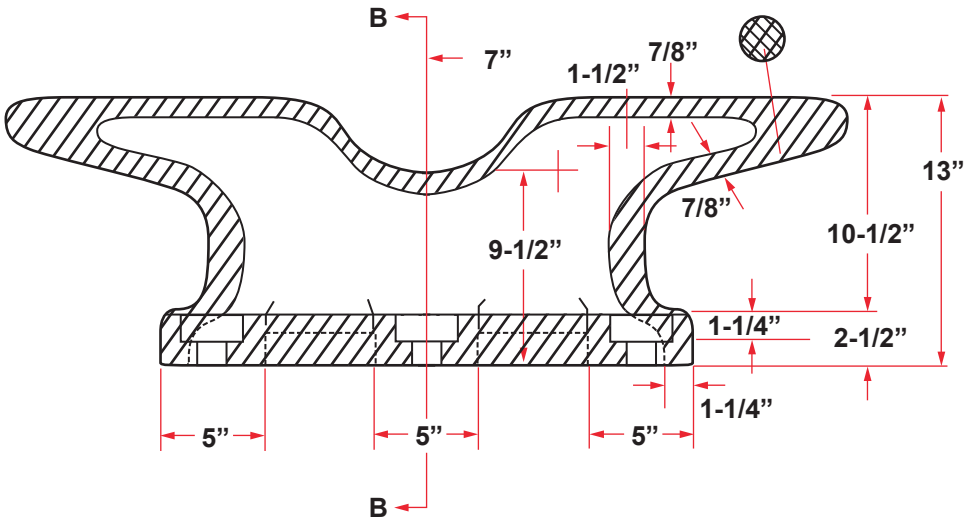




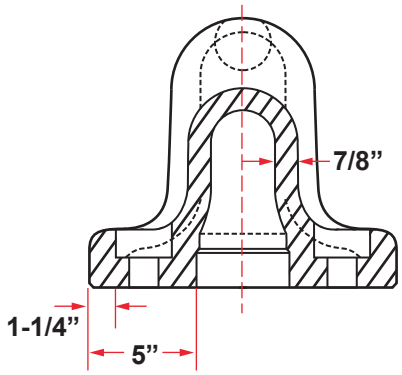
1-1/2” Ø CORE FOR
1-1/4” Ø BOLT

10 TON CLEAT AMC - 10

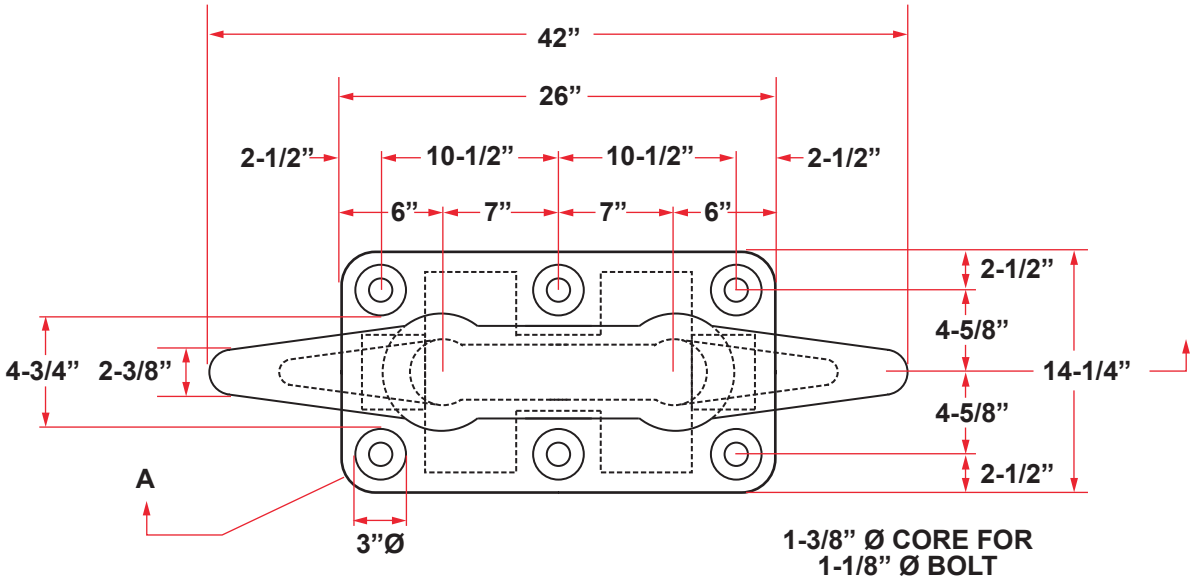
DOCK



SECTION A-A



SECTION B-B

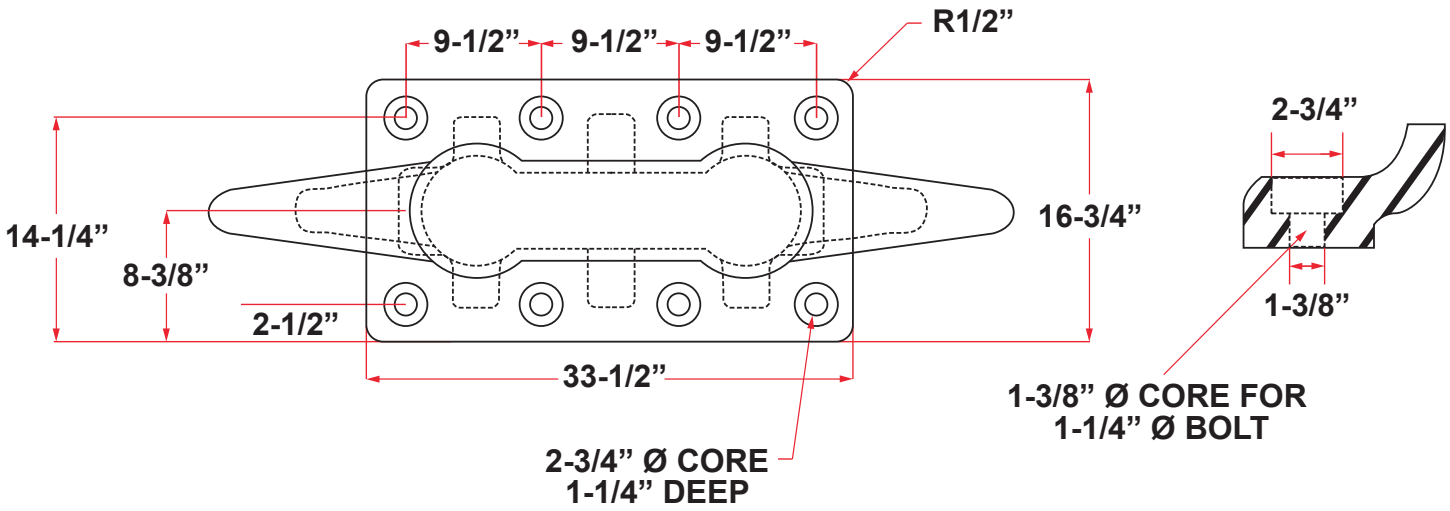


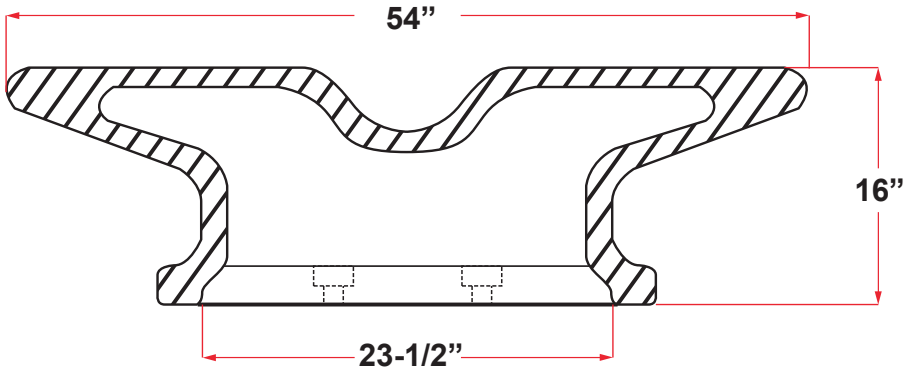
20 TON CLEAT AMC - 20

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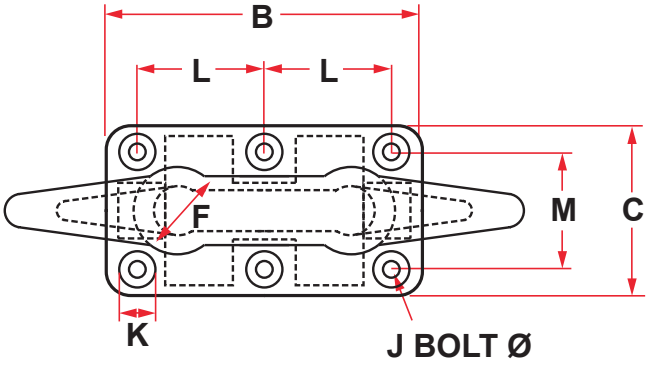

9-1/2”
9-1/2”
9-1/2”
R1/2”
14-1/4”
8-3/8”
2-1/2”
16-3/4”
33-1/2”
2-3/4” Ø CORE
1-1/4” DEEP
2-3/4”
1-3/8”
1-3/8” Ø CORE FOR
1-1/4” Ø BOLT

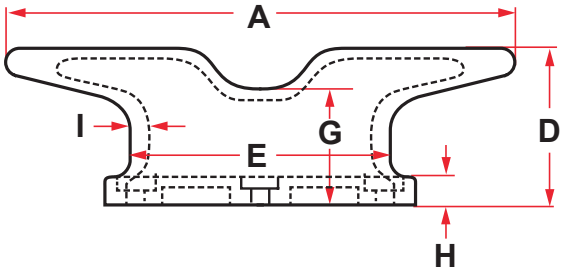

54”
16”
23-1/2”

AMC-H-54

DOCK

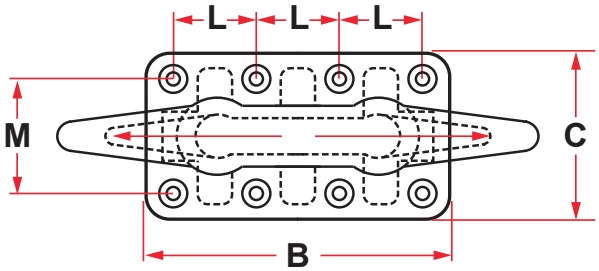
AMC-6 BOLT CLEAT

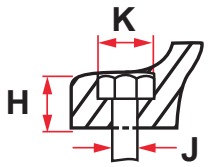


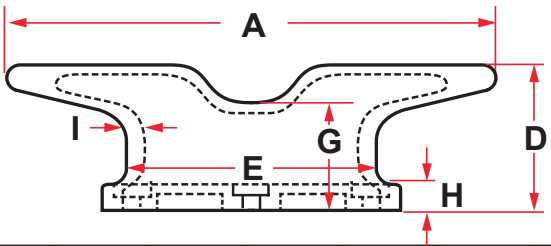


DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	I	J	K	L	M
AMC-H	16	10-1/2	7-1/2	5	8	2-3/4	3-3/4	1-1/2	7/8	3/4	1-3/4	3-3/4	4-1/2
AMC-H	24	15-1/2	9-1/2	7-1/4	12	4	5-1/4	1-3/4	1-1/8	7/8	2	6	6
AMC-H	30	19	11-1/4	8-7/8	15	5	6-3/8	2	1-1/4	1	2-1/4	7-1/2	7-1/4

AMC-8 BOLT CLEAT

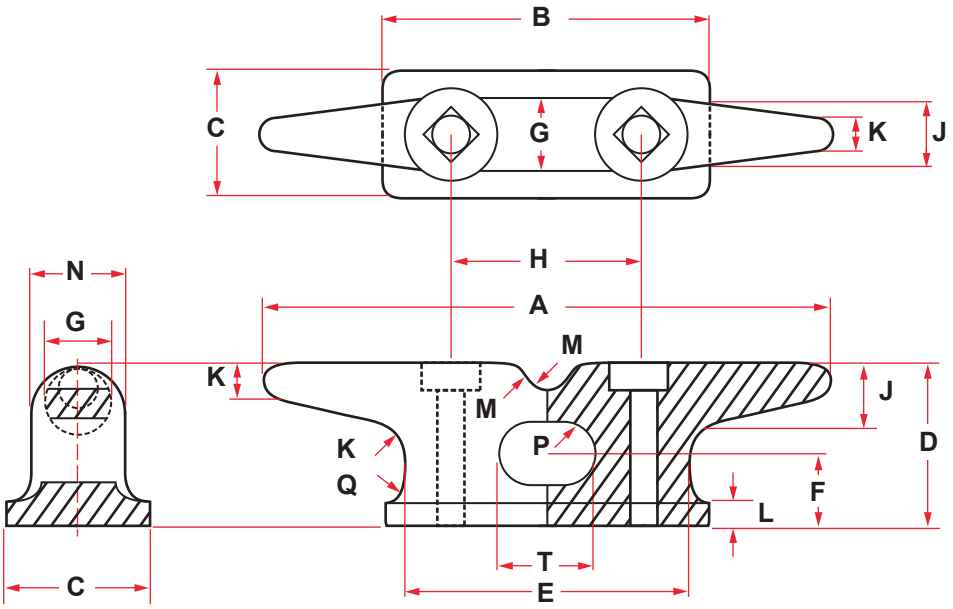




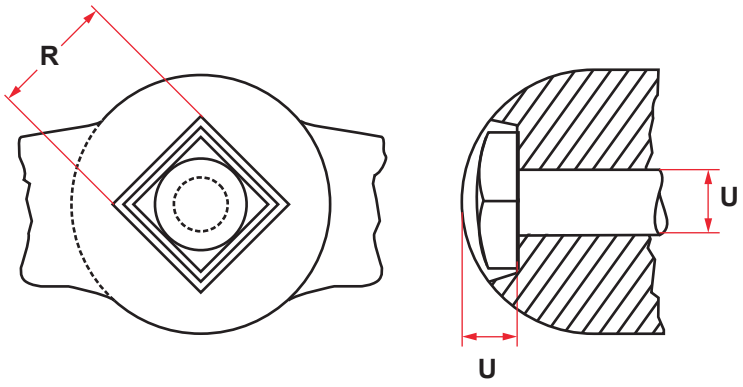


DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	I	J	K	L	M
AMC-H	36	22-1/2	12-1/4	10-1/2	18	6	7-1/2	2	1-3/8	1	2-1/4	6-1/4	8-1/4
AMC-H	42	26	14-1/4	13	21	7	8-5/8	2	1-1/2	1	2-1/4	7-1/2	9-1/4
AMC-H	48	29-3/4	15-1/8	13-3/4	24	8	9-3/4	2-1/4	1-5/8	1-1/8	2-5/8	8-1/2	10-5/8

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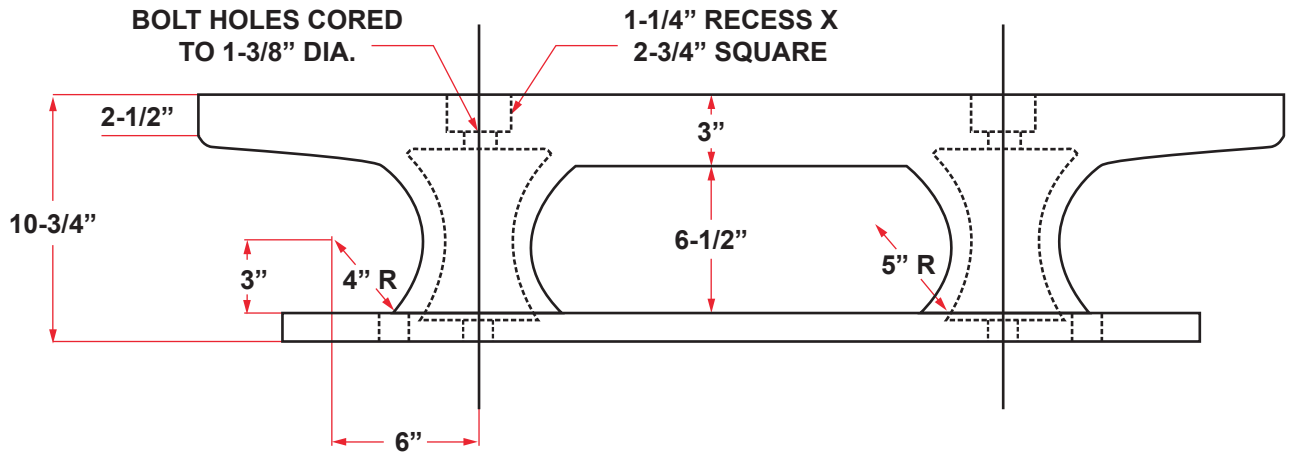


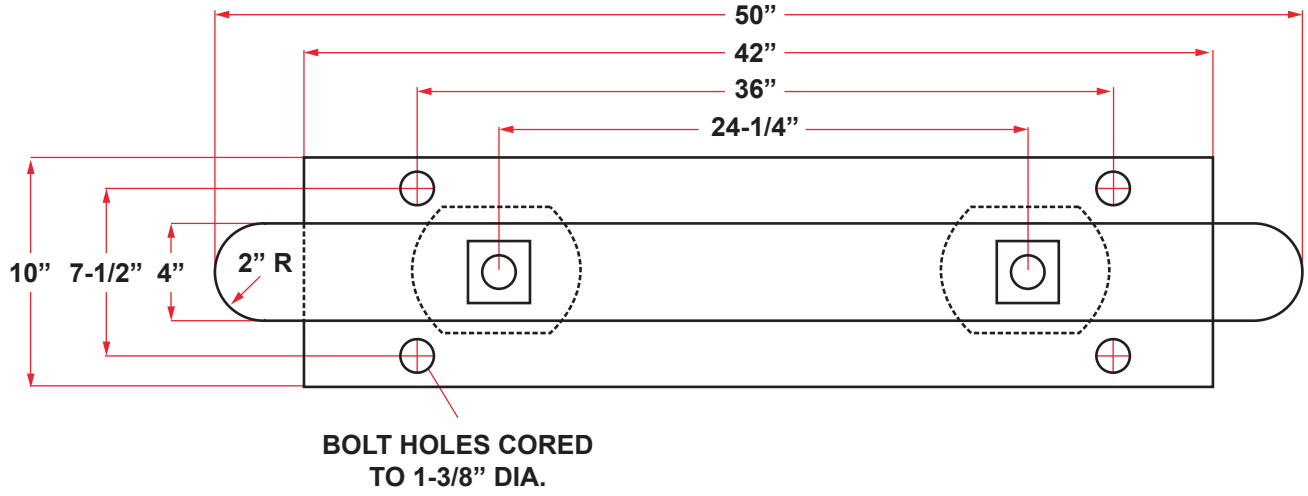
DIMENSIONS (INCHES)																	
A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	T	U
16	9-1/2	3-5/8	4-1/8	8	1-1/2	2	5-1/4	1-3/4	7/8	5/8	3/4	2-3/4	1/2	7/16	1-3/8	2-1/2	3/4
20	11	4-1/2	5-3/8	10	2	2-1/2	6-5/8	2-1/4	1-1/8	3/4	7/8	3-3/8	3/4	9/16	1-9/16	3-1/4	7/8
24	13-1/2	5-3/8	6-3/8	12	2-1/2	3	8	2-3/4	1-3/8	7/8	1	4	1	11/16	1-3/4	4	1
27	15	6	7-3/8	13-1/2	3	3-3/8	9	3-1/8	1-9/16	1	1-1/8	4-1/2	1-1/4	13/16	1-15/16	4-1/2	1-1/8
30	17	6-3/4	8	15	3-1/2	3-3/4	10	3-1/2	1-3/4	1-1/8	1-1/4	5	1-1/2	7/8	2-1/8	5	1-1/4
33	19	7-3/8	9	16-1/2	4	4-7/8	11	3-3/4	1-7/8	1-1/4	1-3/8	5-1/2	1-3/4	15/16	2-3/8	5-1/2	1-3/8
36	21	8	9-7/8	18	4-1/2	4-1/2	12	4	2	1-3/8	1-1/2	6	2	1	2-5/8	6	1-1/2
42	24	9-3/8	11-5/8	21	5	5-1/4	14	4-3/4	2-3/8	1-1/2	1-3/4	7	2-1/4	1-3/16	2-7/8	7	1-3/4
48	27	10-3/4	13-1/8	24	5-1/2	6	16	5-1/2	2-3/4	1-5/8	2	8	2-1/2	1-3/8	3-3/8	8	2
54	30	12	14-3/4	27	6	6-3/4	18	6	3	1-3/4	2-1/4	9	2-3/4	1-1/2	3-3/4	9	2-1/4



CLEAT AMC - 216 - 254

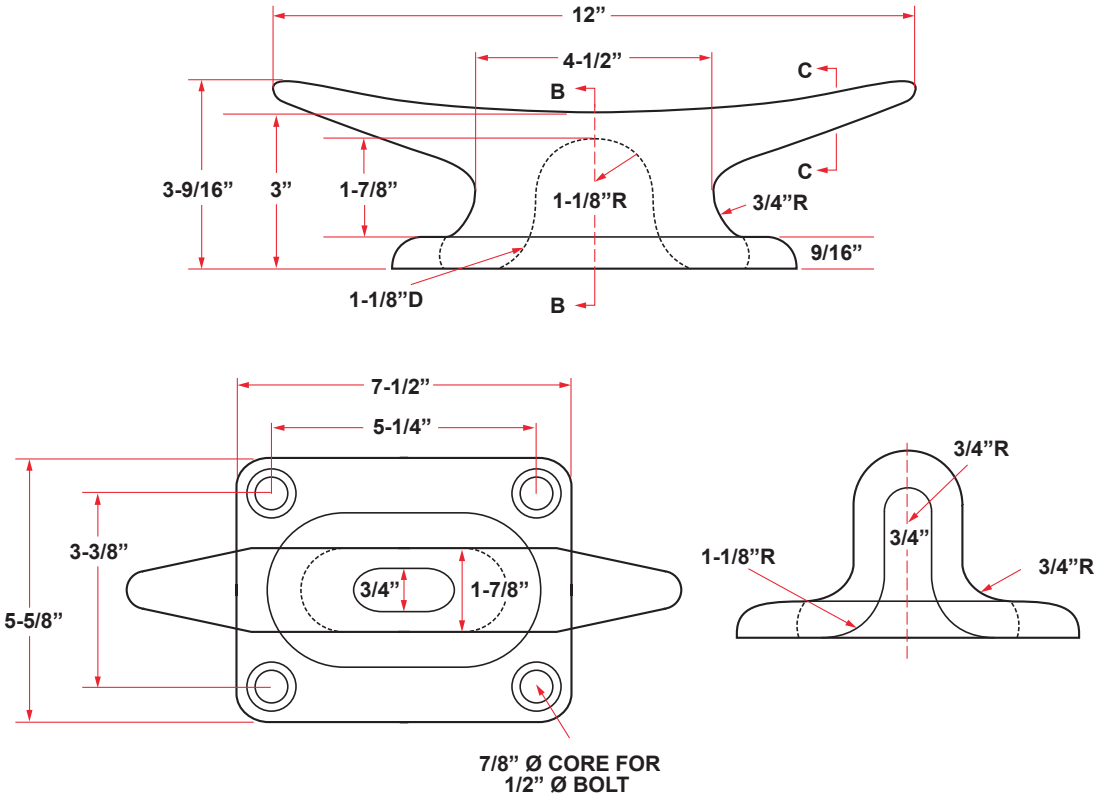
DOCK

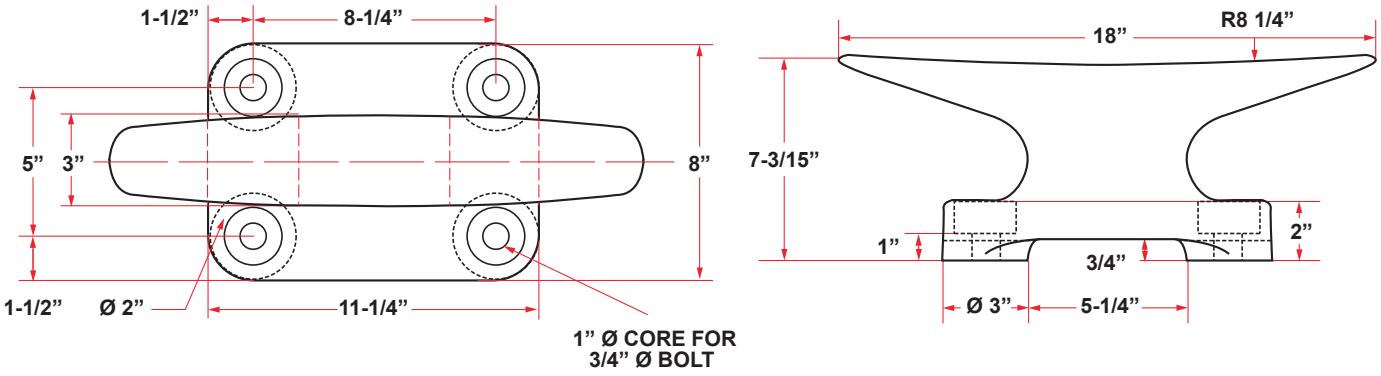




AMC-50 CLEAT

12" STD. NAVY CLEAT DETAIL





AMC-18 CLEAT

OPEN BASE CLEAT - FLAT HEAD

HOT DIPPED GALVANIZED IRON



DIMENSIONS (INCHES)			LBS.
CLEAT SIZE		HOLE SPACING	
LENGTH	HEIGHT	SPACING	WEIGHT
3-1/2	1	15/16	0.14
3-1/2	1	15/16	0.28
4	1-1/8	7/8	0.23
4	1-1/8	7/8	0.46
5	1-5/16	1-1/16	0.31
5	1-5/16	1-1/16	0.62
6	1-7/16	1-1/4	0.45
6	1-7/16	1-1/4	0.90
8	2-1/8	1-11/16	1.51
10	2-1/2	2-3/8	2.13
12	2-7/8	3-3/8	3.64
14	3-1/2	4-1/4	6.03

OPEN BASE CLEAT - HEX HEAD

HOT DIPPED GALVANIZED IRON



DIMENSIONS (INCHES)			LBS.
CLEAT SIZE		HOLE SPACING	
LENGTH	HEIGHT	SPACING	WEIGHT
8	2-1/8	1-11/16	1.51
10	2-1/2	2-3/8	2.13
12	2-7/8	3-3/8	3.64
14	3-1/2	4-1/4	6.03

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DOCK CLEAT - RECESSED

HOT DIPPED GALVANIZED IRON

DIMENSIONS (INCHES)			LBS.
CLEAT SIZE		HOLE SPACING	
LENGTH	HEIGHT	SPACING	WEIGHT
15	4-1/4	3-5/8	16.24



DOCK CLEAT - HEX HEAD

HOT DIPPED GALVANIZED IRON

DIMENSIONS (INCHES)			LBS.
CLEAT SIZE		HOLE SPACING	
LENGTH	HEIGHT	SPACING	WEIGHT
8	2-3/4	2	3.04
10	3-1/2	2-1/2	6.21
12	3-3/4	3-7/16	10.85
15	4-1/2	3-1/2	12.93
18	5	3-7/8	21.28
24	5-5/8	6-5/16	32.97



DOCK CLEAT - FLAT HEAD

HOT DIPPED GALVANIZED IRON

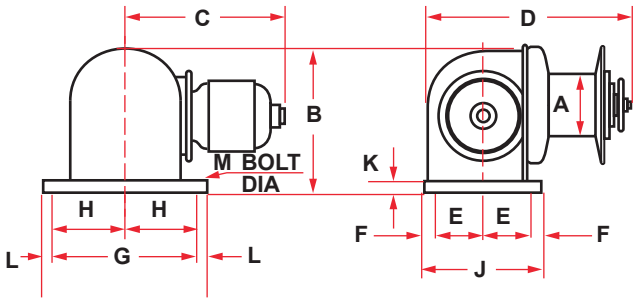
DIMENSIONS (INCHES)			LBS.
CLEAT SIZE		HOLE SPACING	
LENGTH	HEIGHT	SPACING	WEIGHT
8	2-3/4	2	3.04
10	3-1/2	2-1/2	6.21
12	3-3/4	3-7/16	10.85
15	4-1/2	3-1/2	12.93
18	5	3-7/8	21.28
24	5-5/8	6-5/16	32.97



DOCK

The roper is attached to the drum which eliminates the need for snubbing and reduces handling of the rope. Up to 500 feet of rope can be stored on the drum when properly wound. Both the 14-H and 16-H models feature a heavy-duty hand wheel clutch which releases the drum to pay out stored rope and engages to pull without manual rope tension.

High starting torque TENV motors are standard equipment. Optional equipment includes ratchet holdbacks, special motors and fluid coupling motor.



Note: Used certified drawings for installation.

MODEL	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	M
14-H	12	28	27	39-1/4	9	2	31	13-1/2	22	2-1/2	2	1-1/2
16-H	12	28	29	39-1/4	9	2	31	13-1/2	22	2-1/2	2	1-1/2

SPECIFICATIONS

MODEL	MOTOR HORSE POWER	ROPE SPEED (F.P.M.)	PULLING CAPACTIY (LBS.) RUNNING ROPE PULL LAYER			STARTING PULL, 1ST LAYER	WIRE ROPE SIZE (IN.)	DRUM CAPACITY (FT.)	WEIGHT (LBS.)
			1	6	8				
14-H	10	45	5000	—	3730	10000	5/8	500	1800
16-H	15	56	7800	4730	—	15600	3/4	400	2000

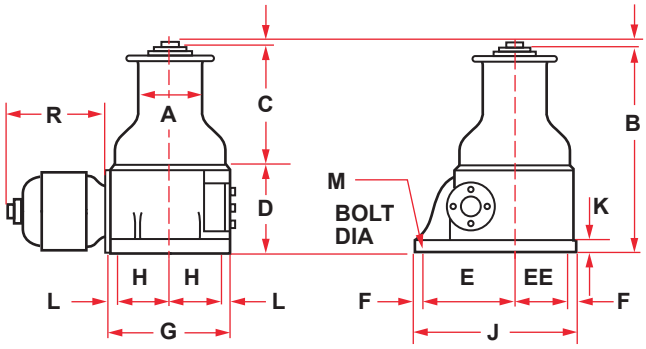
Designed for spotting rail cars, and adaptable to many moving jobs requiring one-direction pulling. Operator attaches hook to car and manually snubs rope on capstan with sufficient tension for proper operating pull. Pulling distance is only limited by the operator's strength in handling the rope. Both models are equipped with high starting torque TENV motors. Optional equipment includes special motors and a ratchet holdback.

Note: Puller should not be used to stop cars from coasting.

MODEL	DIMENSIONS (INCHES)													
	A	B	C	D	E	EE	F	G	H	J	K	L	M	R
11-V	12	25-3/4	13-1/4	12-1/2	10-7/8	7	1-1/2	13-1/2	4-7/8	2-1/2	2	1-15/16	1-3/4	19
12-V	12	34-1/4	18-1/4	16	16-3/4	9	2	22	9	2-1/2	2-1/2	2	1-1/2	21

SPECIFICATIONS

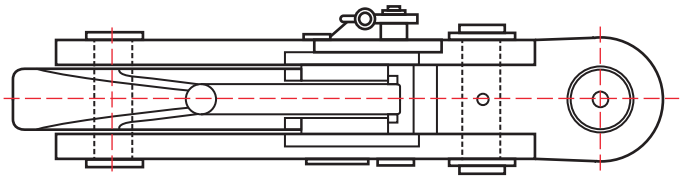
MODEL	PULLING CAPACITY AT 45 F.P.M. (LBS.)		CAPSTAN R.P.M	MOTOR HORSE POWER	MANILLA ROPE SIZE (INCHES)	WEIGHT (LBS.)
	STARTING	RUNNING				
14-H	5000	2500	23	5	1-1/2	620
16-H	10000	5000	13	10	2	1680

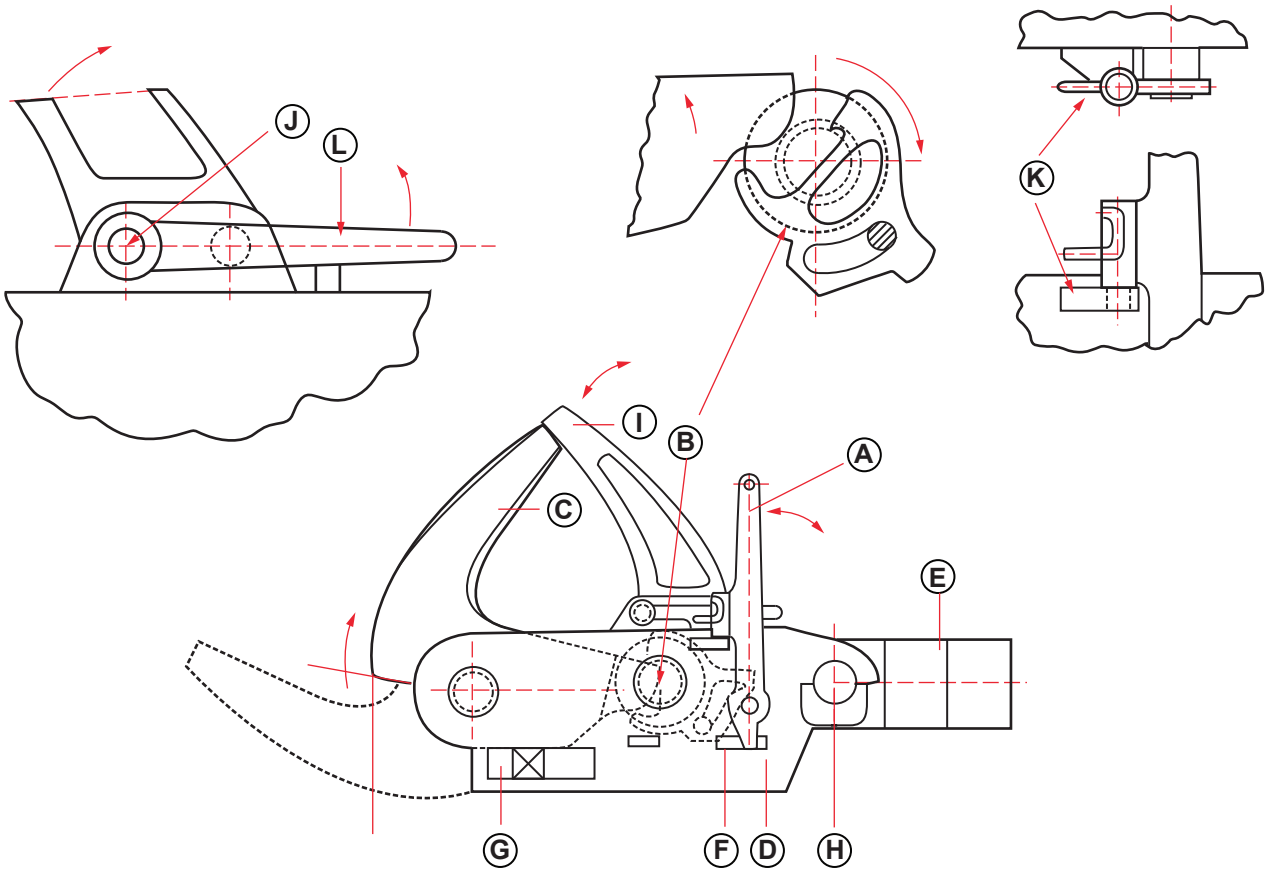


Note: Used certified drawings for installation.

CAR PULLERS / CAPSTANS

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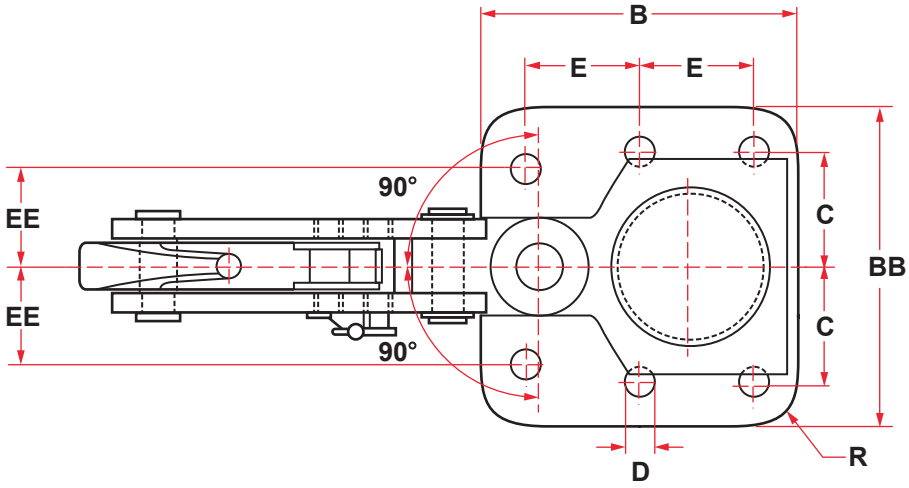




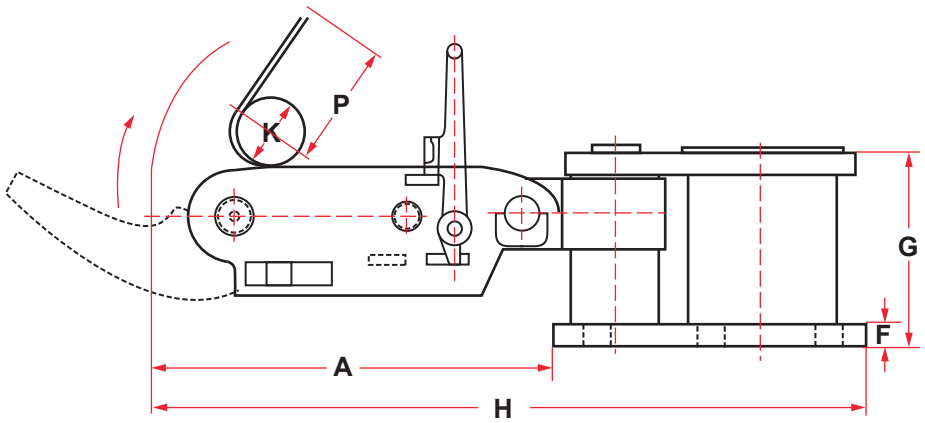
QUICK RELEASE TOWING HOOK

A	Release lever for manual operation
B	Rotating intermediate part for locking or tripping of the hook
C	Hook
D	Side plate
E	Connection swivel
F	Return spring for integral locking pawl
G	Hook stopper
H	Horizontal swivel pin
I	Keeper
J	Locking pin keeper
K	Safe locking device
L	Locking lever for keeper

DOCK



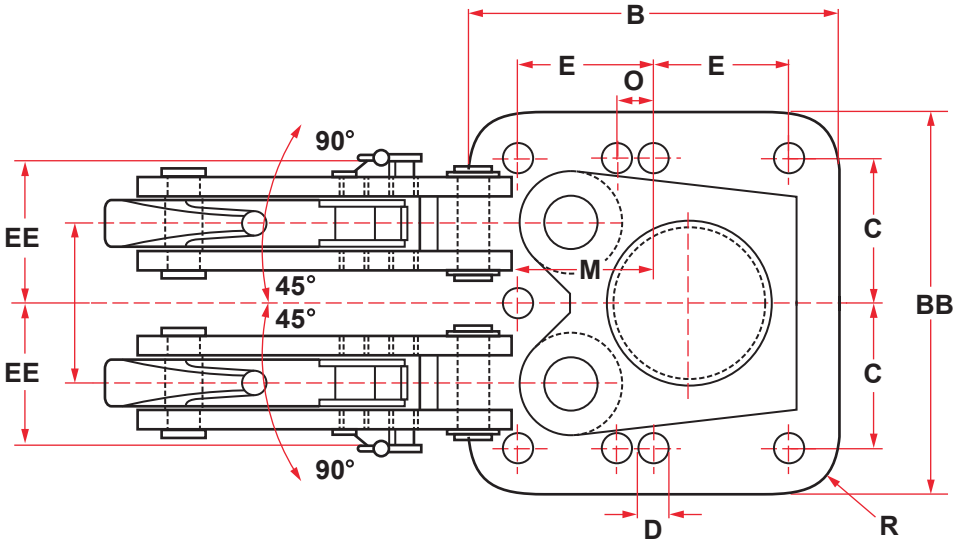
EXPLANATION:
Cap. = Capacity mounting base in kN
Wt. = Weight in kilograms
X = Number and size of HD Bolts

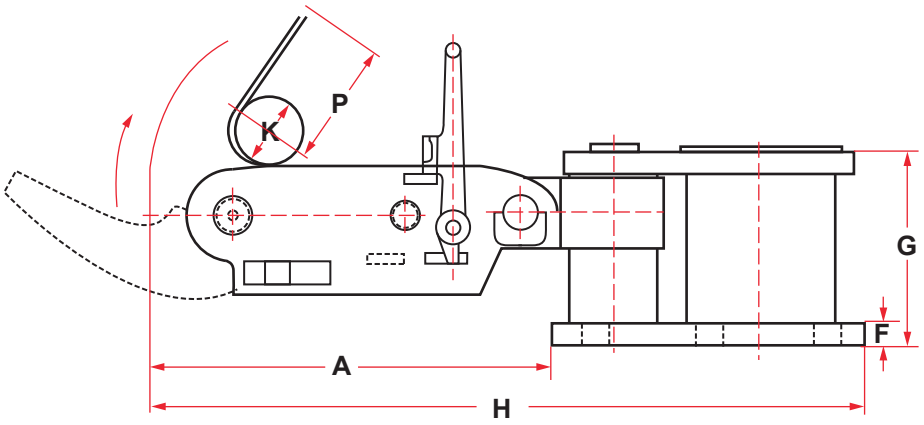


SINGLE HOOK ASSEMBLY

DIMENSIONS (MILLIMETERS)																
SIZE	CAP.	WT.	A	B	BB	C	D	E	EE	F	G	H	K	P	R	X
60	600	485	925	650	650	235	54	235	200	45	402	1465	150	250	90	6 x M 48
75	750	580	925	650	650	225	62	225	200	45	417	1515	150	250	100	6 x M 56
100	1000	795	1015	700	650	225	62	250	200	50	437	1645	150	275	100	6 x M 56
125	1250	825	1015	700	650	225	70	250	200	55	447	1645	150	275	100	6 x M 64
150	1500	1210	1260	700	650	225	78	250	195	55	490	1760	150	300	100	6 x M 72
200	2000	1550	1290	700	650	225	78	250	195	65	562	1760	150	300	100	6 x M 72

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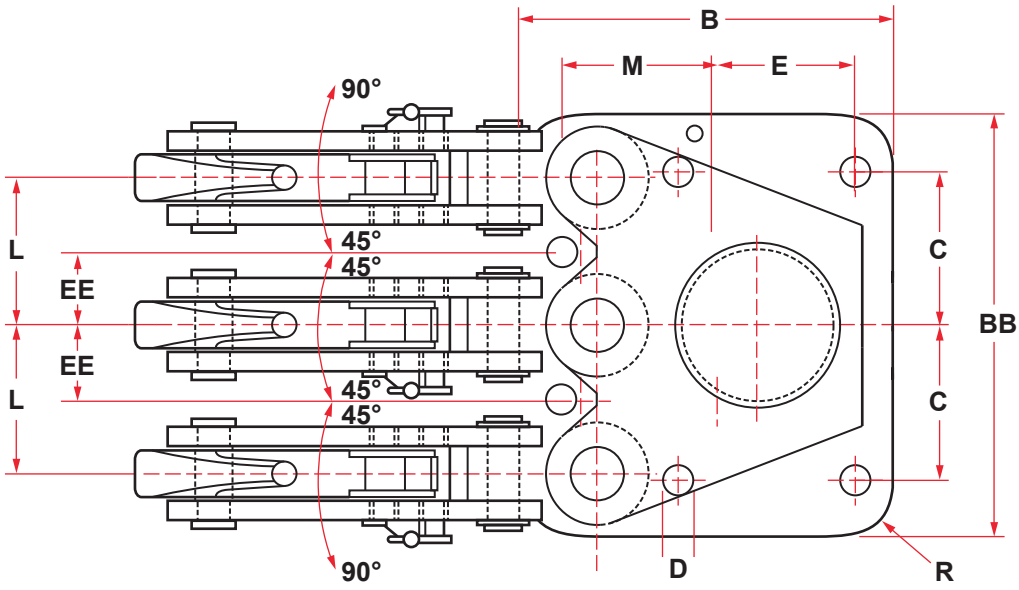


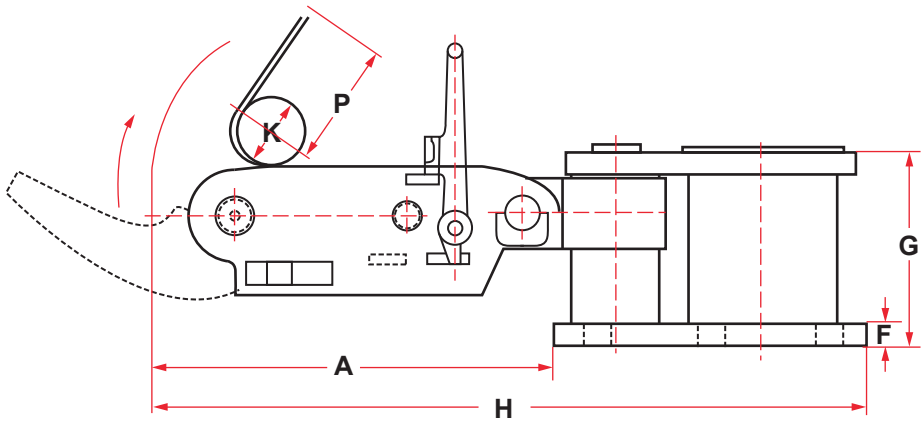
EXPLANATION:
Cap. = Capacity mounting base in kN
Wt. = Weight in kilograms
X = Number and size of HD Bolts

DIMENSIONS (MILLIMETERS)																			
SIZE	CAP.	WT.	A	B	BB	C	D	E	EE	F	G	H	K	L	M	O	P	R	X
60	1200	850	850	750	780	290	62	275	290	45	402	1600	150	330			250	100	6 x M 56
75	1500	1040	900	750	850	325	70	275	325	45	417	1650	150	350		55	250	100	6 x M 64
100	2000	1450	980	750	925	363	78	275	363	50	437	1730	150	375		75	275	100	6 x M 72
125	2500	1500	980	750	925	363	86	275	363	55	447	1730	150	375		75	275	100	6 x M 80
150	3000	2360	1220	750	1000	400	78	275	400	55	490	1970	150	425	275	50	300	100	7 x M 72
200	4000	3000	1200	850	1000	380	96	305	380	65	562	2050	150	425	250	30	300	120	7 x M 90

DOUBLE HOOK ASSEMBLY

DOCK



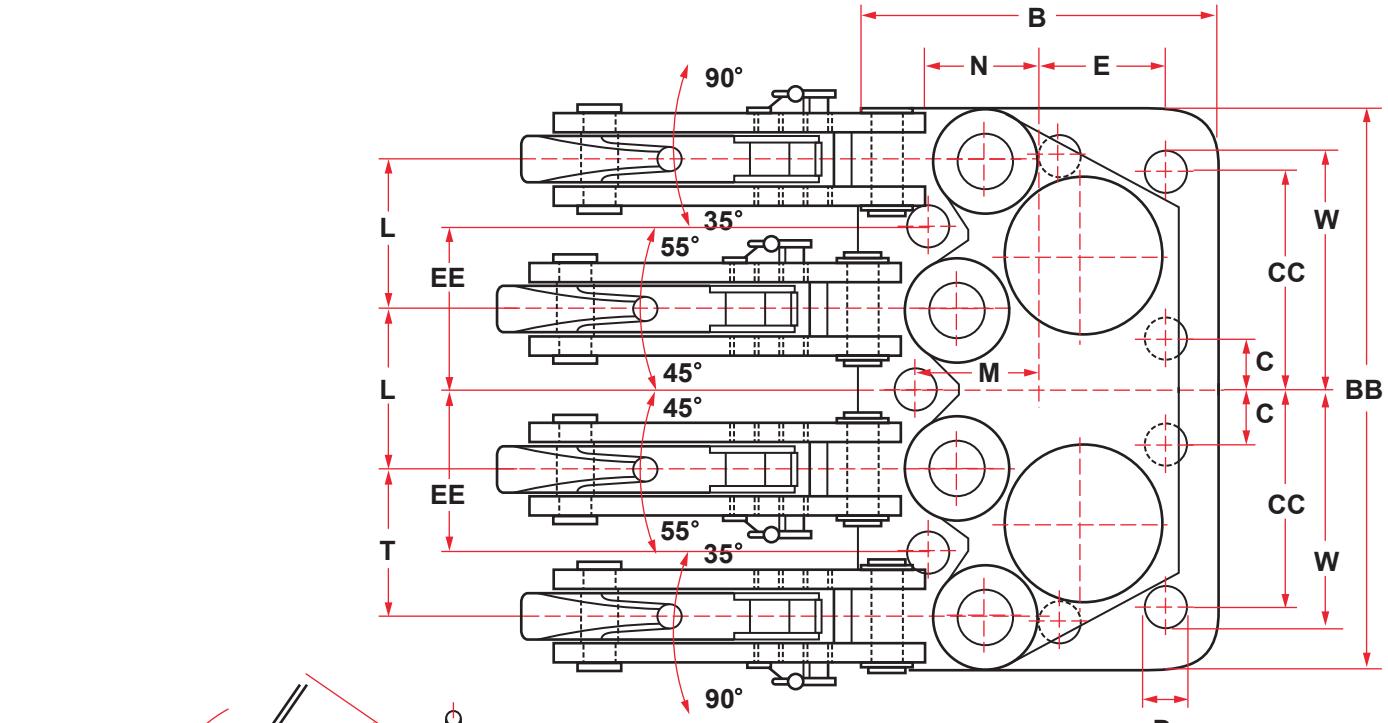


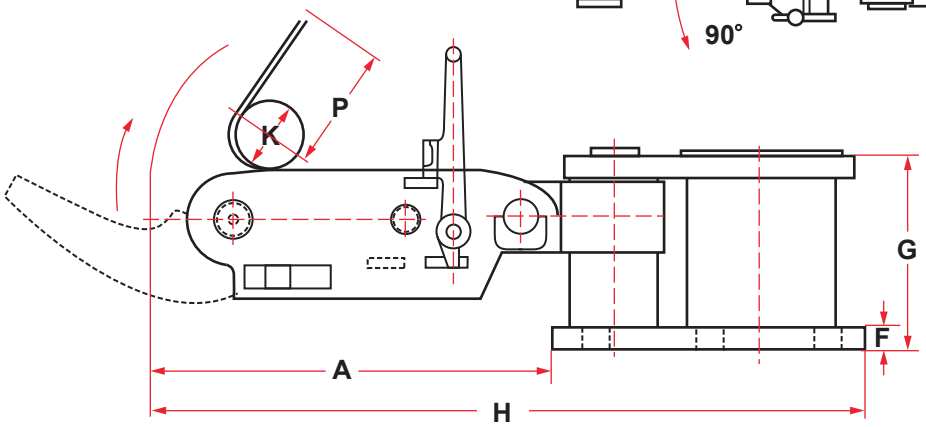
EXPLANATION:
Cap. = Capacity mounting base in kN
Wt. = Weight in kilograms
X = Number and size of HD Bolts

DIMENSIONS (MILLIMETERS)																			
SIZE	CAP.	WT.	A	B	BB	C	D	E	EE	F	G	H	K	L	M	O	P	R	X
60	1800	1275	890	800	900	335	70	310	162	45	402	1690	150	325	310	65	250	100	6 x M 64
75	2250	1580	895	850	1000	375	78	325	175	45	417	1745	150	350	325	60	250	100	6 x M 72
100	3000	2165	980	900	1060	400	78	350	190	50	437	1880	150	380	322	55	275	100	7 x M 72
125	3750	2245	980	900	1060	400	86	350	190	55	447	1880	150	380	322	55	275	100	7 x M 80
150	4500	3530	1240	1020	1200	475	96	385	212	55	490	2260	150	425	385	115	300	125	7 x M 90
200	6000	4550	1240	1020	1220	475	106	400	212	65	562	2310	150	425	400	95	300	135	7 x M 100

TRIPLE HOOK ASSEMBLY

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EXPLANATION:
Cap. = Capacity mounting base in kN
Wt. = Weight in kilograms
X = Number and size of HD Bolts

DIMENSIONS (MILLIMETERS)

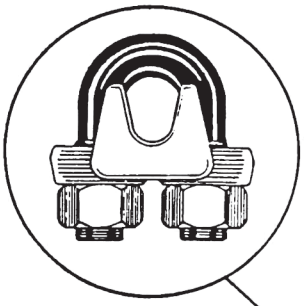
SIZE	CAP.	WT.	A	B	BB	C	CC	D	E	EE	F	G	H	K	L	M	N	O	P
60	2400	1660	815	750	1185	115	445	78	275	330	45	402	1565	150	325	255	230		55
75	3000	2040	830	800	1300	150	505	86	290	355	45	417	1630	150	350	280	265		50
100	4000	2820	875	850	1365	125	520	96	300	395	50	437	1725	150	376	295	265		60
125	5000	2920	875	850	1365	125	520	96	300	395	55	447	1725	150	376	295	265		60
150	6000	4540	1120	925	1570	170	605	86	325	435	55	490	2045	150	426	325	280	60	80
200	8000	5900	1145	1000	1700	170	615	106	350	445	65	562	2145	150	426	350	305	50	80

R	T	W	Z	X
100	320		55	7 x M 72
110	340		50	7 x M 80
125	362		60	7 x M 80
125	362		60	7 x M 90
135	415	655	80	9 x M 80
150	415	700	80	9 x M 100

QUADRUPLE HOOK ASSEMBLY

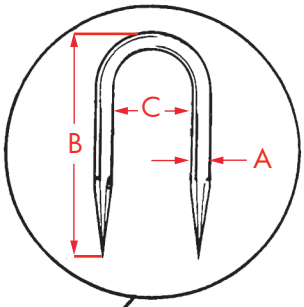
DOCK

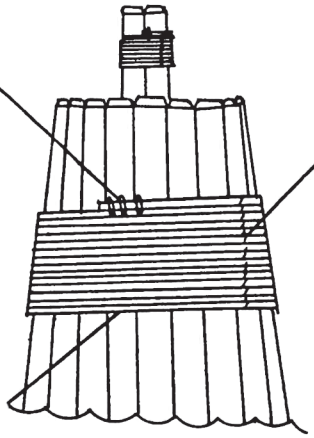
WIRE ROPE CLIPS



HOT DIPPED GALVANIZED

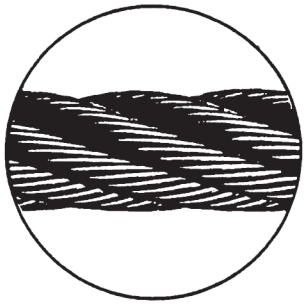
WIRE ROPE STAPLES

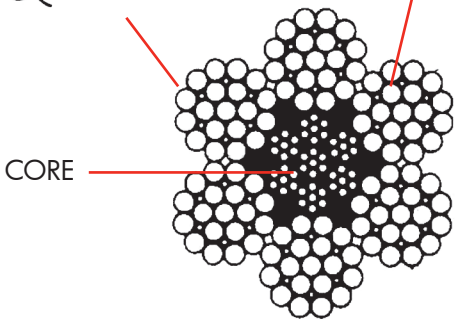




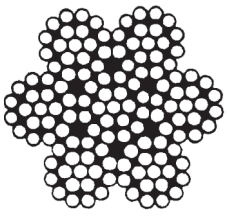
DIMENSIONS (INCHES)		
A	B	C
3/8	4	1-1/4
3/8	5	1-1/4

WIRE ROPE

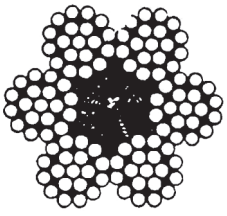




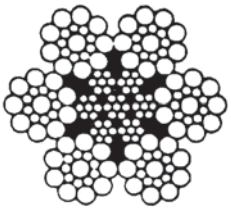
TYPICAL WIRE ROPE CONSTRUCTION



TYPICAL STRAND CORE (SC)



TYPICAL FIBER CORE (FC)



TYPICAL INDEPENDENT WIRE ROPE CORE (IWRC)

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ASTM STANDARDS

A27	Steel Casting, Carbon, For General Application Standard Specification for Cast Steel Bollards and Cleats
A36	Structural Steel
A47	Malleable Iron Castings
A53	Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless
A120	Pipe, Steel, Black and Hot-Dipped, Zinc-Coated (Galvanized) Welded and Seamless, for Ordinary Uses
A123	Zinc (Hot Dipped Galvanized) Coatings on Products Fabricated from Rolled, Pressed, & Forged Steel Shapes, Plates, Bars & Strip
A153	Zinc Coating (Hot Dipped Galvanized) on Iron and Steel Hardware
A164	Electrodeposited Coatings of Zinc on Steel Bolting Materials for High-Temperature Service
A165	Electrodeposited Coatings of Cadmium on Steel
A193	Alloy-Steel and Stainless Steel Bolting Materials for High-Temperature Service
A194	Carbon and Alloy Steel Nuts for Bolts for High-Pressure and High-Temperature Service
A240	Heat-Resisting Chronium and Chromium-Nickel, Stainless Steel Plate, Sheet and Strip for Fusion Welded Unfired Pressure Vessels
A242	High-Strength Low-Alloy Structural Steel
A307	Carbon Steel Externally Threaded Standard Fasteners
A325	High-Strength Bolts for Structural Steel Joints
A328	Steel Sheet Piling
A354	Quenched and Tempered Alloy Steel Bolts, Studs, and Other Externally Threaded Fasteners
A394	Galvanized Steel Transmission Tower Bolts
A441	High-Strenght Low-Alloy Structural Managanese Vandium Steel
A449	Quenched and Tempered Steel Bolts and Studs
A479	Stainless and Heat Resisting Steel Wire, Bars and Shapes for use in Boilers and Other Pressure Vessels
A489	Carbon Steel Eyebolts
A490	Quenched and Tempered Alloy Steel Bolts for Structural Steel Joints
A563	Carbon and Alloy Steel Nuts
A572	High-Strength Low-Alloy Columbium-Vandium Steel of Structural Quality
A588	High-Strength Low-Alloy Structural Steel with 50,000 psi Mimumum Yield point to 4 in. Thick
A668	Steel Forgings, Carbon and Alloy, For General Industrial Use
A690	High-Strength Low-Alloy Steel H-Piles and Sheet Piling for Use in Marine Environments
A722	Uncoated High-Strength Steel Bar for Prestressing Concrete
F844	Washers, Steel, Plain (Flat), Unhardened for General Use

FASTENER IDENTIFICATION MARKINGS

TABLE 2. GRADE IDENTIFICATION MARKINGS FOR POPULAR GRADES OF CARBON STEEL EXTERNALLY THREADED FASTENERS

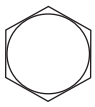
GRADE IDENTIFICATION MARKING	SPECIFICATION	MATERIAL	NOMINAL SIZE (INCHES)	PROOF LOAD STRESS (KSI)	TENSILE STRENGTH MIN (KSI)	HARDNESS ROCKWELL		SEE NOTE
						MIN	MAX	
 NO MARK	SAE J429 - Grade 1	Low or Medium Carbon Steel	1/4 thru 1-1/2	33	60	B70	B100	—
	SAE J429 - Grade 2		1/4 thru 3/4 over 3/4 thru 1-1/2	55 33	74 60	B80 B70	B100 B100	—
 307A	ASTM A307 - Grade A		1/4 thru 4	—	60	B69	B100	—
 307B	ASTM A307 - Grade B		1/4 thru 4	— —	60 min 100 max	B69	B95	—
 NO MARK	SAE J429 - Grade 5	Medium Carbon Steel, Quenched and Tempered	1/4 thru 1 over 1 thru 1-1/2	85 74	120 105	C25 C19	C34 C30	—
 A449	ASTM A449 - Type 1		over 1-1/2 thru 3	55	90	183	235	3
 A325	ASTM A325 - Type 1		1/2 thru 1 over 1 to 1-1/2	85 74	120 105	C24 C19	C35 C31	5
 A325	ASTM A325 - Type 3	Atmospheric Corrosion Resistant Steel, Quenched and Tempered						6

Table 2 Continued on page 222

NOTES:

1. In addition to the indicated grade marking, all grades included in this table must be marked for manufacturer identification.
2. While hex heads are shown, grade markings apply equally to products with other head configurations.
3. Hardnesses are Brinell Hardness Numbers.
4. Grade 5.1 is a popular grade for SEMS.
5. A325 Type 1 bolts may also be marked with 3 radial lines 120'' apart in addition to the A325 marking.
6. The bolt manufacturer, at his option, may add other markings to indicate the use of atmospheric corrosion resistant steel.
7. ASTM A354 Grade BD may have optionally six radial lines.

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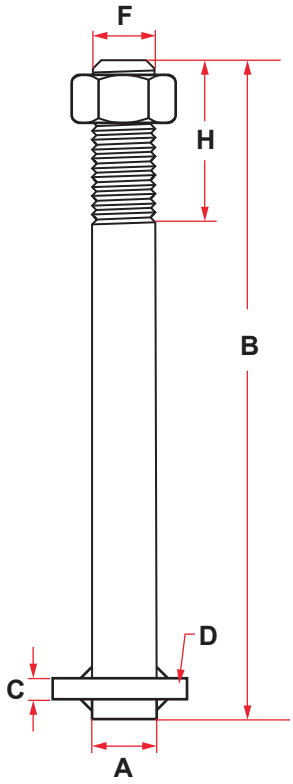
FASTENER IDENTIFICATION MARKINGS

TABLE 2. GRADE IDENTIFICATION MARKINGS FOR POPULAR GRADES OF CARBON STEEL EXTERNALLY THREADED FASTENERS (CONTINUED)

GRADE IDENTIFICATION MARKING	SPECIFICATION	MATERIAL	NOMINAL SIZE (INCHES)	PROOF LOAD STRESS (KSI)	TENSILE STRENGTH MIN (KSI)	HARDNESS ROCKWELL		SEE NOTE
						MIN	MAX	
	ASTM A354 - Grade BC	Medium Carbon Alloy Steel, Quenched and Tempered	1/4 thru 2-1/2 over 2-1/2 thru 4	105 95	125 115	C26 C22	C36 C33	—
	SAE J429 - Grade 8		1/4 thru 1-1/2	120	150	C33	C39	—
	ASTM A354 - Grade BD		1/4 thru 2-1/2 over 2-1/2 thru 4	120 105	150 140	C33 C31	C39 C39	7
	SAE J429 - Grade 8.2	Low Carbon Martensite Steel, Quenched and Tempered	1/4 thru 1	120	150	C33	C39	—
	ASTM A490 - Type 1	Medium Carbon Alloy Steel, Quenched and Tempered	1/2 thru 1-1/2	120	150 min 170 max	C33	C38	—
	ASTM A490 - Type 3	Atmospheric Corrosion Resistant Steel, Quenched and Tempered	1/2 thru 1-1/2	120	150 min 170 max	C33	C38	6
See Notes 1, 2	8							

8. Specifications —
SAE J429 — Mechanical and Material Requirements for Externally Threaded Fasteners
ASTM A307 — Carbon Steel Externally Threaded Standard Fasterners
ASTM A449 — Quenched and Tempered Steel Bolts and Studs
ASTM A325 — High Strength Bolts for Structural Steel Joints
ASTM A354 — Quenched and Tempered Alloy Steel Bolts, Studs, and Other Externally Threaded Fasteners
ASTM A490 — Heat Treated Steel Structural Bolts, 150 ksi Minimum Tensile Strength

DOCK

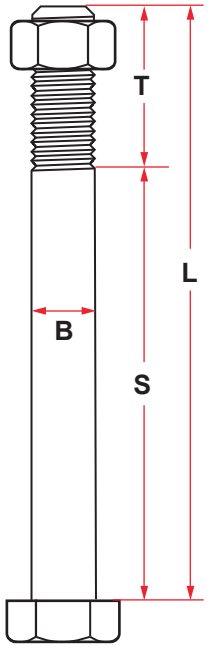


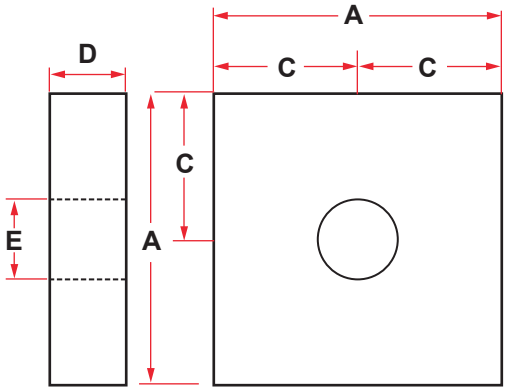
ANCHOR BOLT - TYPE X

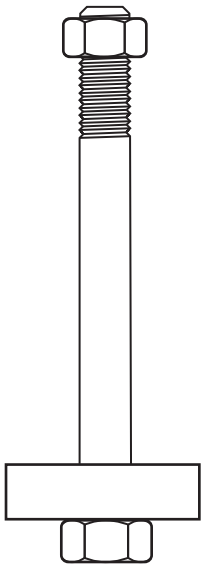
DIMENSIONS (INCHES)	
A =	D =
B =	F =
C =	H =

MATERIAL: SPECIFY

FINISH: SPECIFY







ANCHOR BOLT - TYPE II

DIMENSIONS (INCHES)	
A =	E =
B =	T =
C =	L =
D =	S =

MATERIAL: SPECIFY

FINISH: SPECIFY

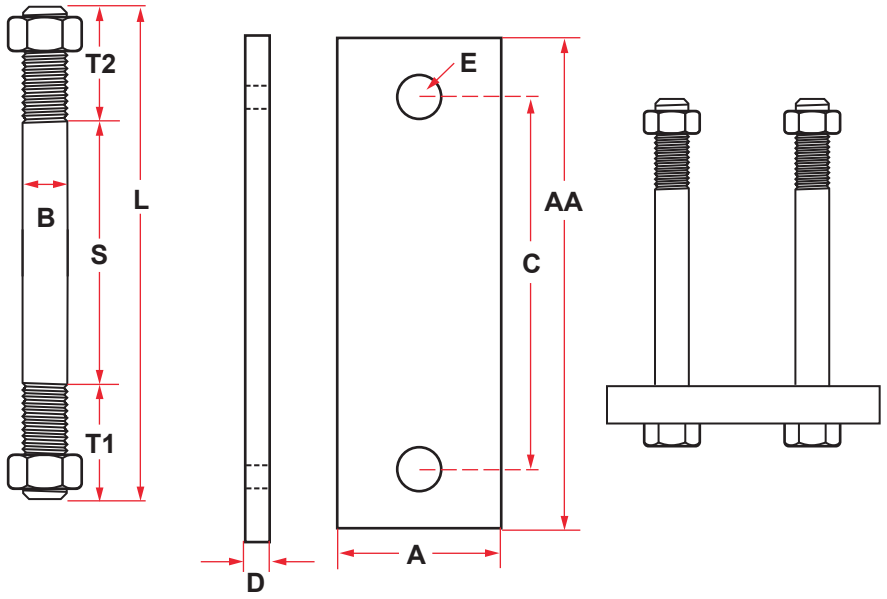
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ANCHOR BOLT - TYPE III

DIMENSIONS (INCHES)	
A =	E =
AA =	T1 =
B =	T2 =
C =	L =
D =	S =

MATERIAL: SPECIFY

FINISH: SPECIFY

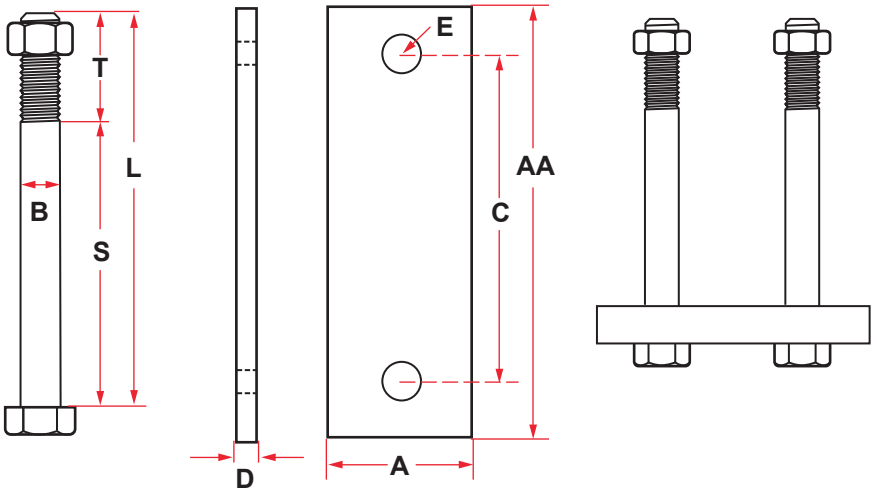


ANCHOR BOLT - TYPE IV

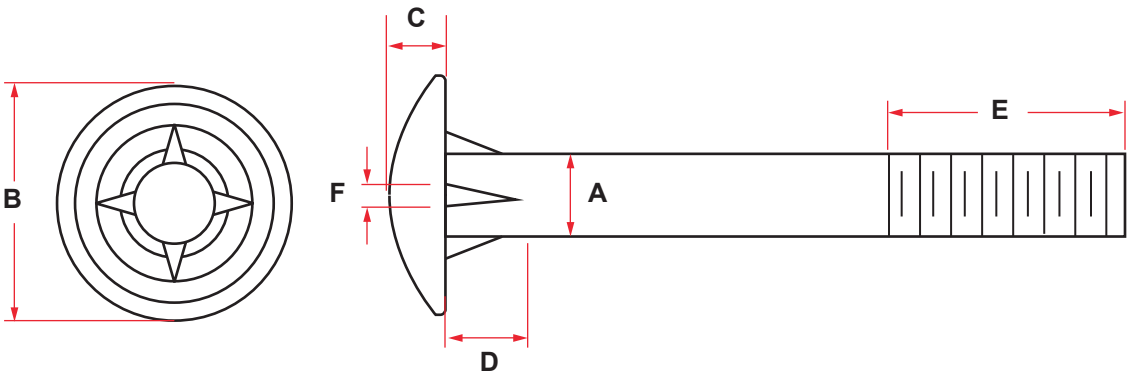
DIMENSIONS (INCHES)	
A =	T =
B =	L =
C =	S =
D =	AA =
E =	

MATERIAL: SPECIFY

FINISH: SPECIFY

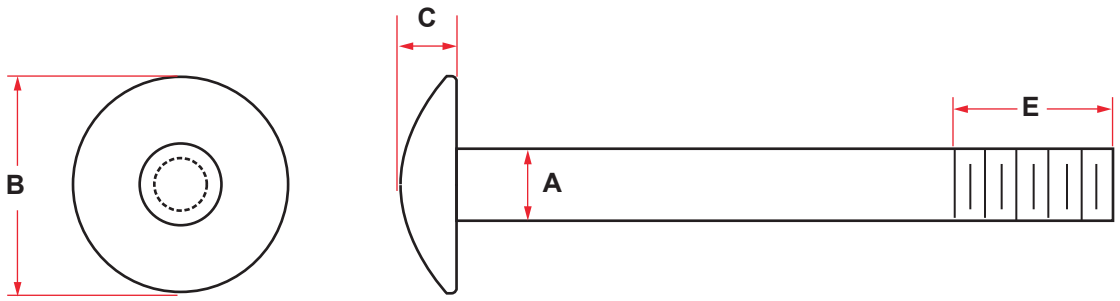


DOCK



WEATHER-TUFF TIMBER BOLTS

DIMENSIONS (INCHES)					
A	B	C	D	E *	F
5/8	2-1/4	5/16	5/8	6	1/4
3/4	2-5/8	7/16	3/4	6	1/4
7/8	3	7/16	7/8	6	9/32
1	3	1/2	1	6	5/16
* ON BOLTS OVER 12'' IN LENGTH					



DOME HEAD BOLTS

DIMENSIONS (INCHES)			
A	B	C	E *
5/8	2-1/4	5/16	6
3/4	2-5/8	7/16	6
7/8	3	7/16	6
1	3	1/2	6
* ON BOLTS OVER 15'' IN LENGTH			

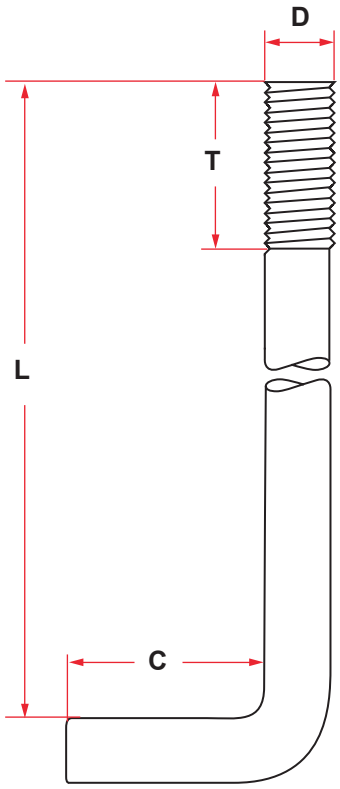
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ANCHOR BOLT - TYPE V

DIMENSIONS (INCHES)	
C =	L =
D =	T =

MATERIAL: SPECIFY

FINISH: SPECIFY

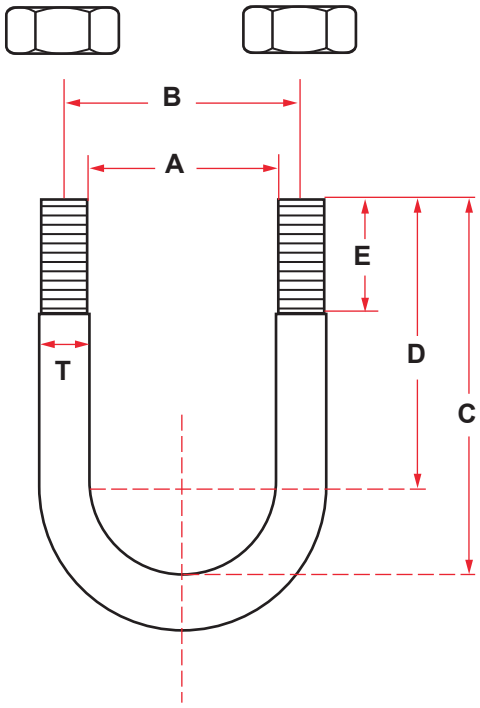


ANCHOR BOLT - TYPE VIII

DIMENSIONS (INCHES)	
A =	D =
B =	E =
C =	T =

MATERIAL: SPECIFY

FINISH: SPECIFY



WEIGHTS OF GALVANIZED BOLTS WITHOUT NUTS

APPROXIMATE WEIGHT OF 100 STEEL BOLTS IN POUNDS

LENGTH (INCHES)	DIAMETER (INCHES)							
	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-1/2
2	14.1	24.1	37.2	55.4	76.0	103.0		
3	19.5	32.5	49.3	71.2	95.9	128.0	167.0	258.0
4	24.9	40.9	61.4	87.7	117.0	155.0	200.0	306.0
5	30.2	49.2	73.4	104.0	139.0	182.0	234.0	356.0
6	35.6	57.6	85.5	121.0	160.0	209.0	267.0	406.0
7	40.7	65.6	97.1	137.0	181.0	235.0	300.0	454.0
8	46.1	74.0	109.0	153.0	203.0	263.0	333.0	504.0
9	51.5	82.4	121.0	170.0	224.0	290.0	367.0	554.0
10	56.9	90.8	133.0	186.0	246.0	317.0	400.0	604.0
11	62.3	99.2	145.0	202.0	267.0	344.0	434.0	654.0
12	67.6	108.0	158.0	219.0	288.0	371.0	468.0	704.0
13	73.0	116.0	170.0	235.0	310.0	399.0	501.0	754.0
14	78.4	124.0	182.0	252.0	331.0	426.0	535.0	804.0
15	83.8	133.0	194.0	268.0	353.0	453.0	568.0	854.0
16	89.2	141.0	206.0	285.0	374.0	480.0	602.0	904.0
17	94.5	149.0	218.0	301.0	396.0	507.0	635.0	954.0
18	99.9	158.0	230.0	318.0	417.0	535.0	669.0	1004.0
19	105.0	168.0	242.0	334.0	439.0	542.0	702.0	1054.0
20	111.0	175.0	254.0	351.0	460.0	589.0	736.0	1104.0
21	116.0	183.0	266.0	367.0	482.0	616.0	770.0	1154.0
22	121.0	191.0	278.0	384.0	503.0	643.0	803.0	1204.0
23	127.0	200.0	290.0	400.0	525.0	671.0	837.0	1254.0
24	132.0	208.0	303.0	417.0	546.0	698.0	870.0	1304.0
25			315.0	433.0	568.0	725.0	904.0	1354.0
26			327.0	450.0	589.0	752.0	937.0	1404.0
27			339.0	466.0	611.0	779.0	971.0	1454.0
28			351.0	483.0	632.0	807.0	1005.0	1504.0
29			363.0	499.0	654.0	834.0	1038.0	1544.0
30			375.0	516.0	675.0	861.0	1072.0	1604.0
32			399.0	549.0	718.0	915.0	1139.0	1704.0
34			423.0	582.0	761.0	1023.0	1273.0	1804.0
36			471.0	615.0	847.0	1131.0	1407.0	1904.0

WEIGHTS OF GALVANIZED TIE RODS

APPROXIMATE WEIGHT PER EACH

LENGTH (INCHES)	DIAMETER (INCHES)					
	1/2	5/8	3/4	1	1-1/4	1-1/2
10	6.7	10.5	15.0	26.7	41.7	60.1
12	8.1	12.6	18.0	32.1	50.1	72.1
15	10.0	15.7	22.6	40.1	62.6	90.1
16	10.7	16.7	24.0	42.7	66.8	96.0
20	13.4	21.0	30.0	54.4	83.4	120.2

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HARDWARE

BOLT SIZE (INCHES)	OUTSIDE DIAMETER (INCHES)	HOLE DIAMETER (INCHES)	AMERICAN STANDARD GAUGE	APPROX. LB. PER M PCS.	APPROX. NO./ PCS. PER LB
1/4	3/4	5/16	16 (1/16)	6.7	149.0
3/8	1	7/16	14 (5/64)	14.9	67.0
1/2	1-3/8	9/16	12 (7/64)	38.5	26.0
5/8	1-3/4	11/16	10 (9/64)	77.0	13.0
3/4	2	13/16	9 (5/32)	110.0	9.1
7/8	2-1/4	15/16	8 (11/64)	153.0	6.5
1	2-1/2	1-1/16	8 (11/64)	188.0	5.3
1-1/8	2-3/4	1-1/4	8 (11/64)	220.0	4.5
1-1/4	3	1-3/8	8 (11/64)	260.0	3.8
1-3/8	3-1/4	1-1/2	7 (3/16)	333.0	3.0
1-1/2	3-1/2	1-5/8	7 (3/16)	385.0	2.6
1-5/8	3-3/4	1-3/4	7 (3/16)	448.0	2.3
1-3/4	4	1-7/8	7 (3/16)	500.0	2.0
1-7/8	4-1/4	3	7 (3/16)	569.0	1.8
2	4-1/2	2-1/8	7 (3/16)	630.0	1.6
2-1/4	4-3/4	2-3/8	5 (7/32)	826.0	1.2
2-1/2	5	2-5/8	4 (15/64)	961.0	1.0
2-3/4	5-1/4	2-7/8	3 (1/4)	1100.0	0.9
3	5-1/2	3-1/8	2 (9/32)	1300.0	0.8

GALVANIZED FLAT WASHER (U.S.S.)



BOLT SIZE (INCHES)	OUTSIDE DIAMETER (INCHES)	HOLE DIAMETER (INCHES)	THICK	APPROX. WT. PER CPCS.	APPROX. NO. PER CWT
5/8	3	11/16	1/4	48.8	205.0
3/4	3	13/16	1/4	48.1	208.0
7/8	3	15/16	1/4	46.5	215.0
1	3-1/4	1-1/16	1/4	54.1	185.0
1-1/8	3-5/8	1-1/4	3/8	106.0	94.0
1-1/4	4	1-3/8	1/2	161.0	62.0

GALVANIZED DOCK WASHER



BOLT SIZE (INCHES)	OUTSIDE DIAMETER (INCHES)	HOLE DIAMETER (INCHES)	THICK	APPROX. WT. PER CPCS.	APPROX. NO. PER CWT
1/2	2-3/8	5/8	1/2	27.0	370.0
5/8	2-3/4	3/4	5/8	56.0	179.0
3/4	3	7/8	3/4	95.0	105.0
7/8	3-1/2	1	7/8	124.0	81.0
1	4	1-1/8	1	180.0	56.0
1-1/8	4-1/4	1-1/4	1-1/8	240.0	42.0
1-1/4	4-1/2	1-3/8	1-1/4	258.0	39.0
1-1/2	5-1/4	1-5/8	1-1/2	464.0	22.0

GALVANIZED O.G. WASHER



NOTES

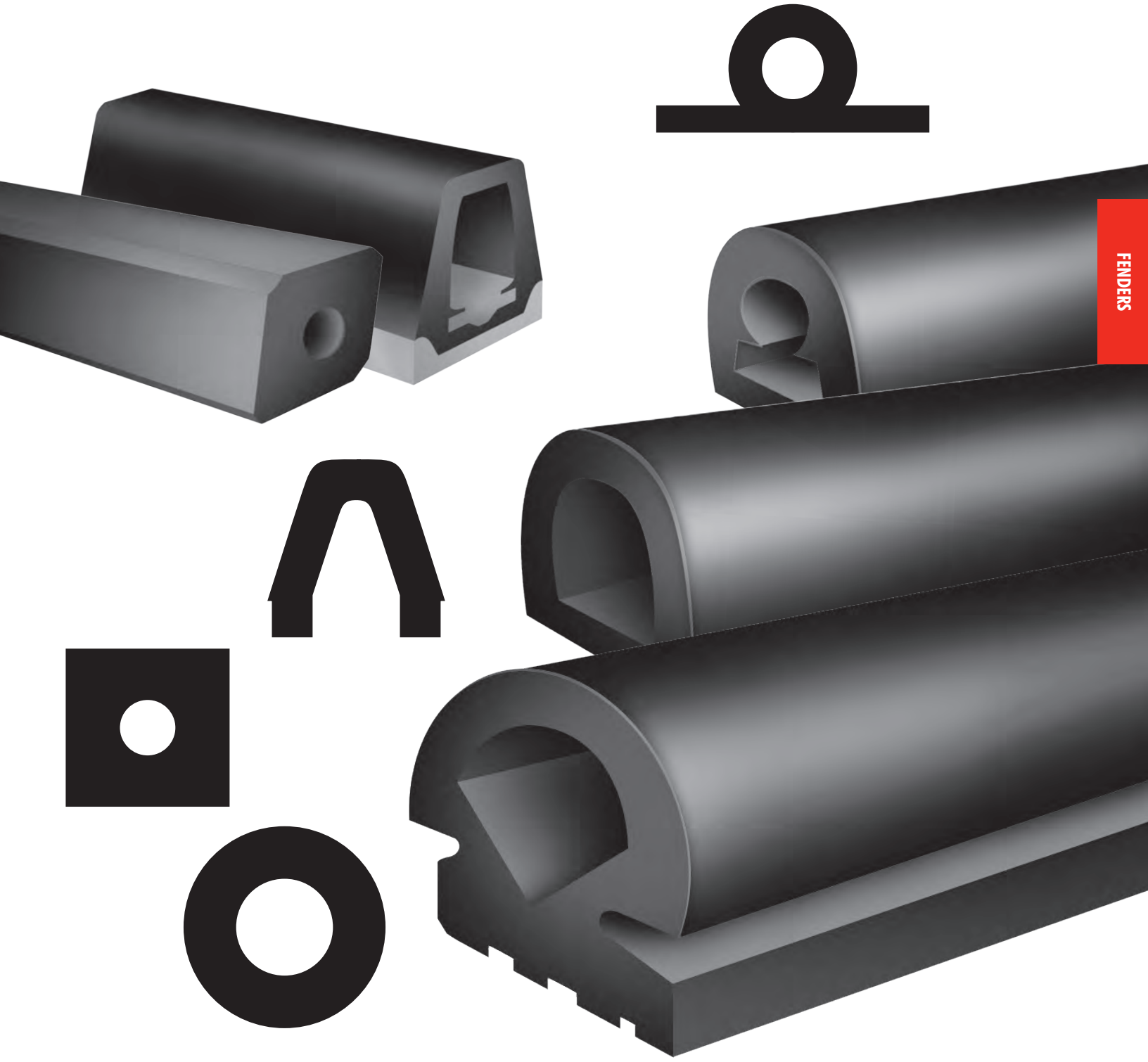
DOCK

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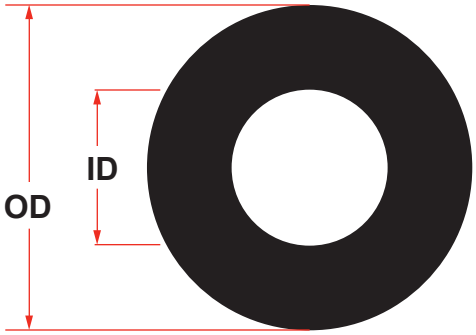
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FENDERS



FENDERS

TYPES, SIZES & WEIGHTS CYLINDRICAL FENDERS



Tolerances:
± 3% on faces
± 8% on bore
± 1% on length
or 1/2"

DIMENSIONS (INCHES)

OD	ID	WT*
7	3-1/2	14
7	3	16
8	4	19
8	3-1/2	21
10	5	30
12	6	43
15	7-1/2	67
18	9	97
21	10-1/2	131
24	12	171
28	14	233
32	16	294
36	18	372
48	24	661
60	30	1032

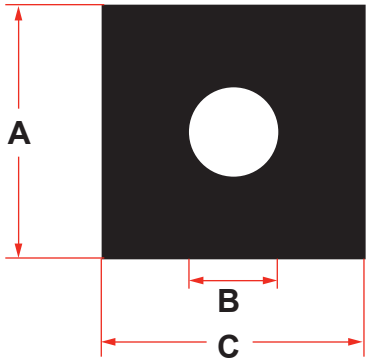
* LBS./FT.

DIMENSIONS (MM)

OD	ID	WT*
178	89	21
178	75	24
203	102	28
203	89	31
254	127	45
305	152	64
381	191	100
457	229	144
533	267	195
610	305	255
711	356	347
813	406	437
914	457	554
1219	610	984
1524	762	1535

* KG/METER

RECTANGULAR FENDERS



Tolerances:
± 4% on faces
± 8% on bore
± 1% on length
or 1/2"

P-Bore Optional.

DIMENSIONS (INCHES)

A	B	C	WT*
4	0	8	16.0
5	2-1/2	6	13.0
5	2-1/2	6-1/2	14.0
6	2-1/2	6-1/2	19.5
6	3	10	27.0
6	2	12	35.0
7	3	10	32.0
8	3	8	29.0
8	3	10	37.0
10	4	10	44.5
10	4	12	54.0
12	5	12	63.0
12	6	14	71.0
14	6	14	85.0
16	6-1/2	16	114.0
18	7-1/4	18	143.0
20	8	20	177.0

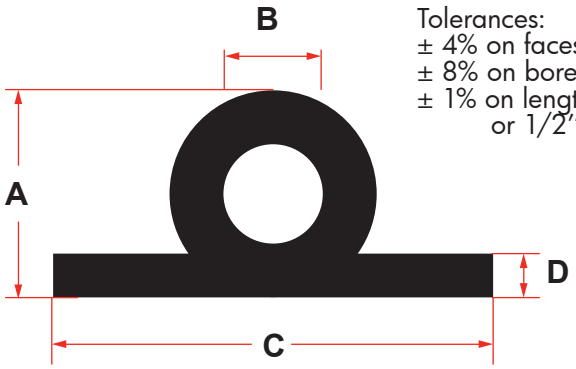
* LBS./FT.

DIMENSIONS (MM)

A	B	C	WT*
102	0	203	23.8
127	64	152	19.3
127	64	165	20.8
152	64	165	29.0
152	76	254	40.2
152	51	305	52.0
178	76	254	47.6
203	76	203	43.2
203	76	254	55.1
254	102	254	66.2
254	102	305	80.4
305	127	305	93.7
305	152	356	105.7
356	152	356	126.5
406	165	406	169.4
457	184	457	212.4
508	203	508	263.0

* KG/METER

WING-TYPE FENDERS



Tolerances:
± 4% on faces
± 8% on bore
± 1% on length
or 1/2"

DIMENSIONS (INCHES) WEIGHTS (LBS./FT)

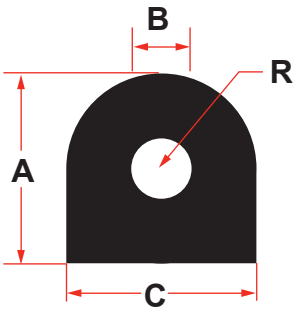
A	B	C	D	WT*
6	3	9	1-1/2	15.4
8	4	12	2	26.0
10	4	16	2-1/2	46.0
12	6	18	3	59.0

DIMENSIONS (MM) WEIGHTS (KG./METER)

A	B	C	D	WT*
152	76	229	38	22.9
203	101	305	51	38.7
254	101	406	64	68.4
305	152	457	76	87.8

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ROUND BORE



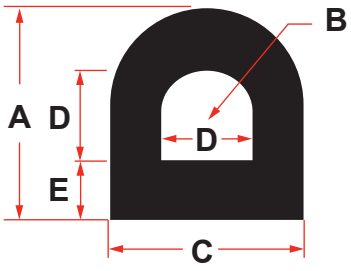
DIMENSIONS (INCHES) WEIGHTS (LBS./FT)

A	B	C	R	WT*
6	2-1/2	5	2-1/2	11.5
8	3	8	4	25.5
10	3	8	4	34.5
10	4	10	5	39.0
10	4	12	6	46.0
12	5	12	6	55.0
14	6	14	7	75.0
14	3	18	7	104.0

DIMENSIONS (MM) WEIGHTS (KG/METER)

A	B	C	R	WT*
152	64	127	64	17.1
203	76	203	102	37.9
254	76	203	102	51.3
254	102	254	127	58.0
254	102	305	152	68.4
305	127	305	152	81.8
356	152	356	178	112.0
356	76	457	178	155.0

D-SHAPED BORE



DIMENSIONS (INCHES) WEIGHTS (LBS./FT)

A	B	C	D	E	WT*
6	3	6	3	1-1/2	12.5
8	4	8	4	2	22.0
10	5	10	5	2-1/2	34.0
12	6	12	6	3	49.0
14	7	14	7	3-1/2	66.0
16	8	16	8	4	86.0
18	9	18	9	4-1/2	109.0
20	10	20	10	5	135.0

DIMENSIONS (MM) WEIGHTS (KG/METER)

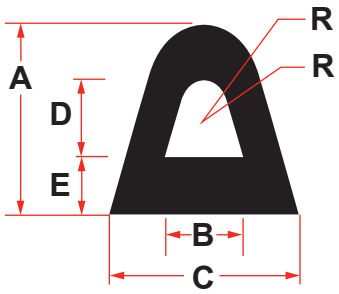
A	B	C	D	E	WT*
152	76	152	79	38	18.6
203	101	203	101	51	32.7
254	127	254	127	64	50.6
305	152	305	152	76	72.9
356	178	356	178	89	98.2
406	203	406	203	102	128.0
457	229	457	229	114	162.2
508	254	508	254	127	200.9

"D" FENDERS TAPERED SIDES

DIMENSIONS (INCHES) WEIGHTS (LBS./FT)

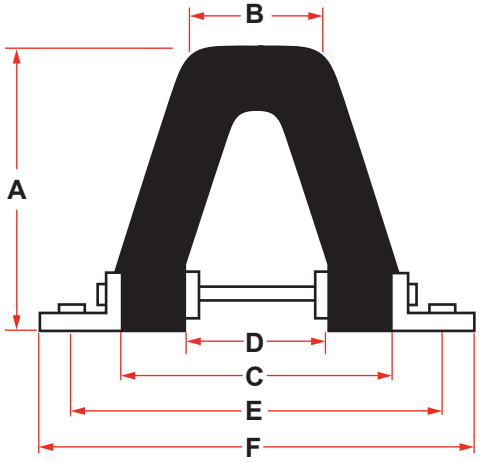
A	B	C	D	E	BR	OR	WT*
3-3/4	2	4-1/2	2-1/4	3/4	1-1/4	3/4	5.0
6	2-7/8	6-3/4	3	1-1/2	2-3/8	7/8	12.5

A	B	C	D	E	BR	OR	WT*
95	51	114	57	19	32	19	7.4
152	73	171	76	38	60	22	18.6



Tolerances:
± 4% on faces
± 8% on bore
± 1% on length
or 1/2"

DELTA "A" SERIES, EXTERNAL PLATE



Tolerances:
± 4% on faces
± 8% on bore
± 1% on length
or 1/2"

DIMENSIONS (INCHES) WEIGHTS IN LBS./FT.

MODEL	A	B	C	D	E	F
13A	12	7-1/2	13	6-1/2	17	20
20A	16	10	20	10	25	28
23A	20	12	23	12	29	33

* RUBBER/STEEL

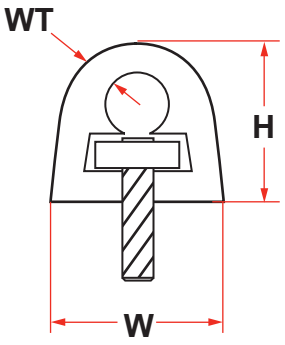
MODEL	A	B	C	D	E	F
13A	305	191	330	165	432	508
20A	406	254	508	254	635	711
23A	508	305	584	305	737	838

* RUBBER/STEEL

Rubber options: EPDM/butyl, butyl, low-friction butyl and non-marking gray EPDM rubber compounds all are available.

Desiger's note: Consult Anchor Marine for design/budgetary assistance on any special shape or profile. Our analysis can include load deflection/energy characteristics, as well as low/high temperature behavior, shape factor limitations, tear strength and other design criteria free of charge. Special compounds may be recommended for specific problem solutions.

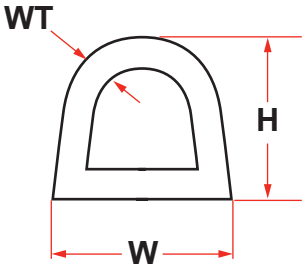
COMMERCIAL BUMPERS
100 SERIES - "D" SHAPE





CODE NO.	COLOR	DIMENSIONS (INCHES)			WT./FT. LBS.	LENGTH UP TO
		BASE WIDTH (W)	HEIGHT (H)	WALL THNKS. (WT)		
DB-50	Black	2-1/8	2	7/16	1.3	60 FT.
DB-50B	Grey	2-1/8	2	7/16	1.6	60 FT.
DB-50C	White	2-1/8	2	7/16	1.6	60 FT.
DB-75	Black	3-1/8	2-7/8	11/16	2.8	60 FT.
DB-75B	Grey	3-1/8	2-7/8	11/16	3.4	60 FT.
DB-75C	White	3-1/8	3-7/8	11/16	3.4	60 FT.
DB-100	Black	4-1/4	3-7/8	3/4	4.6	60 FT.
DB-100B	Grey	4-1/4	3-7/8	3/4	5.3	60 FT.
DB-100C	White	4-1/4	3-7/8	3/4	5.3	60 FT.

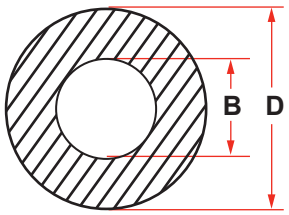
D SHAPE / D-BORE





CODE NO.	COLOR	DIMENSIONS (INCHES)			WT./FT. LBS.	LENGTH UP TO
		BASE WIDTH (W)	HEIGHT (H)	WALL THNKS. (WT)		
DB-101	Black	4-1/4	3-7/8	3/4	4.6	60 FT.
DB-115	Black	4-1/2	3-3/4	3/4	4.7	60 FT.
DB-125	Black	6-3/4	6	1-1/2	13.6	20 FT.
DB-150	Black	9-1/2	8	1-1/2	19.5	20 FT.

200 SERIES - CYLINDRICAL FENDER

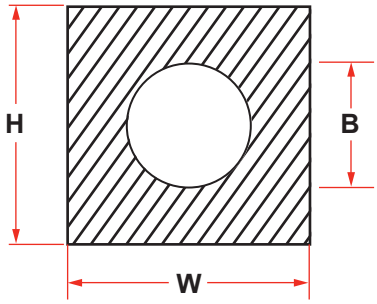




CODE NO.	DIMENSIONS (INCHES)		WT./FT. LBS.	LENGTH UP TO
	OUTSIDE DIAMETER (D)	BORE (B)		
DB-202	3	1	3.2	60 FT.
DB-203	3	1-1/2	2.7	60 FT.
DB-205	5	2-1/2	8.0	30 FT.
DB-206	7	3	16.0	20 FT.
DB-207	7	3-1/2	15.5	20 FT.
DB-208	8	4	18.2	20 FT.
DB-210	10	5	32	20 FT.
DB-212	12	6	46	20 FT.
DB-215	15	7-1/2	67	20 FT.
DB-218	18	9	96.7	10 FT.

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300 SERIES - RECTANGULAR FENDER

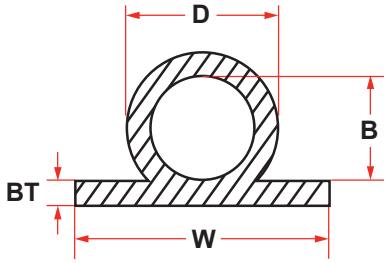




CODE NO.	DIMENSIONS (INCHES)			WT./FT. LBS.	LENGTH UP TO
	HEIGHT (H)	WIDTH (W)	BORE (B)		
DB-302	2	4	SOLID	3.9	60 FT.
DB-303	3-1/2	4-1/2	1	8.0	60 FT.
DB-304	5	5	2-1/2	9.8	60 FT.
DB-305	5	6-1/2	2-1/2	13.0	40 FT.
DB-305A	5-1/2	6	2-1/2	13.9	40 FT.
DB-306	6	6-1/2	2-1/2	17.4	20 FT.
DB-306A	6	6	2-7/8	14.6	20 FT.
DB-306B	6	7	2-1/2	18.0	20 FT.
DB-307	7	10	3	34.1	20 FT.
DB-307A	7	10	3-1/2	30.0	20 FT.
DB-308	8	8	3	28.2	20 FT.
DB-309	8	10	3	39.5	20 FT.
DB-309A	9	10	SOLID	50.7	20 FT.
DB-310	10	10	4	42.4	20 FT.
DB-311	10	12	4	60.0	20 FT.
DB-312	12	12	5	68.0	20 FT.
DB-313	12	12	4	68.5	20 FT.
DB-314	14	14	6	83	20 FT.

400 SERIES

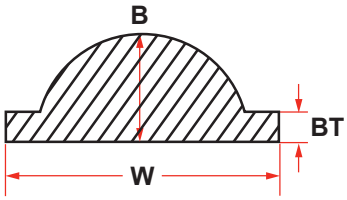
WING TYPE "O" BORE





CODE NO.	DIMENSIONS (INCHES)				WT./FT. LBS.	LENGTH UP TO
	BASE WIDTH (W)	BASE THICKNESS (BT)	OUTSIDE DIAMETER (D)	BORE (B)		
DB-404	4	1/2	2-1/2	1	3.5	60 FT.
DB-405	5	1/2	2-1/2	1	4.0	60 FT.
DB-406	6	3/4	3	1	5.3	60 FT.
DB-407	6-1/2	1	4	2	7.0	60 FT.
DB-408	6-1/2	1	4	1	8.9	60 FT.
DB-409	9	1-1/2	6	3	14.4	20 FT.
DB-410	9-1/2	1-1/2	6	2	16.2	20 FT.
DB-412	12	2	8	4	27.0	20 FT.
DB-416	16	2-1/2	10	4	46.0	20 FT.
DB-418	18	3	12	6	61.0	20 FT.

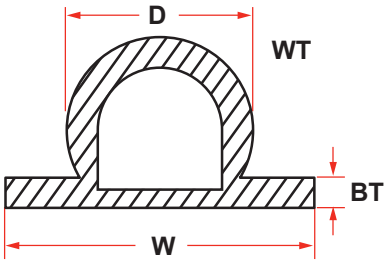
WING TYPE SOLID BORE





CODE NO.	DIMENSIONS (INCHES)			WT./FT. LBS.	LENGTH UP TO
	BASE WIDTH (W)	BASE THICKNESS (BT)	RADIUS (R)		
DB-460	10	1-1/4	4	14.6	20 FT.

WING TYPE "D" BORE





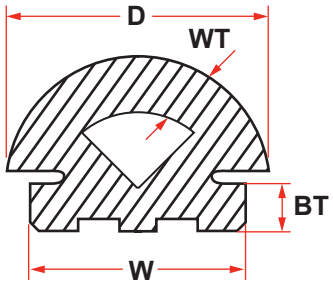
CODE NO.	DIMENSIONS (INCHES)				WT./FT. LBS.	LENGTH UP TO
	BASE WIDTH (W)	BASE THICKNESS (BT)	OUTSIDE DIAMETER (D)	WALL THICKNESS (WT)		
DB-440	9-1/2	1-1/2	6	1	14.9	20 FT.

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500 SERIES - FAN NOSE

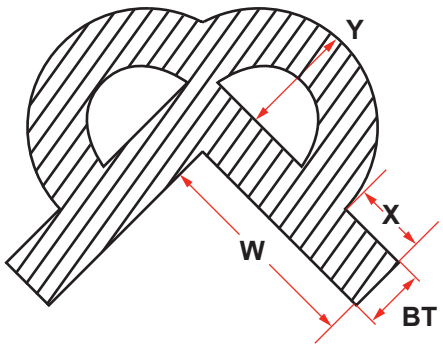




CODE NO.	DIMENSIONS (INCHES)				WT./FT. LBS.	WALL THICK.	LENGTH UP TO
	BASE WIDTH (W)	BASE THICKNESS (BT)	OUTSIDE DIAMETER (D)	P			
DB-503*	2-1/2	17/32	3	1/4	2.5	5/8	60 FT.
DB-504*	3-3/4	25/32	4-1/4	1/4	3.2	3/4	60 FT.
DB-506*	5-7/16	1	6	5/16	9.0	1	40 FT.
DB-508*	7-1/4	1-3/16	8	3/8	15.5	1-1/2	20 FT.
DB-510*	9-1/4	1-11/16	10	3/8	24.8	1-1/2	20 FT.
DB-512*	11	2	12	9/16	28.6	2	20 FT.

* WHITE OR GREY UPON REQUEST

800 SERIES - CORNER GUARD





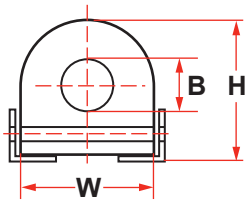
CODE NO.	DIMENSIONS (INCHES)				WT./FT. LBS.	LENGTH UP TO
	BASE WIDTH (W)	BASE THICKNESS (BT)	WING LENGTH (X)	OUTSIDE DIAMETER (Y)		
DB-809*	5-9/16	1-1/2	2	3	21.0	10 FT.

* WHITE OR GREY UPON REQUEST

900 SERIES - D-SHAPED / O-BORE



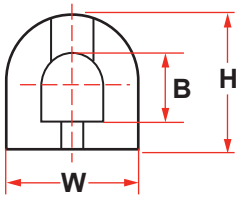
CODE NO.	PART NO.	BASE WIDTH (W)	BASE HEIGHT (H)	BORE (B)	RADIUS (R)	WT./FT.	LENGTH UP TO
DB-906	802090601	5"	6"	2-1/2"	2-1/2"	11.7 LBS.	20 FT.
DB-906A	802090611	6"	6"	3"	3"	13 LBS.	20 FT.
DB-908	802090801	8"	8"	3"	4"	26.2 LBS.	20 FT.
DB-909	802090901	8"	10"	3"	4"	34 LBS.	20 FT.
DB-909B	802090911	9-1/4"	10"	3"	5"	40 LBS.	20 FT.
DB-910	802091001	10"	10"	3"	5"	43 LBS.	20 FT.
DB-910A	802091011	10"	10"	4"	5"	41.7 LBS.	20 FT.
DB-912	802091201	12"	12"	4"	6"	66 LBS.	20 FT.
DB-912A	802091211	12"	12"	5"	6"	65 LBS.	20 FT.
DB-912B	802090013	12"	14"	5"	6"	69.6 LBS.	20 FT.
DB-912C	802091231	12"	14"	4"	6"	73.3 LBS.	20 FT.
DB-914	802091401	14"	14"	6"	7"	76.8 LBS.	20 FT.
DB-914B	802091421	14"	12"	6"	7"	60 LBS.	20 FT.
DB-914C	802091431	13.5"	12"	6"	6.75"	60 LBS.	20 FT.



900 SERIES - D-SHAPED / D-BORE



CODE NO.	PART NO.	BASE WIDTH (W)	BASE HEIGHT (H)	BORE (B)	WT./FT.	LENGTH UP TO
DB-954	802090022	4"	4"	2" x 2"	6 LBS.	20 FT.
DB-956	802090021	6"	6"	3" x 3"	12.5 LBS.	20 FT.
DB-958	802090005	8"	8"	4" x 4"	22.5 LBS.	20 FT.
DB-960	802090011	10"	10"	5" x 5"	35.1 LBS.	20 FT.
DB-962	802090015	12"	12"	6" x 6"	50.5 LBS.	20 FT.
DB-964	802090003	14"	14"	7" x 7"	72 LBS.	20 FT.

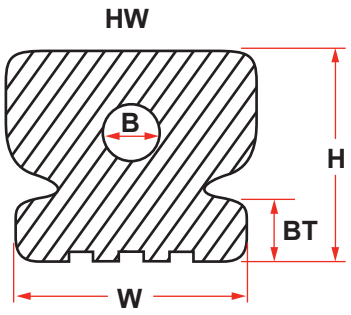


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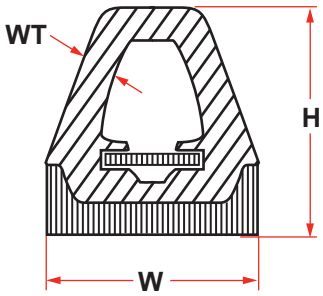
1000 SERIES - FLAT HEAD





CODE NO.	BASE WIDTH (W)	BASE THKNS. (BT)	HEAD WIDTH (HW)	HEIGHT	BORE (B)	WT./FT.	LENGTHS UP TO
DB-1006	6-1/2"	1-11/16"	7-3/8"	6"	1-3/4"	18.6 LBS.	30 FT.
DB-1009	9"	2-29/32"	9-7/16"	7-1/2"	3"	24 LBS.	30 FT.

1000 SERIES - CHANNEL LOCK

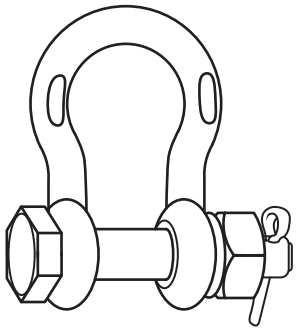




CODE NO.	BASE WIDTH (W)	HEIGHT (H)	WALL THKNS. (WT)	WT./FT. RUBBER ONLY	LENGTHS UP TO	NOT SUPPLIED AS STANDARD EQUIPMENT
DB-1103	3"	3-1/4"	1-9/32"	2.8 LBS.	60 FT.	REYNOLDS ALUMINUM CHANNEL NO. 351 3" X .247 WEB 1/4" X 1-1/2" ALUM. BAR
DB-1104	4"	4-5/16"	3/4"	4.5 LBS.	40 FT	REYNOLDS ALUMINUM CHANNEL NO. 2644 4" X .247 WEB 1/4" X 2" ALUM. BAR

CHAIN AND SHACKLE

Chain or wire rope may be used to suspend either cylindrical or rectangular fenders. But chain is more corrosion resistant than wire rope. Chain provides more bearing surface on the I.D. of the fender, thus reducing tear potential at the ends of the fender.



TYPICAL SHACKLE

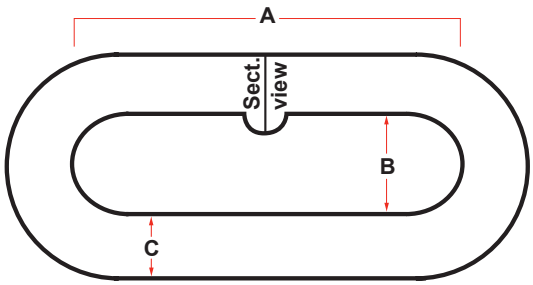
Recommended chain for different sizes:

1. 1/2" chain for cylindrical fenders up to and including 8" OD X 4" I.D.
2. 5/8" chain used for 10" OD X 5" up to and including 18" x 9" size (some applications of 18" x 9" based on conditions will use heavier chain).
3. 3/4" chain used for 18" x 9" to 24" x 12" fender.

The "long link chain" shown in the specifications below does not restrict fender deflection as much as heavier, shorter link chain would. Experience indicates that ultimate breaking strength of chain is more important than its shock load ability.

Mounting eyebolts so they do not project beyond the dock face will prevent restricting fender deflection. On old docks, pad eyes may be used to limit projection from the dock face.

The shackle should be high strength, with a greater ultimate strength than that of the chain being used. We recommend a safety anchor pin shackle with an alloy pin, one size larger than the chain being used. These chain and alloy shackle selections permit the eye of the shackle to pass through the chain's long link; simplifying installation.



TYPICAL LINK

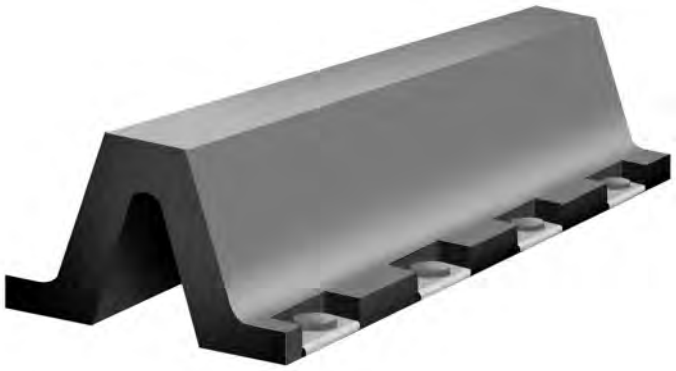
DOCK FENDER CHAIN

SIZE / DIA.	1/2 INCH	5/8 INCH	3/4 INCH	1 INCH		12.7 MM	15.9 MM	19.1 MM	25.4 MM
PROOF TEST	15,000*	35,000*	55,000*	100,000*		6,804**	15,876**	24,948**	45,351**
AV. ULT. STRENGTH	35,000*	58,000*	105,000*	160,000*		15,876**	26,308**	47,627**	72,562**
MAX. ELONGATION	15%	15%	15%	15%		15%	15%	15%	15%
BRINELL HARNDESS	229-277	229-277	331-388	331-388		229-277	229-277	229-277	331-388
LINKS PER FT. (PER M) NOMINAL	3.2	3.2	3.2	2.9		10.5	10.5	10.5	9.54
WT. PER 100FT. (PER M)	205*	320*	446*	814*		3.05	4.78	4.78	12.1
MAX. LINK WIDTH	1.875	2.243	2.700	3.375		47.60	56.97	56.97	85.72
A (INSIDE LENGTH)	3.25 + .015-0	3.75 + .015-0	3.75 ± .025	4.125		95.25	95.25	95.15	104.78
B (INSIDE WIDTH)	.789 ± .031	.900 ± .031	1.125 ± .031	1.375		20.04	22.86	28.48	34.93
C (THICKNESS)	0.531	0.656	.750 ± .008	1.000		13.49	16.66	19.05	25.40
D (MAX. SWELL)	0.025	0.025	-	-		0.064	0.064	-	-
ALLOY SAFETY ANCHOR SHACKLE	851A	852A	854A	854A		851A	852A	854A	854A
SHACKLE ULTIMATE STRENGTH	60,000*	81,000*	135,000	135,000		27,216**	36,741**	61,235**	61,235**

* STRENGTHS AND WEIGHTS IN LBS.

** STRENGTHS AND WEIGHTS IN KG.

HOT DIPPED GALVANIZED



AOV-TYPE FENDERS

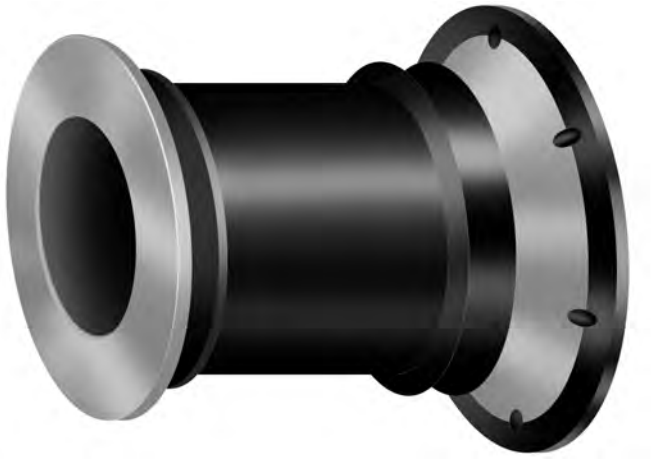
Features:

1. High energy absorption and low reaction force.
2. Its arch shape serves well to reduce concentration of stresses when the fender is compressed.
3. Steel mounting plates at the fender bottom and open legs make it easy to install fenders at any berthing facility.
4. A wide selection of sizes and energy capacities.
5. Vulcanized sealing skin encapsulating metal parts.

SPOOL-TYPE FENDERS

Features:

1. Increased energy absorption and lower load transmitted.
2. Self supporting: Spool-type fender can support its own weight plus that of the frontal system. (Supporting limits are described later.)
3. By adjusting frontal system space, required hull pressure (face pressure) can be easily obtained.
4. A wide selection of fender types are available.



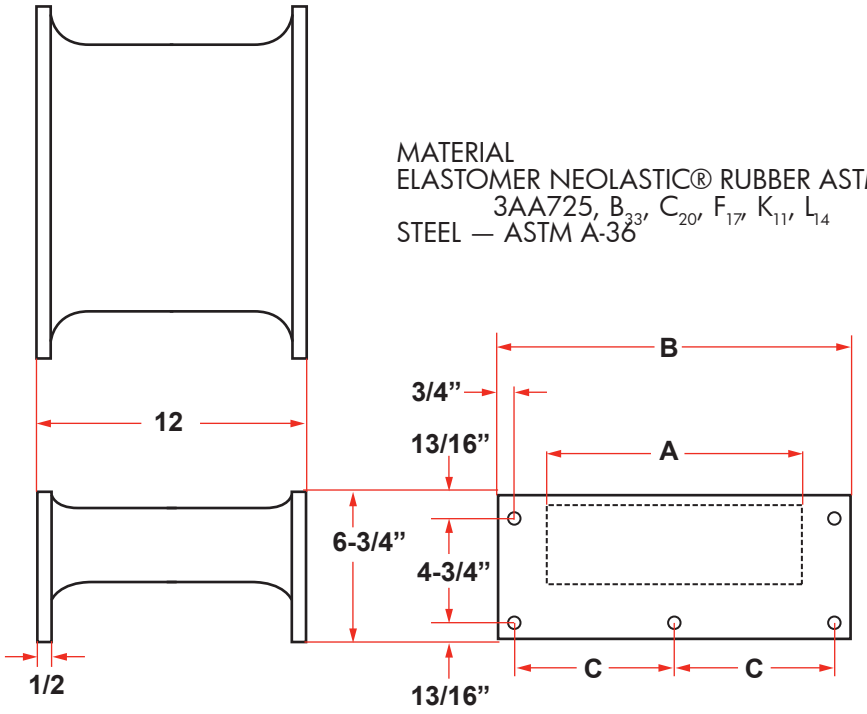


ACV-TYPE FENDERS

Features:

1. The first buckling type.
2. The most versatile fender in the world.
3. The first fender reinforced by an embedded steel plate at the entire bottom of fender.
4. The first dynamically stable type against outer force in various direction.
5. Easy handling and maintenance.

12" BUCKLING COLUMN PRODUCT DIMENSIONS



MATERIAL
ELASTOMER NEOLASTIC® RUBBER ASTM D-2000
3AA725, B_{33}, C_{20}, F_{17}, K_{11}, L_{14}
STEEL — ASTM A-36

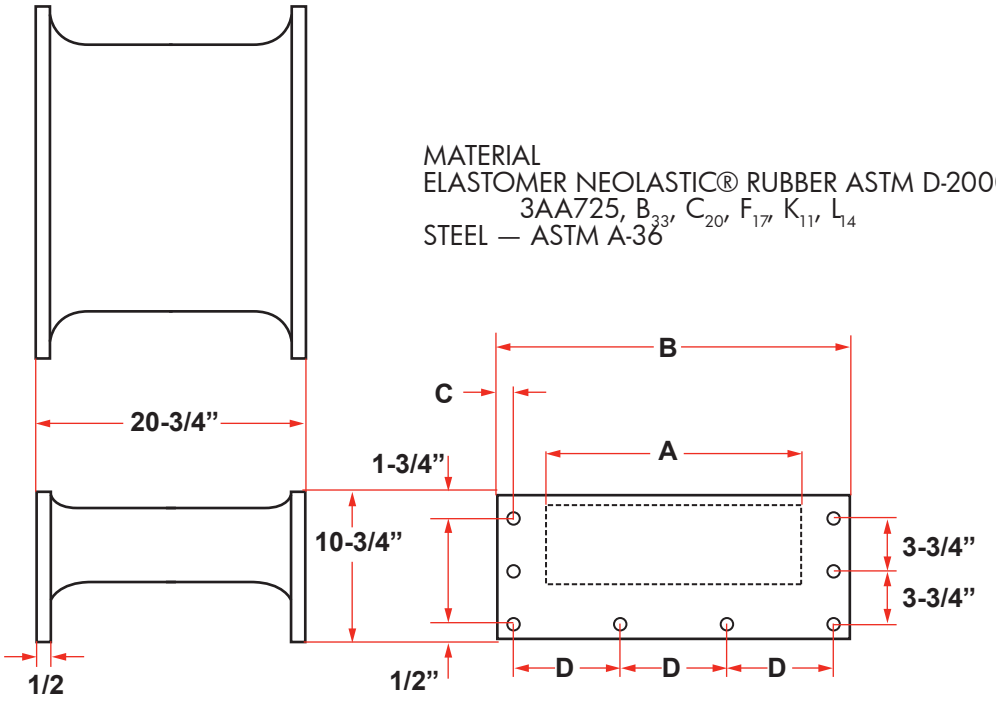
.80 DIA. HOLES 3/4 DIA (19MM) BOLTS

PART NO.	WT.	A	B	C
E46001	25 LBS.	6	10	4-1/4
	11.3Kg	(152.4)	(254)	(108)
E46002	35 LBS.	9	13	5-3/4
	15.9Kg	(228.6)	(330.2)	(146.1)
E46003	45 LBS.	12	16	7-1/4
	20.4 Kg	(304.8)	(406.4)	(184.2)
E46004	35 LBS.	9	13	5-3/4
	15.9 Kg	(228.6)	(330.2)	(146.1)
E46005	50 LBS.	12	16	7-1/4
	22.7 Kg	(304.8)	(406.4)	(184.2)

INCH	CM
1/2	1.27
3/4	1.91
0.8	2.03
13/16	2.06
1-13/16	3.02
4-3/4	12.07
6-3/4	17.15

NOTE: ALL DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS

20" BUCKLING COLUMN PRODUCT DIMENSIONS

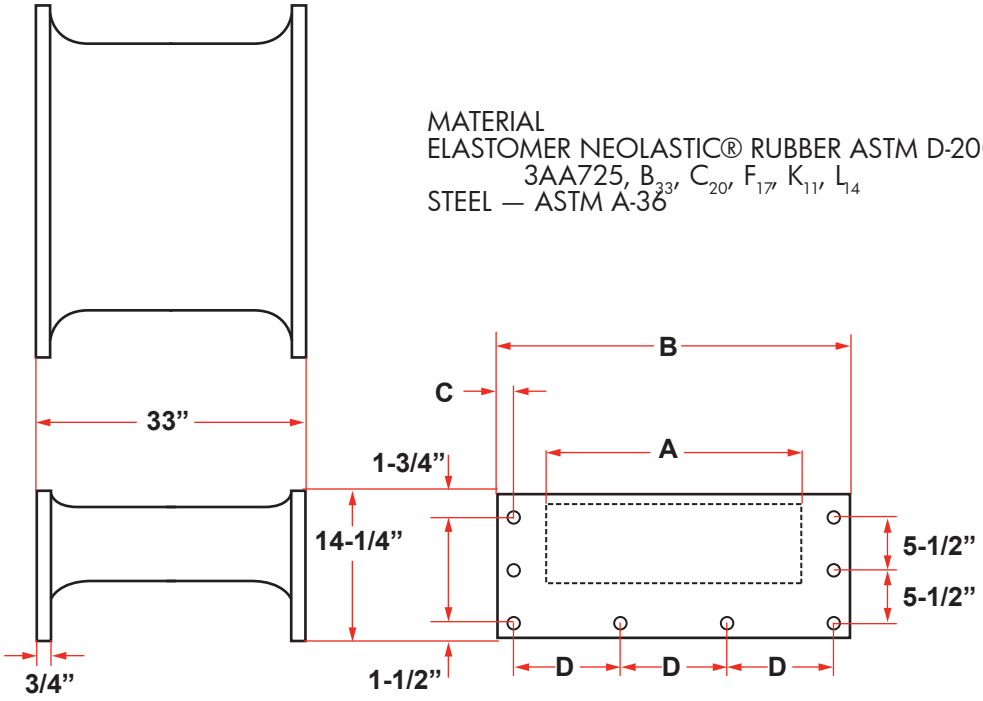


PART NO.	WT.	A	B	C	D
E46006	90 LBS.	10	16-5/16	1-19/32	4-3/8
	40.8Kg	(254)	(414.3)	(40.5)	(111.1)
E46007	115 LBS.	14	20-5/16	1-5/8	5-11/16
	52.3 Kg	(355.6)	(515.9)	(41.3)	(144.5)
E46008	145 LBS.	18	24-5/16	1-21/32	7
	65.9 Kg	(457.2)	(617.5)	(42.1)	(177.8)
E46009	175 LBS.	22	28-5/16	1-19/32	8-3/8
	79.5 Kg.	(558.8)	(719.1)	(40.5)	(212.7)
E46010	205 LBS.	26	32-5/16	1-5/8	9-11/16
	93.2 Kg.	(660.4)	(820.7)	(41.3)	(246)

INCH	CM
1/2	1.27
13/16	2.06
1-1/2	3.81
1-3/4	4.45
3-3/4	9.53
10-3/4	27.31
20-3/4	52.71

NOTE: ALL DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS

33" BUCKLING COLUMN PRODUCT DIMENSIONS



MATERIAL
ELASTOMER NEOLASTIC® RUBBER ASTM D-2000
3AA725, B_{33}, C_{20}, F_{17}, K_{11}, L_{14}
STEEL — ASTM A-36

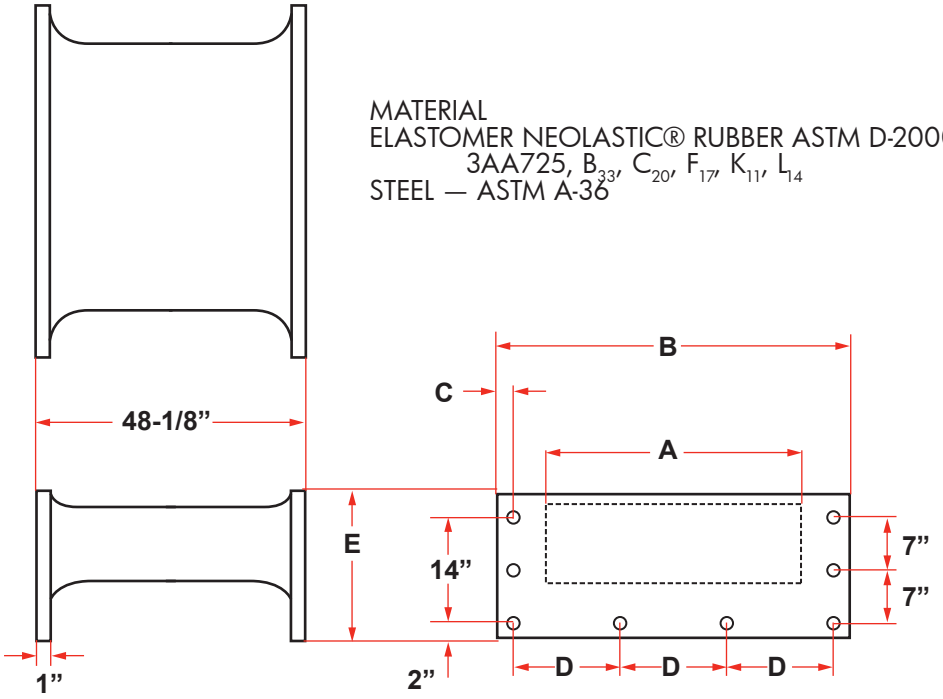
1-1/8" DIA. HOLES FOR 1" DIA (24MM) BOLTS

PART NO.	WT.	A	B	C	D
E46011	235 LBS.	12	18-5/16	1-21/32	5
	107 KG.	(304.8)	(465.1)	(42.1)	(127)
E46012	345 LBS.	18	24-5/16	1-21/32	7
	157 KG.	(457.2)	(617.5)	(42.1)	(177.8)
E46013	400 LBS.	22	28-5/16	1-19/32	8-3/8
	181 KG.	(558.8)	(719.1)	(40.5)	(212.7)
E46014	480 LBS.	26	32-5/16	1-5/8	9-11/16
	218 KG.	(660.4)	(820.7)	(41.3)	(246.1)
E46015	550 LBS.	30	36-5/16	1-21/32	11
	250 KG.	(762.0)	(922.3)	(42.1)	(279.4)
E46016	710 LBS.	34	40-5/16	1-19/32	12-3/8
	322 KG.	(865)	(1023)	(40.5)	(314.3)
E46017	790 LBS.	38	44-5/16	1-23/32	13-5/8
	359 KG.	(956.2)	(1126)	(44.0)	(346.1)

NOTE: ALL DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS

INCH	CM
3/4	1.91
1-1/8	2.86
1-1/2	3.81
1-3/4	4.45
5-1/2	13.97
14-1/4	36.20
33	83.32

48" BUCKLING COLUMN PRODUCT DIMENSIONS



MATERIAL
ELASTOMER NEOLASTIC® RUBBER ASTM D-2000
3AA725, B_{33}, C_{20}, F_{17}, K_{11}, L_{14}
STEEL — ASTM A-36

1-1/8" DIA. HOLES FOR
1" DIA (24MM) BOLTS

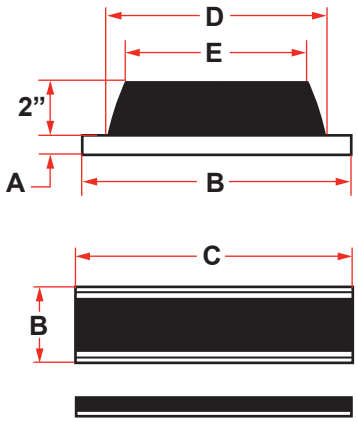
PART NO.	WT.	A	B	C	D	E
E46018	525 LBS.	14	20-5/16	1-29/32	5-1/2	19-1/2
	238 KG.	(355.6)	(515.9)	(48.4)	(139.7)	(4953)
E46019	635 LBS.	17-1/2	23-13/16	1-13/32	7	20-1/2
	288 KG.	(444.5)	(604.8)	(35.7)	(177.8)	(5207)
E46020	750 LBS.	21	27-5/16	1-21/32	8	20-1/2
	340 KG.	(533.4)	(693.7)	(42.1)	(203.2)	(5207)
E46021	870 LBS	24-1/2	30-13/16	1-29/32	9	20-1/2
	394 KG.	(622.3)	(782.6)	(48.4)	(228.6)	(5207)
E46022	990 LBS.	28	34-4/16	1-13/32	10-1/2	20-1/2
	448 KG.	(711.2)	(871.5)	(35.7)	(266.7)	(5207)

NOTE: ALL DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS

INCH	CM
1	2.54
1-1/8	2.86
2	5.08
3-1/2	8.89
48-1/8	122.24

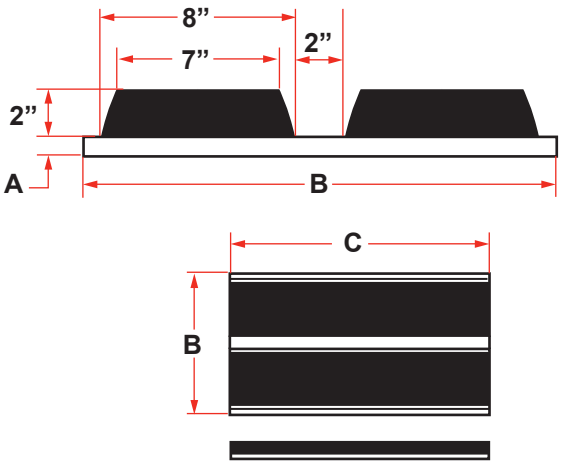
SINGLE TOW - KNEES

PART NUMBER	STEEL PLATE DIMENSION (INCHES) A (THICKNESS)	B (WIDTH)	C (LENGTH)	RUBBER D (BASE WIDTH)	E (SURFACE WIDTH)	APPROX WT. PER UNIT (LBS.)
DB-1408	3/4	10	36	8	7	90
DB-1409	1/2	10	36	8	7	65
DB-1410	1/4	10	36	8	7	50
DB-1508	3/4	13-1/2	36	11-1/4	10-1/4	130
DB-1509	1/2	13-1/2	36	11-1/4	10-1/4	90
DB-1510	1/4	13-1/2	36	11-1/4	10-1/4	70



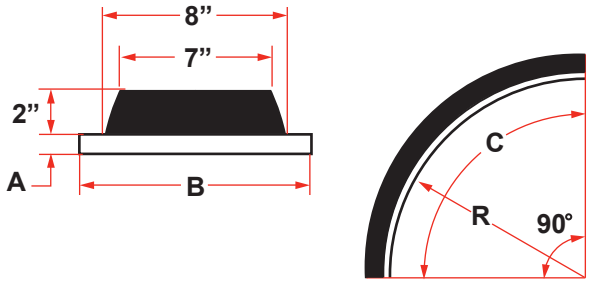
DOUBLE TOW - KNEES

PART NUMBER	STEEL PLATE DIMENSION (INCHES) A (THICKNESS)	B (WIDTH)	C (LENGTH)	APPROX WT. PER UNIT (LBS.)
DB-1608	3/4	20	36	190
DB-1609	1/2	20	36	135
DB-1610	1/4	20	36	85



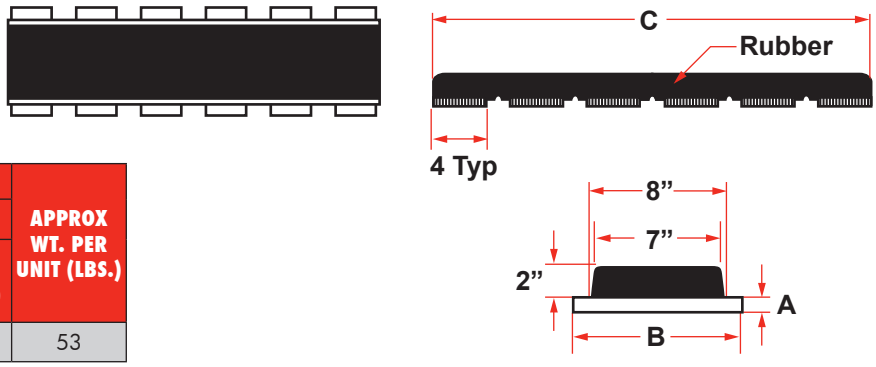
PRE-CURVED TOW - KNEES

PART NUMBER	STEEL PLATE DIMENSION (INCHES) R (RADIUS)	A (THICKNESS)	B (WIDTH)	C (LENGTH)	APPROX WT. PER UNIT (LBS.)
DB-1708	18	3/4	10	28-1/4	80
DB-1709	18-1/4	1/2	10	28-5/8	60
DB-1710	18-1/2	1/4	10	29-1/16	40



SEGMENTED TOW - KNEES

PART NUMBER	STEEL PLATE DIMENSION (INCHES) R (RADIUS)	A (THICKNESS)	B (WIDTH)	C (LENGTH)	APPROX WT. PER UNIT (LBS.)
DB-1909	Variable	1/2	10	35-1/2	53

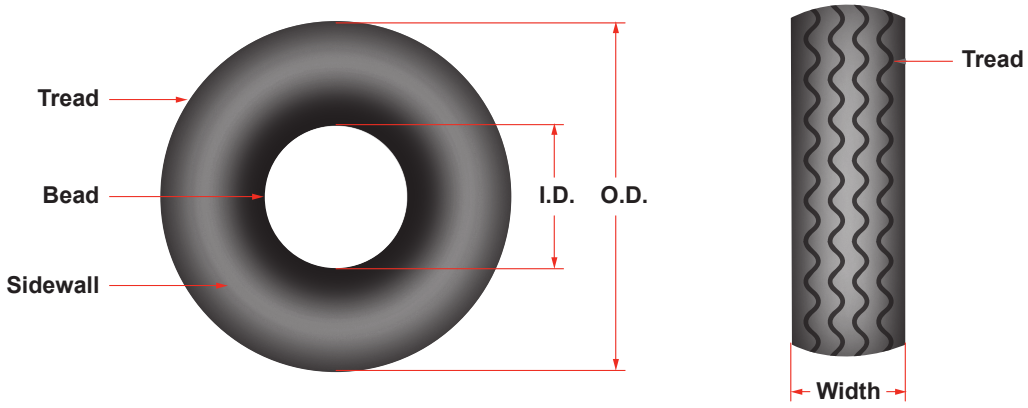


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Anchor MARINE & INDUSTRIAL SUPPLY, INC.

BUMPER TIRES
AIRCRAFT AND LCM/EARTHMOVER

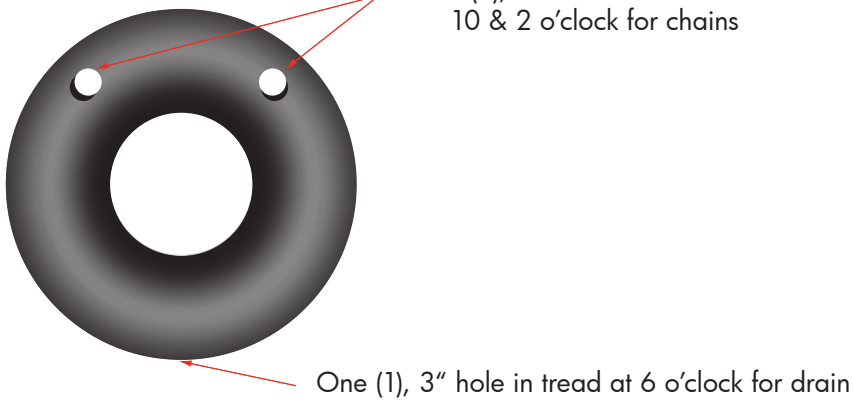
FOR BOATS, BARGES, PLATFORMS, DOCKS,
MOORING FACILITIES, BALLOON FENDERS, ETC.

- ALL SIZES AVAILABLE
- HEAVY NYLON PLY CONSTRUCTION
- CUSTOM CHAIN HOLES DRILLED
- LEAST EXPENSIVE YET MOST EFFECTIVE
- FENDERS AVAILABLE
- CALL FOR QUOTES
- QUANTITY DISCOUNTS AVAILABLE



O.D. – OUTSIDE DIAMETER OF TIRE.
I.D. – INSIDE DIAMETER OF TIRE. VERY IMPORTANT WHEN FENDER STACKING ON PIPE.
WIDTH – WIDTH WILL INDICATE DISTANCE BETWEEN SHIP AND DOCK, OR QUANTITY REQUIRED FOR FENDER STACKING ON PIPE.
HOLD DIAMETER – DETERMINED BY THE SIZE OF CHAIN OR CABLE USED FOR MOUNTING TIRES. ADVISE DIAMETER AND POSITION.

COMMON EXAMPLE:



COMMON AIRCRAFT TIRES

SIZE (INCHES)	O.D.	I.D.	WIDTH	PLY RATING	WEIGHT APPROX.
18 X 5.5	16	8	5	12 – 16	20
20 X 5.5	18	10	5	20	25
22 X 6.6	20	10	6	20	30
24 X 7.7	22	10	7	16	30
26 X 6.6	24	14	6	12 – 14	30
25.5 X 8 – 14	24	14	7	20 – 22	35
27 X 7.75 – 15	25	15	7	12 – 14	35
27 X 8.75 – 14.5	25	14	8	24 – 26	50
30 X 11.5 – 14.5	28	14	11	26	70
31 X 13 – 12	30	12	12	22 – 24	70
34 X 9.75 – 18	32	18	9.5	26	80
37 X 14 – 14	34	14	13	22 – 26	100
40 X 14	36	16	13	20 – 26	120
40 X 14.5 – 19	37	19	14	26 – 28	135
40 X 15.5 – 16	37	16	15	26 – 28	135
41 X 15 – 18	40	18	14	24 – 28	140
44 X 16	42	18	15	26 – 28	150
44.5 X 16.5 – 20	43	20	16	28 – 30	170
46 X 18 – 20	45	20	17	28 – 30	180
46 X 16 – 23.5	45	23	16	30	200
49 X 17	48	20	17	26 – 30	200
49 X 19 – 22	48	22	19	32	275
50 X 20 – 20	49	20	20	32 – 34	300
52 X 20.5 – 20	51	20	20	32 – 36	325
52 X 20.5 – 23	51	23	20	32 – 36	325
54 X 21 – 24	53	24	20	36	350
56 X 16	55	28	16	32 – 38	350

DIMENSIONS IN INCHES
MANY OTHER SIZES AVAILABLE



COMMON LCF/EARTHMOVER TIRES

SIZE (INCHES)	O.D.	I.D.	WIDTH	PLY RATING	WEIGHT APPROX.
14 – 24	52	24	13	20 – 24	200
16 – 25	56	25	16	24 – 28	300
20.5 – 25	56	25	20	16 – 20	300
18 – 25	60	25	18	28 – 32	450
23.5 – 25	60	25	23	16 – 20	375
26.5 – 25	67	25	26	20 – 24	500
18 – 33	67	33	18	32 – 36	600
29.5 – 25	70	25	29	22 – 28	700
21 – 35	72	35	21	32 – 40	800
29.5 – 29	72	29	29	22 – 28	800
33.5 – 33	82	33	33	32 – 44	1200
33.25 – 35	84	35	33	32 – 38	1200
37.5 – 33	84	33	37	32 – 40	1400
37.25 – 35	88	35	37	36 – 40	1500
37.5 – 39	96	39	37	36 –44	2000
24 – 49	99	49	24	38 – 42	2000
27 – 40	102	49	27	42 – 48	2500
30 – 51	110	51	30	44 – 52	3700
36 – 51	120	51	36	50 – 58	4800
40 – 57	138	57	40	60	7200

DIMENSIONS IN INCHES
MANY OTHER SIZES AVAILABLE

FENDERS





A-SERIES

THROUGHOUT THE WORLD, MORE PEOPLE RELY ON OUR A SERIES THAN ALL OTHER BUOYS.

The A Series is the product that launched the Polyform story. This all-purpose product, with the signature "blue ropehold," has proven itself in the most adverse conditions. We've made a couple of changes to the legendary A-Series for 2001. There's a new size – the A-7, with more buoyancy than any other buoy in its class, and a redesigned ropehold. The new ropehold has been incorporated into the A-5, A-6, and A-7 and features stronger ribs, a larger eye that accepts a standard shackle, and a new "dual valve" inflation-deflation system. Marking gear in heavy seas is no easy task. That's why more fishermen use Polyform A Series than all other buoys combined. We've seen and heard the testimonials from our customers. You name the ocean, sea, or river, and the A Series has been there. Put your trust in Polyform's most versatile and well-known product.

MODEL	SIZE (IN) (DIA X LENGTH)	EYE DIAMETER	VOLUME	PIECES PER CARTON
A-0	8 x 11.5 in 20.3 x 29.2 cm	0.6 in 1.6 cm	1.6 gal 5.9 liter	20
A-1	11 x 15 in 27.9 x 38.1 cm	1.0 in 2.5 cm	3.5 gal 13.2 liter	10
A-2	14.5 x 19.5 in 36.8 x 49.5 cm	1.0 in 2.5 cm	8.2 gal 30.8 liter	10
A-3	17 x 23 in 43.2 x 58.4 cm	1.0 in 2.5 cm	14.5 gal 54.9 gal	10
A-4	20.5 x 27 in 52.1 x 68.6 cm	1.0 in 2.5 cm	22.5 gal 84.8 liter	10
A-5	27 x 36 in 68.6 x 91.4 cm	1.25 in 3.0 cm	47.6 gal 179.6 liter	5
A-6	34 x 44 in 86.4 x 111.8 cm	1.5 in 3.8 cm	95.1 gal 359.2 liter	3
A-7	39 x 54 in 99.1 x 137.2 cm	2 in 50.8 mm	161.6 gal 610.1 liter	2

F-SERIES

CLASSIC EUROPEAN TWIN-EYE STYLE FENDERS DESIGNED FOR THE MOST DEMANDING USE.

Polyform has been producing this fender for over 40 years and there is no comparison when it comes to quality, range of sizes and protection offered. The F Series fender has offered protection to the finest yachts and fishing vessels all over the world. Why? Because the owners and the captains of these prestigious boats know that they can rely on Polyform's F Series to offer the size, strength and dependability to protect their vessel from the rigors of the sea and weather. If you want the ultimate in protection for your boat, Polyform F Series is the only choice!

MODEL	SIZE (IN) (DIA X LENGTH)	EYE DIAMETER	PIECES PER CARTON
F-1	6 x 24 in 15.2 x 61 cm	0.7 in 1.9 cm	10
F-02	7.5 x 26 in 19.1 x 66 cm	0.7 in 1.9 cm	10
F-2	8.2 x 25 in 20.8 x 63.5 cm	0.9 in 2.3 cm	10
F-3	8.2 x 30 in 20.8 x 76.2 cm	0.9 in 2.3 cm	10
F-4	8.5 x 40.5 in 21.6 x 102.9 cm	0.9 in 2.3 cm	5
F-5	11 x 30 in 27.9 x 76.2 cm	1.0 in 2.4 cm	5
F-6	11 x 42 in 27.9 x 106.7 cm	1.0 in 2.4 cm	5
F-7	15 x 41 in 38.1 x 104.1 cm	1.0 in 2.4 cm	5
F-8	15 x 58 in 38.1 x 147.3 cm	1.0 in 2.4 cm	4
F-10	18 X 50 in 45.7 x 127 cm	1.0 in 2.4 cm	2
F-11	21.2 x 57.5 in 53.8 x 146.6 cm	1.1 in 2.7 cm	3
F-13	29 x 76.5 in 75.7 x 194.3 cm	1.2 in 3.0 cm	2

FOAM FILLED FENDERS



OCEAN CUSHION



OCEAN GUARD

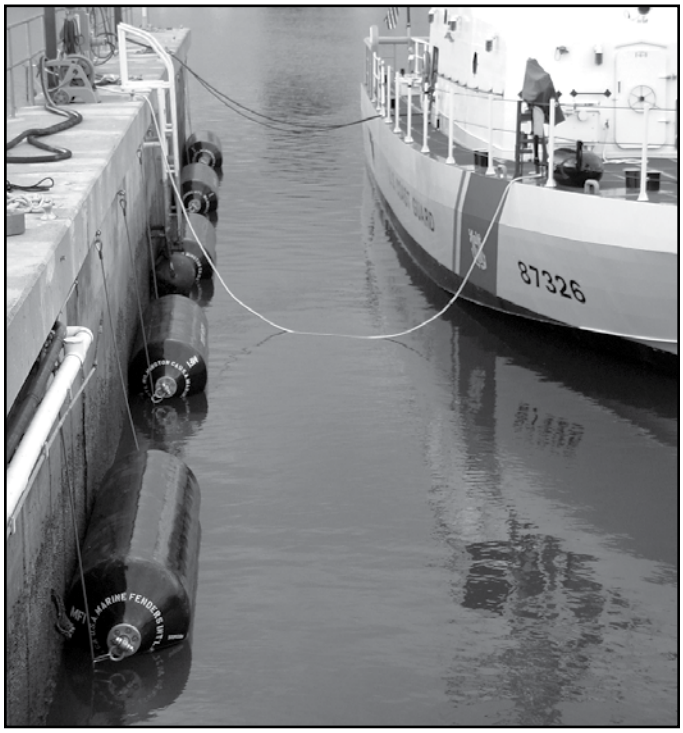
FOAM FILLED FENDERS

LOW MAINTENANCE

The design of the foam-filled Ocean Guard™ Netless Fender is highly resistant to environmental hazards such as extreme temperatures, hydrocarbons, fresh and salt water, ozone and ultraviolet radiation. The fender skin is even resistant to chemicals such as diesel fuels.

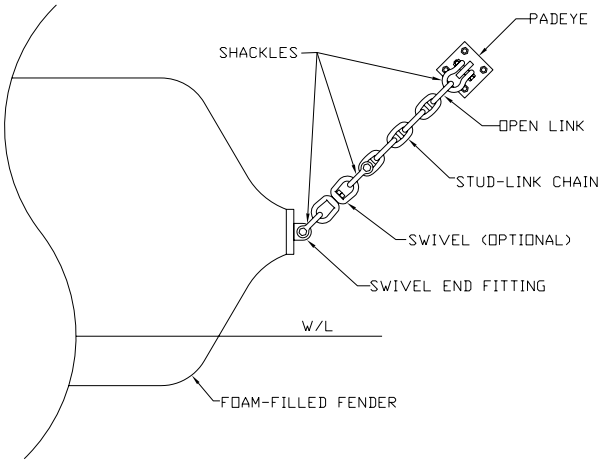
Additionally, since the internal construction consists of a solid heat laminated foam core, there is no need to maintain air pressure, inflation or relief values, as with pneumatic fenders.





INSTALLATION

Ocean Guard™ Netless Fenders are designed for easy installation. Their buoyant construction allows the option of a floating installation. The unique end fittings and ultra heavy duty internal chain are also ideal for a fixed hanging installation. Both installations can include a 2-point and 4-point mounting arrangement. Typical mounting hardware includes dock plate padeyes, anchor bolts, shackles, swivels and stud link chain.









CONSTRUCTION FEATURES

FOAM CORE

Construction begins with a resilient energy absorbing closed cell cross-linked polyethylene foam core which is heat laminated into one piece solid foam core. This heat lamination process produces a thermal bond between the layers of foam which is stronger than the foam itself, which, will not delaminate even under the most abusive berthing conditions. This ensures that the foam core construction of the fender will provide years of quality service and performance.

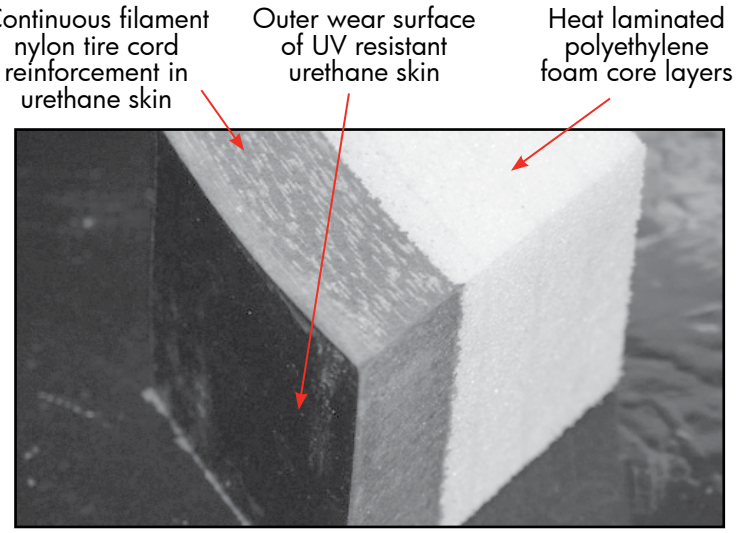
Because of this foam core, if punctured the fender will not experience a catastrophic failure as would pneumatic fenders.

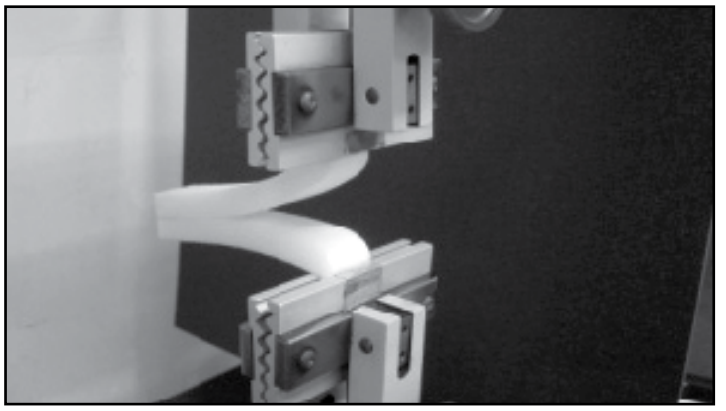
REINFORCED ELASTROMERIC SKIN

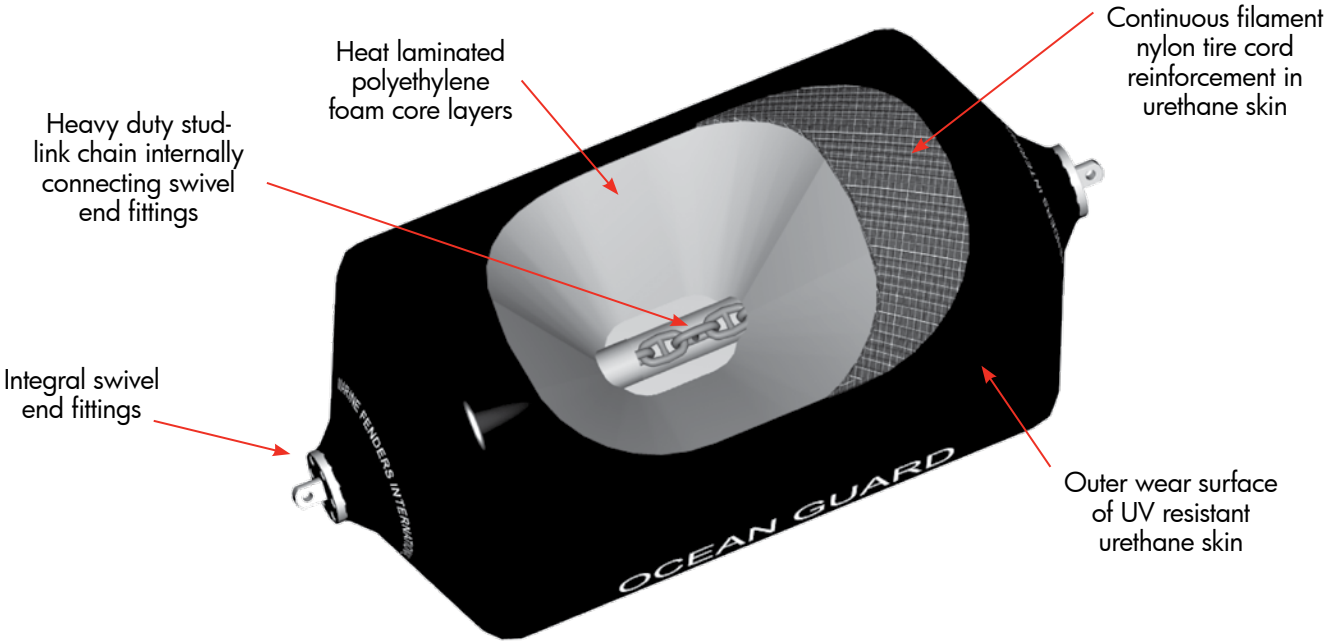
The energy absorbing foam core is protected by a tough thick filament nylon tire cord reinforced elastomer skin. This non-marking reinforced elastomer fender skin is the wear surface of the fender. The reinforcing filaments are continuously wound in a helix pattern through up to 90% of the elastomer skin and wrap around the fender swivel end fitting housings on each end of the fender. This continuous reinforcement of the elastomer skin not only increases the tensile and tear strength of the elastomer but also distributes loads through the fender skin.

Our elastomer skin exemplifies the latest in urethane technology. This tough resilient material is specially formulated to withstand the worlds harshest environment conditions providing superior performance in extreme temperatures, toxic environments, against hydrocarbons, salt water, ozone, and ultraviolet radiation. Its smooth sleek construction is not prone to snagging on dock or hull protrusions.

URETHANE SKIN AND ENERGY ABSORBING FOAM CORE CONSTRUCTION









FOAM FILLED FENDERS

OCEAN GUARD™ NETLESS

FENDERS		LOW REACTION				ENHANCED CAPACITY				STANDARD CAPACITY				ADVANCED CAPACITY				HIGH CAPACITY			
SIZE		ENERGY ABSORPTION		REACTION FORCE		ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORP-TION		REACTION FORCE	
ENGLISH	METRIC	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS
FT X FT	M X M																				
2 x 4	0.6 x 1.2	7	1	12	5	9	1	16	7	11	2	20	9	13	2	23	10	14	2	26	12
2 x 6	0.6 x 1.8	11	2	20	9	14	2	26	12	18	3	33	15	21	3	38	17	23	3	43	20
2 x 8	0.6 x 2.4	15	2	28	13	20	3	38	17	25	4	47	21	29	4	54	24	33	5	61	28
2 x 10	0.6 x 3.0	19	3	36	16	26	4	48	22	32	4	60	27	37	5	69	31	42	6	78	35
3 x 5	0.9 x 1.5	19	3	27	12	25	3	36	16	31	4	45	20	36	5	52	23	40	6	59	27
3 x 6	0.9 x 1.8	23	3	29	13	31	4	38	18	39	5	48	22	45	6	55	25	51	7	62	28
3 x 8	0.9 x 2.4	33	5	41	19	44	6	54	25	55	8	68	31	63	9	78	36	72	10	88	40
3 x 10	0.9 x 3.0	43	6	53	24	57	8	70	32	71	10	88	40	82	11	101	46	92	13	114	52
3 x 12	0.9 x 3.7	52	7	65	29	70	10	86	39	87	12	108	49	100	14	124	56	113	16	140	64
3 x 14	0.9 x 4.3	62	8	77	35	82	11	102	46	103	14	128	58	118	16	147	67	134	19	166	75
4 x 6	1.2x1.8	36	5	34	16	48	7	45	21	60	8	56	26	69	10	64	30	78	11	73	33
4 x 8	1.2 x 2.4	53	7	50	23	71	10	66	30	89	12	83	38	102	14	95	44	116	16	108	49
4 x 10	1.2 x 3.0	71	10	67	30	94	13	89	40	118	16	111	50	136	18	128	58	153	21	144	65
4 x 12	1.2 x 3.7	88	12	82	37	117	16	109	50	146	20	136	62	168	23	156	71	190	26	177	80
4 x 16	1.2 x 4.9	122	17	113	52	162	22	151	69	203	28	189	86	233	32	217	99	264	37	246	112
4 x 20	1.2 x 6.1	156	22	145	66	208	29	194	88	260	36	242	110	299	41	278	127	338	47	315	143
5 x 8	1.5 x 2.4	81	11	60	27	108	14	80	36	135	18	100	45	155	21	115	52	176	24	130	59
5 x 10	1.5 x 3.0	108	15	80	37	144	20	107	49	180	25	134	61	207	29	154	70	234	32	174	79
5 x 12	1.5 x 3.7	135	19	100	45	180	25	134	60	225	31	167	75	259	36	192	86	293	41	217	98
5 x 14	1.5 x 4.3	161	22	120	55	215	30	160	73	269	37	200	91	309	43	230	105	350	48	260	118
5 x 16	1.5 x 4.9	188	26	140	64	250	34	186	85	313	43	233	106	360	49	268	122	407	56	303	137
5 x 18	1.5 x 5.5	214	29	160	73	286	39	213	97	357	49	266	121	411	56	306	139	464	64	346	157
6 x 12	1.8 x 3.7	180	25	112	50	240	33	149	67	300	41	186	84	345	47	214	97	390	54	242	110
6 x 14	1.8 x 4.3	218	30	135	61	291	40	180	82	364	50	225	102	419	58	259	117	473	65	293	133
6 x 16	1.8 x 4.9	256	35	159	72	342	47	212	96	427	59	265	120	491	68	305	138	555	77	345	156
6 x 18	1.8 x 5.5	295	41	183	83	393	54	244	110	491	68	305	138	565	79	351	159	638	88	397	180
6 x 20	1.8 x 6.1	332	46	206	94	443	62	275	125	554	77	344	156	637	89	396	179	720	100	447	203
7 x 14	2.1 x 4.3	292	40	155	70	390	54	207	94	487	67	259	117	560	77	298	135	633	88	337	153
7 x 16	2.1 x 4.9	344	47	183	83	459	63	244	110	574	79	305	138	660	91	351	159	746	103	397	180
7 x 18	2.1 x 5.5	396	55	211	95	528	73	281	127	660	91	351	159	759	105	404	183	858	119	456	207
7 x 20	2.1 x 6.1	448	62	238	108	598	82	318	144	474	103	397	180	859	118	457	207	971	134	516	234
7 x 22	2.1 x 6.7	500	69	266	121	666	92	354	161	833	115	443	201	958	132	509	231	1083	150	576	261
8 x 12	2.4 x 3.7	319	44	148	67	425	58	197	89	531	73	246	111	611	84	283	128	690	95	320	145
8 x 14	2.4 x 4.3	371	51	173	78	495	68	230	104	619	85	288	130	712	98	331	150	805	111	374	170
8 x 16	2.4 x 4.9	440	61	205	93	586	81	273	124	733	101	341	155	843	116	392	178	953	132	443	201
8 x 18	2.4 x 5.5	508	70	236	107	678	94	315	143	847	117	394	179	974	135	453	206	1101	152	512	232
8 x 20	2.4 x 6.1	577	80	268	122	769	106	358	162	961	133	447	203	1105	153	514	233	1249	173	581	264
8 x 22	2.4 x 6.7	645	89	300	136	860	119	400	182	1075	149	50	227	1236	171	575	261	1398	193	650	295
9 x 14	2.7 x 4.3	467	65	193	88	623	86	258	117	779	108	322	146	896	124	370	168	1012	140	418	190
9 x 16	2.7 x 4.9	534	74	221	100	712	98	294	134	890	123	368	167	1024	141	423	192	1157	160	478	217
9 x 18	2.7 x 5.5	619	86	256	116	826	114	342	155	1032	143	427	194	1187	164	491	223	1342	186	555	252
9 x 20	2.7 x 6.1	705	98	292	132	940	130	389	176	1175	163	486	220	1351	187	559	252	1528	211	632	287
9 x 22	2.7 x 6.7	791	109	327	148	1054	146	436	198	1318	182	545	247	1516	209	627	284	1713	237	709	322
10 x 16	3.0 x 4.9	649	90	241	109	865	120	322	146	1081	150	402	182	1243	173	462	209	1405	194	523	237
10 x 18	3.0 x 5.5	755	104	281	127	1006	139	374	170	1258	174	468	212	1447	200	538	244	1635	226	608	276
10 x 20	3.0 x 6.1	861	119	320	145	1148	158	427	194	1435	198	534	242	1650	228	614	278	1866	258	694	315
10 x 22	3.0 x 6.7	967	134	360	163	1290	178	480	218	1612	223	600	272	1854	256	690	313	2096	290	780	354
10 x 24	3.0 x 7.3	1087	150	404	184	1449	200	539	245	1811	250	674	306	2083	288	775	352	2286	316	850	386
11 x 18	3.4 x 5.5	889	131	301	159	1186	175	401	212	1482	219	501	265	1704	252	576	305	1927	267	651	295
11 x 20	3.4 x 6.1	1018	145	344	167	1657	193	458	223	1696	241	573	279	1950	277	659	321	2141	296	745	338
11 x 22	3.4 x 6.7	1146	158	388	176	1528	211	517	234	1910	264	646	293	2197	304	743	337	2483	343	840	381
11 x 24	3.4 x 7.3	1250	173	422	191	1666	230	563	255	2083	288	704	319	2395	331	810	367	2709	375	916	415
12 x 20	3.7 x 6.1	1298	179	425	193	1730	239	566	257	2163	299	708	321	2487	344	814	369	2812	389	920	417
12 x 24	3.7 x 7.3	1557	215	510	231	2076	286	680	308	2595	358	850	385	2984	412	978	443	3374	467	1105	501
13 x 26	4.0 x 7.9	1944	269	591	268	2592	358	788	358	3240	448	985	447	3726	515	1133	514	4212	583	1281	581
14 x 28	4.3 x 8.5	2400	332	678	308	3200	442	904	410	4000	553	1130	513	4600	636	1300	590	5200	719	1469	665

* Actual values for above sizes may vary +/- 15% due to variations in materials, speed of compression, temperatures and tolerances. Performance based on 60% compression.

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OCEAN GUARD™ NETLESS FOAM FILLED FENDERS

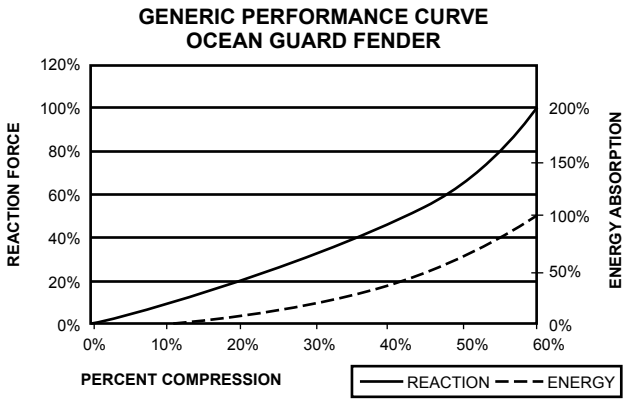
ADVANCED HIGH CAPACITY				EXTRA HIGH CAPACITY				ADVANCED EXTRA HIGH CAPACITY				SUPER HIGH CAPACITY				ADVANCED SUPER HIGH CAPACITY				ULTRA HIGH CAPACITY				FENDER	
ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORP-TION		REACTION FORCE		SAFE WORKING END PULL LOAD	
FT - KIPS	TON-M	KIPS	TONS	FT - KIPS	TON-M	KIPS	TONS	FT - KIPS	TON-M	KIPS	TONS	FT - KIPS	TON-M	KIPS	TONS	FT - KIPS	TON-M	KIPS	TONS	FT - KIPS	TON-M	KIPS	TONS	KIPS	KN
18	2	32	14	21	3	38	17	25	3	45	20	29	4	52	24	33	5	60	27	37	5	68	31	9.5	42
29	4	53	24	34	5	63	29	41	6	74	34	47	7	86	39	54	8	99	45	61	9	112	51	9.5	42
40	6	75	34	48	7	89	40	56	8	106	47	65	9	122	55	75	11	141	63	85	12	160	71	9.5	42
51	7	96	43	61	9	114	52	72	10	135	61	83	11	156	71	96	13	180	81	109	15	204	92	9.5	42
50	7	72	32	59	9	86	39	70	10	101	45	81	11	117	53	93	13	135	60	105	15	153	68	9.5	42
62	9	77	35	71	10	91	41	88	12	108	50	101	14	125	57	117	16	144	66	133	18	163	75	9.5	42
88	12	109	50	105	15	129	59	124	17	153	70	143	20	177	80	165	23	204	93	187	26	231	105	17.0	76
114	16	141	64	135	19	167	76	160	22	198	90	185	26	229	104	213	29	264	120	241	33	299	136	17.0	76
139	19	173	78	165	23	205	93	196	27	243	110	226	31	281	127	261	36	324	147	296	41	367	167	17.0	76
165	22	205	93	196	27	243	110	232	32	288	131	268	37	333	151	309	42	384	174	350	48	435	197	17.0	76
96	13	90	42	114	16	106	48	135	19	126	59	156	22	146	66	180	25	168	78	204	29	190	88	17.0	76
142	19	133	61	169	23	158	72	200	27	187	86	231	32	216	98	267	36	249	114	303	41	282	129	17.0	76
189	26	178	80	224	31	211	96	266	36	250	113	307	42	289	131	354	48	333	150	401	54	377	170	17.0	76
234	32	218	99	277	38	258	117	329	45	306	140	380	53	354	161	438	60	408	186	496	68	462	211	24.0	107
325	45	305	138	386	53	359	163	457	63	425	194	528	73	491	223	609	84	567	258	690	95	643	292	34.0	151
416	58	387	176	494	68	460	209	585	81	545	248	676	93	629	285	780	108	726	330	884	122	823	374	34.0	151
216	29	160	72	257	36	190	86	304	41	255	101	351	49	260	118	405	54	300	135	459	61	340	153	17.0	76
288	40	214	98	342	47	255	116	405	56	302	137	468	65	348	158	540	75	402	183	612	85	456	207	24.0	107
260	50	267	120	428	59	317	144	506	70	376	169	585	81	434	197	675	93	501	225	765	105	568	255	24.0	107
430	59	320	146	511	71	380	172	605	83	450	205	699	97	520	236	807	111	600	273	915	126	680	309	34.0	151
501	69	373	170	595	82	443	201	704	97	524	239	814	113	606	275	939	129	699	318	1064	146	792	360	34.0	151
571	78	426	194	678	94	505	229	803	110	599	272	928	128	692	314	1071	147	798	363	1214	167	904	411	50.0	222
480	66	298	134	570	79	353	160	675	92	419	189	780	108	484	220	900	123	558	252	1020	139	632	286	34.0	151
582	80	360	163	690	96	428	194	819	113	506	230	946	131	585	265	1092	150	675	306	1238	170	765	347	34.0	151
683	94	424	192	811	112	504	229	961	133	596	270	1110	154	689	313	1281	177	795	360	1452	201	901	408	50.0	222
786	109	488	221	933	129	580	263	1105	153	686	311	1277	177	793	360	1473	204	915	414	1669	231	1037	469	70.0	311
886	123	550	250	1053	146	654	297	1247	173	774	351	1440	199	894	406	1662	231	1032	468	1884	262	1170	530	70.0	311
779	107	414	187	925	128	482	223	1096	151	583	263	1266	175	673	305	1461	201	777	351	1656	228	881	398	50.0	222
918	126	488	221	1091	151	580	263	1292	178	686	311	1492	206	793	360	1722	237	915	414	1952	269	1037	469	50.0	222
1056	146	562	254	1254	173	667	303	1485	205	790	358	1716	237	913	414	1980	273	1053	477	2244	309	1193	541	70.0	311
1195	165	635	288	1419	196	754	342	1681	232	893	405	1942	269	1032	468	2241	309	1191	540	2540	350	1350	612	70.0	311
1333	184	709	322	1583	219	842	382	1874	259	997	452	2166	300	1152	523	2499	345	1329	603	2832	391	1506	683	70.0	311
850	117	394	178	1008	139	468	212	1195	164	554	250	1379	191	642	291	1593	219	738	333	1805	248	836	377	70.0	311
990	136	461	208	1176	163	547	248	1393	191	648	293	1609	233	749	340	1857	255	864	390	2105	289	979	442	70.0	311
1173	162	546	248	1393	193	648	294	1649	277	767	349	1906	264	887	402	2199	303	1023	465	2492	343	1159	527	70.0	311
1355	187	630	286	1609	223	749	340	1906	263	887	403	2202	305	1024	464	2541	351	1182	537	2880	398	1340	609	70.0	311
1538	213	715	325	1826	253	849	385	2162	299	1006	457	2499	346	1162	527	2883	399	1341	609	3267	452	1520	690	70.0	311
1720	138	800	363	2043	283	950	431	2419	335	1125	511	2795	387	1300	590	3225	447	1500	681	3655	507	1700	772	110.0	489
1246	173	515	234	1480	205	611	277	1753	243	725	329	2025	280	837	380	2337	342	966	438	2649	367	1095	496	70.0	311
1424	197	589	267	1691	234	688	317	2003	277	828	376	2314	320	957	434	2670	369	1104	501	3026	418	1251	568	70.0	311
1651	229	683	310	1961	271	811	368	2322	322	961	437	2683	371	1110	503	3096	429	1281	582	3509	486	1452	660	70.0	311
1880	261	778	352	2233	309	923	419	2644	367	1094	495	3055	423	1264	573	3525	489	1458	660	3995	554	1652	748	110.0	489
2109	291	872	395	2504	346	1036	470	2966	410	1226	556	3427	474	1417	643	3954	546	1635	741	4481	619	1853	840	110.0	489
1730	240	643	291	2054	284	764	347	2432	338	905	410	2811	389	1045	474	3243	450	1206	546	3675	510	1367	619	70.0	311
2013	278	749	339	2390	331	889	403	2831	392	1053	477	3271	452	1217	552	3774	522	1404	636	4277	592	1591	721	70.0	311
2296	317	854	387	2727	377	1015	460	3229	446	1202	545	3731	516	1388	630	4305	594	1602	726	4879	673	1816	823	110.0	489
2579	357	960	436	3065	424	1140	517	3627	502	1350	612	4191	580	1560	708	4836	669	1800	816	5481	758	2040	925	110.0	489
2898	400	1078	490	3341	462	1244	564	4075	563	1517	689	4572	632	1702	772	5433	750	2022	918	6157	850	2292	1040	110.0	489
2371	350	802	424	2816	389	952	432	3335	493	1127	596	3853	533	1303	591	446	657	1503	795	5039	754	1703	901	110.0	489
2714	386	917	446	3223	446	1090	494	3816	542	1289	628	4410	610	1491	676	5088	723	1719	837	5766	819	1948	949	110.0	489
3056	422	1034	469	3629	502	1227	557	4298	594	1454	659	4966	687	1680	762	5730	792	1938	879	6494	898	2196	996	110.0	489
3333	461	1126	510	3959	548	1338	607	4687	648	1584	718	5418	749	1832	831	6249	864	2112	957	7082	979	2394	1085	110.0	489
3461	478	1133	514	4109	568	1346	611	4867	673	1593	722	5623	778	1841	835	6489	897	2124	963	7354	1017	2407	1091	110.0	489
4152	573	1360	616	4931	682	1615	733	5839	806	1913	866	6747	933	2210	1002	7785	1074	2550	1155	8823	1217	2890	1309	110.0	489
5184	717	1576	715	6156	815	1872	849	7290	1088	2216	1006	8424	1165	2561	1162	9720	1344	2955	1341	11016	1523	3349	1520	110.0	489
6400	885	1808	821	7600	1051	2147	974	9000	1244	2543	1154	10400	1438	2938	1333	12000	1659	3390	1539	13600	1880	3842	1744	110.0	489

* Actual values for above sizes may vary +/- 15% due to variations in materials, speed of compression, temperatures and tolerances. Performance based on 60% compression.

OCEAN GUARD™ NETLESS

FENDERS		LOW REACTION				ENHANCED CAPACITY				STANDARD CAPACITY				ADVANCED CAPACITY				HIGH CAPACITY			
SIZE		ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE		ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE	
METRIC	ENGLISH																				
M X M	FT X FT	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS
0.7 x 1.5	2.3 x 4.9	11	2	18	8	15	2	24	11	19	3	30	14	22	3	35	16	25	3	39	18
0.7 x 2.0	2.3 x 6.5	17	2	27	12	23	3	35	16	28	4	44	20	22	5	51	23	33	5	52	24
0.7 x 3.0	2.3 x 9.8	29	4	46	21	39	5	61	28	49	7	77	35	33	8	88	40	50	7	78	35
1.0 x 1.5	3.3 x 4.9	21	3	18	8	28	4	31	14	35	5	39	18	56	6	45	20	46	6	51	23
1.0 x 2.0	3.3 x 6.5	30	4	34	15	40	6	46	21	50	7	57	26	40	8	66	30	65	9	74	34
1.0 x 3.0	3.3 x 9.8	53	7	58	26	71	10	78	35	89	12	97	44	58	14	112	51	75	10	86	74
1.2 x 2.0	3.9 x 6.5	40	6	38	17	54	7	50	23	67	9	63	29	102	11	72	33	87	12	82	37
1.2 x 2.5	3.9 x 8.2	56	8	52	23	75	10	69	31	94	13	86	39	77	15	99	45	109	15	103	46
1.35 x 2.5	4.4 x 8.2	67	9	56	25	90	12	75	34	112	15	94	43	108	18	108	49	146	20	122	55
1.35 x 3.0	4.4 x 9.8	86	12	71	32	115	16	94	43	144	20	118	54	166	23	136	62	175	24	146	66
1.5 x 3.0	4.9 x 9.8	103	14	78	35	137	19	104	47	171	24	130	59	197	27	150	68	222	31	169	77
1.7 x 3.0	5.6 x 9.8	125	17	83	38	166	23	111	50	208	29	139	63	239	33	160	73	270	37	181	82
1.7 x 4.5	5.6 x 14.7	212	29	139	63	283	39	186	84	354	49	232	105	407	56	267	121	360	50	241	109
2.0 x 3.5	6.5 x 11.5	201	28	114	52	268	37	152	69	335	46	190	86	385	53	219	99	436	60	247	112
2.0 x 4.0	6.5 x 13.1	239	33	136	62	318	44	181	82	398	55	226	103	458	63	260	118	517	72	294	133
2.0 x 4.5	6.5 x 14.7	276	38	157	71	368	51	209	95	460	64	261	118	529	73	300	136	598	83	339	154
2.5 x 4.0	8.2 x 13.1	335	46	161	73	473	65	215	98	591	82	269	122	680	94	309	140	768	106	350	159
2.5 x 4.5	8.2 x 16.4	398	55	181	82	530	73	241	109	663	92	301	137	762	105	346	157	1046	145	475	215
2.5 x 5.5	8.2 x 18.0	531	73	241	109	708	98	322	146	885	122	402	182	1018	141	462	210	1151	159	523	237
3.0 x 4.9	9.8 x 16.0	633	88	239	108	844	117	271	123	1055	146	339	154	1213	168	390	177	1372	190	519	235
3.0 x 6.0	9.8 x 19.7	819	113	310	141	1092	151	413	187	1365	189	516	234	1570	217	593	269	1775	245	671	304
3.0 x 7.0	9.8 x 23.0	973	135	367	166	1297	179	489	222	1621	224	611	277	1864	258	703	319	1923	266	727	330
3.3 x 4.5	10.8 x 14.7	663	92	228	103	884	122	304	138	1105	153	380	172	1271	176	437	198	1437	199	494	224
3.3 x 6.5	10.8 x 21.3	1072	148	368	167	1429	198	491	223	1786	247	614	279	2054	284	706	320	2322	321	798	362
3.3 x 8.5	10.8 x 27.9	1498	207	516	234	1997	276	688	312	2496	345	860	390	2870	397	989	449	2323	321	799	362
3.3 x 10.6	10.8 x 34.8	1909	264	656	298	2545	352	875	397	3181	440	1094	496	3658	506	1258	571	4135	572	1422	645

FENDER PRESSURE AT 60% DEFLECTION			
CAPACITY	ENGLISH UNITS KIPS/SQ FT	METRIC UNITS TONS/SQ METER	METRIC UNITS KN/SQ METER
Low Reaction	2.2	10.6	104
Enhanced	2.9	14.1	138
Standard	3.6	17.6	172
Advanced	4.1	20.2	198
High Capacity	4.7	22.9	224
Advanced High	5.8	28.2	276
Extra High Capacity	6.8	33.4	327
Advanced Extra High	8.1	39.6	388
Super High Capacity	9.4	45.7	449
Advanced Super High	10.8	52.7	517
Ultra High	12.2	59.7	586





* Actual values for above sizes may vary +/- 15% due to variations in materials, speed of compression, temperatures and tolerances. Performance based on 60% compression.

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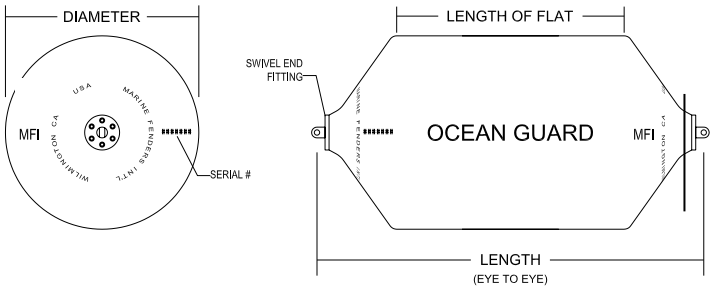
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OCEAN GUARD™ NETLESS

ADVANCED HIGH CAPACITY				EXTRA HIGH CAPACITY				ADVANCED EXTRA HIGH CAPACITY				SUPER HIGH CAPACITY				ADVANCED SUPER HIGH CAPACITY				ULTRA HIGH CAPACITY				FENDER	
ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORP-TION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE		SAFE WORKING END PULL LOAD	
FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS	KIPS	KN
30	4	48	22	36	5	57	26	43	6	68	31	49	7	78	35	57	8	90	41	65	9	102	46	10	42
45	6	71	32	48	7	76	34	64	9	100	45	65	9	104	47	85	12	133	60	96	13	151	68	10	42
79	11	123	56	72	10	114	52	110	15	173	78	98	14	156	71	147	20	230	105	167	23	261	118	10	42
56	8	62	28	67	9	74	34	79	11	88	40	91	13	123	56	105	15	117	53	119	16	133	60	10	42
80	11	91	41	95	13	108	49	113	16	128	58	130	18	148	67	150	21	17	78	170	24	194	88	10	42
142	20	155	70	75	10	86	39	200	28	218	99	75	10	86	39	267	37	291	132	303	42	330	150	10	42
107	15	101	46	127	18	120	54	151	21	142	64	174	24	164	74	201	28	189	86	228	32	214	97	17	76
150	21	138	62	159	22	150	68	212	29	194	88	218	30	205	93	282	39	258	117	320	44	292	133	17	76
179	25	150	68	213	29	179	81	252	35	212	96	291	40	244	111	336	46	282	128	381	53	320	145	17	76
230	32	189	86	256	35	215	97	324	45	266	120	349	48	293	133	432	60	354	161	490	68	401	182	17	76
274	38	208	91	325	45	247	112	385	53	293	133	445	62	338	153	513	71	390	177	581	80	442	200	24	107
333	46	222	101	395	55	264	120	468	65	313	142	541	75	361	164	624	86	417	189	707	98	473	214	24	107
566	78	371	168	527	73	352	160	797	110	522	237	721	100	481	218	1062	147	696	316	1204	166	789	358	24	107
536	74	304	138	637	88	361	164	754	104	428	194	871	120	494	224	1005	139	570	259	1139	158	646	293	34	151
637	88	362	164	756	105	429	195	896	124	509	231	1035	143	588	267	1194	165	678	308	1353	187	768	349	34	151
736	102	418	189	874	121	496	225	1035	143	587	266	1196	165	679	308	1380	191	783	355	1564	216	887	403	50	222
946	131	430	195	1123	155	511	232	1330	184	605	275	1573	213	699	317	1773	245	807	366	2009	278	915	415	70	311
1061	148	482	218	1529	211	694	315	1492	206	677	307	2091	289	950	431	1989	275	903	410	2254	312	1023	464	70	311
1416	196	643	292	1682	233	764	347	1991	275	905	410	2301	318	1045	474	2655	367	1206	547	3009	416	1367	620	70	311
1688	233	542	246	2005	277	758	344	2374	328	763	346	2743	379	1037	470	3165	438	1017	461	3587	496	1153	523	70	311
2184	302	826	374	2594	359	980	445	3071	425	1161	527	3549	491	1342	609	4095	566	1548	702	4641	642	1754	796	110	489
2594	359	978	443	2810	389	1062	482	3647	504	1375	624	3845	532	1454	659	4863	673	1833	831	5511	762	2077	942	110	489
1768	245	608	276	2100	290	722	327	2486	344	855	388	2873	397	988	448	3315	458	1140	517	3757	520	1292	586	110	489
2858	395	982	446	3393	469	1167	529	4019	556	1382	627	4644	642	1596	724	5358	741	1842	836	6072	840	2088	947	110	489
3994	552	1376	624	3394	469	1168	530	5616	777	1935	878	4645	642	1597	724	7488	1036	2580	1170	8486	1174	2924	1326	110	489
5090	704	1750	794	6044	836	2079	943	7157	990	2462	1117	8271	1144	2844	1290	9543	1320	3282	1489	10815	1496	3720	1687	110	489

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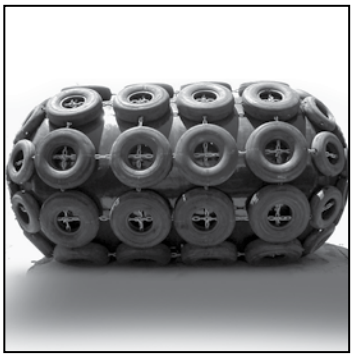
















OCEAN CUSHION™ STANDARD CAPACITY FOAM FILLED FENDER

WITH CHAIN & AIRCRAFT TIRE NETS

ENGLISH SIZES											
FENDERS		STAND OFF		STANDARD CAPACITY				HIGH CAPACITY			
SIZE		DIAMETER UNCOMPRESSED		ENERGY ABSORPTION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE	
ENGLISH	METRIC										
FT X FT	M X M	FT	M	FT -KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS
3 x 6	0.92 x 1.83	4.1	1.2	36	5	55	25	52	7	79	36
4 x 6	1.22 x1.83	5.3	1.6	65	9	72	33	94	13	103	47
4 x 8	1.22 x 2.44	5.3	1.6	85	12	98	44	123	17	138	63
5 x 10	1.53 x 3.05	6.5	2.0	165	23	152	69	239	33	214	97
5 x 16	1.53 x 4.88	6.5	2.0	259	36	240	109	375	52	338	153
6 x 12	1.83 x 3.66	7.5	2.3	295	41	217	98	428	59	306	139
7 x 14	2.13 x 4.27	8.5	2.6	450	62	260	118	652	90	366	166
8 x 12	2.44 x 3.66	9.8	3.0	465	64	268	122	674	93	377	171
8 x 16	2.44 x 4.88	9.8	3.0	662	95	380	172	959	133	535	243
9 x 14	2.75 x 4.27	10.8	3.3	730	101	373	169	1058	146	525	238
9 x 18	2.75 x 5.49	10.8	3.3	937	130	480	218	1358	188	676	307
10 x 16	3.05 x 4.88	11.8	3.6	976	135	450	204	1414	196	634	287
10 x 20	3.05 x 6.10	11.8	3.6	1286	179	590	268	1864	258	831	377
11 x 18	3.35 x 5.49	12.8	3.9	1386	192	581	264	2009	278	818	371
11 x 22	3.35 x 6.71	12.8	3.9	1697	235	711	323	2459	340	1001	454
12 x 24	3.70 x 7.30	13.8	4.2	2196	304	844	383	3183	440	1189	539
13 x 26	3.96 x 7.90	14.8	4.5	2785	385	987	448	4036	558	1390	631
14 x 28	4.27 x 8.53	15.8	4.8	3421	473	1128	512	4958	686	1589	721

PERFORMANCE AT 60% COMPRESSION

ENGLISH SIZES											
FENDERS		STAND OFF		STANDARD CAPACITY				HIGH CAPACITY			
SIZE		DIAMETER UNCOMPRESSED		ENERGY ABSORPTION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE	
METRIC	ENGLISH										
M X M	FT X FT	FT	M	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS
1.00 x 1.50	3.3 x 4.9	4.4	1.3	35	5	50	23	50	7	71	32
1.00 x 2.00	3.3 x 6.6	4.4	1.3	49	7	67	30	71	10	96	43
1.20 x 2.00	3.9 x 6.6	5.3	1.6	64	9	76	34	93	13	107	49
1.20 x 2.50	3.9 x 8.2	5.3	1.6	80	11	94	43	116	16	132	60
1.35 x 2.50	4.4 x 8.2	5.9	1.8	103	14	108	49	150	21	152	69
1.35 x 4.00	4.4 x 13.1	5.9	1.8	165	23	172	478	239	33	242	110
1.50 x 3.00	4.9 x 9.8	6.4	2.0	156	22	146	66	226	31	206	93
1.70 x 3.00	5.6 x 9.8	7.1	2.2	196	27	162	73	284	39	227	103
1.70 x 4.50	5.6 x 14.8	7.1	2.2	297	41	244	111	430	60	344	156
2.00 x 3.50	6.6 x 11.5	8.1	2.5	318	44	222	101	461	64	313	142
2.00 x 4.00	6.6 x 13.1	8.1	2.5	371	51	259	117	538	74	365	165
2.20 x 4.50	7.2 x 14.8	8.7	2.7	500	69	321	146	725	100	452	205
2.20 x 5.50	7.2 x 18.0	8.7	2.7	609	84	390	177	883	122	549	249
2.50 x 4.00	8.2 x 13.1	10.0	3.0	542	75	305	138	786	109	430	195
2.50 x 5.50	8.2 x 18.0	10.0	3.0	793	110	447	203	1149	159	629	285
3.00 x 6.00	9.8 x 19.7	11.6	3.5	1213	168	571	259	1758	243	804	365
3.30 x 4.50	10.8 x 14.8	12.6	3.8	1010	140	430	195	1464	202	606	275
3.30 x 6.50	10.8 x 21.3	12.6	3.8	1581	219	675	306	2291	317	9511	431
3.30 x 10.6	10.8 x 34.8	12.6	3.8	2774	384	1185	538	4020	556	1669	757
4.20 x 8.40	13.8 x 27.6	15.6	4.8	3325	460	1110	503	4819	666	1563	709

PERFORMANCE AT 60% COMPRESSION

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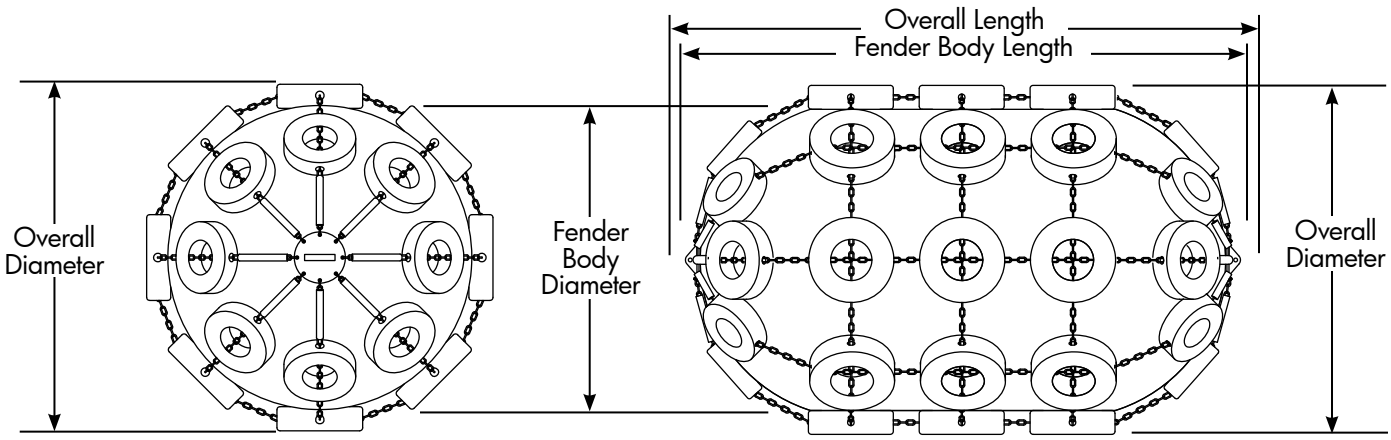
Ocean Cushion foam filled fenders are also available in other sizes and capacity models, Low Reaction, High, Extra High, and Super High Capacity.

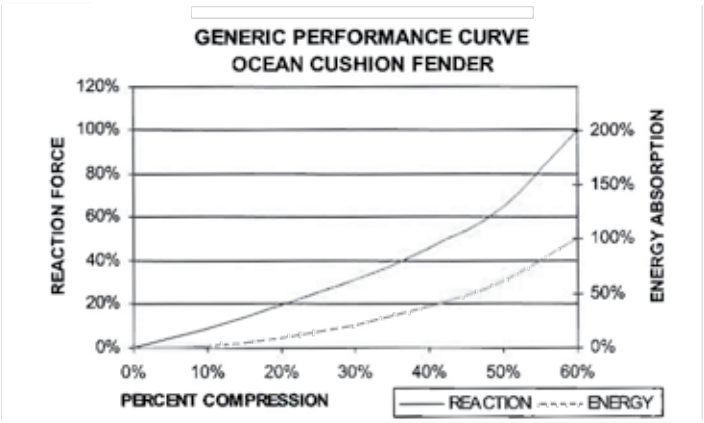
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FOAM FILLED FENDERS









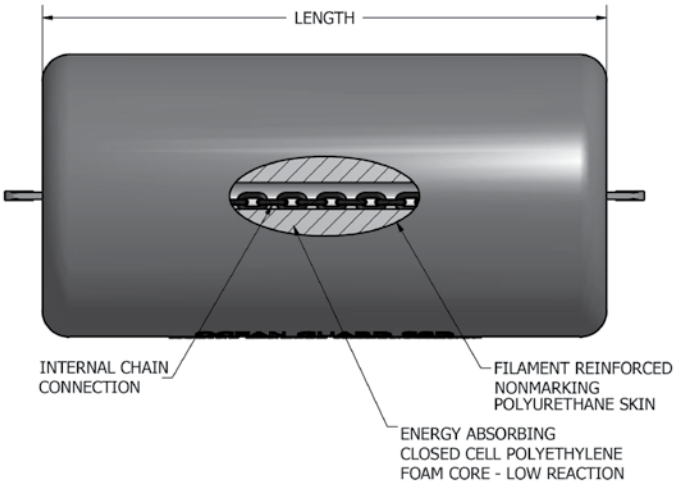
OCEAN GUARD™ SMALL STANDARD DUTY FOAM FILLED FENDER

Ocean Guard™ Small Standard Duty (SSD) & Ocean Guard™ Small Standard Duty with Hawse Pipe fitting (SSD-HP) foam filled marine fenders are designed for quick and convenient use. SSD fenders compact sizes are ideal for the limited storage space available on board of Naval and Commercial Vessels. Their lightweight allows for easy installation and can be handled by one or two people.

OCEAN GUARD™ SMALL STANDARD DUTY (SSD)

SSD fenders are constructed in accordance with US Navy Technical Specifications. They are built with the same quality construction and materials as OCEAN GUARD™ fenders.

- Lightweight heat laminated closed cell resilient energy absorbing foam core
- Tough non-marking nylon Tire Cord reinforced urethane elastomeric skin
- Integral end fittings either stainless steel or galvanized
- Optional internal through chain

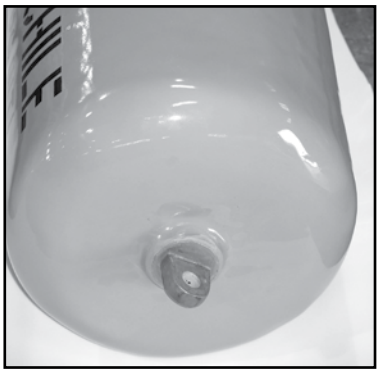














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OCEAN GUARD™ SSD FOAM FILLED FENDERS

FENDERS SIZE		LOW REACTION				ENHANCED CAPACITY				STANDARD CAPACITY				HARDWARE	
		ENERGY ABSORPTION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE		SHACKLE SIZE	
ENGLISH	METRIC														
IN X IN	MM X MM	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS	TONS	INCHES
16 x 24	400 x 600	1.7	0.2	10.8	4.9	2.2	0.3	14.4	6.5	2.8	0.4	18.0	8.2	0.5	13
16 x 36	400 x 900	3.2	0.4	12.0	5.4	4.2	0.6	16.0	7.3	5.3	0.7	20.0	9.1	0.5	13
18 x 36	457 x 900	4.1	0.6	12.4	5.6	5.4	0.8	16.6	7.5	6.8	0.9	20.7	9.4	0.5	13
20 x 36	500 x 900	4.9	0.7	13.6	6.2	6.6	0.9	18.1	8.2	8.2	1.1	22.6	10.3	0.5	13
20 x 39	500 x 1000	5.3	0.7	14.7	6.7	7.0	1.0	19.6	8.9	8.8	1.2	24.5	11.1	0.5	13
20 x 48	500 x 1200	6.6	0.9	18.0	8.2	8.8	1.2	24.0	10.9	11.0	1.5	30.0	13.6	0.5	13
22 x 48	558 x 1200	7.3	1.0	19.8	9.0	9.8	1.3	26.4	12.0	12.2	1.7	33.0	15.0	0.5	13
24 x 36	600 x 900	6.3	0.9	14.7	6.7	8.4	1.2	19.6	8.9	10.5	1.5	24.5	11.1	0.5	13
24 x 48	600 x 1200	8.4	1.2	19.2	8.7	11.2	1.5	25.6	11.6	14.0	1.9	32.0	14.5	0.5	13
32 x 50	800 x 1270	16.8	2.3	64.8	29.1	22.4	3.1	86.4	38.8	28.0	3.9	108.0	48.5	0.625	16
36 x 48	900 x 1200	20.4	2.8	31.2	14.2	27.2	3.8	41.6	18.9	34.0	4.7	52.0	23.6	0.625	16
36 x 60	900 x 1500	25.0	3.5	39.0	17.7	33.3	4.6	52.0	23.6	41.6	5.8	65.0	29.5	0.625	16
36 x 72	900 x 1828	32.0	4.4	50.0	22.7	42.6	5.9	66.6	30.2	53.3	7.4	83.3	37.8	0.625	16
39 x 60	1000 x 1500	30.0	4.1	42.0	19.1	40.0	5.5	56.0	25.4	50.0	6.9	70.0	31.8	0.625	16
40 x 60	1016 x 1500	31.2	4.3	43.7	19.8	41.6	5.8	58.2	26.4	52.0	7.2	72.8	33.0	0.625	16

OCEAN GUARD™ SMALL STANDARD DUTY WITH HAWSE PIPE (SSD-HP)

SSD-HP fenders are constructed equivalent to our OCEAN GUARD™ Small Standard Duty (SSD) foam filled fenders, with the exception that they are constructed with a heavy duty thru pipe – Hawse pipe instead of pad eye end fittings.

- Standard denser heat laminated closed cell resilient energy absorbing foam core
- Tough non-marking nylon Tire Cord reinforced urethane elastomeric skin
- Hawse pipe (thru pipe) construction







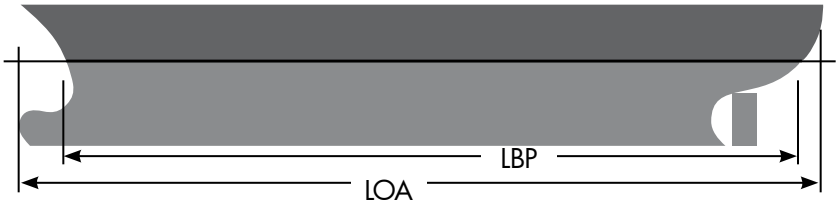


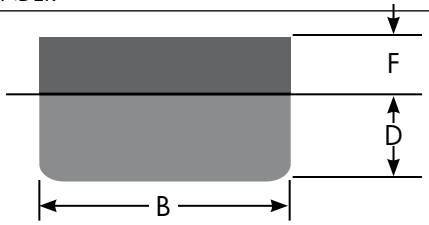
* Actual values for above sizes may vary +/- 15% due to variations in materials, speed of compression, temperatures and tolerances. Performance based on 60% compression.

FOAM FILLED FENDERS

PROJECT REQUIREMENTS

PROJECT DETAILS	PROJECT STATUS
PORT	MFI REF:
PROJECT DETAILS	☐ PRELIMINARY
CONSULTANT	☐ DETAIL DESIGN
CONTRACTOR	☐ TENDER





LARGEST VESSEL	SMALLEST VESSEL
VESSEL TYPE	VESSEL TYPE
DEAD WEIGHT TONNAGE (DWT) (t)	DEAD WEIGHT TONNAGE (DWT) (t)
GROSS TONNAGE (GT) (t)	GROSS TONNAGE (GT) (t)
DISPLACEMENT (DISP) (t)	DISPLACEMENT (DISP) (t)
LENGTH OVERALL (LOA) (m)	LENGTH OVERALL (LOA) (m)
LENGTHS BETWEEN PERPS (LBP) (m)	LENGTHS BETWEEN PERPS (LBP) (m)
BEAM (B) (m)	BEAM (B) (m)
DRAFT (D) (m)	DRAFT (D) (m)
FREEBOARD (F) (m)	FREEBOARD (F) (m)
HULL PRESSURE (P) (t/m2)	HULL PRESSURE (P) (t/m2)

BERTH DETAILS

☐ CLOSED STRUCTURE ☐ SEMI-OPEN STRUCTURE ☐ OPEN STRUCTURE ☐ CORNER PROTECTION/ TURNING DOLPHIN



STRUCTURE	TIDE LEVELS
LENGTH OF BERTH (m)	TIDAL RANGE (m)
FENDER / DOLPHIN SPACING (m)	HIGHEST RECORDED TIDE (HRT) (m)
PERMITTED FENDER REACTION (kN/m)	HIGHEST ASTRONOMIC TIDE (HAT) (m)
QUAY LEVEL (m)	MEAN HIGH WATER SPRING (MHWS) (m)
COPE THICKNESS (m)	MEAN SEA LEVEL (MSL) (m)
SEABED LEVEL (m)	MEAN LOW WATER SPRING (MLWS) (m)
SEABED COMPOSITION	LOWEST ASTRONOMIC TIDE (LAT) (m)
STANDOFF max min (m)	LOWEST RECORDED TIDE (LRT) (m)

REFERENCES

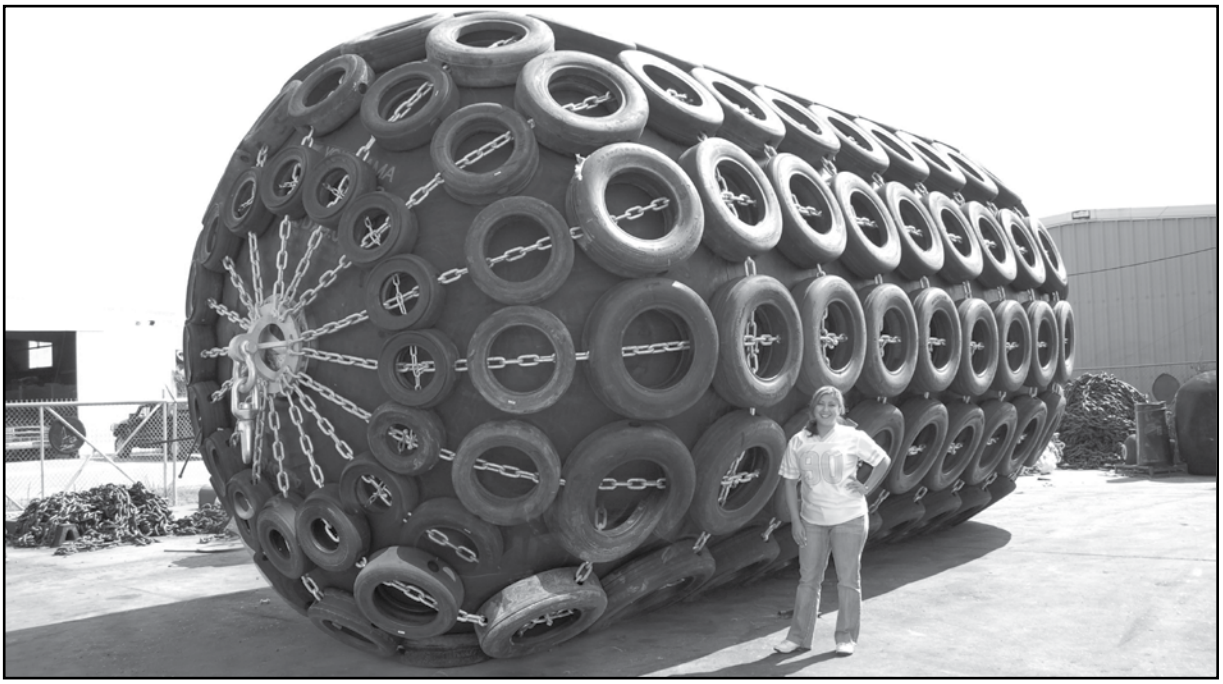
1. BS 6349: Maritime Structures - Part 4 Code of practice for design of fendering and mooring systems
2. PIANC: Guidelines for the design of fendering systems: 2002
3. United Facilities Guild Specification 02396
4. United Facilities Guild Specification 35 59 13.16 (August 2008)

Dock Sand Water Fender

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PNEUMATIC FENDERS



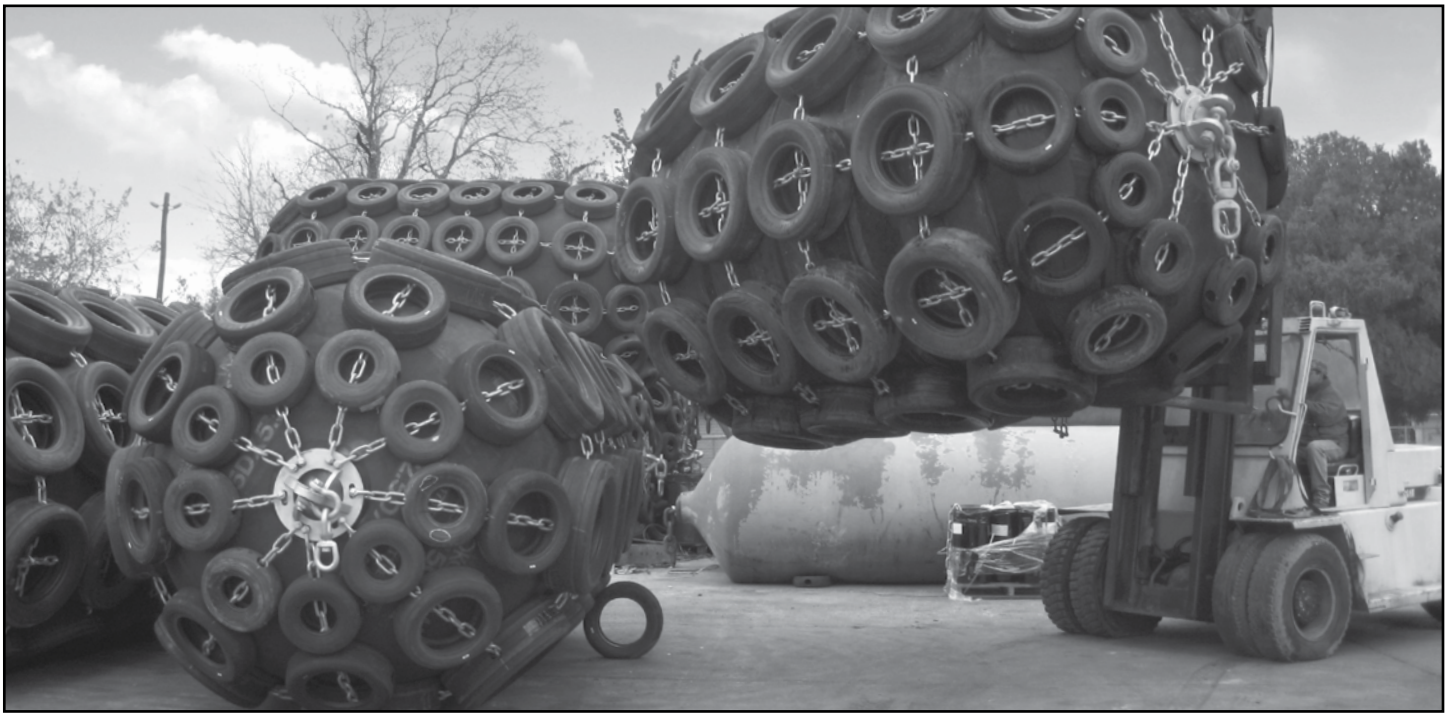
PNEUMATIC FENDER WITH CHAIN HARNESS



PNEUMATIC SLING TYPE FENDER

PNEUMATIC FENDERS





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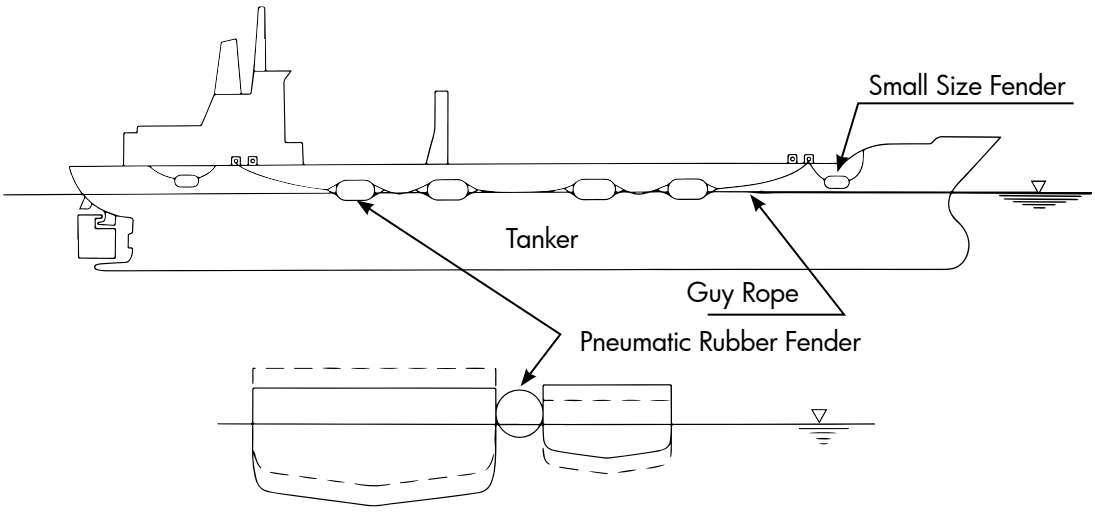




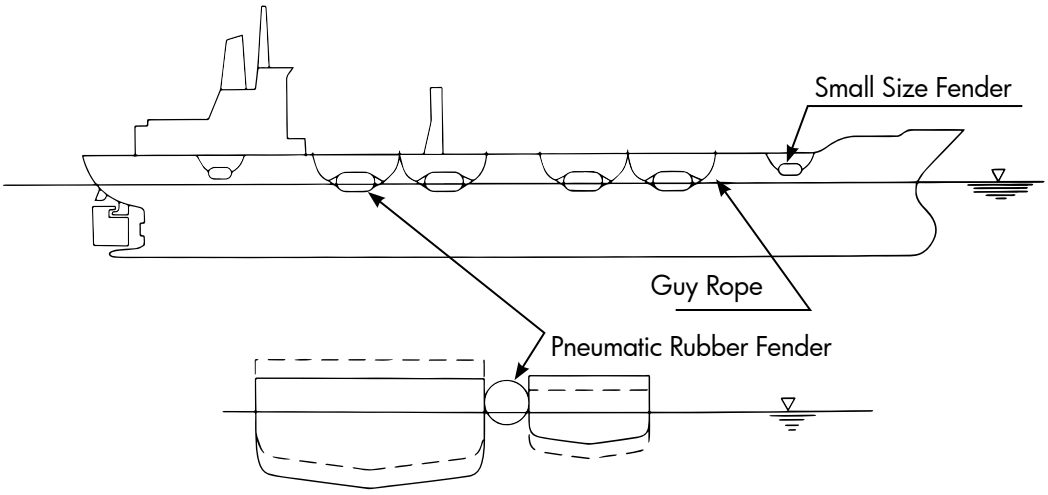
SHIP-TO-SHIP APPLICATIONS

INSTALLATION EXAMPLES

Four large-size fenders are usually floated at the water line as primary fenders to absorb impact energy at berthing and keep proper stand-off distance between two ships. Two small-size fenders (secondary fenders) are hung high on the hull at both bow and stern of smaller ship to prevent contact from rolling of ships due to swell and wind. "STS Transfer Guide," published by the International Chamber of Shipping is a good reference for further information.



(a) Fenders Rigged in a Continuous String



(b) Fenders Guyed Individually

Installation Method in case of Ship-to-Ship Transfer Operations.

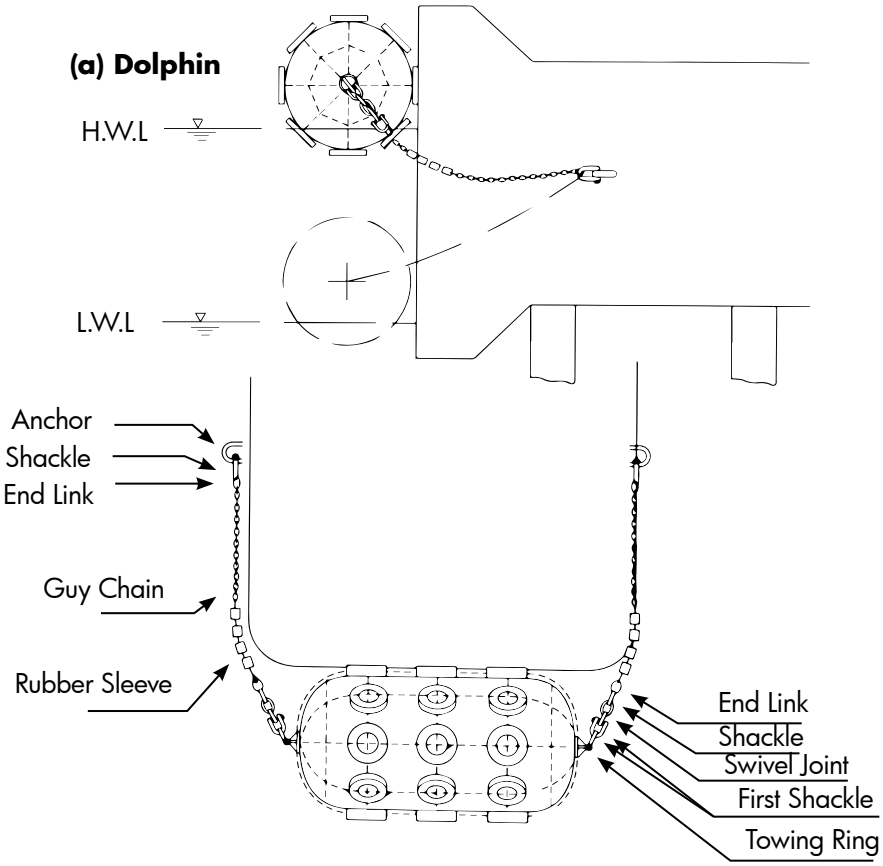
Actual Installation Method in case of Ship-to-Ship Transfer Operations.

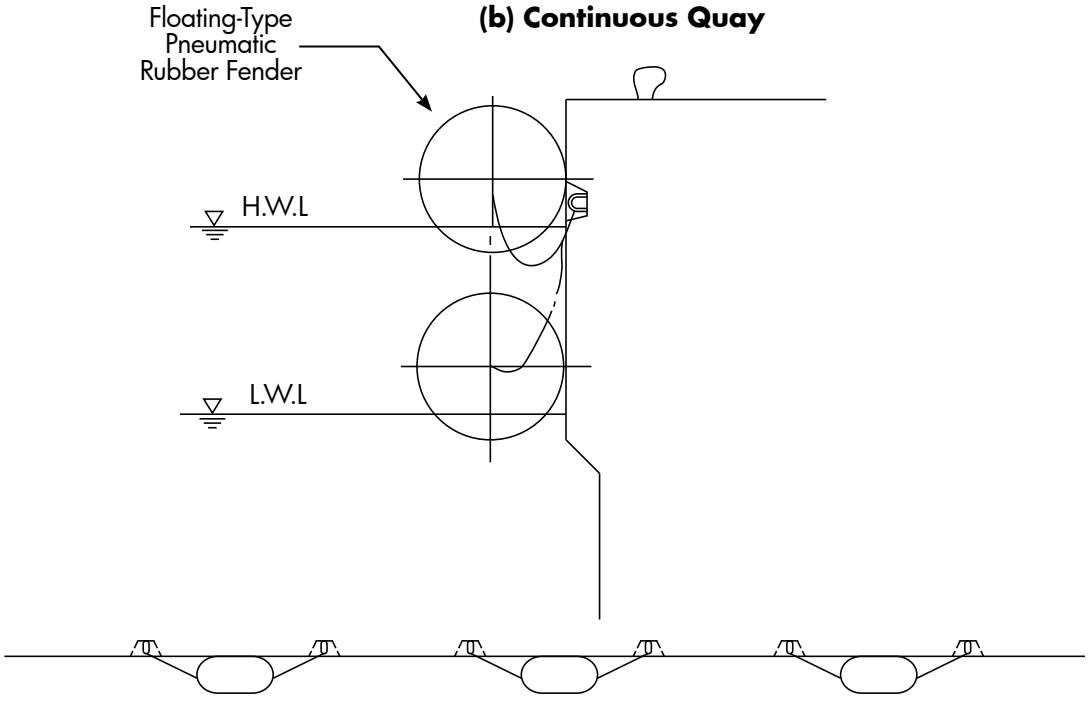
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SHIP-TO-JETTY APPLICATIONS

INSTALLATION METHODS

At both ends of the fender, first shackles, then swivel joints, followed by a further shackle should be installed. A guy chain or guy rope is secured to the outer shackle. The swivel joint prevents twisting of the guy chain or wire.





Installation Methods for Ship-to-Jetty Applications.

PNEUMATIC 50 (U.S. CUSTOMARY)

PNEUMATIC 50 STANDARD SIZES

NOMINAL SIZE		INITIAL INTERNAL PRESSURE	GUARANTEED ENERGY ABSORPTION (GEA)	REACTION FORCE AT GEA	HULL PRESSURE AT GEA	SAFETY VALUE SETTING PRESSURE	TESTING PRESSURE	WEIGHT OF NET TYPE (TYPE I)				WEIGHT OF SLING TYPE (TYPE II)
DIAMETER X LENGTH			E	R	P			APPROX. FENDER BODY WEIGHT	APPROXIMATE WEIGHT OF NET			
									CHAIN NET	WIRE NET	SYNTHETIC FIBER NET	
(FT X FT)	(MM X MM)	(KIPS)	(KIPS)	(KIPS)	(KIPS/ FT ²)	(PSI)	(PSI)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)
1.6 x 3	500 x 1000	7.3	4.4	14.4	2.72	-	29.0	49	243	66	44	71
2 x 3	600 x 1000	7.3	5.9	16.7	2.59	-	29.0	55	265	66	49	79
2.3 x 5	700 x 1500	7.3	12.5	30.8	2.78	-	29.0	99	331	88	82	121
3 x 5	1000 x 1500	7.3	23.6	41.0	2.51	-	29.0	161	441	176	112	216
3 x 6.5	1000 x 2000	7.3	33.2	57.8	2.72	-	29.0	194	485	309	126	249
4 x 6.5	1200 x 2000	7.3	46.5	66.8	2.59	-	29.0	289	706	419	150	344
4.4 x 8	1350 x 2500	7.3	75.3	96.1	2.67	-	29.0	441	772	441	-	529
5 x 10	1500 x 3000	7.3	113.0	130.0	2.72	-	29.0	551	1169	772	-	639
5.6 x 10	1700 x 3000	7.3	141.0	144.0	2.63	-	29.0	639	1279	970	-	728
6.5 x 11.5	2000 x 3500	7.3	227.0	197.0	2.63	-	29.0	893	2117	1411	-	1025
8 x 13	2500 x 4000	7.3	489.0	311.0	2.82	25.4	36.3	1989	2734	2007	-	2381
8 x 18	2500 x 5500	7.3	696.0	454.0	3.04	25.4	36.3	2403	4079	2558	-	2911
11 x 15	3300 x 4500	7.3	867.0	424.0	2.67	25.4	36.3	3219	3771	2800	-	4057
11 x 21	3300 x 6500	7.3	1339.0	678.0	3.00	25.4	36.3	4123	5667	4212	-	4961
11 x 35	3300 x 10600	7.3	2264.0	1183.0	3.25	25.4	36.3	5645	10275	7277	-	6747
15 x 30	4500 x 9000	7.3	3507.0	1293.0	3.00	25.4	36.3	8688	11885	7762	-	-
15 x 40	4500 x 12000	7.3	4777.0	1796.0	3.17	25.4	36.3	10562	15413	11444	-	-

PNEUMATIC 50 POPULAR NON STANDARD SIZES

NOMINAL SIZE		INITIAL INTERNAL PRESSURE	GUARANTEED ENERGY ABSORPTION (GEA)	REACTION FORCE AT GEA	HULL PRESSURE AT GEA	SAFETY VALUE SETTING PRESSURE	TESTING PRESSURE	WEIGHT OF NET TYPE (TYPE I)				WEIGHT OF SLING TYPE (TYPE II)
DIAMETER X LENGTH			E	R	P			APPROX. FENDER BODY WEIGHT	APPROXIMATE WEIGHT OF NET			
									CHAIN NET	WIRE NET	SYNTHETIC FIBER NET	
(FT X FT)	(MM X MM)	(KIPS)	(KIPS)	(KIPS)	(KIPS/FT²)	(PSI)	(PSI)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)
1.3 x 5	400 x 1500	7.3	4.4	19.6	3.11	-	29.0	51	-	-	-	73
2 x 4	600 x 1200	7.3	7.4	20.9	2.72	-	29.0	62	-	-	-	86
2.6 x 4	800 x 1200	7.3	11.8	26.1	2.51	-	29.0	107	529	-	-	128
4 x 6	1200 x 1800	7.3	40.6	59.0	2.51	-	29.0	271	684	-	-	326
4.4 x 11.5	1350 x 3500	7.3	112.0	144.0	2.90	-	29.0	562	1323	-	-	650
5 x 8	1500 x 2500	7.3	90.8	104.0	2.59	-	29.0	487	970	-	-	576
6.5 x 10	2000 x 3000	7.3	188.0	164.0	2.51	-	29.0	809	1985	-	-	942
6.5 x 15	2000 x 4500	7.3	309.0	267.0	2.82	-	29.0	1058	2646	-	-	1191
8 x 25	2500 x 7700	7.3	996.0	664.0	3.23	25.4	36.3	3021	6659	-	-	3528
11 x 28	3300 x 8600	7.3	1803.0	931.0	3.17	25.4	36.3	4895	8181	-	-	5998
15 x 21	4500 x 6400	7.3	2390.0	854.0	2.74	25.4	36.3	7497	8600	-	-	-

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PNEUMATIC 80 (U.S. CUSTOMARY)

PNEUMATIC 80 STANDARD SIZES

NOMINAL SIZE		INITIAL INTERNAL PRESSURE	GUARANTEED ENERGY ABSORPTION (GEA)	REACTION FORCE AT GEA	HULL PRESSURE AT GEA	SAFETY VALUE SETTING PRESSURE	TESTING PRESSURE	WEIGHT OF NET TYPE (TYPE I)				WEIGHT OF SLING TYPE (TYPE II)
DIAMETER X LENGTH			E	R	P			APPROX. FENDER BODY WEIGHT	APPROXIMATE WEIGHT OF NET			
									CHAIN NET	WIRE NET	SYNTHETIC FIBER NET	
(FT X FT)	(MM X MM)	(KIPS)	(KIPS)	(KIPS)	(KIPS/FT²)	(PSI)	(PSI)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)
1.6 x 3	500 x 1000	11.6	5.9	19.1	3.58	-	36.3	53	243	66	44	75
2 x 3	600 x 1000	11.6	8.1	22.1	3.41	-	36.3	60	265	66	49	84
2.3 x 5	700 x 1500	11.6	17.7	40.5	3.64	-	36.3	104	331	88	82	126
3 x 5	1000 x 1500	11.6	33.2	53.8	3.29	-	36.3	168	441	176	112	223
3 x 6.5	1000 x 2000	11.6	46.5	76.1	3.58	-	36.3	203	485	309	126	258
4 x 6.5	1200 x 2000	11.6	64.9	87.8	3.41	-	36.3	298	706	419	150	353
4.4 x 8	1350 x 2500	11.6	105.0	126.0	3.50	-	36.3	452	772	441	-	540
5 x 10	1500 x 3000	11.6	158.0	171.0	3.58	-	36.3	611	1169	772	-	699
5.6 x 10	1700 x 3000	11.6	197.0	189.0	3.46	-	36.3	697	1279	970	-	785
6.5 x 11.5	2000 x 3500	11.6	317.0	259.0	3.46	-	36.3	911	2139	1521	-	1043
8 x 13	2500 x 4000	11.6	683.0	408.0	3.70	33.4	43.5	2227	2756	2007	-	2624
8 x 18	2500 x 5500	11.6	972.0	597.0	4.01	33.4	43.5	2712	4101	2580	-	3219
11 x 15	3300 x 4500	11.6	1210.0	557.0	3.52	33.4	43.5	3793	3793	2822	-	4608
11 x 21	3300 x 6500	11.6	1869.0	891.0	3.93	33.4	43.5	4851	5689	4388	-	5667
11 x 35	3300 x 10600	11.6	3160.0	1554.0	4.28	33.4	43.5	6681	10275	7277	-	7762
15 x 30	4500 x 9000	11.6	4896.0	1699.0	3.95	33.4	43.5	9658	11995	7894	-	-
15 x 40	4500 x 12000	11.6	6670.0	2360.0	4.16	33.4	43.5	11753	15501	11532	-	-

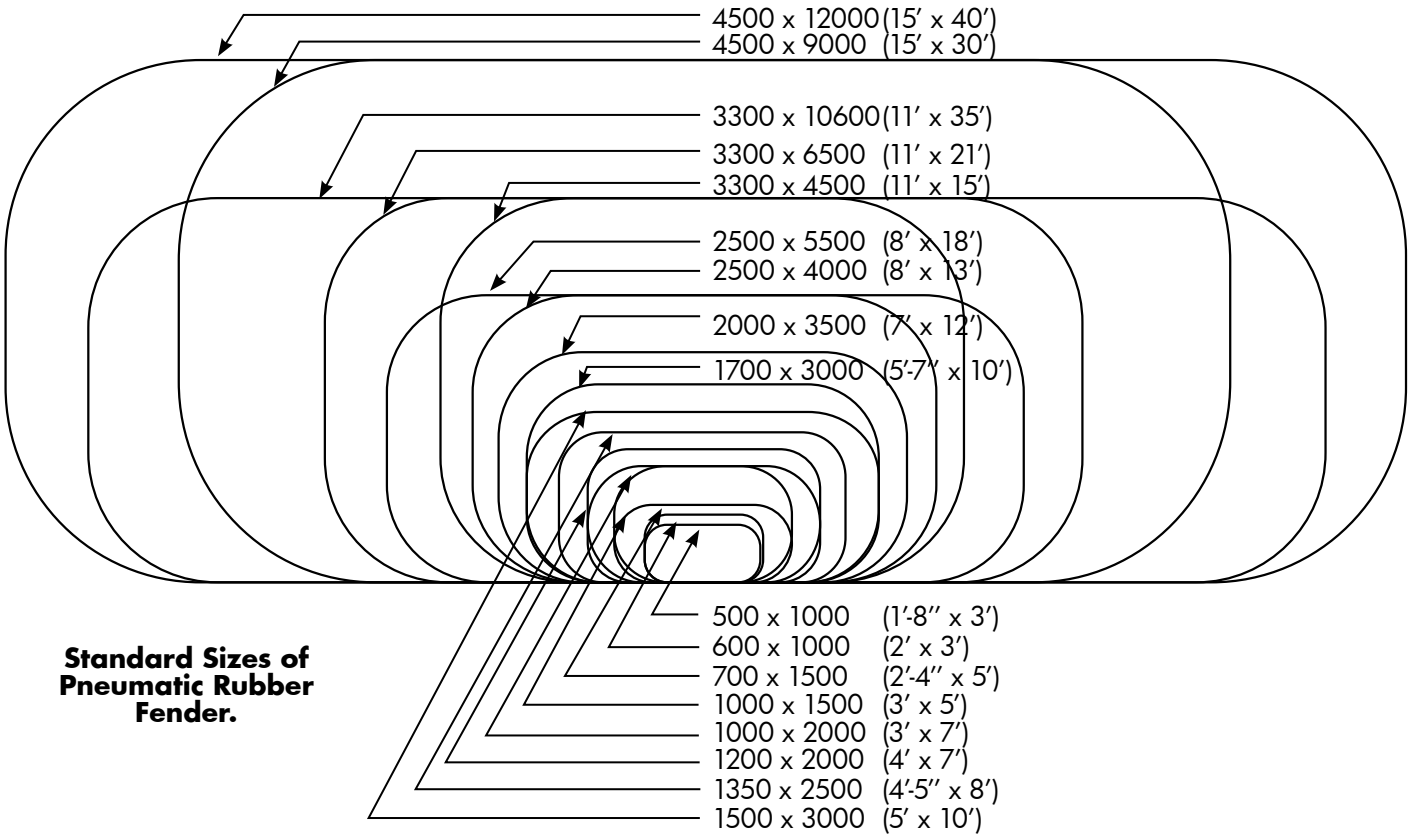
PNEUMATIC 80 POPULAR NON STANDARD SIZES

NOMINAL SIZE		INITIAL INTERNAL PRESSURE	GUARANTEED ENERGY ABSORPTION (GEA)	REACTION FORCE AT GEA	HULL PRESSURE AT GEA	SAFETY VALUE SETTING PRESSURE	TESTING PRESSURE	WEIGHT OF NET TYPE (TYPE I)				WEIGHT OF SLING TYPE (TYPE II)
DIAMETER X LENGTH			E	R	P			APPROX. FENDER BODY WEIGHT	APPROXIMATE WEIGHT OF NET			
									CHAIN NET	WIRE NET	SYNTHETIC FIBER NET	
(FT X FT)	(MM X MM)	(KIPS)	(KIPS)	(KIPS)	(KIPS/FT²)	(PSI)	(PSI)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)
1.3 x 5	400 x 1500	11.6	6.6	25.7	4.09	-	36.3	53	-	-	-	75
2 x 4	600 x 1200	11.6	10.3	27.5	3.58	-	36.3	66	-	-	-	90
2.6 x 4	800 x 1200	11.6	17.0	34.4	3.29	-	36.3	110	529	-	-	132
4 x 6	1200 x 1800	11.6	56.8	77.4	3.29	-	36.3	280	684	-	-	335
4.4 x 11.5	1350 x 3500	11.6	157.0	189.0	3.81	-	36.3	576	1323	-	-	664
5 x 8	1500 x 2500	11.6	126.0	137.0	3.41	-	36.3	538	970	-	-	626
6.5 x 10	2000 x 3000	11.6	263.0	215.0	3.29	-	36.3	827	1985	-	-	959
6.5 x 15	2000 x 4500	11.6	431.0	351.0	3.68	-	36.3	1076	2668	-	-	1208
8 x 25	2500 x 7700	11.6	1391.0	872.0	4.24	33.4	43.5	3418	6681	-	-	3925
11 x 28	3300 x 8600	11.6	2517.0	1223.0	4.16	33.4	43.5	5777	8181	-	-	6858
15 x 21	4500 x 6400	11.6	3335.0	1122.0	3.58	33.4	43.5	8291	8622	-	-	-

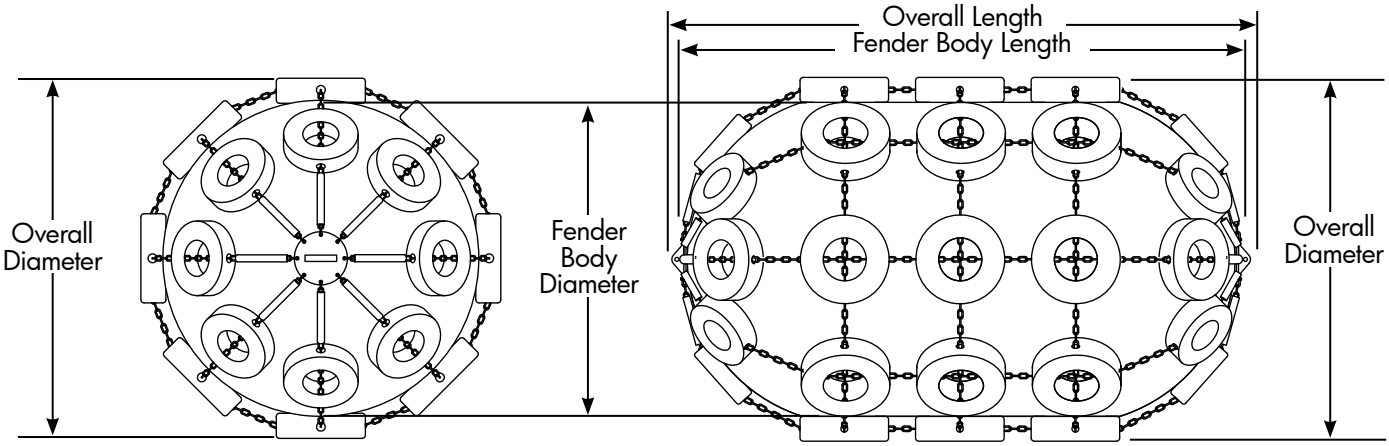
SIZES AND PERFORMANCES

The Pneumatic Rubber Fenders are available in the following sizes, which are generally expressed in terms of diameter by length.

Ø4500 x 9000L - P80
Pneumatic Rubber Fender



Standard Sizes of Pneumatic Rubber Fender.



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DECK FITTINGS

THESE ARE ONLY A SAMPLE OF SOME TYPES AVAILABLE.
MANY OTHERS IN STOCK.
LET US KNOW YOUR REQUIREMENTS!
STOCKS IN THE WEST COAST AND THE GULF.

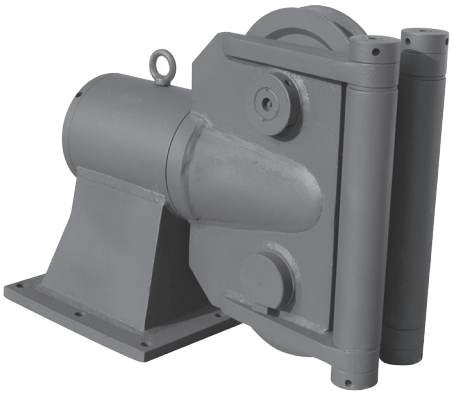


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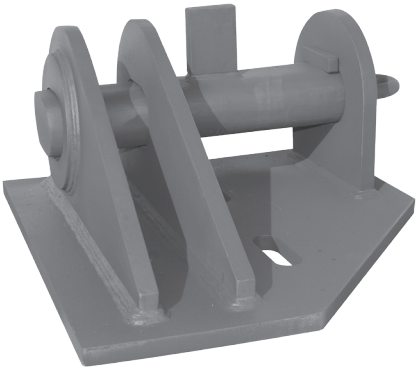
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DECK FITTINGS





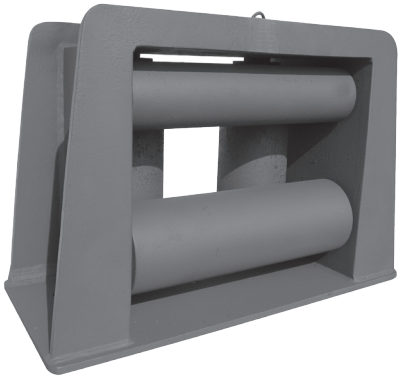












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SINGLE POINT MOORING ARRANGEMENT FOR SHIPS

These requirements are applicable to ships intended to utilize the fittings standardized for single point moorings and include the type, strength and location of the required fittings.

A ship provided with mooring arrangements in accordance with the requirements of this will be eligible to be assigned the Class notation "SPM" (Single Point Mooring).

ARRANGEMENTS

The ship is to be fitted with bow chain stoppers and/or Smit Type Brackets, and bow fairleads. In addition, pedestal roller fairleads may be required for alignment purposes.

TABLE A.

GROUP	DEADWEIGHT IN TONS	CHAIN SIZE (MM)	NO. OF CHAIN STOPPERS	SWL IN KN (TONS)
I	< 100000	54	1	980 (100)
II	100000 < 150000	76	1	1960 (200)
III	150000 < 350000	76	2	1960 (200)
IV	350000	76	2	2450 (250)

BOW CHAIN STOPPERS

The number, chain cable size, and minimum safe working load of bow chain stoppers should be as given in Table A.

Bow chain stoppers should be located between 2.7 m and 3.7 m aft of the bow fairlead and should be positioned so as to give correct alignment with the bow fairlead and the pedestal fairlead or the drum end of the winch or capstan.

The leading edge of the stopper base plate is to be suitably faired to allow unimpeded entry of the combination chafe chain into the stopper.

Details of bow chain stoppers should be submitted for class approval.

SMIT TYPE BRACKETS

Smit type brackets may be fitted in lieu of bow chain stoppers. The required number and safe working load is as given in Table A for bow chain stoppers.

Where fitted, Smit Type Brackets should be located between 2.7 m and 3.7 m aft of the bow fairlead and should be positioned so as to give correct alignment with the bow fairlead and pedestal fairlead or drum end of the winch or capstan.

Adjacent to each Smit Type Bracket a lug with a recommended safe working load of 490 kN (50 tons) should be attached to the doubler plate. The lug should be provided with a hole of sufficient size to accept the pin of a 490 kN (50 ton) SWL shackle and should be used as a securing point for the chafe chain holding stopper. Details of Smit Type Brackets should be submitted for class approval.

BOW FAIRLEADS

One centrally located bow fairlead should be provided for ships up to 150,000 tons deadweight (Groups I and II). Two bow fairleads should be provided for ships larger than 150,000 tons deadweight (Groups III and IV). Bow fairlead opening should be at least 600 x 450 mm for 76 mm chafe chain size. Where more than one bow fairlead is installed the spacing of centers should be between 2 m and 3 m. The fairlead should be a minimum radius equal to 7 times the chain radius.

PEDESTAL ROLLER FAIRLEADS

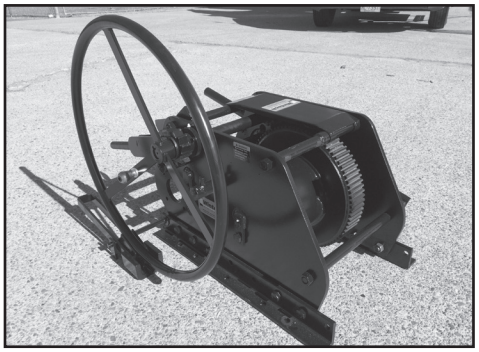
Pedestal roller fairleads should have a minimum radius equal to ten times the radius of wire mooring ropes with a fiber core, seven times of wire mooring ropes with a steel core or three times the radius of synthetic mooring ropes. The number of pedestal roller fairleads should correspond to the number of bow chain stoppers or Smit Type Brackets.

MANUAL LOW - PROFILE BARGE WINCH

20 - 90 TON HOLDING CAPACITY

TAKING THE WINCH INDUSTRY BY STORM

BUILT TO LAST LOW-PROFILE TO KEEP THE CABLE LOW ON THE "BITTS" AND THE DECK



STANDARD FEATURES

- Additional tightening power from ratchet lever bar.
- Quick release holding dog, automatically disengages when not in use.
- Spinner knob on hand wheel for fast slack line take-up.
- Steel gear guard provides operator protection; prevents slack cable from fouling gears.
- Foot brakes control and prevent overrunning and birdnesting of wire rope.

OPTIONAL FEATURES:

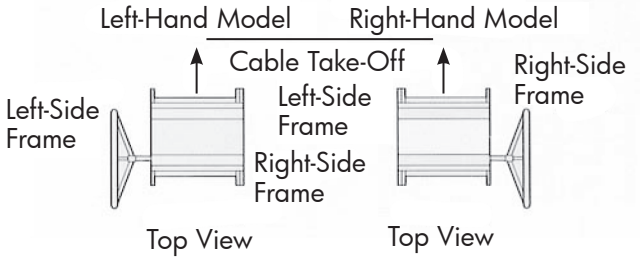
- Wider drums, angle deck brackets, disengaging clutch.
- Wintech Winch Cables

LOW-PROFILE MANUAL BARGE WINCH SPECIFICATIONS								DRUM OPTIONS		
MODEL NO.	RATED CAPACITIES (US TONS)			1ST PLAYER	DRUM	SHIPPING WEIGHT (LBS)	CUBIC FEET	CAPACITY (US TONS)	DIMENSIONS (IN.)	
	DOG HOLDING	TIGHTENING		GEAR RATIO	DIAMETER (IN.)				STANDARD DRUMS	WIDER DRUMS
		HAND	RATCHET							
20 HL	20	3	5	7:1	8-5/8	600	18.0	20 ton	10	17, 24, 36, 48
25 HL	40	5	10	14:1	10-3/4	650	22.0	40 ton	9	17, 35, 51, 69
50 HL	65	7.5	15	20:1	12-3/4	1175	34.0	65 ton	11	20, 41, 61, 82
75 HL	90	10	20	31:1	16	1880	37.0	90 ton	10	20, 40, 61, 81

Note: All models are shown with "L" designating left hand models; for right hand models, substitute "R" for "L" in

20 HL-8 5/8" DRUM DIAMETER					25 HL-10 3/4" DRUM DIAMETER					50 HL-12 3/4" DRUM DIAMETER					75 HL-16" DRUM DIAMETER				
LENGTH (IN.)	DRUM CAPACITY				LENGTH (IN.)	DRUM CAPACITY				LENGTH (IN.)	DRUM CAPACITY				LENGTH (IN.)	DRUM CAPACITY			
	.5/8 IN.	.3/4 IN.	.7/8 IN.	1 IN.		.5/8 IN.	.3/4 IN.	.7/8 IN.	1 IN.		.5/8 IN.	.3/4 IN.	.7/8 IN.	1 IN.		.5/8 IN.	.3/4 IN.	.7/8 IN.	1 IN.
10*	380	275	194	132	9*	248	162	142	88	11*	194	174	110	100	10*	119	108	98	56
17	650	470	330	225	17	479	314	277	174	20	377	338	216	197	20	247	225	207	119
24	915	650	460	317	35	975	643	568	359	41	773	694	445	408	40	523	478	441	254
36	1370	975	690	476	51	1472	971	865	544	61	1168	1051	674	619	61	798	731	675	390
48	1830	1300	920	634	69	1969	1299	1151	729	82	1564	1407	903	830	81	1074	983	909	525

* standard length of drum (drum lengths) are rounded to the nearest inch.



RULE OF THUMB: Right or left hand models are determined by which side of the winch the handwheel is mounted on. As illustrated right, standing behind the winch, facing the cable take-off direction is the proper orientation for determining right or left hand requirements.

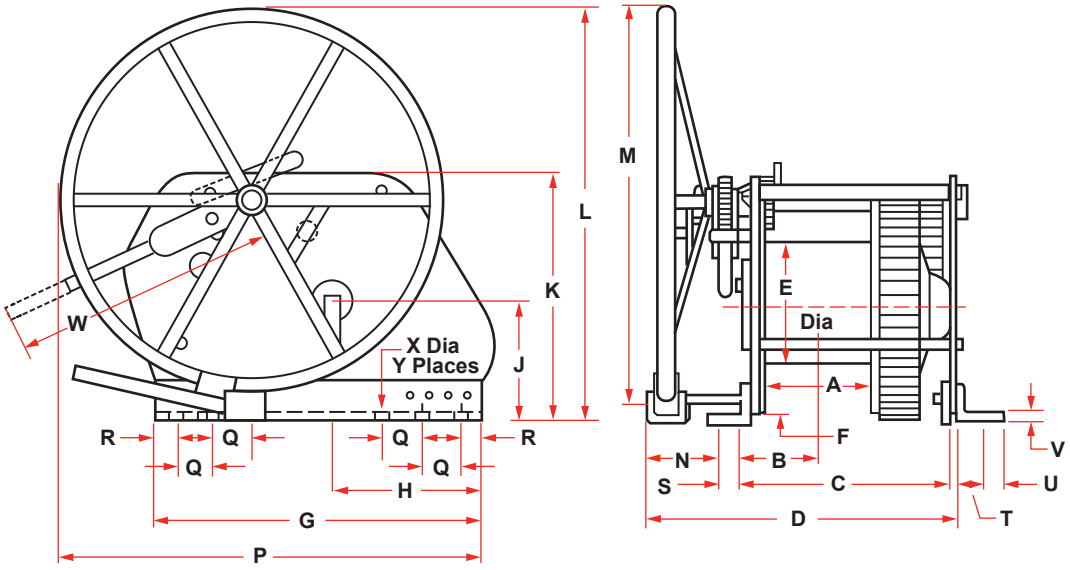
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Anchor MARINE & INDUSTRIAL SUPPLY, INC.

MANUAL LOW - PROFILE BARGE WINCH

20 - 90 TON HOLDING CAPACITY

SUPERIOR VALUE - RELIABILITY / QUALITY
WINCH CABLES AVAILABLE ON ALL MODELS.



MANUAL BARGE WINCH-LOW PROFILE DIMENSIONS

CAPACITY (US TONS)	DIMENSIONS (INCHES)																						
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y
20HL	10	6-1/2	15-7/8	25-7/8	8-5/8	6	23	11-1/2	11-3/4	24	35	32	9-3/8	38	4	3/4	1	1	1	3/8	53-1/2	13/16	8
25HL	9	7-3/8	17-7/8	27-7/8	10-3/4	3-5/8	28	12-1/4	21	21	34-1/2	32	9-3/8	37-1/2	4	3	1	2-1/8	1	1/2	53-1/2	13/16	10
50HL	11	8	20-7/8	30-7/8	12-3/4	4-3/8	33	15	12	25	42-1/2	40	9-1/8	43	4	2	1-3/8	3	1-7/8	3/4	59-1/2	1-1/8	12
75HL	10	8-1/8	21-7/8	31-1/4	1-6	4-1/2	41	16-1/2	14	29	50-1/2	48	9	50-1/2	4	2	1-1/2	3-1/2	1-1/2	1	65-1/2	1-1/8	16

NOTE: Dimensions are subject to change. Please contact factory for certified prints.

STANDARD UPRIGHT ELECTRIC 40 AND 65 US TON BARGE WINCH



TAKING THE WINCH INDUSTRY BY STORM
LOW DOWNTIME AND MAINTENANCE

STANDARD FEATURES

- Fully reversing crane and hoist duty motors that are totally enclosed.
- Control from pilot house or deck.
- Stall pulls to 40,000 lbs.
- Improved brake holding capacity to 70,000 lbs.
- Drum guard prevents slack cable from fouling gears.
- Hand wheel for operation in the event of power loss.

OPTIONAL FEATURES:

- Flange-mounted ball bearings for power shaft, factory installed.
- Grooved drums
- Drum flange divider
- Remote control packages:
  - NEMA 1; General purpose enclosure
  - NEMA 4; Watertight enclosure
  - — NEMA 1 or 4 magnetic reversing starter
  - — NEMA 1 or 4 push button station
- Wintech Winch Cables

Wintech electric barge winches are designed to protect operator profits by speeding up tow makeup and breakdown.

ELECTRIC BARGE WINCH-STANDARD SPECIFICATIONS

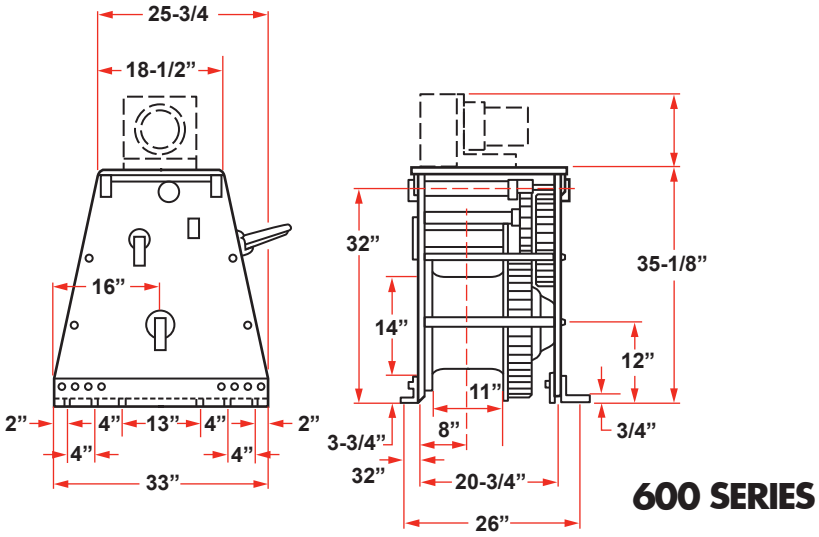
MODEL NO.	DOG HOLDING CAPACITY (TONS)	CAPACITITES (LBS)			HOLDING (LBS)	LINE SPEED (FPM)			VOLTS	WEIGHT		
		RATED PULL	STALL PULL	HAND PULL	ELECTRIC BRAKE	NO LOAD	RATED PULL	HP	PHASE CYCLE	NET (LBS)	SHIP (LBS)	CU. FT.
301L-RC	40	3200	9000	20000	55000	50	42	5	230/460-3-60	728	785	27.0
311L-RC	40	4200	11500	20000	55000	35	31	5	230/460-3-60	728	785	27.0
321L-RC	40	4800	13000	20000	55000	50	42	7.5	230/460-3-60	859	922	27.0
331L-RC	40	6400	17500	20000	55000	23	21	5	230/460-3-60	728	791	27.0
341L-R	40	6400	17500	20000	55000	35	31	7.5	230/460-3-60	859	1038	27.0
351L-RC	40	8500	23500	20000	55000	17	15	5	230/460-3-60	728	1050	27.0
601L-RC	65	4500	1500	40000	70000	34	30	5	230/460-3-60	1290	1536	34.0
611L-RC	65	6500	22000	40000	70000	34	30	7.5	230/460-3-60	1331	1536	34.0
621L-RC	65	8500	28000	40000	70000	17	15	5	230/460-3-60	1331	1536	34.0
631L-RC	65	12000	40000	40000	70000	17	15	7.5	230/460-3-60	1361	1536	34.0
641L-RC	65	12000	40000	40000	70000	23	20	10	230/460-3-60	1361	1536	34.0

Note: All models are shown with "L" designating left hand models; for right hand models, substitute "R" for "L" in model number.
Capacities are rated on first layer.
* Stall pull rate at specified voltage with holding dog engaged.

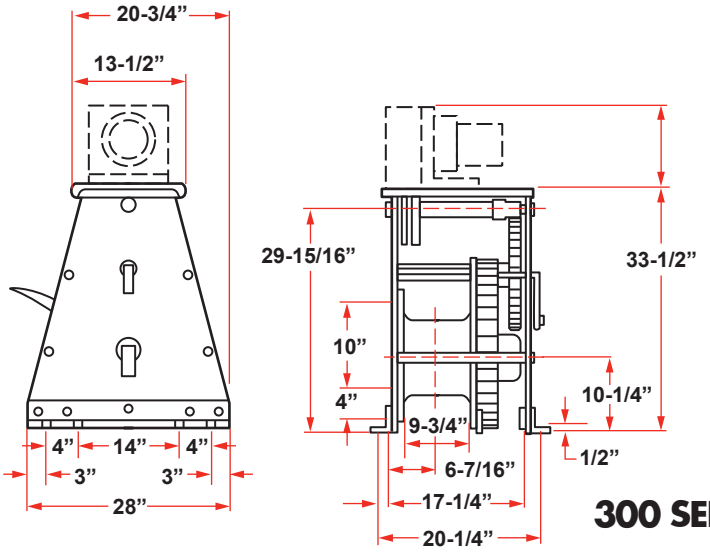
Warning: Before installation see maintenance and operations manual for additional warnings and precautions. This equipment is not to be used for lifting, supporting, or transporting people, or lifting or supporting loads over people.

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STANDARD UPRIGHT ELECTRIC 40 AND 65 US TON BARGE WINCH



600 SERIES



300 SERIES

40 TO STD-10" DRUM DIA.				
LENGTH (INCHES)	DRUM CAPACITY (FT)			
	5/8 IN.	3/4 IN.	7/8 IN.	1 IN
9*	286	196	130	116
17	559	386	258	232
35	1174	813	546	493
51	1755	1216	818	740
69	2326	1620	1090	986

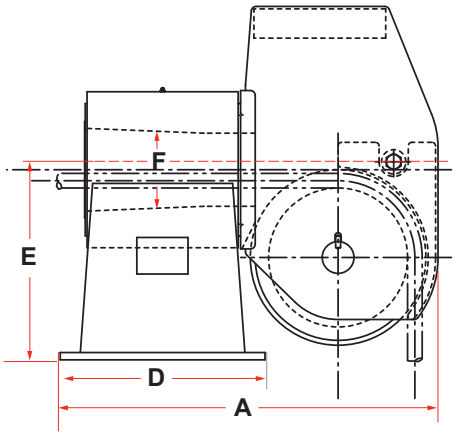
65 TO STD-14" DRUM DIA.				
LENGTH (INCHES)	DRUM CAPACITY (FT)			
	7/8 IN.	1 IN	1-1/8 IN.	1-1/4 IN.
11*	210	133	119	67
20	418	265	240	136
41	834	531	481	274
61	1271	810	734	418
82	1686	1075	975	556

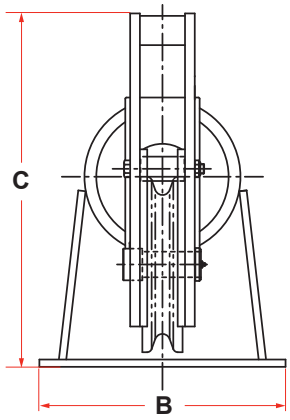
DECK-MOUNTED BALANCED HEAD FAIRLEADERS

Smith Berger

600 SERIES







MODEL NO.	MAX WIRE SIZE	WIRE BREAKING STRENGTH (LBS)	SHEAVE TREAD DIA.	DIMENSIONS (INCHES)						WEIGHT (LBS)
				A	B	C	D	E	F	
MD-610	3/4	58800	8-1/4	23-11/16	16	20-1/8	14-3/4	11	4-1/2	270
MD-612	1	103400	9-3/4	28-3/16	19-1/4	24-5/8	17-3/4	13-1/2	5-5/8	495
MD-614	1-1/4	159800	11-1/4	30-9/16	20	28-1/8	18-1/2	15-1/2	6-5/16	670
MD-618	1-1/2	228000	14-1/4	38-1/8	25-1/4	36-1/4	21	19-1/2	8-1/2	1450
MD-624	2	396000	20	50-1/8	30	44-13/16	27	25-1/2	12	2650
MD-630	2-1/4	494000	24-7/8	56-7/8	40-1/4	60-3/4	27-1/2	31-1/2	13	4800
MD-636	2-1/2	604000	30	63	40	70-1/4	27-1/2	36-1/4	14-1/2	6000
MD-652	3	850000	44	103-1/2	52-3/8	104	44	34-1/2	26-1/2	16500
MD-665	3	850000	55-1/2	115-5/8	52-3/8	117-1/2	44	34-1/2	26-1/2	18800

*Dimensions subject to change without notice

STANDARD FEATURES

- Designed for Breaking Strength of EIPS-IWRC Wire Rope with 90° Wrap on the Sheave and 180° Rotation of Swivelhead
- Cast Steel Sheave with Hardened Rope Groove for Longer Life
- Sealed Grease Lubricated Tapered Roller Bearings in Sheave and Swivelhead
- Weld Down Mounting Base
- Removable Guide Roller
- Epoxy Primer Coating

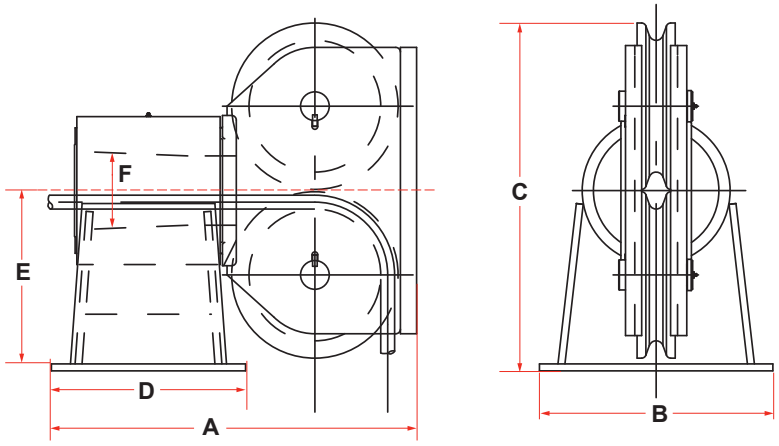
OPTIONAL FEATURES

- Customized Design to Suit Your Application
- Tail Sheaves / Tail Rollers
- Stainless Steel or Nylon Sheaves
- Bolt Down Mounting Base
- Load Monitoring System
- Three Coat Marine Paint System
- Third Party Certification

DECK-MOUNTED DOUBLE SHEAVE FAIRLEADERS

Smith Berger

2600 SERIES



MODEL NO.	MAX WIRE SIZE	WIRE BREAKING STRENGTH (LBS)	SHEAVE TREAD DIA.	DIMENSIONS (INCHES)						WEIGHT (LBS)
				A	B	C	D	E	F	
MD-2610	3/4	58800	8-1/4	24-11/16	16	22	14-3/4	11	4-1/2	280
MD-2612	1	103400	9-3/4	29-13/16	19-1/4	25	17-3/4	13-1/2	5-5/8	520
MD-2614	1-1/4	159800	11-1/4	31-9/16	20	29	18-1/2	15-1/2	6-5/16	700
MD-2618	1-1/2	228000	14-1/4	39-1/8	25-1/4	37-5/8	21	19-1/2	8-1/2	1500
MD-2624	2	396000	20	51-1/8	30	49-5/8	27	25-1/2	12	2800
MD-2630	2-1/4	494000	24-7/8	57-7/8	40-1/4	61-5/8	27-1/2	31-1/2	13	5020
MD-2636	2-1/2	604000	30	64	40	72-5/8	27-1/2	36-1/4	14-1/2	6270
MD-2652	3	850000	44	104	52-3/8	105-5/8	44	34-1/2	26-1/2	17200
MD-2665	3	850000	55-1/2	117	52-3/8	130-5/8	44	34-1/2	26-1/2	19650

*Dimensions subject to change without notice

STANDARD FEATURES

- Designed for Breaking Strength of EIPS-IWRC Wire Rope with 90° Wrap on the Sheave and 180° Rotation of Swivelhead
- Cast Steel Sheaves with Hardened Rope Grooves for Longer Life
- Sealed Grease Lubricated Tapered Roller Bearings in Sheaves and Swivelhead
- Weld Down Mounting Base
- Removable Guide Roller
- Epoxy Primer Coating

OPTIONAL FEATURES

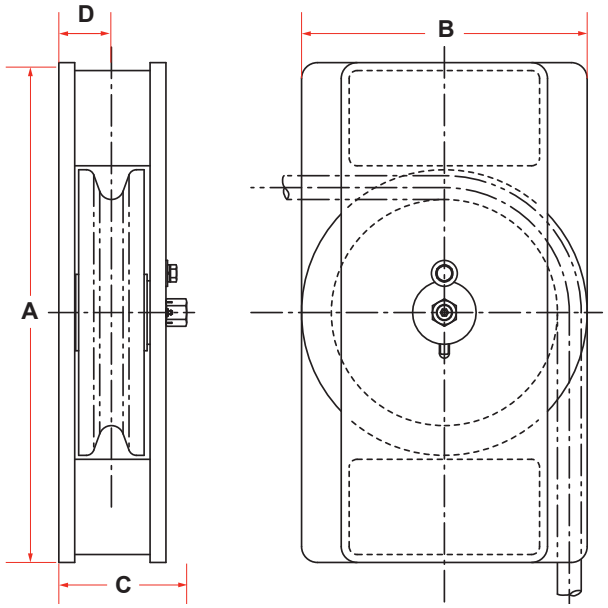
- Customized Design to Suit Your Application
- Tail Sheaves / Tail Rollers
- Stainless Steel or Nylon Sheaves
- Bolt Down Mounting Base
- Load Monitoring System
- Three Coat Marine Paint System
- Third Party Certification

HORIZONTAL GUIDE SHEAVES

Smith Berger

1200 SERIES





MODEL NO.	MAX WIRE SIZE	WIRE BREAKING STRENGTH (LBS)	SHEAVE TREAD DIA.	DIMENSIONS (INCHES)				WEIGHT (LBS)
				A	B	C	D	
MD-1210	3/4	58800	8-1/2	17	11	5-1/2	2-3/16	85
MD-1212	1	89800	10	19	12	6-1/2	2-3/4	150
MD-1214	1-1/4	159800	11-7/16	21	14	7	2-3/4	200
MD-1218	1-1/2	228000	14-1/4	31-1/2	18	8	3-5/16	450
MD-1224	2	396000	20	43	25	8-1/2	3-5/8	975
MD-1230	2-1/4	494000	24-7/8	45	30-5/8	11-1/2	4-1/8	1500
MD-1236	2-1/2	604000	30	55	37	13	5-3/4	2800
MD-1252	3	850000	44	83-1/2	53	14	6-1/4	6000
MD-1268	3-1/4	1223775	59-1/16	100	70	17	7	8000

*Dimensions subject to change without notice

STANDARD FEATURES

- Designed for Breaking Strength of EIPS-IWRC Wire Rope with 90° Wrap on the Sheave
- Cast Steel Sheave with Hardened Rope Groove for Longer Life
- Sealed Grease Lubricated Bronze Bearings in Sheave
- Weld Down Mounting Base
- Epoxy Primer Coating

OPTIONAL FEATURES

- Customized Design to Suit Your Application
- Multiple Sheaves
- Stainless Steel or Nylon Sheaves
- Bolt Down Mounting Base
- Load Monitoring System
- Three Coat Marine Paint System
- Third Party Certification

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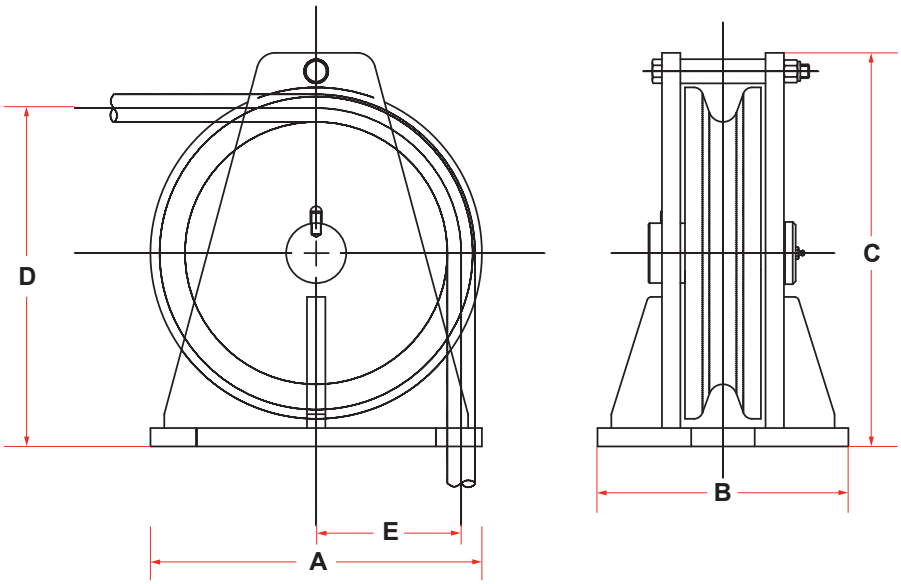
Anchor MARINE & INDUSTRIAL SUPPLY, INC.

VERTICAL GUIDE SHEAVES

Smith Berger

1100 SERIES





MODEL NO.	MAX WIRE SIZE	WIRE BREAKING STRENGTH (LBS)	SHEAVE TREAD DIA.	DIMENSIONS (INCHES)					WEIGHT (LBS)
				A	B	C	D	E	
MD-1110	3/4	58800	8-1/4	11	9	20-1/8	10-1/4	4-1/2	65
MD-1112	1	103400	9-3/4	13	11-1/2	14-3/4	12-1/4	5-3/8	105
MD-1114	1-1/4	159800	11-1/4	16	12	17-1/2	14-1/2	6-1/4	185
MD-1118	1-1/2	228000	14-1/4	18	13-5/8	21-3/8	18-3/8	7-7/8	340
MD-1124	2	396000	20	24	18	29	25-1/4	11	625
MD-1130	2-1/4	494000	24-7/8	30	23	35-3/8	31-1/16	30-15/16	1250
MD-1136	2-1/2	604000	30	36	27	43-1/2	37-3/4	16-1/4	3100
MD-1152	3	850000	44	52	39	60	53	23-1/2	4900
MD-1168	3-1/4	1223775	59-1/16	78-1/16	46	73-5/8	70-3/8	31-1/16	6020

*Dimensions subject to change without notice

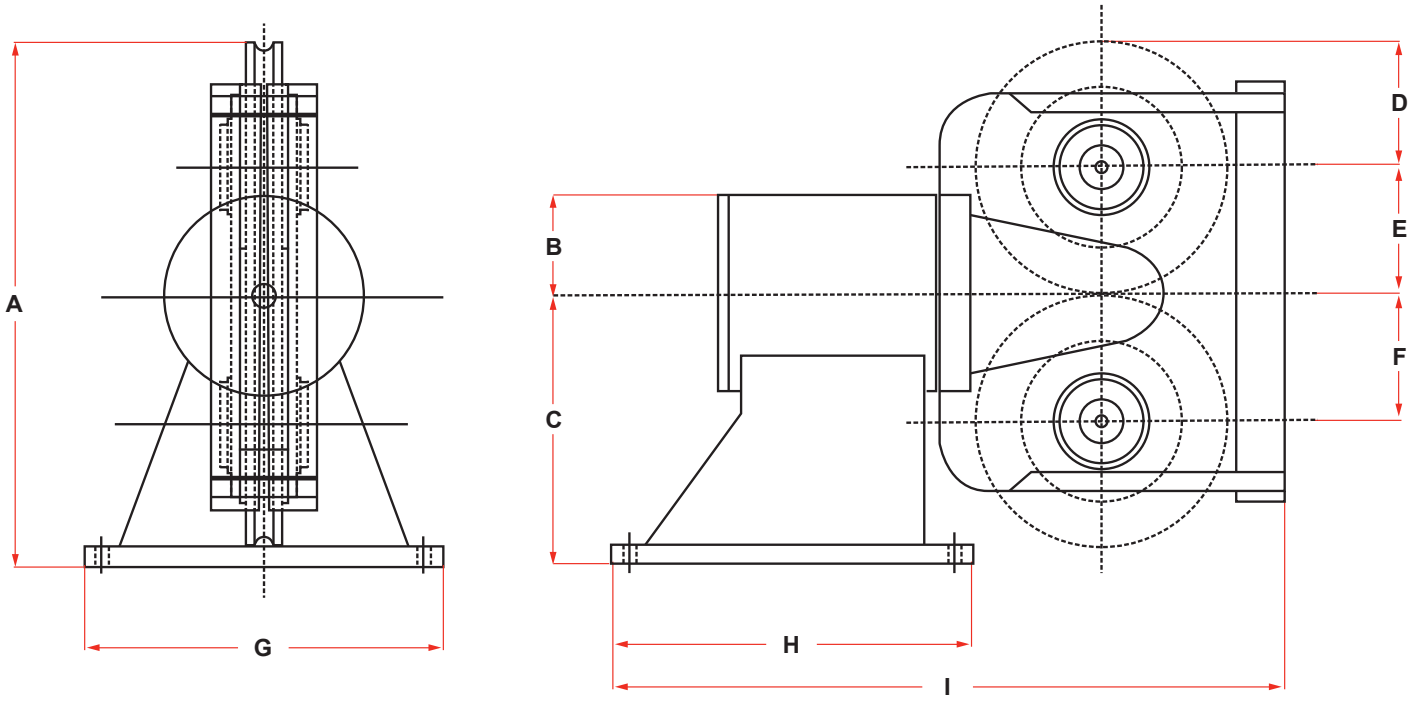
STANDARD FEATURES

- Designed for Breaking Strength of EIPS-IWRC Wire Rope with 90° Wrap on the Sheave
- Cast Steel Sheave with Hardened Rope Groove for Longer Life
- Sealed Grease Lubricated Tapered Roller Bearings in Sheave
- Weld Down Mounting Base
- Removable Guide Roller
- Epoxy Primer Coating

OPTIONAL FEATURES

- Customized Design to Suit Your Application
- Multiple Sheaves
- Stainless Steel or Nylon Sheaves
- Bolt Down Mounting Base
- Load Monitoring System
- Three Coat Marine Paint System
- Third Party Certification

DOUBLE SHEAVE BALANCED HEAD FAIRLEAD

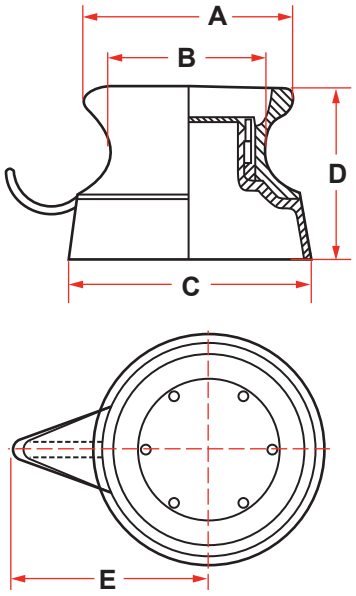


SIZE (IN)	DIMENSIONS (MM)									WEIGHT (KG)
	A	B	C	D	E	F	G	H	I	
1	531	100	275	127	129	129	365	365	679	195
1-1/4	667	127	365	150	152.5	152.5	660	508	920	495
1-1/2	867	178	459	205	205	205	760	760	1,280	1,080

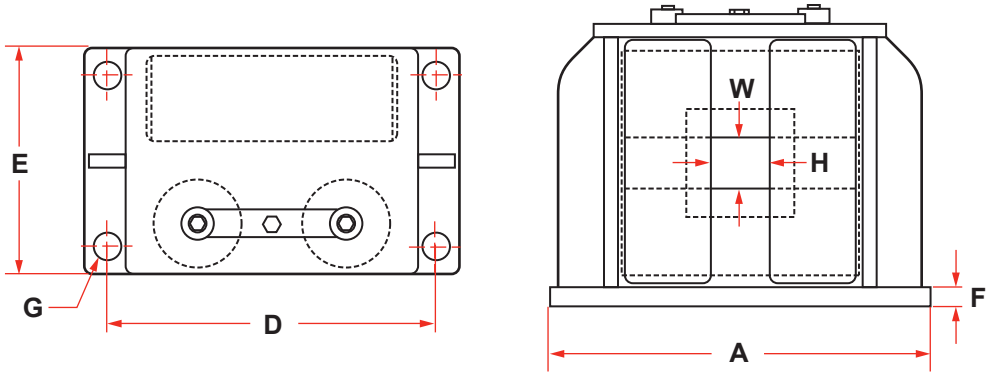
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PEDESTAL FAIRLEADERS

MODEL NO.	MAX WIRE SIZE	WIRE BREAKING STRENGTH (LBS)	DIMENSIONS (INCHES) A	B	C	D	E	WEIGHT (LBS)
PFH-10	3/4	58800	14	10	18	16	15	300
PFH-12	1	103400	16	12	20	16	16	350
PFH-14	1-3/8	192000	19	14	23	16-3/4	19-5/16	480
PFH-16	1-3/8	192000	20-1/2	16	24	18-1/4	19-13/16	600
PFH-18	1-1/2	288000	24	18	28	19	21	890
PFH-24	2	396000	30	24	36	27	24-1/2	1700



ROLLER FAIRLEADERS

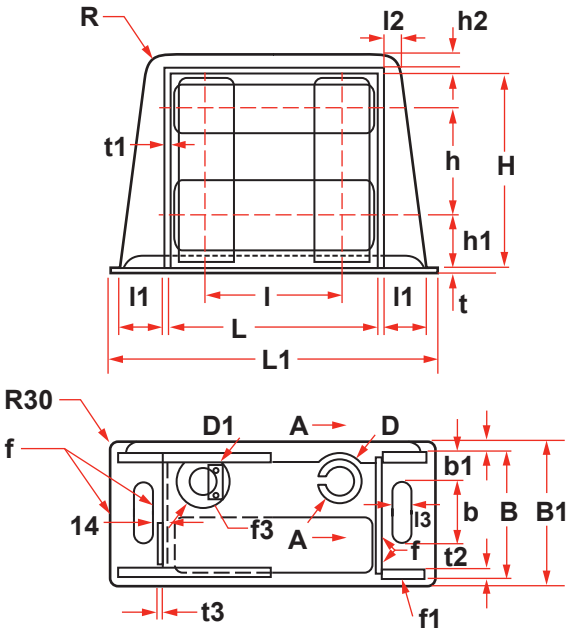


MODEL NO.	DIMENSIONS (INCHES) WIRE ROPER SIZE	VERTICAL ROLLER	HORIZONTAL ROLLER	OPENING W X H	A	B	C	D	E	F	G	ROLLER PIN	NO. BOLT HOLES	LBS.
RF-0	5/16 to 3/8	2.25 x 6.50	2.25 x 6.50	2.25 x 2.25	12.000	5.250	8.188	10.250	3.875	0.500	25/32	1.000	4	52
RF-1	1/2 to 7/8	4 x 11.375	4 x 11.375	2.75 x 2.75	17.500	10.500	13.125	15.000	8.000	0.750	1.063	1.375	4	235
RF-2	1 to 1-1/4	6 x 15.375	5.00 x 11.00	5.00 x 4.00	26.000	17.000	18.500	22.000	12.500	1.125	1.531	1.500	4	700
RF-3	1-3/4	8.00 x 22.50	8 x 22.50	6.5 x 6.5	36.750	23.000	27.125	31.000	8.000	1.500	1.813	3.000	6	2400

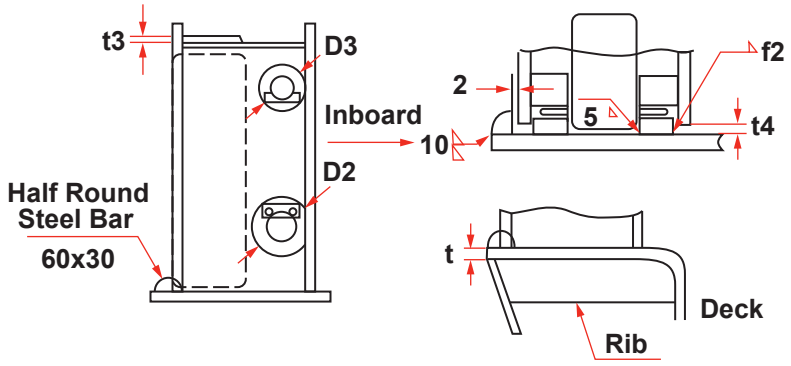
MODEL NO.	DIMENSIONS (MM) WIRE ROPER SIZE	VERTICAL ROLLER	HORIZONTAL ROLLER	OPENING W X H	A	B	C	D	E	F	G	ROLLER PIN	NO. BOLT HOLES	KGS
RF-0	8 to 10	57 x 165	57 x 165	57 x 57	305	133	208	260	98	13	20	25	4	24
RF-1	12 to 22	102 x 289	102 x 289	70 x 70	444	267	333	381	203	19	27	35	4	107
RF-2	25 to 32	152 x 391	127 x 279	127 x 102	660	432	470	559	318	29	39	38	4	318
RF-3	44	203 x 572	203 x 572	165 x 165	933	584	689	787	203	38	46	76	6	1089

Larger sizes available upon request.

4-ROLLER FAIRLEAD IMPORT



NOMINAL DIA.	FRAME																		SWL (TON)
	B	B1	B	B1	B2	D	D1	D2	D3	H	H	H1	H2	L	L1	I	I1	I2	
140	310	355	150	69	20	90	140	120	80	480	275	130	40	515	805	335	120	60	12
160	360	405	175	82	22	110	160	140	90	515	290	145	45	570	890	365	135	65	14
180	410	455	200	95	24	135	180	150	100	560	315	155	50	625	950	390	145	70	16
200	460	505	225	108	26	160	200	150	110	590	330	170	60	675	1049	420	160	80	25
250	565	510	280	133	30	200	250	200	130	715	415	195	75	820	1303	520	210	105	38
315	670	715	330	159	34	240	300	200	150	870	520	220	90	980	1562	520	260	130	45

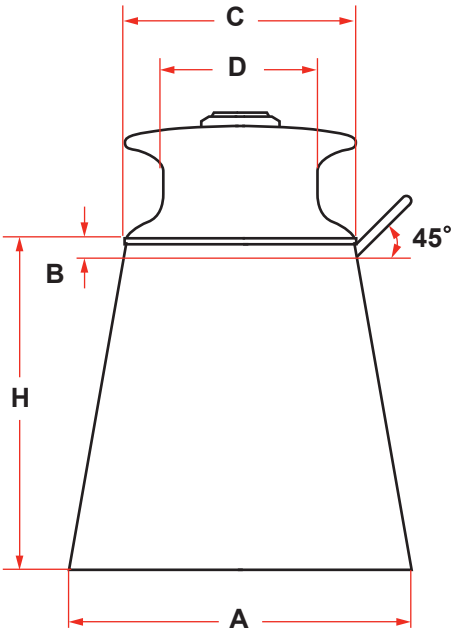


NOMINAL DIA.	FRAME							LEG OF WELD					WIRE ROPE DIA.	OPENING DIA.	REFERENCE MASS (KG)
	I3	I4	R	T	T1	T2	T3	F	F1	F2	F3	F4		LONG X WIDE	
140	50	20	40	12	10	16	6	20	9	6	12	4	18	145 x 195	187
160	50	20	45	14	10	18	9	22	9	7	12	6	22.4	150 x 220	277
180	50	20	50	16	10	20	10	24	9	9	12	8	25	150 x 199	387
200	50	20	60	18	12	22	10	26	10	10	14	8	28	152 x 204	510
250	50	25	75	20	14	26	12	30	10	12	14	10	35.5	199 x 253	900
315	50	25	90	22	16	30	14	34	12	14	16	10	42.5	253 x 302	1232

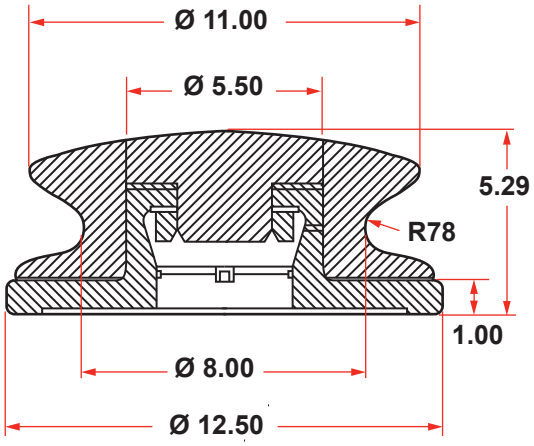
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FAIRLEADERS PEDESTAL TYPE

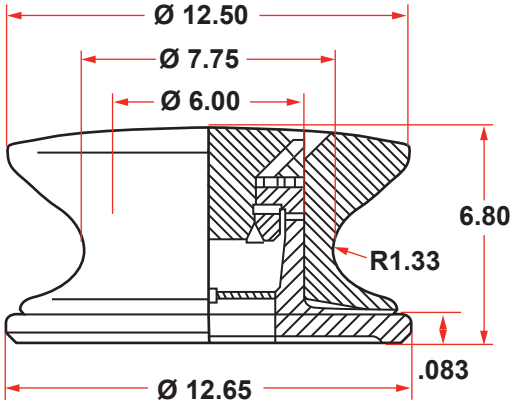
HEIGHT : H	800	1000	1200	1400			WALL THICKNESS
ROLLER DIA : D	A	A	A	A	B	C	
300	715	800	900	1000	25	440	12
350	800	825	950	1120	30	500	12
400	1000	1020	1020	1150	35	560	16
450	1020	1022	1120	1180	35	630	16
500	1020	1120	1180	1250	40	710	16
560	1120	1180	1250	1380	40	800	16



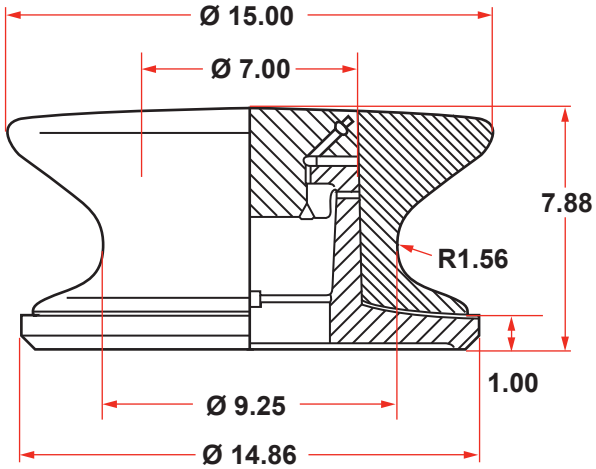
OTHER MODELS ROLLER BUTTONS



MODEL 50



MODEL 75

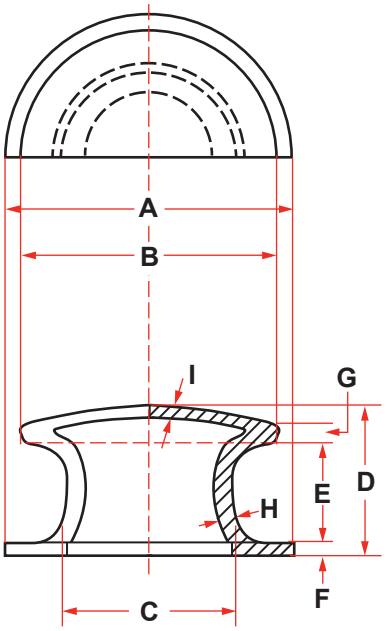


MODEL 100

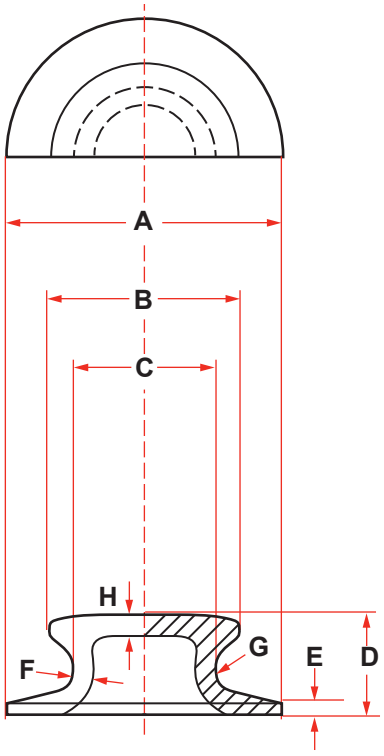
ROLLER BUTTONS FREE ROLLING

These are the finest high-loaded carrying, free-rolling roller buttons that have ever been designed, and are manufactured in sizes to suit the needs of boats, seagoing tugs and ships. Precision machined parts have working parts coated with an extremely hard coating – 70 Rockwell C-Scale – which is corrosion resistant. The buttons will not freeze up as most do, because they are closed at the top. The air pocket formed on the inside, makes it practically impossible for water to enter the working parts. Before shipment, the roller buttons are completely lubricated and should need only occasional attention after installation and use.

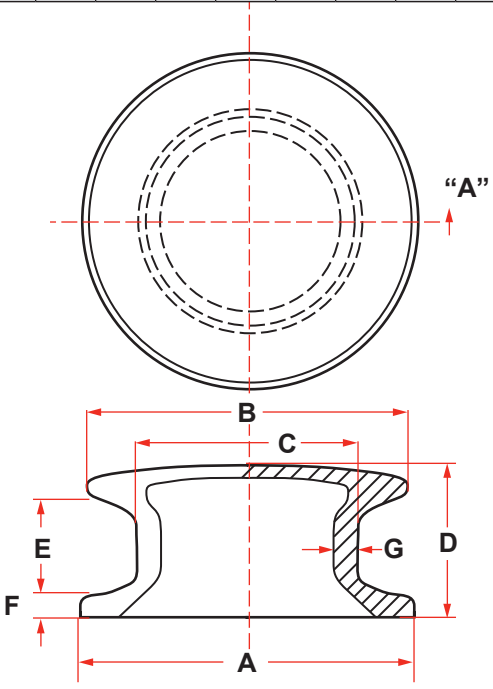
CAST STEEL BUTTON CHOCKS



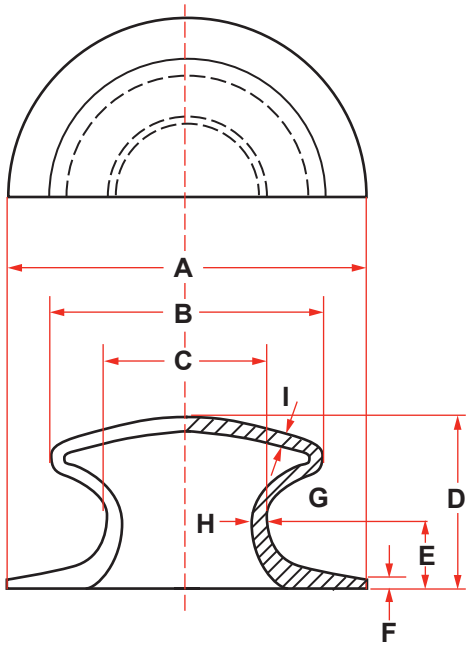
DIMENSIONS (INCHES)										WEIGHT
SIZE	A	B	C	D	E	F	G	H	I	(LBS)
10	17	15	10	8-1/2	5-3/4	5/8	1-1/8	1	1/2	138



DIMENSIONS (INCHES)									WEIGHT
SIZE	A	B	C	D	E	F	G	H	(LBS)
6	12	8-1/2	6	4-1/8	1/2	3/4	1-1/2	3/4	38

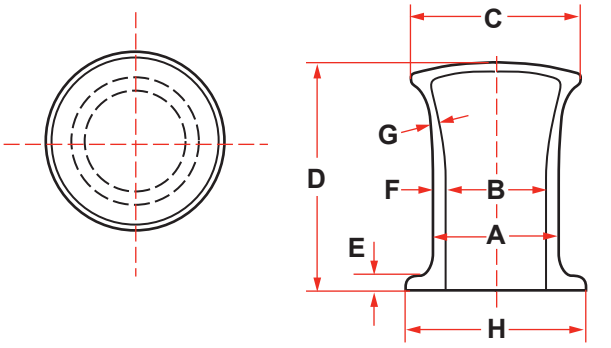


DIMENSIONS (INCHES)								WEIGHT
SIZE	A	B	C	D	E	F	G	(LBS)
8	13	12-1/2	8-5/8	5-1/4	3-11/16	3/4	7/8	75



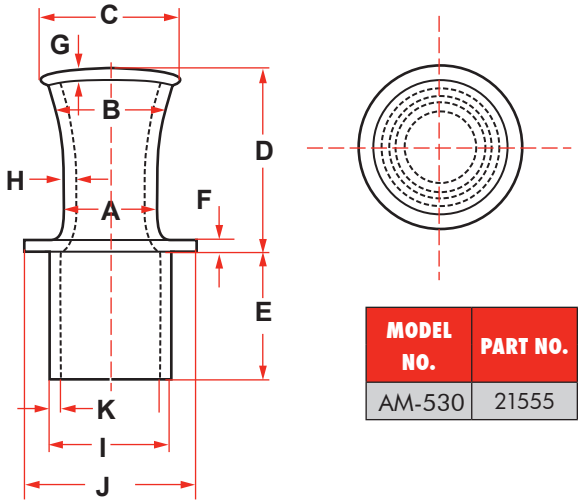
DIMENSIONS (INCHES)										WEIGHT
SIZE	A	B	C	D	E	F	G	H	I	(LBS)
9	20	15-1/2	9	9-1/2	3-1/2	5/8	2-1/2	3/4	1/2	158

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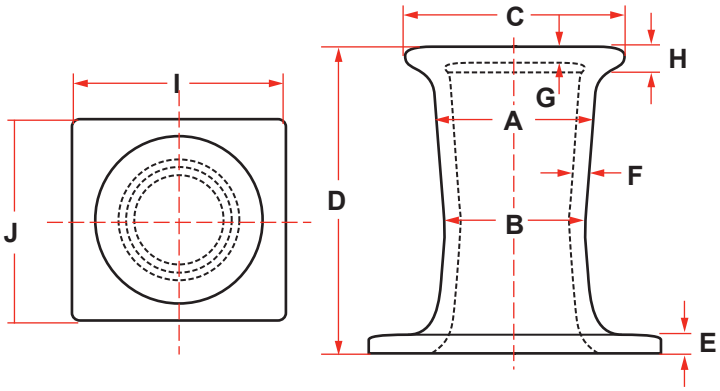
CAST STEEL SINGLE BITT

MODEL NO.	PART NO.	SIZE	DIMENSIONS (INCHES)								WEIGHT (LBS)
			A	B	C	D	E	F	G	H	
DF-SB10	20230	10	10	8	13-1/2	18	1	1	3/4	14	190



CAST STEEL SINGLE BITT THRU DECK

MODEL NO.	PART NO.	SIZE	DIMENSIONS (INCHES)											WEIGHT (LBS)
			A	B	C	D	E	F	G	H	I	J	K	
AM-530	21555	8	8	10-1/2	12	16	11	1	1	1	10-1/4	14	3/4	260

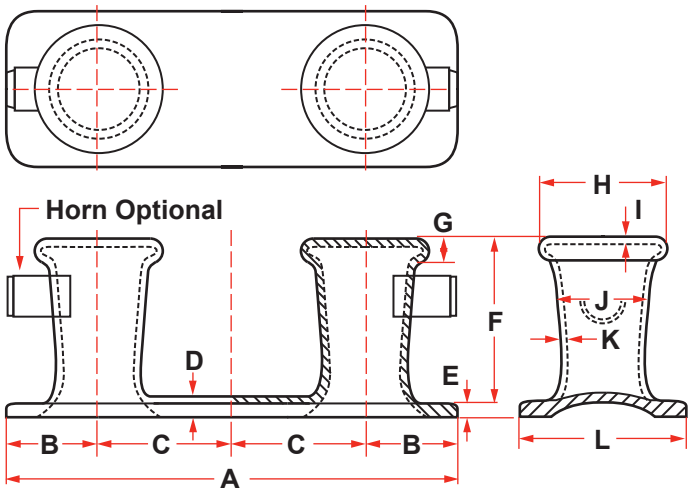


CAST STEEL SINGLE BITT

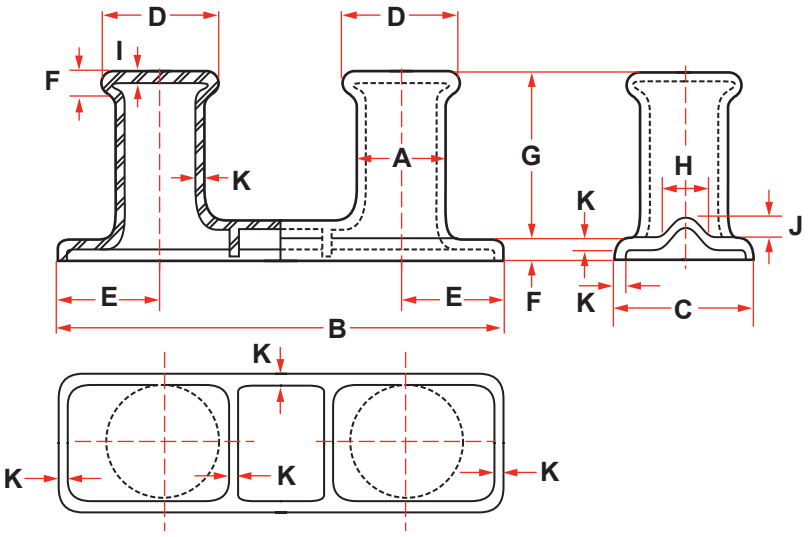
MODEL NO.	PART NO.	SIZE	DIMENSIONS (INCHES)										WEIGHT (LBS)
			A	B	C	D	E	F	G	H	I	J	
AM-588		8	8	7	11	14-3/4	1-1/4	1	3/4	1-1/2	14	14	160

CAST STEEL DOUBLE BITTS

LARGER SIZES AND TYPES AVAILABLE UPON REQUEST



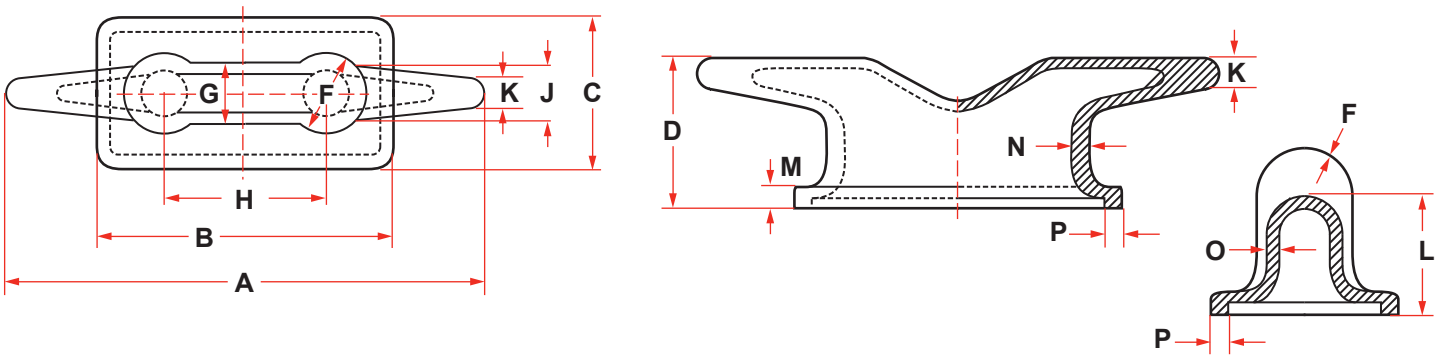
MODEL NO.	SIZE	DIMENSIONS (INCHES)												WEIGHT (LBS)
		A	B	C	D	E	F	G	H	I	J	K	L	
AM-2	8	40	8	12	2	1-1/4	16	2	11	5/8	7	5/8	14	320
AM-2A	w/ Horn													330
AM-40	10	45	9	13-1/2	2-1/4	1-1/4	18	2	13-1/2	3/4	9	1-1/4	15	545
AM-40A	w/ Horn													560



MODEL NO.	SIZE	DIMENSIONS (INCHES)											WEIGHT (LBS)
		A	B	C	D	E	F	G	H	I	J	K	
AM-491	12	12	60	18	15	13-1/2	3	22-1/2	6	1	2	1-1/4	990
AM-498	14	14	66	21	17-1/2	13	3-1/2	26-1/4	7	1	2	1-1/2	1350

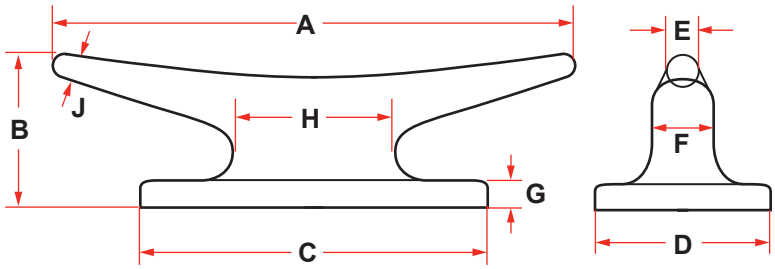
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AMERICAN MARINE STANDARD CLEATS



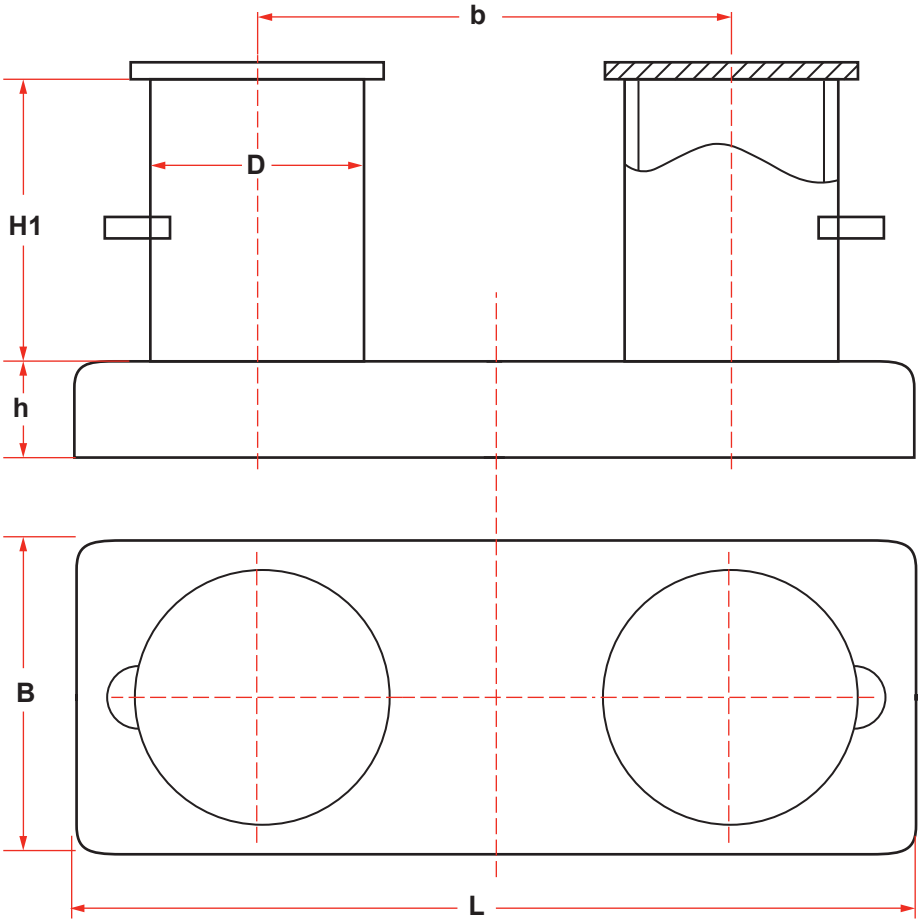
DIMENSIONS (INCHES)														PATTERN NO.	WEIGHT (LBS)
A	B	C	D	F	G	H	J	K	L	M	N	O	P		
8	6	4-1/2	3	1-1/2	1-1/4	3	1-1/4	1/2	2	1/2	5/8	1/2	1/2	17002	12
10	6-3/4	5	3-1/4	1-3/4	1-3/8	3-1/2	1-3/8	5/8	2-1/4	1/2	5/8	1/2	1/2	17190	14
12	7-1/2	5-1/2	3-1/2	2	1-1/2	4-1/2	1-1/2	3/4	2-1/2	5/8	5/8	1/2	5/8	17295	16
16	10-1/2	7-1/8	5	2-1/2	2	5-1/4	2	7/8	3-1/2	1	7/8	9/16	5/8	17300	32
20	13	6-1/4	6	3-1/2	2-1/2	6-1/2	2-1/4	1-1/8	4-1/2	1-1/8	1	5/8	3/4	4740	48
24	15-1/2	9-1/2	7-1/4	4	3	8	3	1-3/8	5-1/4	1-1/4	1-1/8	11/16	7/8	5353	65
30	19	11-1/4	8	5	3-1/2	10	3-1/2	1-3/4	6-1/2	1-3/8	1-1/4	3/4	1	4732	120
36	22-1/2	12-1/4	10-1/2	6	4-1/2	12	4	2	7-1/2	1-1/2	1-3/8	13/16	1-1/8	4742	193
42	26	13-1/4	12	7	5-1/4	14	4-1/2	2-3/8	8-1/2	1-5/8	1-1/2	7/8	1-1/4	4733	285
48	29-1/2	15-1/4	14	8	6	17	5-1/2	2-3/4	9-1/2	1-3/4	1-5/8	15/16	1-3/8	16632	315
54	33-1/2	16-1/2	15-1/2	9	6-1/2	18	6	3	11	2	1-3/4	1	1-1/2	16690	500

CLEATS



DIMENSIONS (INCHES)								
A	B	C	D	E	F	G	H	J
8	3	5	3	5/8	1-1/4	1/2	3	5/8
12	3-1/2	8	4	5/8	1-3/8	9/16	3-3/4	5/8
14	4	8	4-1/2	3/4	2	3/4	4-1/8	3/4
16	4-1/2	8	5	7/8	2-1/2	7/8	4-1/2	7/8
18	5	9	5-1/2	1	3	7/8	4-7/8	1

DOUBLE BITTS, FABRICATED 8" TO 20"

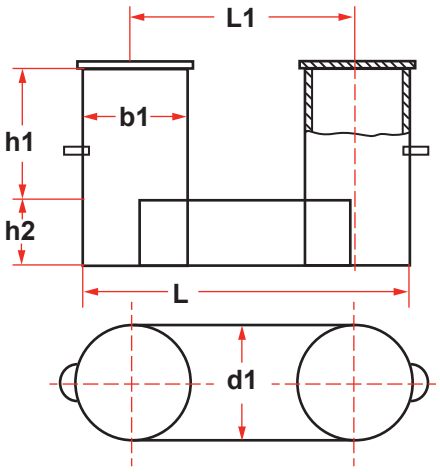


NOMINAL DIA.	DIMENSIONS (MM)						MAX B.L. OF ROPE (TON)	MASS (KG)
	D	H1	b	B	L	h		
100	114	150	250	165	445	50	3	19
125	139	190	315	195	540	60	4	29
160	165	250	400	225	670	70	5	45
200	216	300	500	290	860	85	8	80
250	267	380	630	360	1065	100	12	139
315	318	480	800	430	1300	125	20	261
355	355	530	890	480	1475	145	26	361
400	406	600	1000	550	1630	160	32	502
450	457	680	1130	620	1840	170	39	685
500	508	750	1250	690	2040	190	46	911
560	558	830	1380	750	2240	210	56	1208
630	609	940	1570	820	2510	225	70	1600
710	711	1050	1750	960	2840	260	82	2252
800	812	1200	2000	1100	3240	295	100	3071

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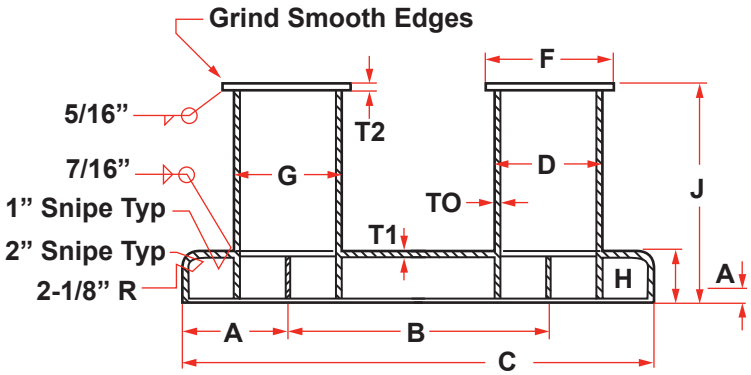
DECK BOLLARDS - DOUBLE BITTS

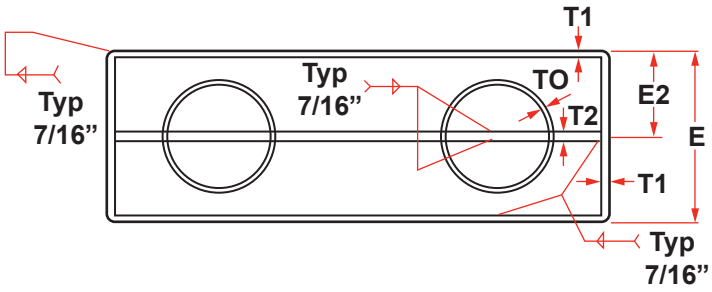
BOLLARDS DB-138



DIMENSIONS IN MM							MAX. B.L. OF ROPE TON	MASS (KG)
NOMINAL DIA.	B1	D1	H1	H2	L1	L		
100	114	114	150	75	250	364	4	16
125	140	140	190	80	315	455	4	24
160	168	168	250	90	400	568	5	38
200	219	219	300	100	500	719	8	60
250	273	273	360	125	630	903	12	101
315	324	324	480	150	800	1124	20	197
400	406	406	600	175	1000	1406	32	371
500	508	508	750	200	1250	1758	46	635
630	610	610	940	225	1570	2180	70	1162
710	711	711	1050	250	1750	2461	82	1509
800	813	813	1200	275	2000	2813	100	2081

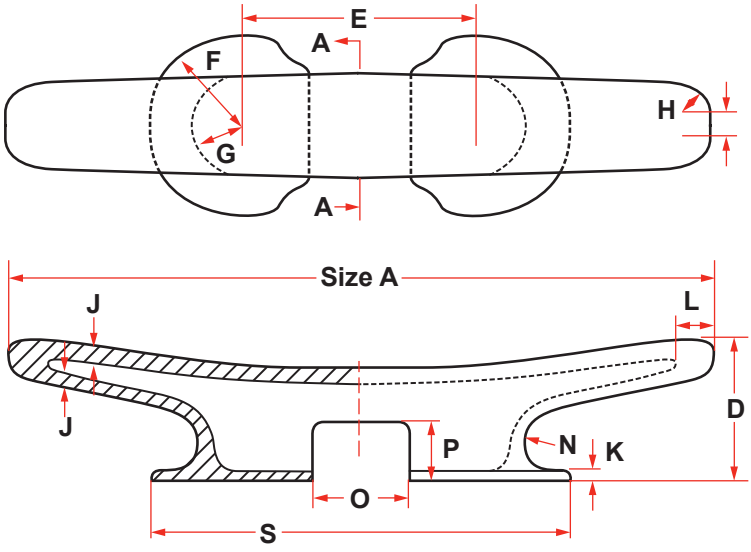
The bollard suitable for wire or rope with breaking load (tons) when cross belayed on the bollard - for mooring. When belayed on one bitt only approximately 2xBL is valid - for towing. Bollard scantlings per ISO 3913.

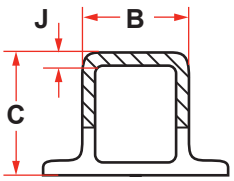




DIMENSIONS (INCHES)											
DRAWING	BARREL	PIPE CHED.	A	B	C	D	E	F	G	H	J
S 1051F	10	120	8-5/8	22	39-1/4	10-3/4	17-1/4	14	11	7	24
S 1052F	12	80	12-3/4	31-1/2	57	12-3/4	19	15-3/4	13	7	27
S 1123F	14	80	14-1/4	35-1/2	64	14	21-1/2	17	14-1/4	7-1/2	30
S 1124F	16	80	15-3/4	39-1/2	71	16	24	19	16-1/4	8	33
S 1128F	18	80	17-3/4	44-1/2	80	18	27	21-1/2	18-1/4	8-1/2	36
S 1345F	20	80	19-7/8	49-1/4	89	20	30	24	20-1/4	9	40
S 1346F	24	80	25	66	116	24	38	31	24-1/4	10	54

KEVEL

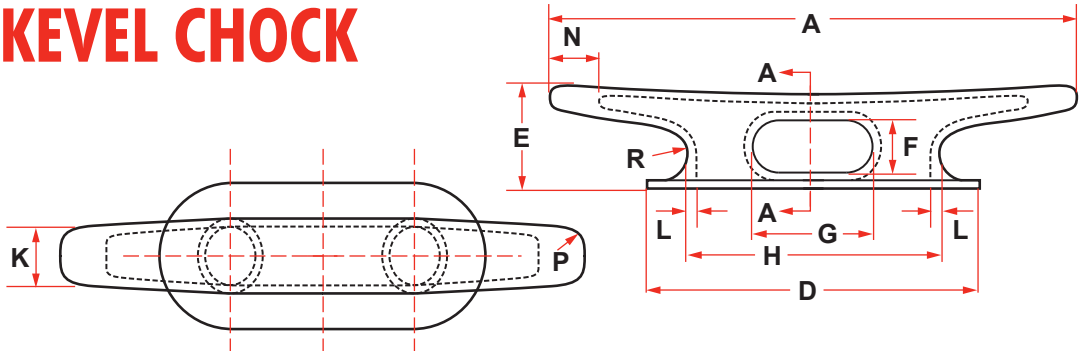


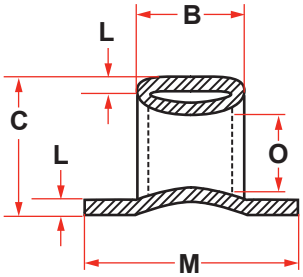


MATERIAL CAST STEEL

DIMENSIONS (INCHES)																
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	S
30	4	5	6-1/8	10	4	2	1-1/4	3/4	1/2	3/8	1-3/4	3/4	1	4	2-1/4	18
36	5	5-7/8	7-1/8	12	5	2-1/2	1-1/2	1	9/16	1/2	2-1/8	7/8	1-1/2	5	2-3/4	22
42	6	7	8-1/2	14	6	3	1-7/8	1-1/4	5/8	5/8	2-1/2	1	2	6	3-1/4	26
48	7	9	10	16	7	3-1/2	2	1-1/2	3/4	3/4	4	1-1/4	2-1/2	7	4	30
60	7	9	13	20	9	4-1/2	2	1-3/4	3/4	3/4	4	1-1/4	2-1/2	9	4	38

KEVEL CHOCK

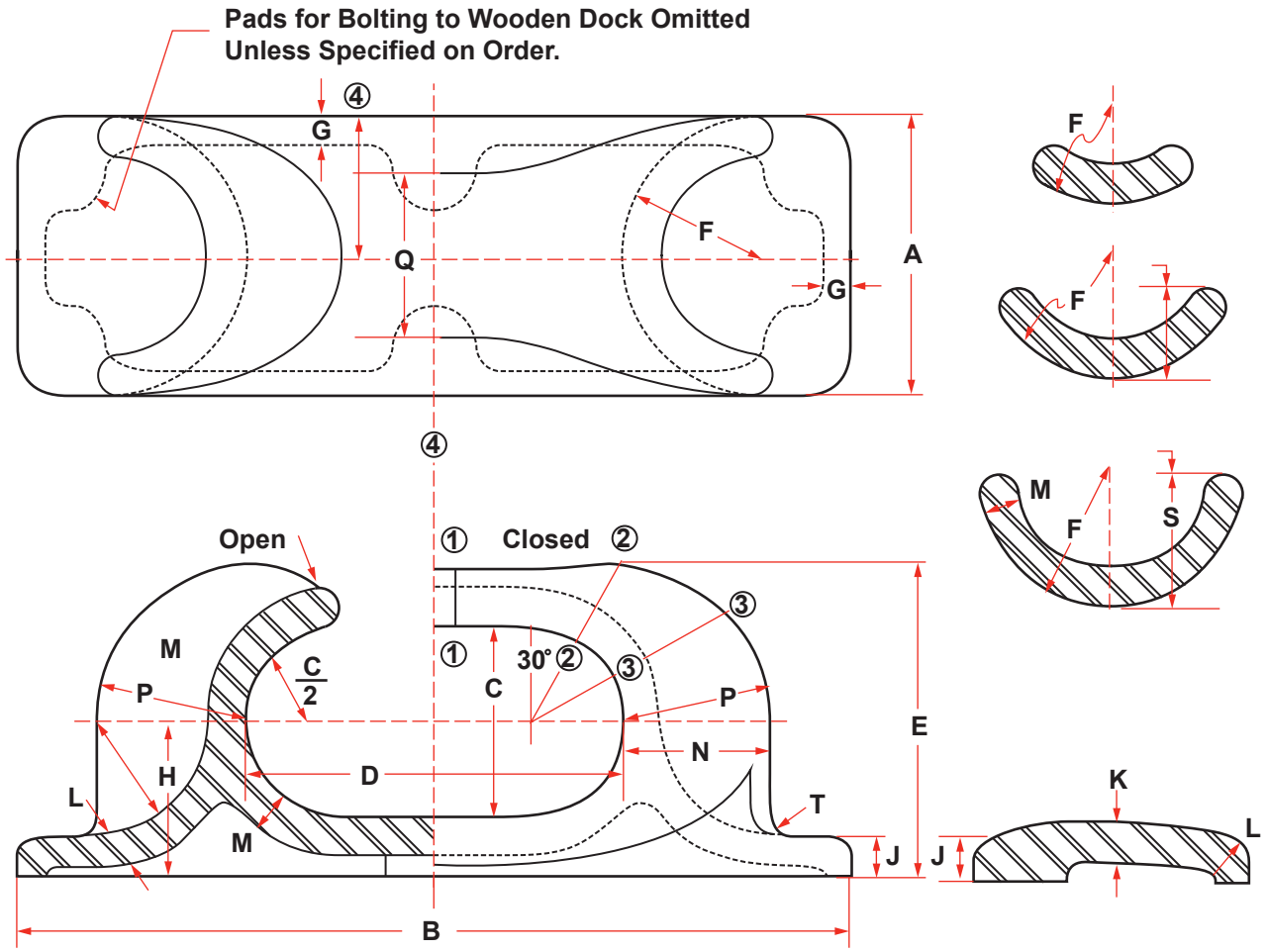




DIMENSIONS (INCHES)															
A	B	C	D	E	F	G	H	K	L	M	N	O	P	R	T
24	3	4-1/2	17	6	1-1/2	5-1/2	11	1-1/2	1/2	8	2	1-1/2	1-1/8	1	3/4
30	4	5-5/8	20-1/4	7	2-3/8	6-7/8	14	3-1/4	1/2	9-1/2	2	2-3/8	1-1/4	1-3/8	7/8
36	5	6-3/4	23-1/2	8	3-1/4	8-1/4	17	4	9/16	11	2-1/2	3-1/4	1-1/2	1-3/4	1
42	6	7-7/8	26-3/4	9	4-1/8	9-5/8	20	4-3/4	5/8	12-1/2	2-3/4	4-1/8	1-7/8	2-1/8	1-1/8
48	7	9	30	10	5	11	23	5-1/2	3/4	14	4	5	2	2-1/2	1-1/4

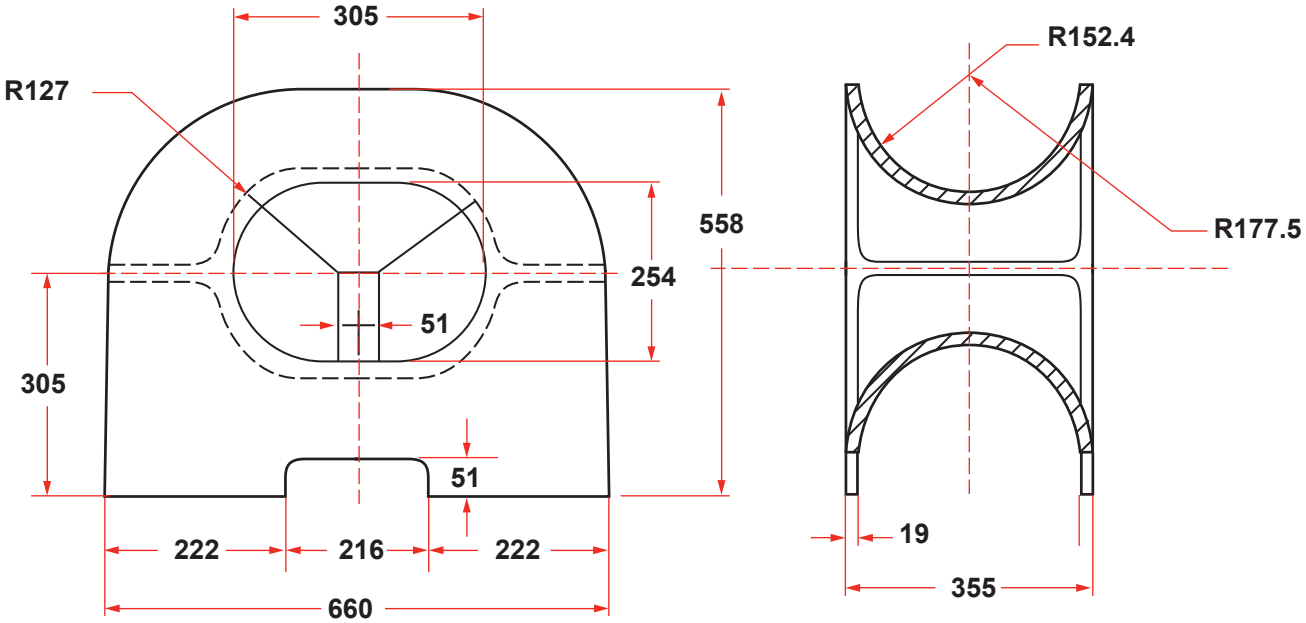
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DECK MOUNT PLAIN CHOCK

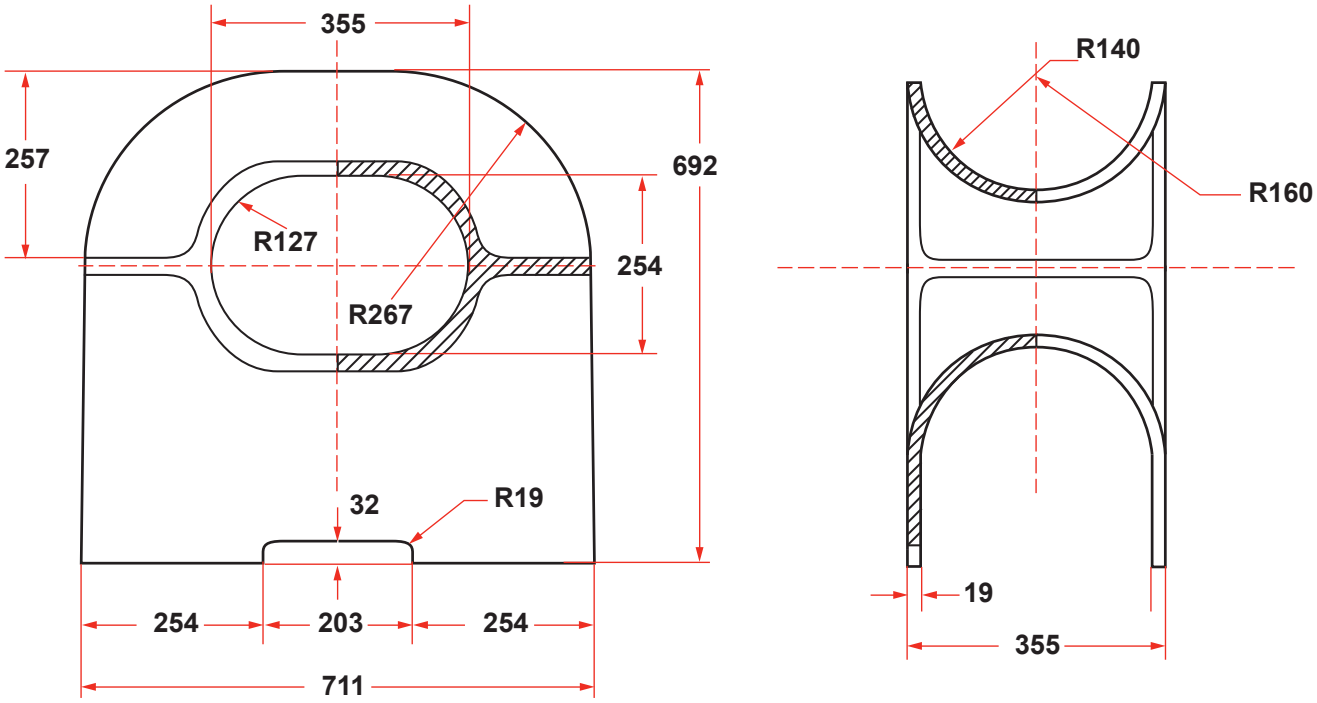


SIZE	DIMENSIONS (INCHES)																
A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
6	19-3/4	4	8	6-3/4	3	3/4	3-3/8	1	1-3/8	3/4	1	3-1/4	3-3/8	3-1/2	1-7/8	2-7/8	3/8
7	22-3/8	4-3/8	9-1/4	7-7/8	3-1/2	3/4	3-15/16	1-3/16	1-3/8	7/8	1-1/8	3-13/16	3-15/16	4-1/8	2-3/16	3-15/16	3/8
8	25-1/4	5-3/8	10-3/4	9	4	7/8	4-1/2	1-5/16	1-13/16	1	1-1/4	4-3/8	4-1/2	4-3/4	2-9/16	3-3/4	1/2
9	27-3/4	6	12	10-1/8	4-1/2	7/8	5-1/16	1-1/2	2-1/16	1-1/8	1-3/8	4-7/8	5-1/16	5-1/4	2-7/8	4-1/4	1/2
10	30-3/8	6-5/8	13-1/4	11-1/8	5	1	5-1/2	1-9/16	2-3/16	1-1/4	1-1/2	5-7/16	5-3/8	5-7/8	3-3/16	4-3/4	5/8
11	33-1/4	7-3/8	14-3/4	12-1/4	5-1/2	1	6-1/16	1-11/16	2-3/8	1-3/8	1-5/8	6	6-3/16	6-1/2	3-1/2	5-1/4	5/8
12	36	8	16	13-3/8	6	1-1/4	6-5/8	1-7/8	2-5/8	1-1/2	1-3/4	6-1/2	6-3/4	7	3-7/8	5-3/4	3/4
14	42	9-3/8	18-3/4	15-5/8	7	1-1/4	7-3/4	2-3/16	3-1/16	1-3/4	2	7-5/8	7-7/8	8-1/4	4-1/2	6-11/16	7/8
18	54	12	24	20	9	1-1/2	9-7/8	2-3/4	3-7/8	2-1/4	2-1/2	10-1/8	10-1/8	10-1/2	5-3/4	8-5/8	1-1/8

CHOCKS - DECK MOUNTED, SIZE 10" X 12"

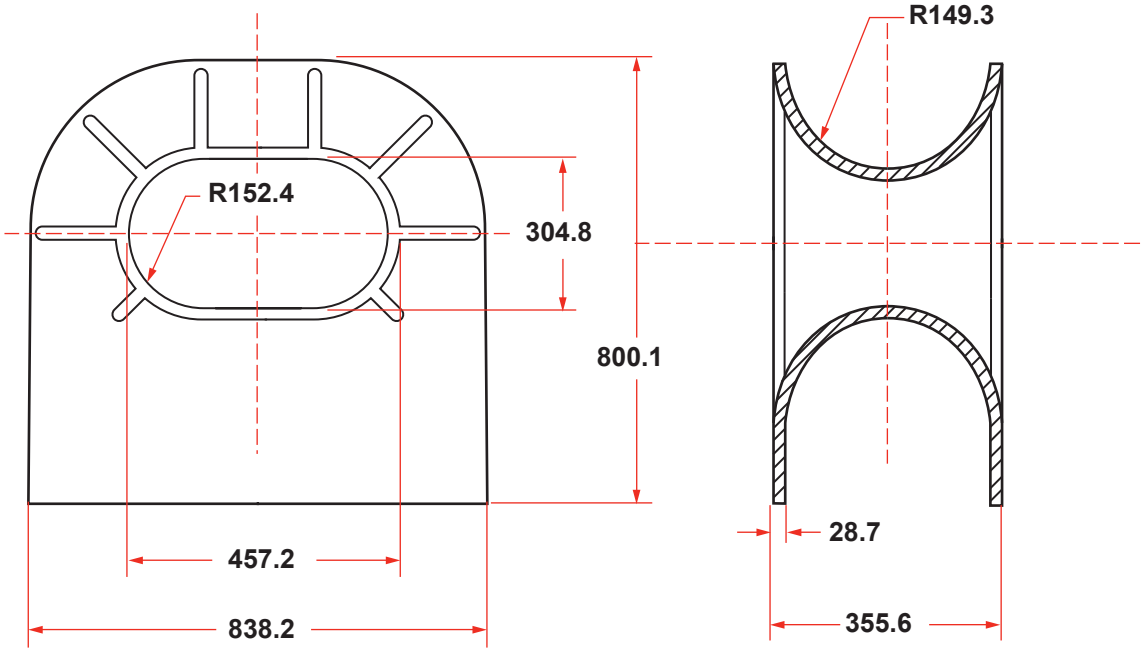


CHOCKS - DECK MOUNTED, SIZE 10" X 14"

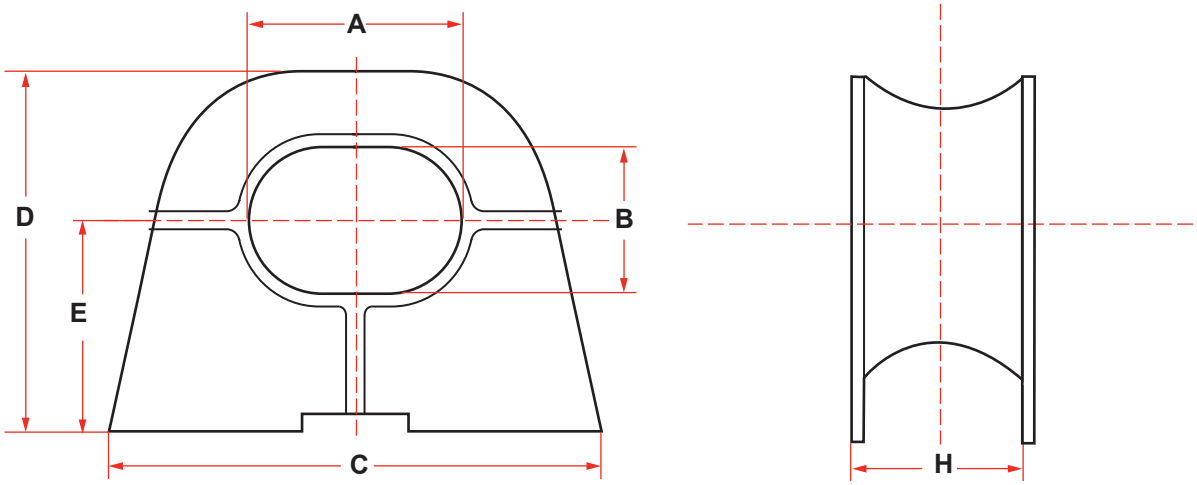


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CHOCKS - DECK MOUNTED, SIZE 12" X 18"

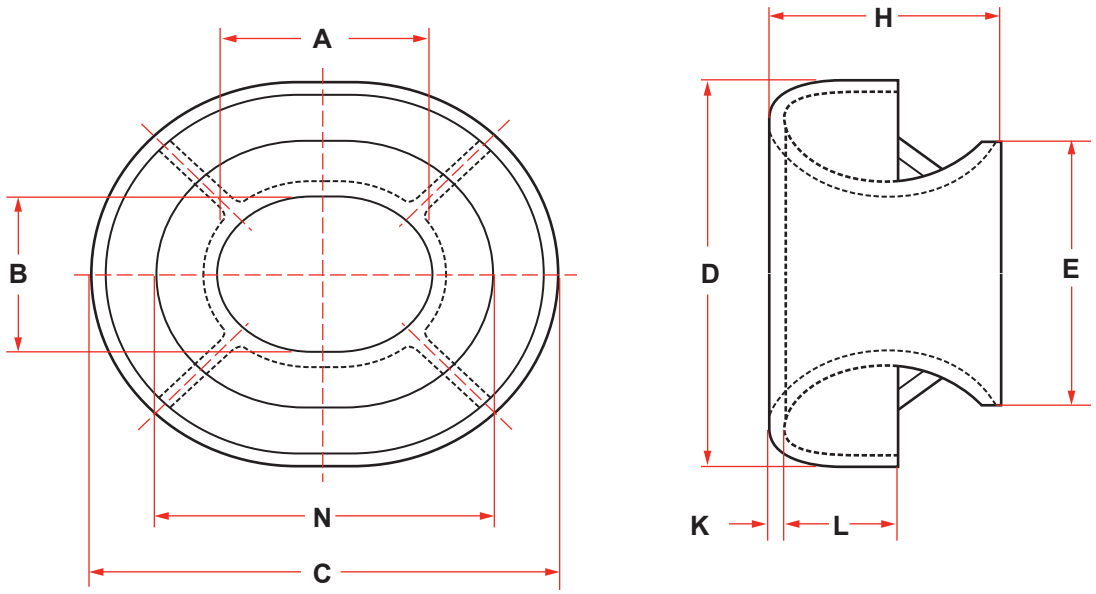


CHOCKS - DECK MOUNTED, TYPE EU
SIZES 10" X 12" - 18" X 24"



DIMENSIONS (MM)							MASS (KG)
NOMINAL SIZE	A	B	C	D	E	H	
315 x 250	315	250	815	620	365	380	230
425 x 280	425	280	1075	785	450	500	378
600 x 315	600	315	1360	865	507	560	598
600 x 450	600	450	1360	1000	575	560	655
600 x 450	600	450	1560	1200	675	760	780

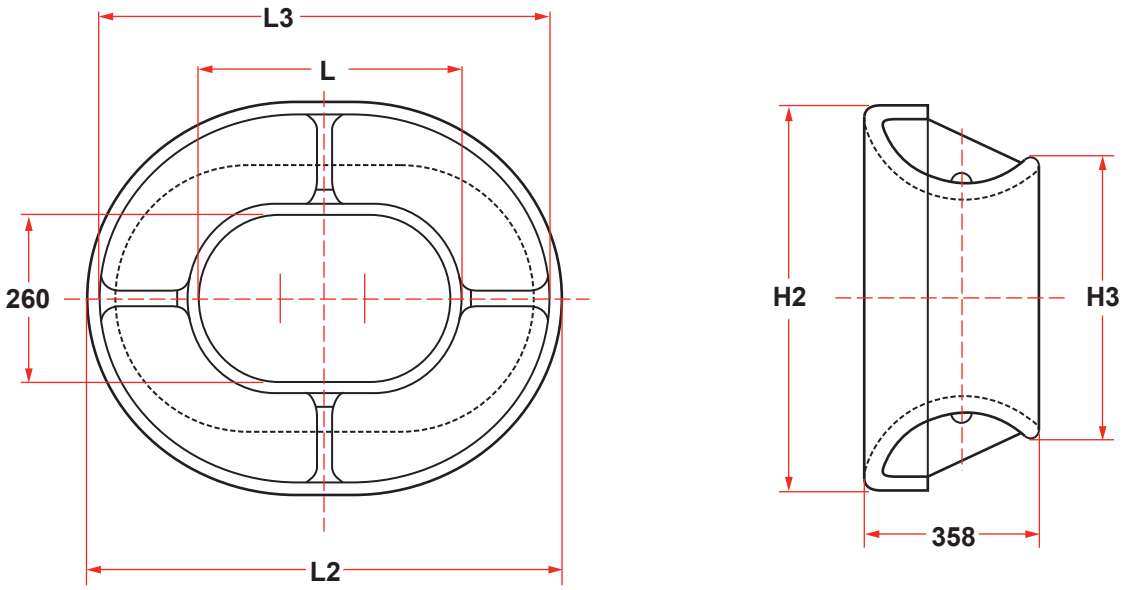
BULWARK MOUNTED PANAMA CHOCK



DIMENSIONS (MM)								MASS (KG)
A X B	C	D	E	H	K	L	N	
315 X 250	695	630	432	342	22	168	497	198
425 X 280	925	780	516	450	26	224	661	358
600 X 315	1160	875	571	504	30	250	866	547
600 X 450	1160	1010	706	504	30	250	866	629
600 X 450	1360	1160	1060	504	30	250	1260	813

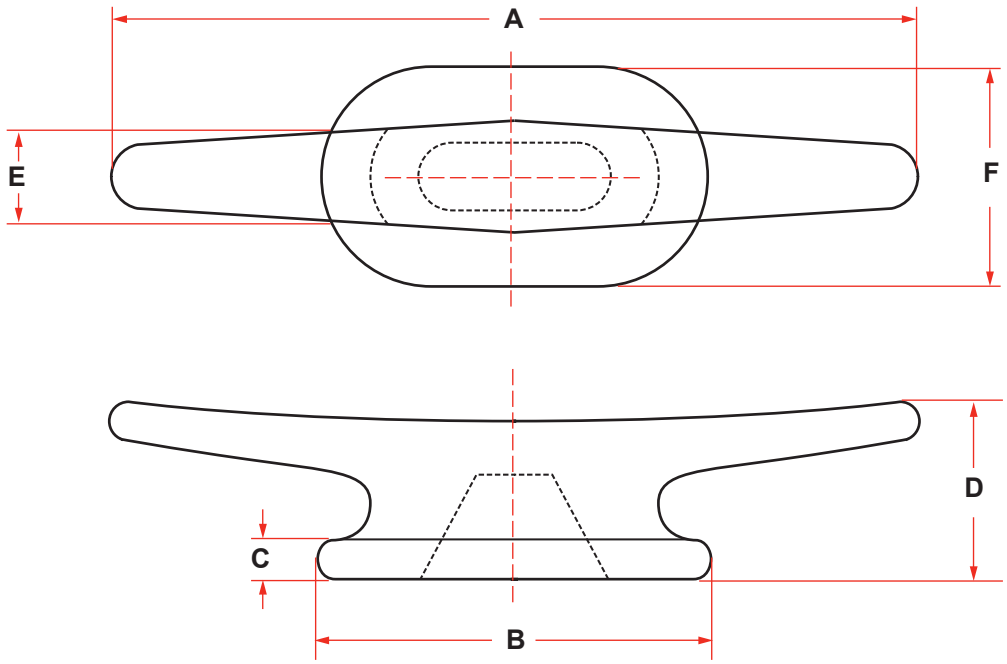
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BULWARK MOUNTED PANAMA CHOCK



DIMENSIONS (MM)						MASS (KG)
NOMINAL SIZE	L	L2	L3	H2	H3	
310	310	734	652	684	462	276
360	360	788	701	688	464	305
400	400	832	750	692	470	344
450	450	888	802	696	474	385
500	500	940	854	700	478	422

WELD ON STEEL CLEATS

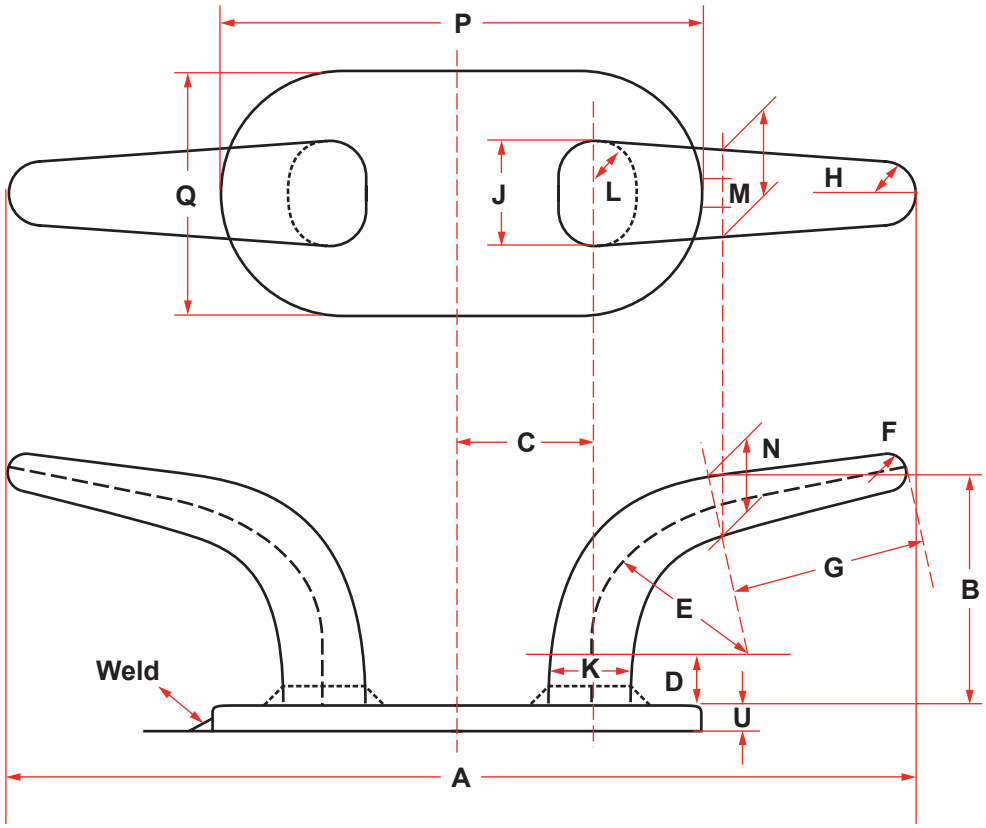


ASTM A27 GRADE 70-36 CAST STEEL

CLEAT SIZE (INCHES)	DIMENSIONS (MM)						WEIGHT (LBS)
	A	B	C	D	E	F	
8	8.00	4.40	0.35	1.70	1.25	2.14	3.00
10	10.00	5.13	0.40	2.24	1.42	2.53	4.30
12	12.00	5.55	0.55	2.75	1.70	3.50	8.00
14	14.00	7.00	0.53	3.20	2.13	4.00	13.00
16	16.00	8.25	0.75	3.50	2.13	4.50	17.00
18	18.00	9.25	0.85	4.26	2.63	4.75	24.00

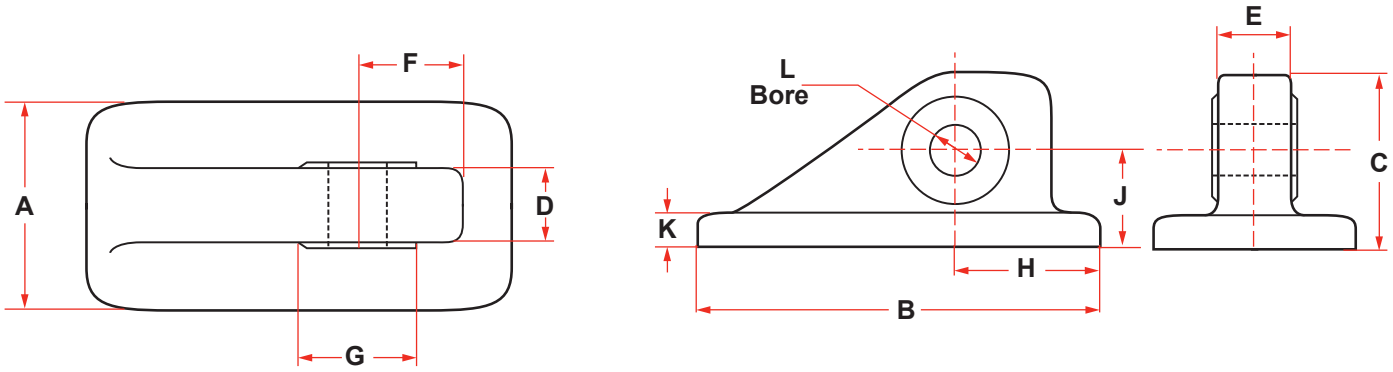
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HORN CLEATS - STEEL



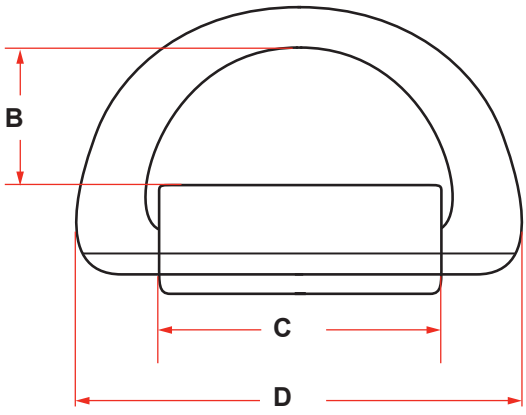
DIMENSIONS (INCHES)															
A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	U
8	2	1	1/2	1-1/4	5/32	1-15/16	5/32	11/16	11/16	-	9/16	9/16	4	2	1/4
10	2-5/8	1-1/2	1/2	1-3/4	3/16	2-5/32	3/8	1-1/4	7/8	7/16	1-1/6	11/16	5-3/8	2-3/4	5/16
12	3-1/4	1-3/4	3/4	2	3/16	2-23/32	7/16	1-5/8	1-1/8	9/16	1-3/8	7/8	6-3/8	3-1/4	3/8
16	4	2-5/8	1	2-1/2	1/4	3-7/8	9/16	2	1-1/4	5/8	1-3/4	1	8-1/4	4	1/2
18	4-1/2	2-5/8	1-1/8	2-3/8	5/16	4-11/16	5/8	2-1/2	1-1/2	3/4	2-1/8	1-1/8	9-1/8	5	5/8
20	5	2-3/4	1-1/4	2-5/8	5/16	5-3/8	3/4	2-3/4	1-5/8	13/16	2-3/8	1-1/4	9-7/8	5-1/2	5/8

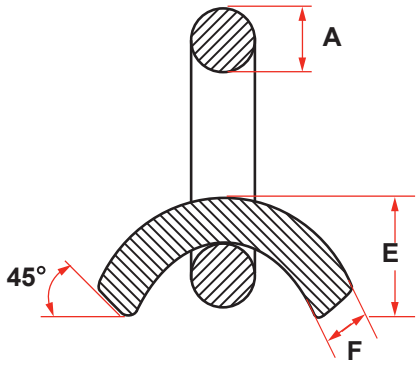
TOWING PAD EYE



DIMENSIONS (INCHES)											
Chain Size	A	B	C	D	E	F	G	H	J	K	L
3/4	5	10	4-3/4	3/4	1	1-3/4	1-7/8	2-1/4	2-3/4	3/4	15/16
1	5	10	5-1/4	1-3/16	1-7/16	1-3/4	2-3/8	2-3/4	3	3/4	1-3/16
1-1/4	6	12	6	1-17/32	1-25/32	2-1/2	3	3-3/4	3-1/2	1	1-7/16
1-1/2	6	12	6-3/4	1-7/8	2-1/8	3	3-5/8	4-1/2	3-7/8	1	1-11/16
2	8	16	8-1/2	2-3/4	3	4-1/4	5	5-3/4	5	1-1/2	2-5/16
2-1/2	10	20	9-3/4	3-5/8	3-7/8	5	6	8	5-3/4	1-3/4	2-13/16
3	12	24	10-1/2	4-1/2	4-3/4	5-5/8	6-1/2	9	6	2	3-5/16

D-RING

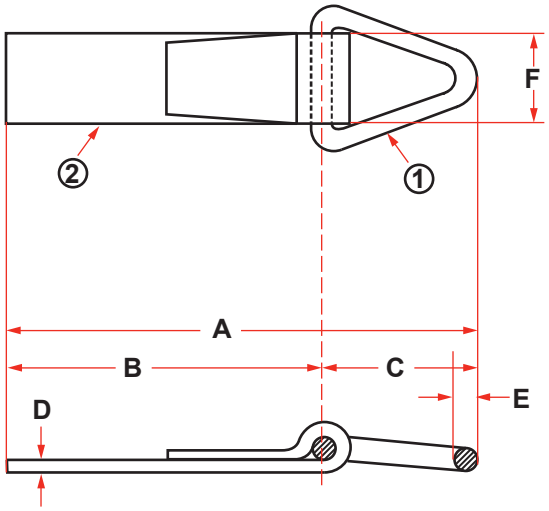




DIMENSIONS (MM)							
Tons	A	B	C	D	E	F	Weight (Kg)
7	12.7	44.5	60.3	95.3	22.4	6.5	.45
36	22	66	125	208	36	12	2.4
41	23	79.4	127	203.2	44.5	12.7	3.5
50	25.4	67.2	127	222.3	51.9	16	4.7

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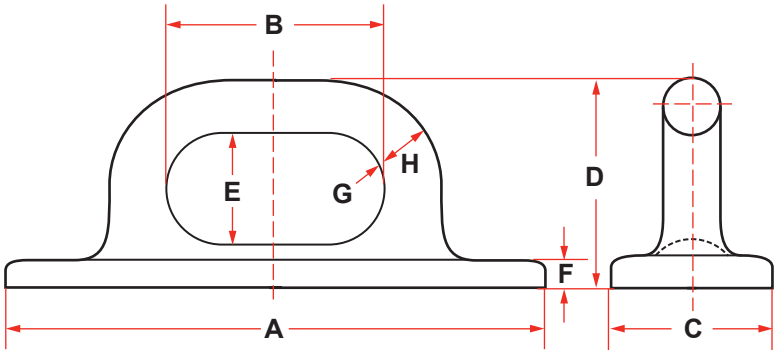
RATCHET STRAP



PIECE NO.	DESCRIPTION	PART NO.	MATERIAL
1	Ratchet Strap Ring	75736	Mild Steel
2	Ratchet Strap Plate	75744	Mild Steel

MODEL NO.	A	B	C	D	E	F	WEIGHT (LBS)
DF-80	35-5/8	24	9-7/8	3/4	1-3/4	7	83

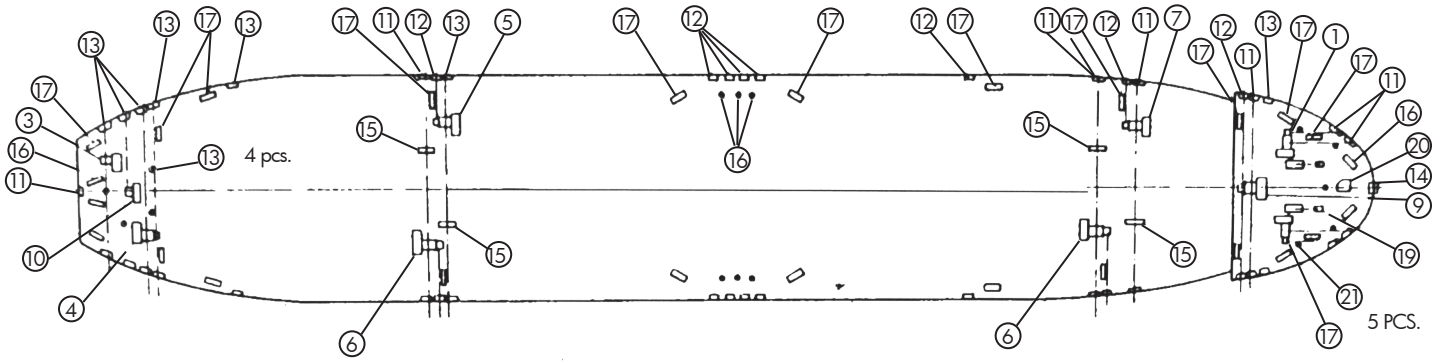
CAST STEEL D-RING



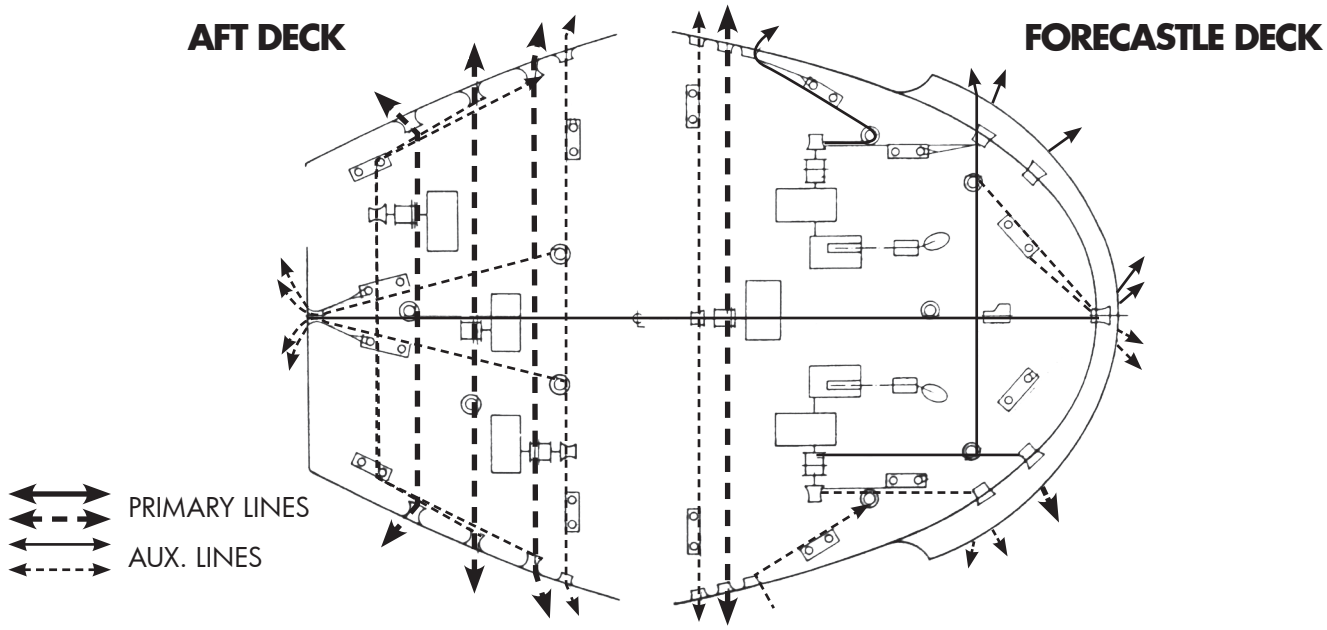
MODEL NO.	A	B	C	D	E	F	G	H	WEIGHT (LBS)
DF-196	20	8	6	7-5/8	4	1	2	2-1/8	55

MOORING FITTING ARRANGEMENT

350 KDWT TANKER WITH 10 MOORING WIRES



ITEM	DESCRIPTION
1, 2	Combined Anchor Windlass/Mooring Winch
3 - 9	Single Drum Mooring Winch with Warping Head
10	Single Drum Mooring Winch without Warping Head
11	Panama type Fairlead, 500 x 350 mm opening deck mounted
12	Closed Fairlead, 400 x 250 mm opening deck mounted
13	Panama type Fairlead, 350 x 250 mm opening bulwark mounted
14	Panama type Fairlead, 600 x 450 mm opening bulwark mounted
15	Overhead Roller Fairlead
16	Vertical Bollard, 450 mm diameter
17	Vertical Bollard, 350 mm diameter
18	Cruciform Bollard, 300 mm diameter
19	Chain Stopper for Anchors
20	Bow Stopper
21	Pedestal Fairlead



DOORS/HATCHES

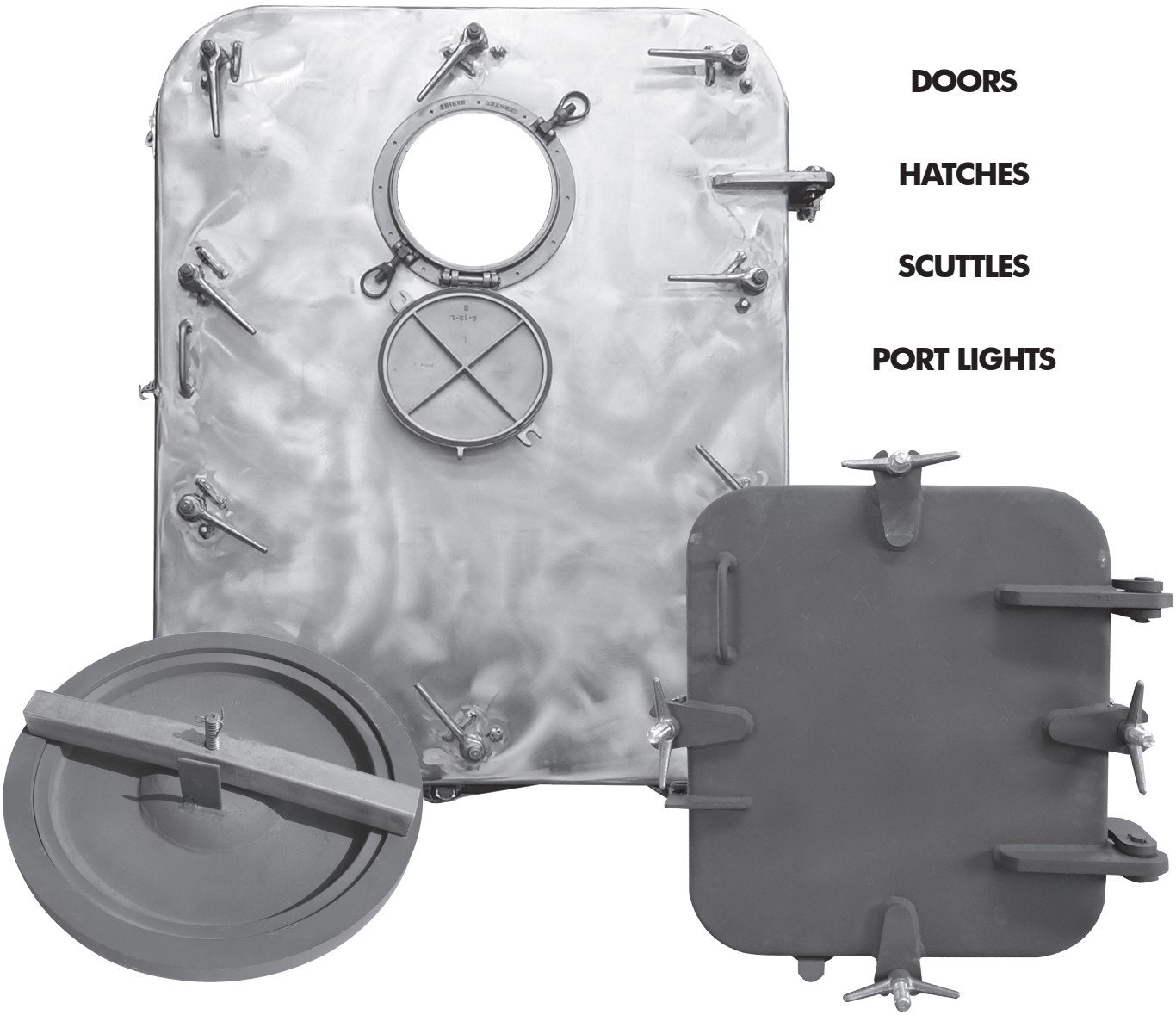
WATERTIGHT

DOORS

HATCHES

SCUTTLES

PORT LIGHTS



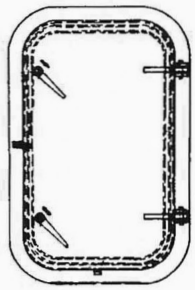
LET US KNOW YOUR REQUIREMENTS

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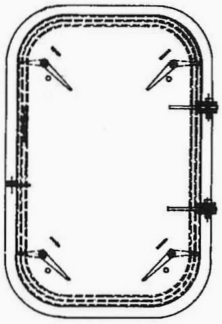
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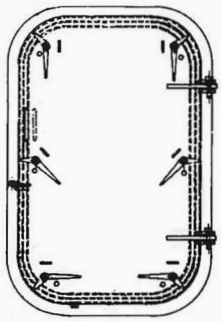
DOORS/HATCHES



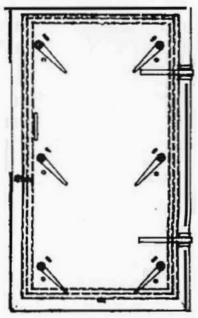
#100 2-DOG
FUMELIGHT DOOR



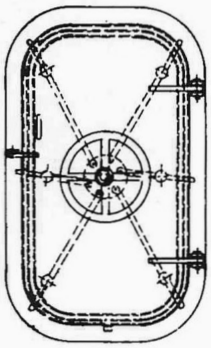
#101 4-DOG
WEATHERTIGHT DOOR



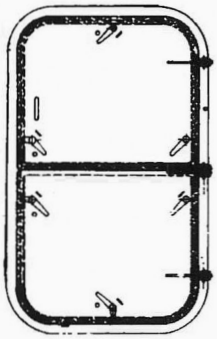
#102 6-DOG
WATERTIGHT DOOR



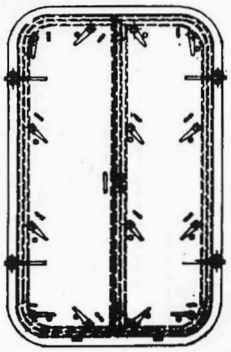
#103 6-DOG
SQUARE CORNER DOOR



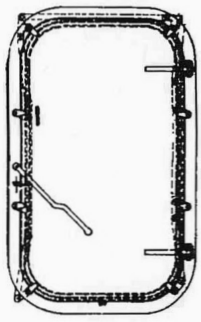
#104 6-DOG
QUICK ACTING DOOR



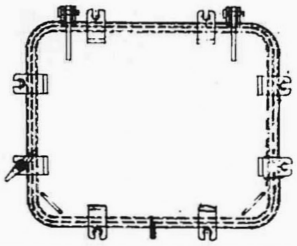
#105 6-DOG
DUTCH DOOR



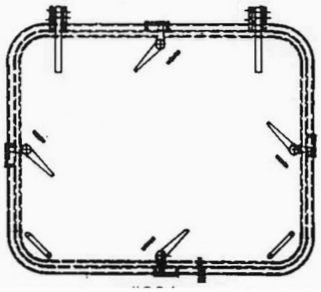
#106
DOUBLE DOOR



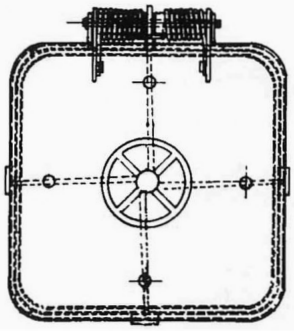
#110
QUICK ACTING LEVER
OPERATED DOOR



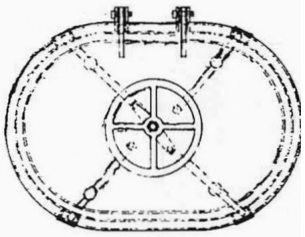
#200
DROP BOLT HATCH



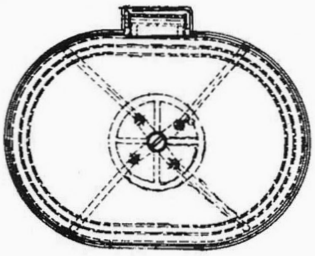
#201
WATERTIGHT HATCH



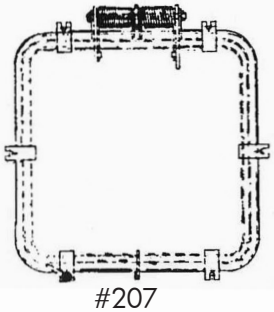
#202
QUICK ACTING SPRING
BALANCED HATCH



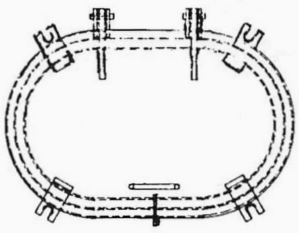
#203
QUICK ACTING OVAL
HATCH



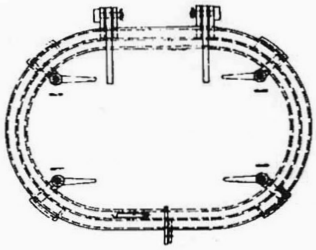
#204
QUICK ACTING FLUSH
OVAL HATCH



#207
SPRING BALANCED
DROP BOLT HATCH



#208
OVAL DROP BOLT HATCH

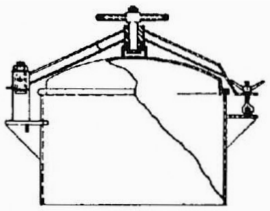


#209
OVAL DOGGED HATCH

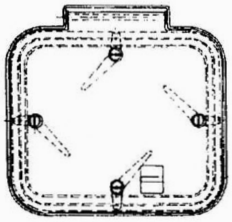
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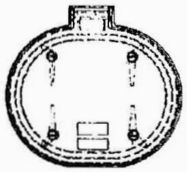
Anchor
MARINE & INDUSTRIAL SUPPLY, INC.



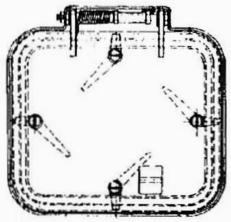
#210
OIL CARGO HATCH



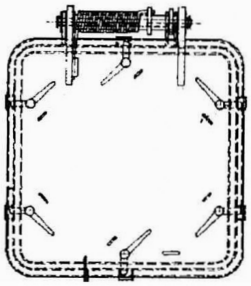
#211
FLUSH HATCH



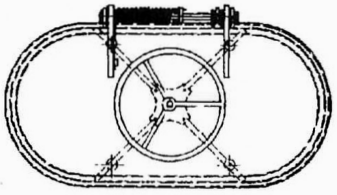
#212
FLUSH OVAL
HATCH



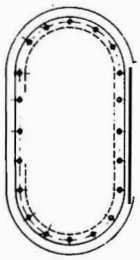
#213
SPRING BALANCED FLUSH
HATCH



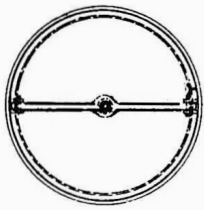
#214
SPRING BALANCED
DOGGED HATCH



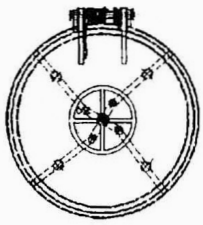
#215
SPRING BALANCED OVAL
QUICK ACTING HATCH



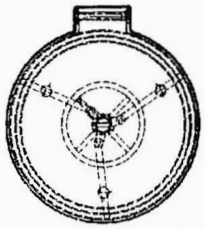
#300
BOLTED PLATE
MANHOLE



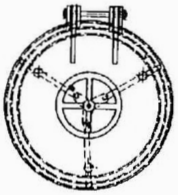
#301
SINGLE BOLT
MANHOLE



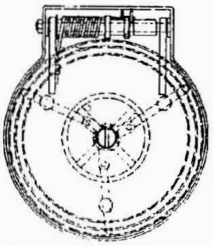
#400
SPRING BALANCED
QUICK ACTING
SCUTTLE



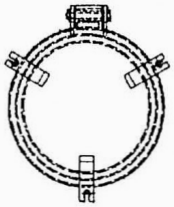
#401
QUICK ACTING
FLUSH SCUTTLE



#402
QUICK ACTING RAISED
SCUTTLE



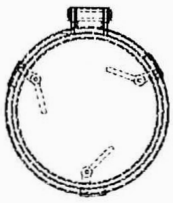
#403
QUICK ACTING
SPRING BALANCED FLUSH
SCUTTLE



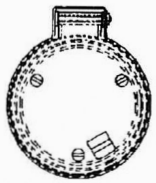
#403
DROP BOLT
RAISED
SCUTTLE



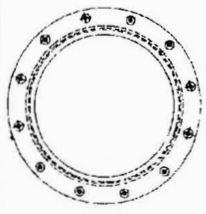
#405
DOGGED
RAISED
SCUTTLE



#406
FLUSH TOP
RAISED
SCUTTLE

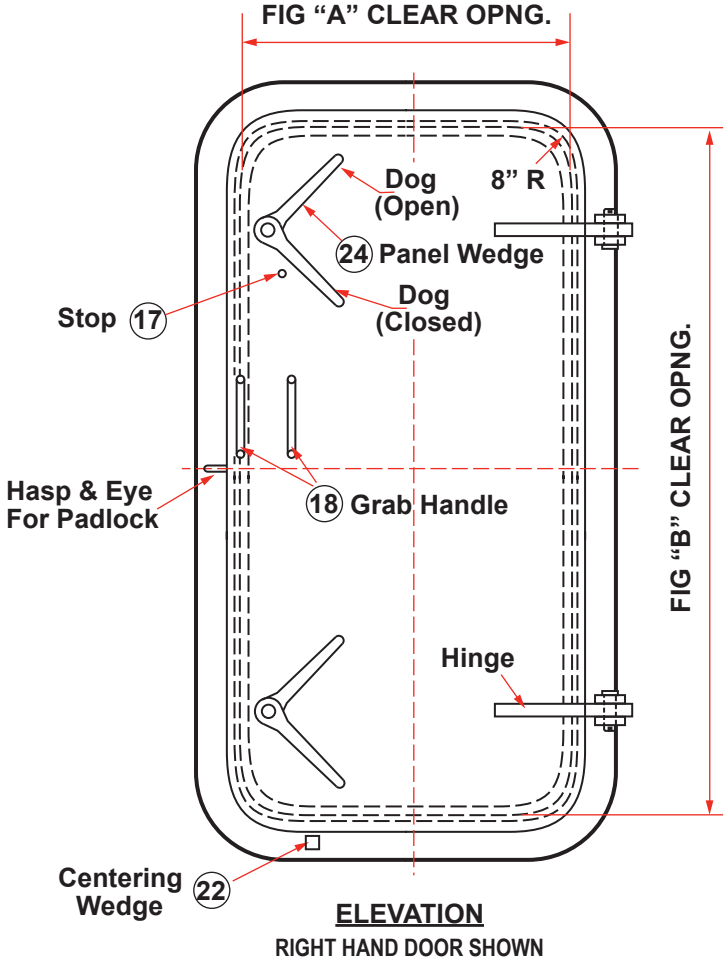


#407
DOGGED
FLUSH
SCUTTLE



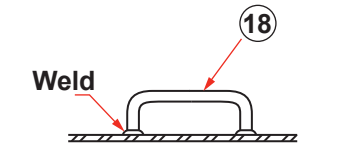
#500 FIXED
LIGHT

WATERTIGHT DOOR WITH 2 DOGS
DRAWING NO. 100

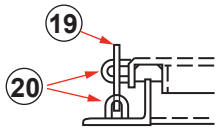


ELEVATION

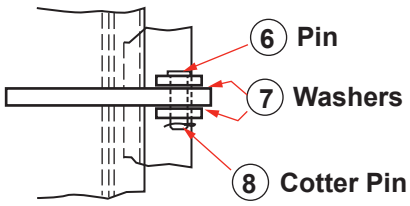
RIGHT HAND DOOR SHOWN



DETAIL OF GRAB HANDLE



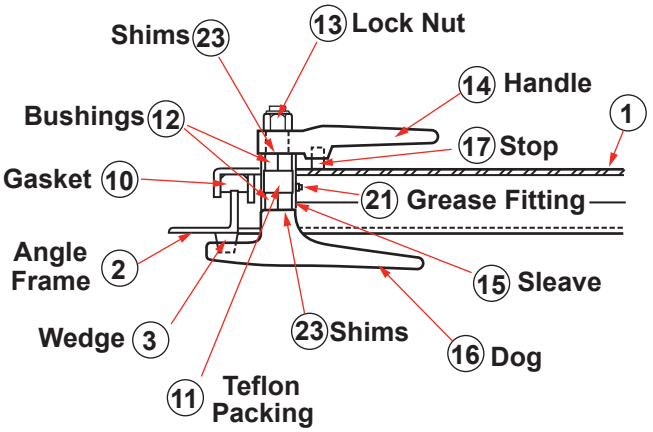
DETAIL OF HASP

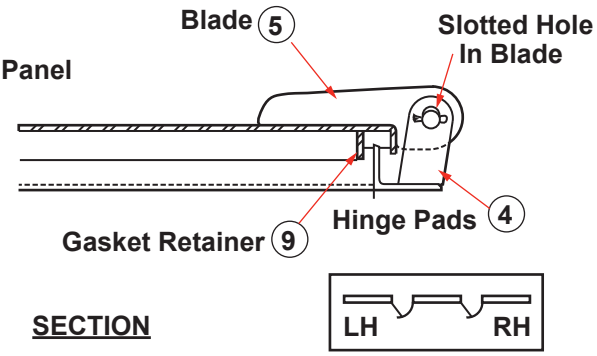


DETAIL OF HINGE

SCHEDULE OF MATERIAL

PC. NO.	MATERIAL
1	Mild Steel
2	Do.
3	Do.
4	Do.
5	Do.
6	Brass
7	Do.
8	Do.
9	Mild Steel
10	Neoprene
11	Graphite
12	Delrin
13	Mild Steel
14	Frg. Stl.
15	Mild Steel
16	Frg. Stl.
17	Mild Steel
18	Do.
19	Do.
20	Do.
21	Steel
22	Do.

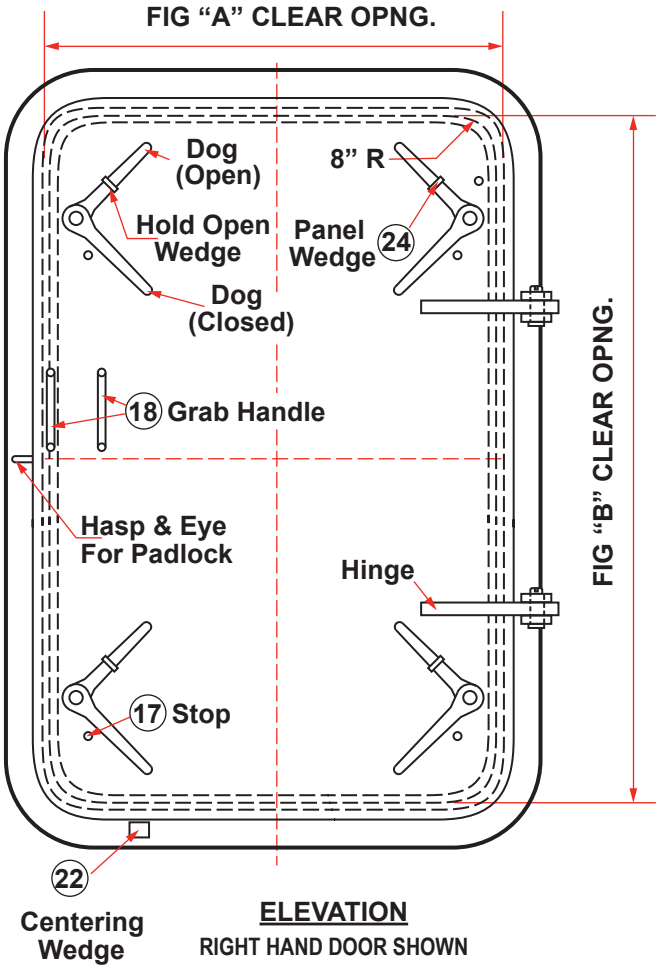




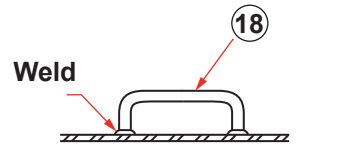
SECTION

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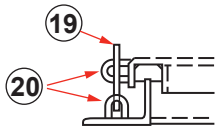
WATERTIGHT DOOR WITH 4 DOGS
DRAWING NO. 101



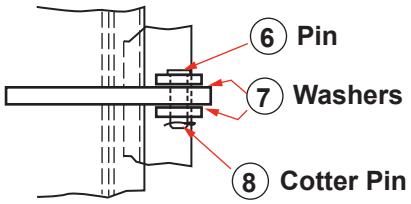
ELEVATION
RIGHT HAND DOOR SHOWN



DETAIL OF GRAB HANDLE



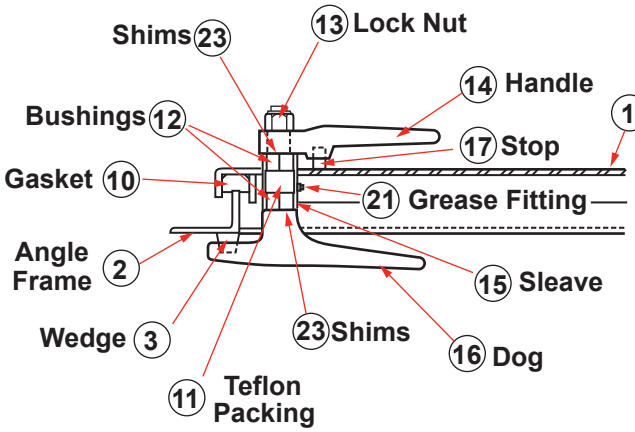
DETAIL OF HASP

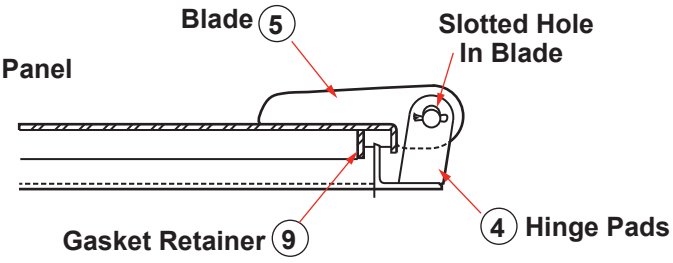


DETAIL OF HINGE

SCHEDULE OF MATERIAL

PC. NO.	MATERIAL
1	Mild Steel
2	Mild Steel
3	Brass
4	Brass
5	Brass
6	Delrin
7	Neoprene
8	Frg. Stl.
9	Frg. Stl.
10	Mild Steel
11	Mild Steel
12	Mild Steel
13	Graphite
14	Mild Steel
15	Mild Steel
16	Mild Steel
17	Mild Steel
18	Mild Steel
19	Mild Steel

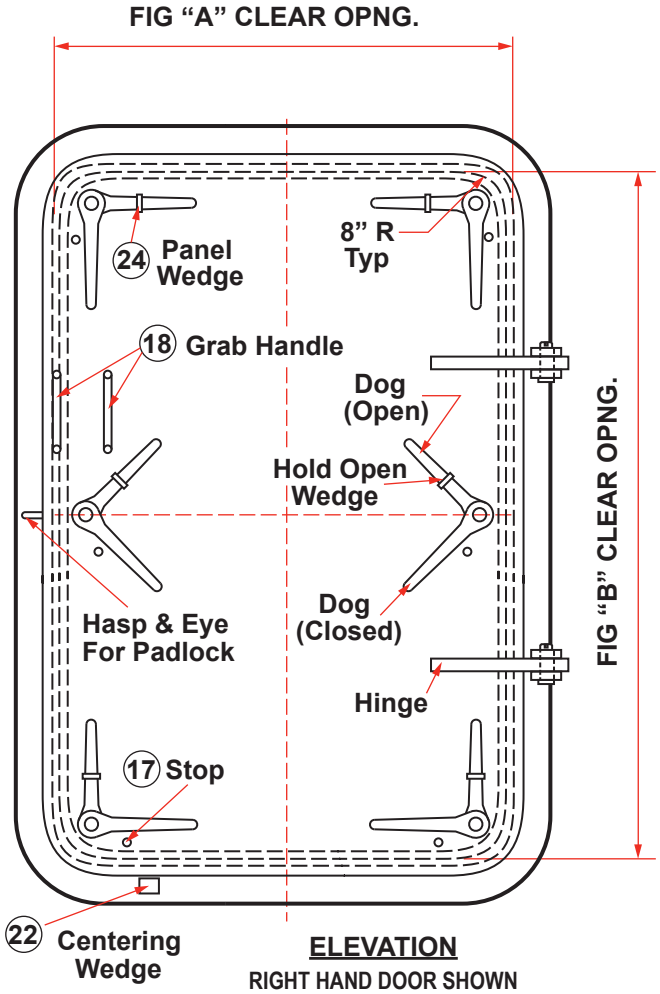




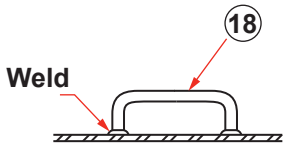
SECTION



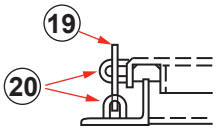
WATERTIGHT DOOR WITH 6 DOGS
DRAWING NO. 102



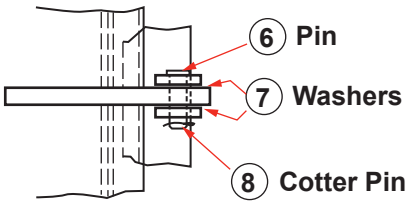
ELEVATION
RIGHT HAND DOOR SHOWN



DETAIL OF GRAB HANDLE



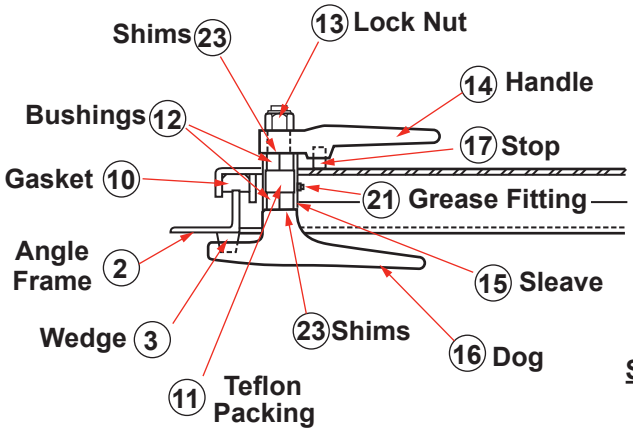
DETAIL OF HASP



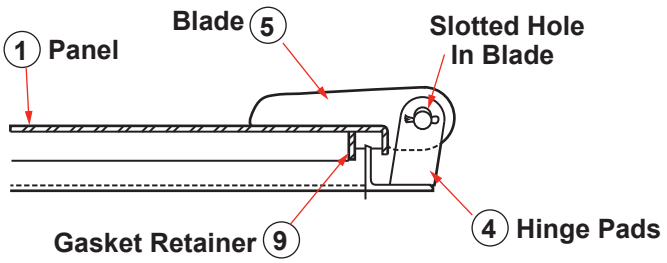
DETAIL OF HINGE

SCHEDULE OF MATERIAL

PC. NO.	MATERIAL
1	Mild Steel
2	Mild Steel
3	Brass
4	Brass
5	Brass
6	Delrin
7	Neoprene
8	Frg. Stl.
9	Frg. Stl.
10	Mild Steel
11	Mild Steel
12	Mild Steel
13	Graphite
14	Mild Steel
15	Mild Steel
16	Mild Steel
17	Mild Steel
18	Mild Steel
19	Mild Steel
20	Mild Steel
21	Mild Steel
22	Mild Steel
23	Brass

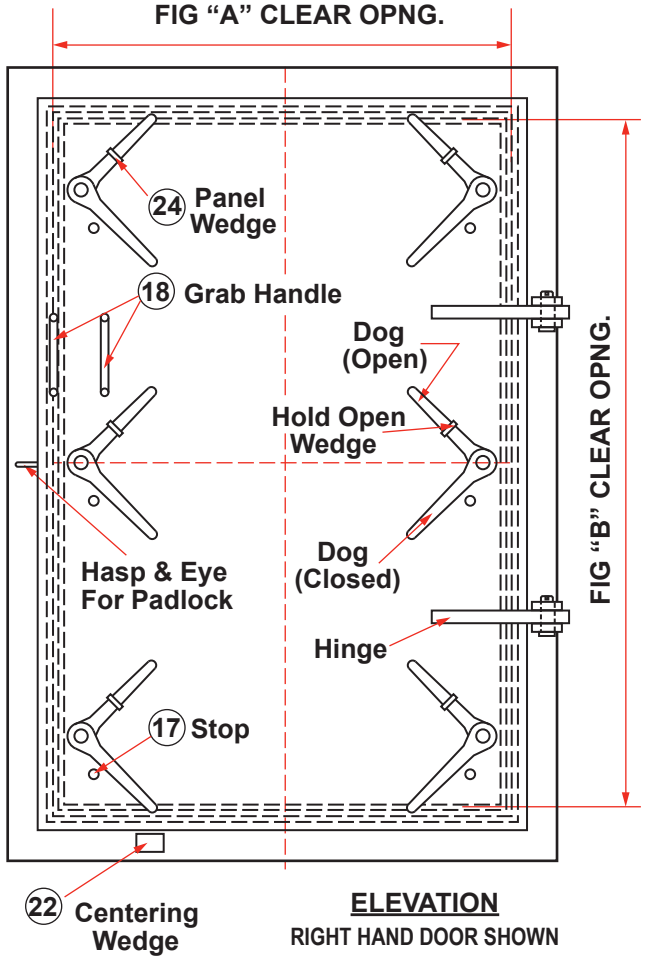


SECTION



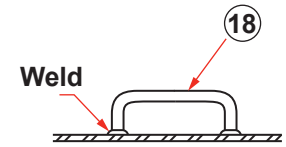
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WATERTIGHT DOOR WITH 6 DOGS
DRAWING NO. 103

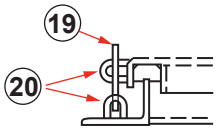


ELEVATION

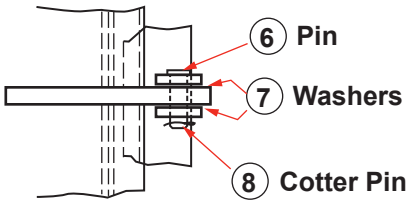
RIGHT HAND DOOR SHOWN



DETAIL OF GRAB HANDLE



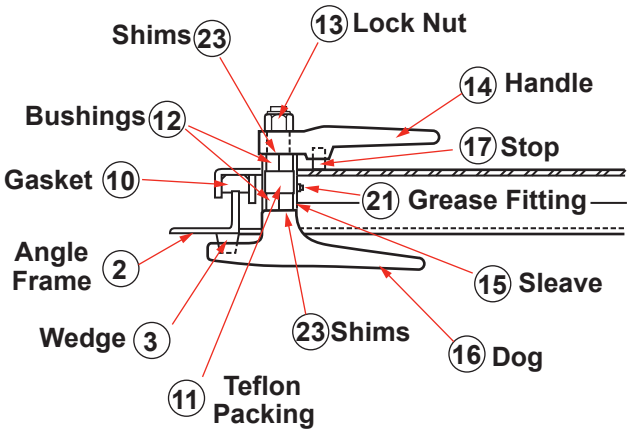
DETAIL OF HASP

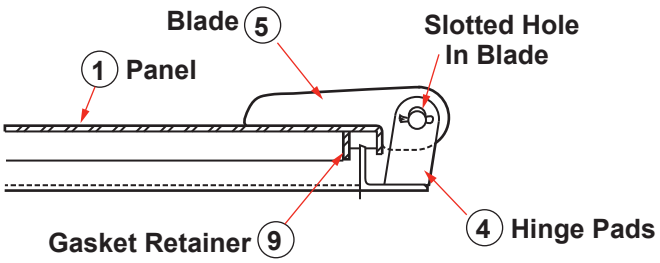


DETAIL OF HINGE

SCHEDULE OF MATERIAL

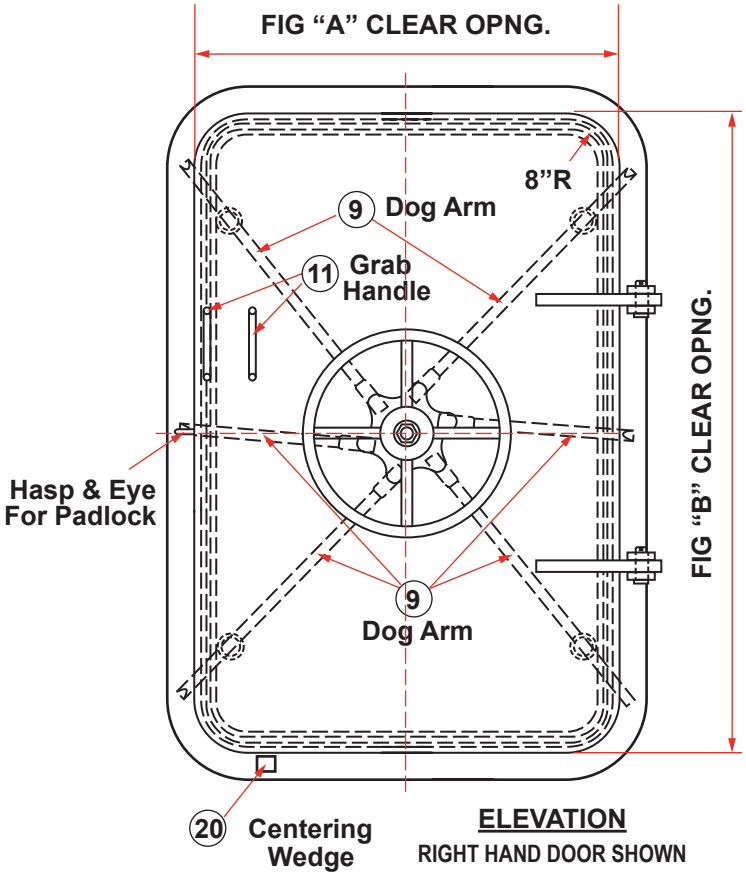
PC. NO.	MATERIAL
1	Mild Steel
2	Mild Steel
3	Brass
4	Brass
5	Mild Steel
6	Delrin
7	Neoprene
8	Frg. Stl.
9	Frg. Stl.
10	Mild Steel
11	Mild Steel
12	Mild Steel
13	Graphite
14	Mild Steel
15	Mild Steel
16	Mild Steel
17	Mild Steel
18	Mild Steel
19	Mild Steel
20	Mild Steel
21	Mild Steel
22	Mild Steel
23	Brass
24	Mild Steel



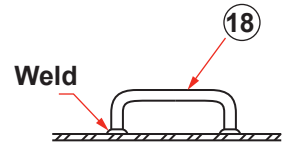


SECTION

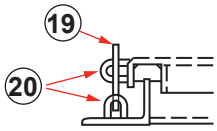
QUICK ACTING WATERTIGHT DOOR
DRAWING NO. 104



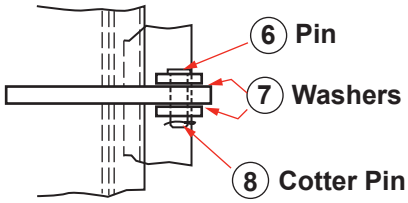
ELEVATION
RIGHT HAND DOOR SHOWN



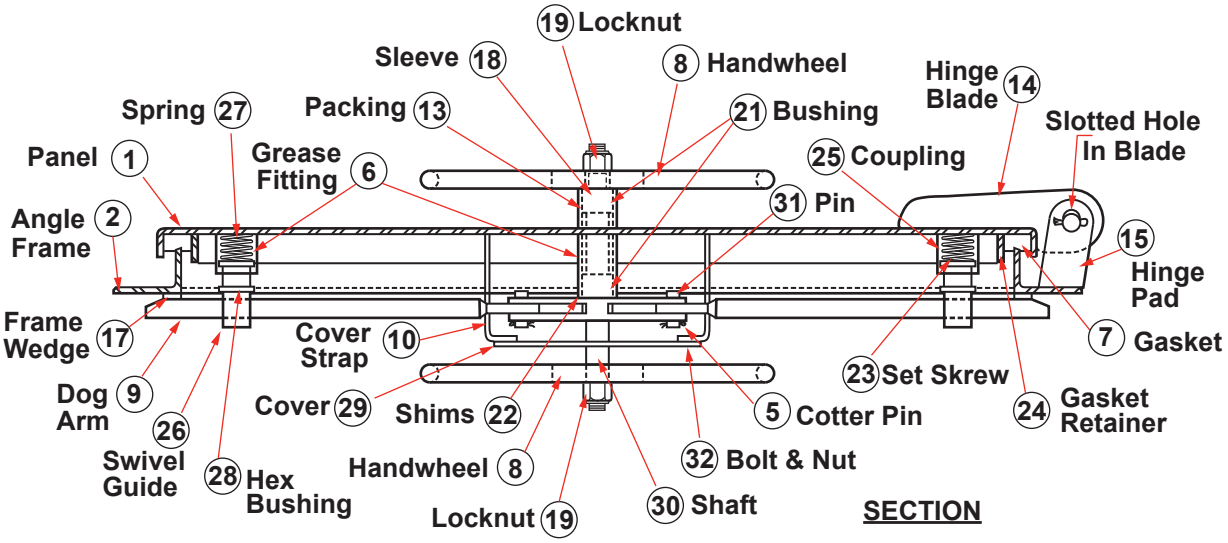
DETAIL OF GRAB HANDLE



DETAIL OF HASP



DETAIL OF HINGE

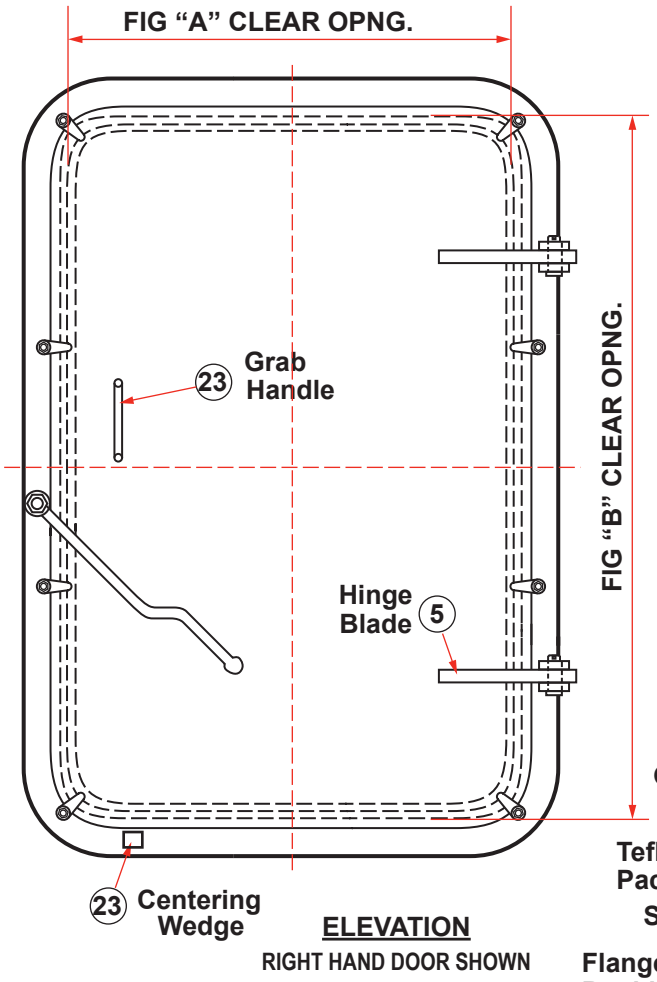


SECTION

SCHEDULE OF MATERIAL

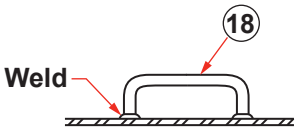
PC. NO.	MATERIAL
1	Mild Steel
2	Mild Steel
3	Brass
4	Brass
5	Brass
6	Mild Steel
7	Neoprene
8	Mild Steel
9	Mild Steel
10	Mild Steel
11	Mild Steel
12	Mild Steel
13	Graphite
14	Mild Steel
15	Mild Steel
16	Mild Steel
17	Mild Steel
18	Mild Steel
19	Mild Steel
20	Mild Steel
21	Delrin
22	Brass
23	Mild Steel
24	Mild Steel
25	Mild Steel
26	Brass
27	Mild Steel
28	Mild Steel
29	Mild Steel
30	C.F. Steel
31	Mild Steel

QUICK ACTING WATERTIGHT DOOR
DRAWING NO. 109

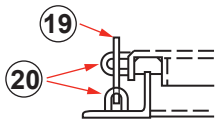


ELEVATION

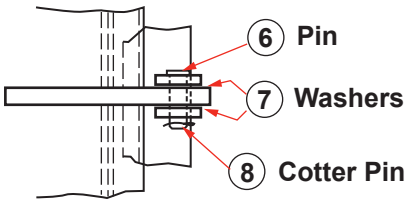
RIGHT HAND DOOR SHOWN



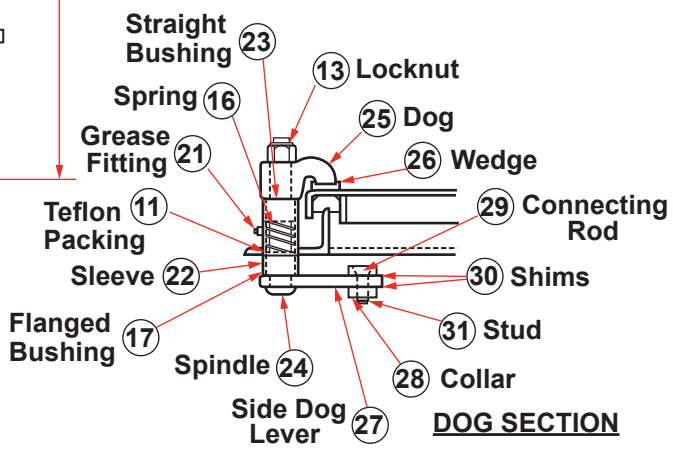
DETAIL OF GRAB HANDLE



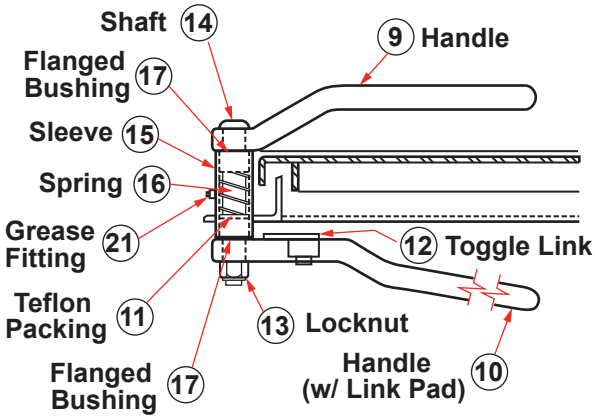
DETAIL OF HASP

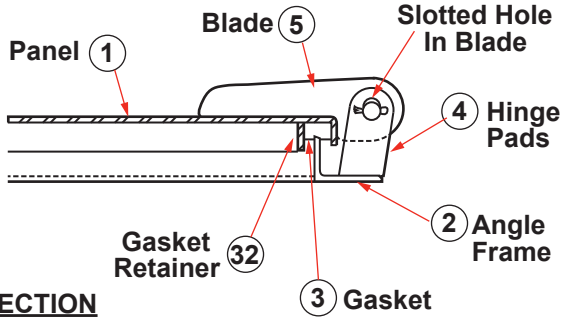


DETAIL OF HINGE



DOG SECTION



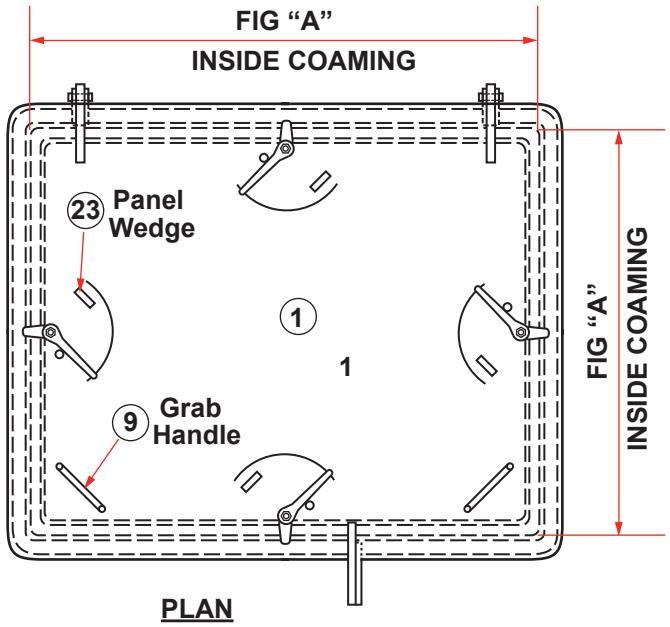


SECTION

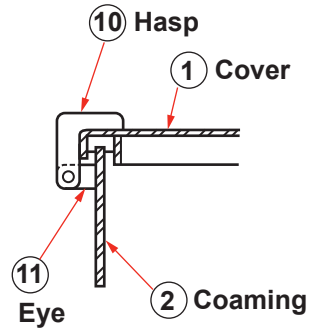
SCHEDULE OF MATERIAL

PC. NO.	MATERIAL
1	Mild Steel
2	Mild Steel
3	Brass
4	Stainless
5	Stainless
6	Forged Stl
7	Neoprene
8	Forged Stl
9	Forged Stl
10	Oilite Bronze
11	Mild Steel
12	Mild Steel
13	Graphite
14	Mild Steel
15	Mild Steel
16	Mild Steel
17	Stainless
18	Mild Steel
19	Mild Steel
20	Mild Steel
21	Mild Steel
22	Mild Steel
23	Stainless
24	Mild Steel
25	Mild Steel
26	Mild Steel
27	Mild Steel
28	Mild Steel
29	Mild Steel
30	Oilite Bronze
31	Cold Finish
32	Cold Finish
33	Mild Steel
34	Stainless
35	Plated Stl

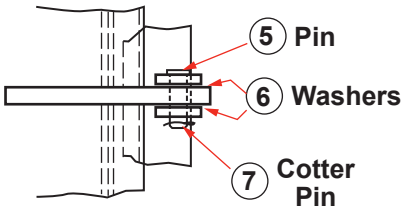
WATERTIGHT HATCH
DRAWING NO. 201



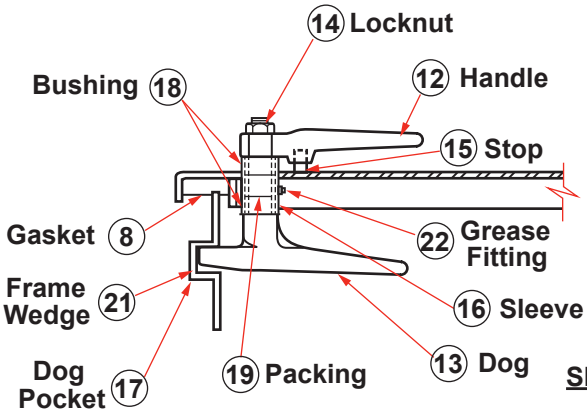
PLAN

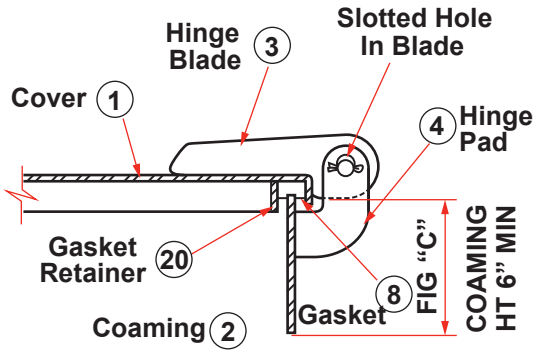


DETAIL OF HASP & EYE



DETAIL OF HINGE





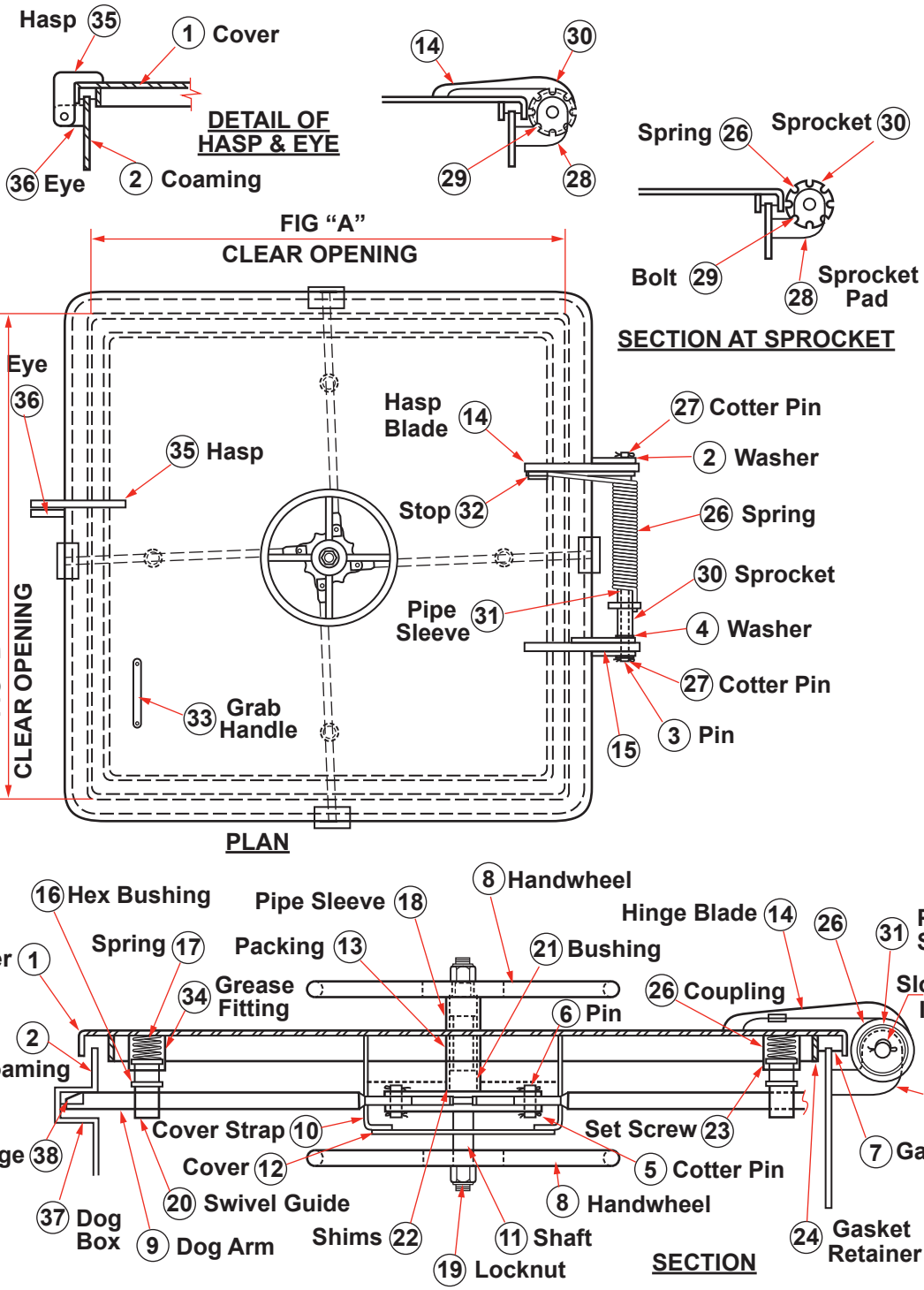
SECTION

SCHEDULE OF MATERIAL

PC. NO.	MATERIAL
1	Mild Steel
2	Mild Steel
3	Brass
4	Brass
5	Brass
6	Brass
7	Brass
8	Neoprene
9	Steel
10	Mild Steel
11	Mild Steel
12	Frg. Stl.
13	Frg. Stl.
14	Steel
15	Steel
16	Steel
17	Steel
18	Delrin
19	Graphite
20	Mild Steel

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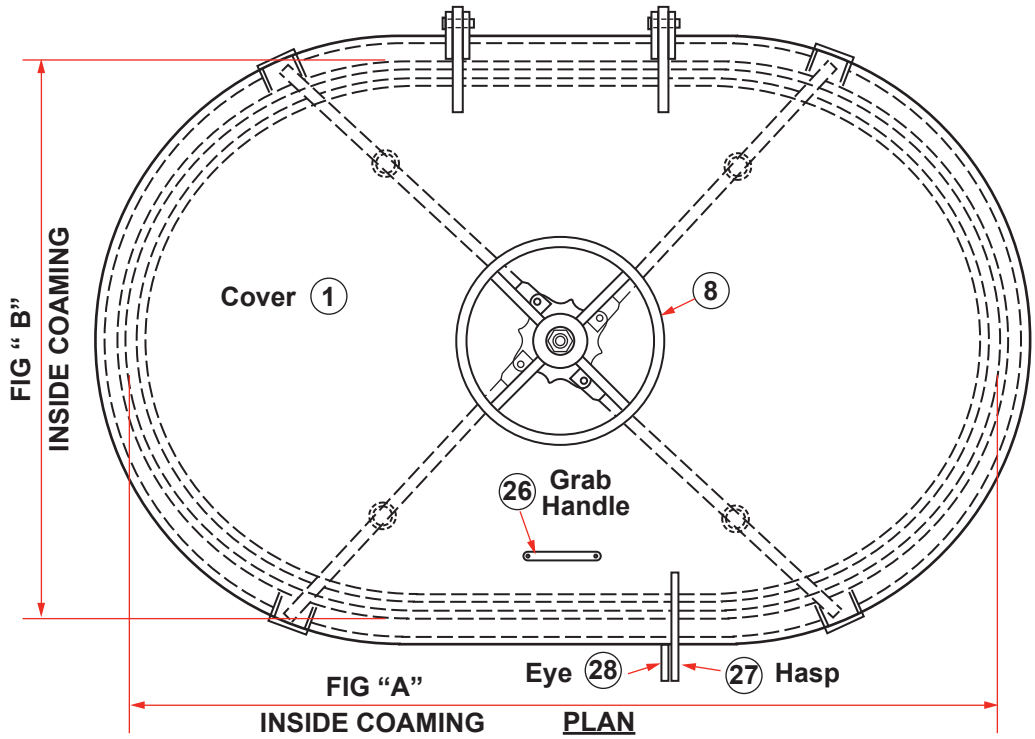
SPRING BALANCE QUICK ACTING WATERTIGHT HATCH DRAWING NO. 202

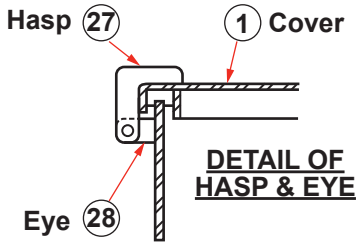


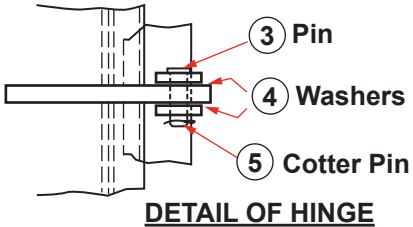
SCHEDULE OF MATERIAL

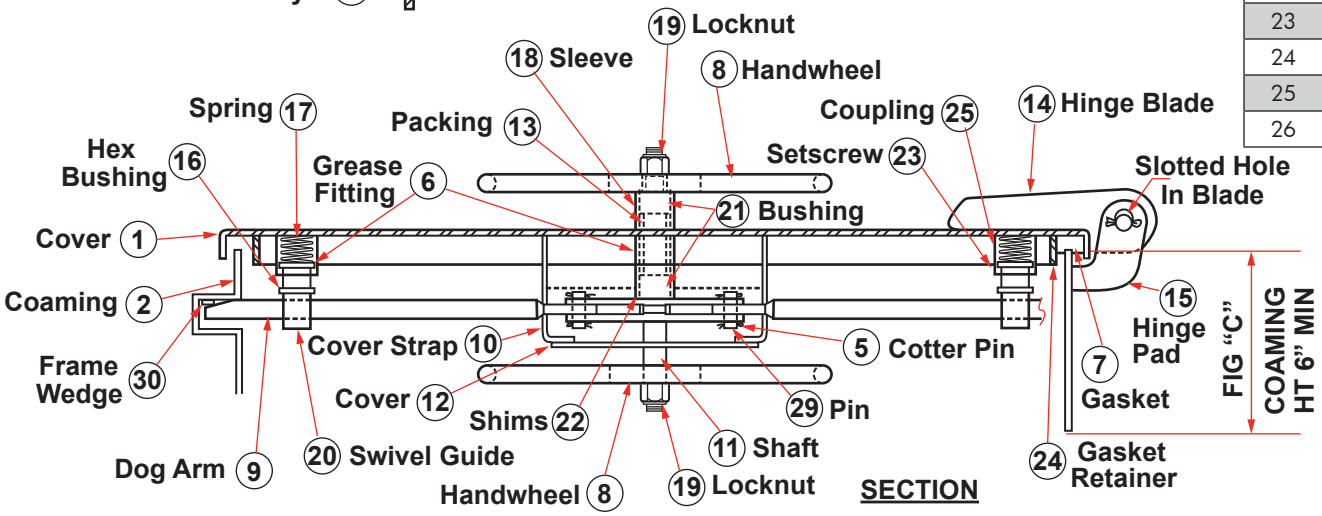
PC. NO.	MATERIAL
1	Mild Steel
2	Mild Steel
3	Brass
4	Brass
5	Brass
6	Neoprene
7	Mild Steel
8	Mild Steel
9	Mild Steel
10	Cold Finish
11	Mild Steel
12	Graphite
13	Mild Steel
14	Mild Steel
15	Mild Steel
16	Spring Steel
17	Mild Steel
18	Mild Steel
19	Brass
20	Derlin
21	Brass
22	Steel
23	Mild Steel
24	Mild Steel
25	Spring Steel
26	Brass
27	Mild Steel
28	Mild Steel
29	Mild Steel
30	Mild Steel
31	Mild Steel
32	Mild Steel
33	Mild Steel

QUICK ACTING OVAL HATCH
DRAWING NO. 203







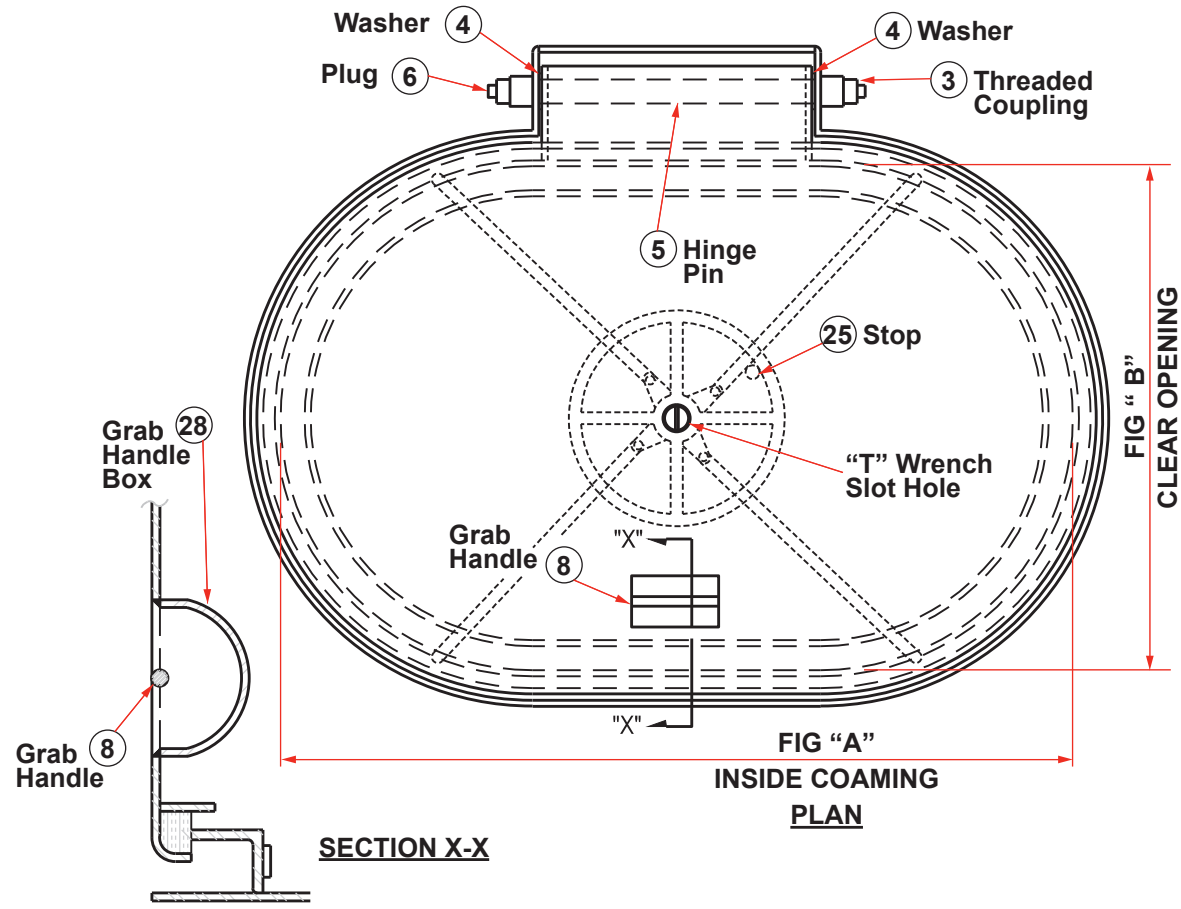


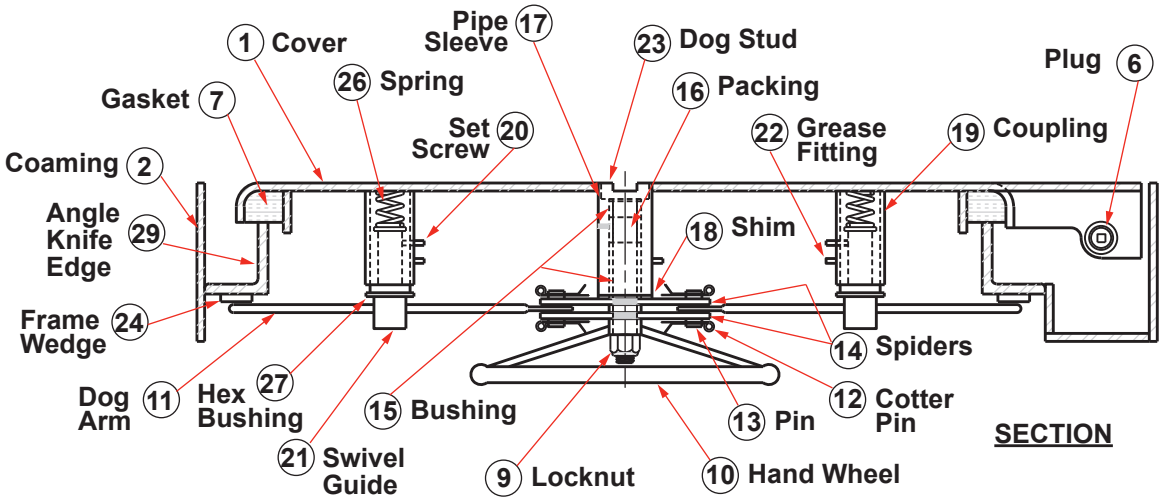
SCHEDULE OF MATERIAL

PC. NO.	MATERIAL
1	Mild Steel
2	Mild Steel
3	Brass
4	Brass
5	Brass
6	Brass
7	Neoprene
8	Mild Steel
9	Mild Steel
10	Mild Steel
11	Cold Finish
12	Mild Steel
13	Graphite
14	Mild Steel
15	Mild Steel
16	Mild Steel
17	Spring Steel
18	Mild Steel
19	Mild Steel
20	Brass
21	Delrin
22	Brass
23	Steel
24	Mild Steel
25	Mild Steel
26	Mild Steel

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QUICK ACTING FLUSH OVAL HATCH
DRAWING NO. 204

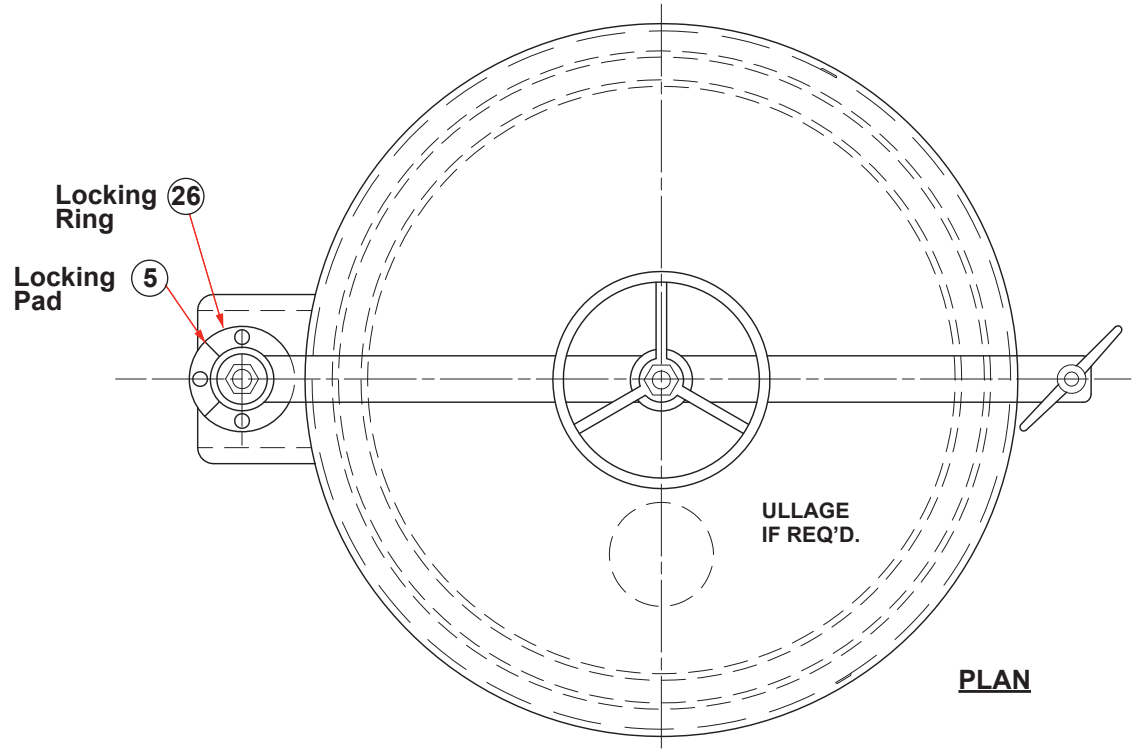




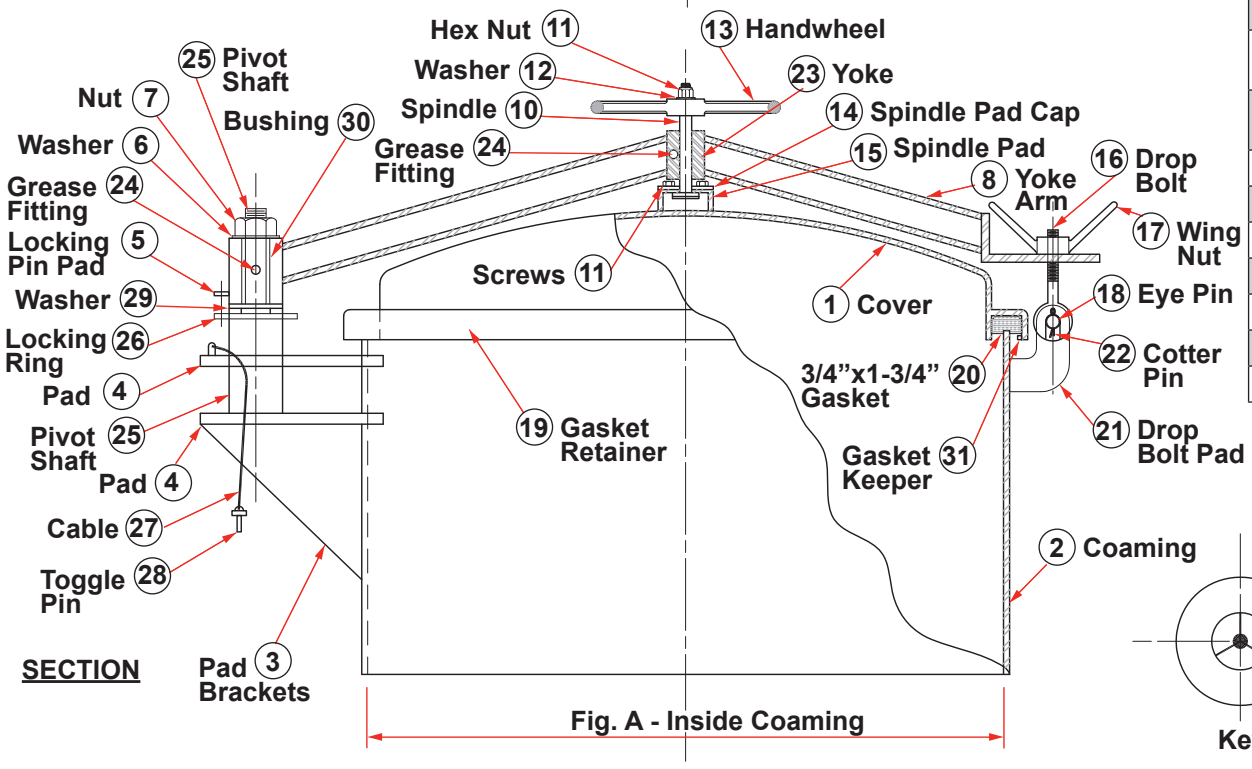
SCHEDULE OF MATERIAL

PC. NO.	MATERIAL
1	Mild Steel
2	Mild Steel
3	Mild Steel
4	Mild Steel
5	Cold Finish
6	Brass
7	Neoprene
8	Mild Steel
9	Mild Steel
10	Mild Steel
11	Mild Steel
12	Brass
13	Brass
14	Mild Steel
15	Delrin
16	Graphite
17	Mild Steel
18	Brass
19	Mild Steel
20	Mild Steel
21	Brass
22	Mild Steel
23	Brass
24	Mild Steel
25	Mild Steel
26	Spring Steel
27	Mild Steel

OIL CARGO HATCH
DRAWING NO. 210



PLAN



SCHEDULE OF MATERIAL

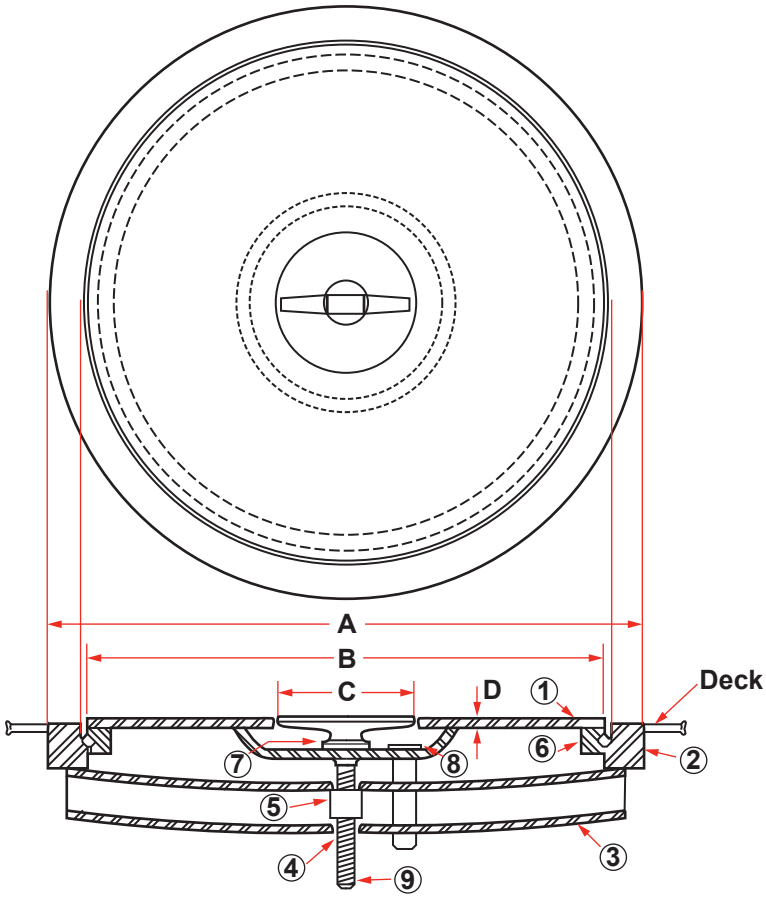
PC. NO.	MATERIAL
1	Mild Steel
2	Mild Steel
3	Mild Steel
4	Mild Steel
5	Mild Steel
6	Brass
7	Steel
8	Mild Steel
9	Steel
10	Brass
11	Steel
12	Brass
13	Mild Steel
14	Mild Steel
15	Mild Steel
16	Manganese Bronze
17	Manganese Bronze
18	Brass
19	Mild Steel
20	Neoprene
21	Mild Steel
22	Mild Steel
23	Steel
24	Steel

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FLUSH WATERTIGHT HATCH

NOTE 1: INCLUDES ALL PIECES EXCEPT PC. NO. 2 - DECK RING

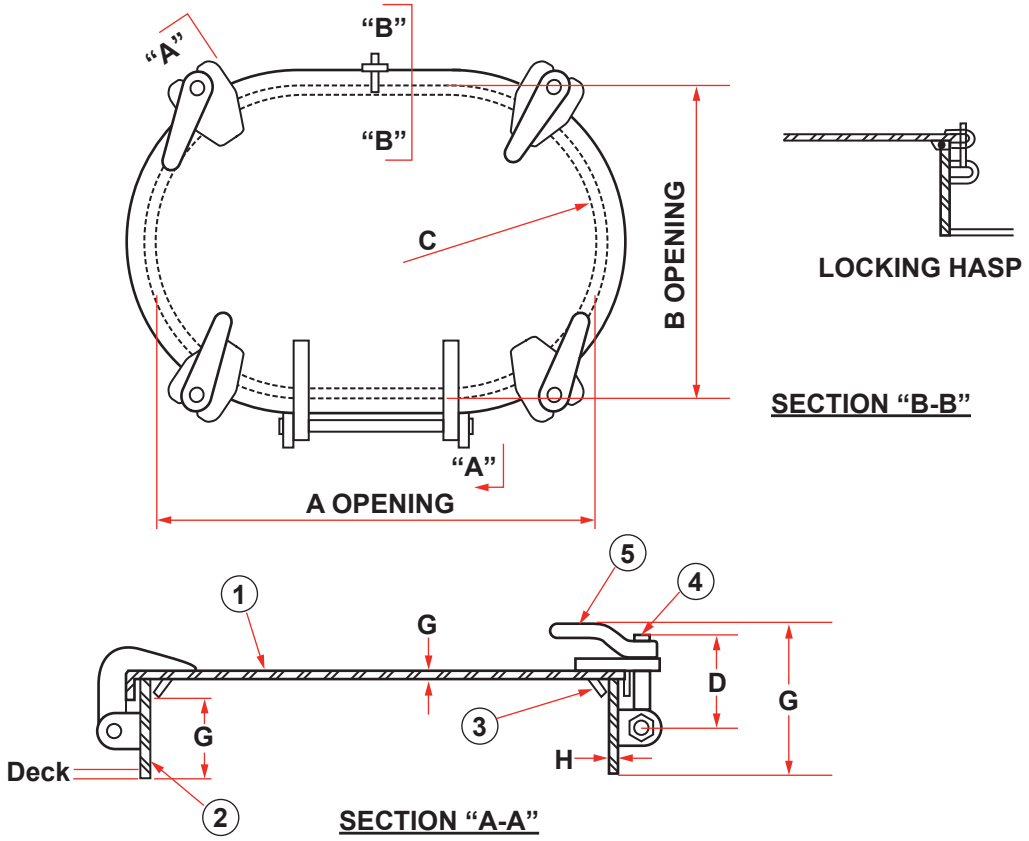
The specifications and details described by drawings or text in this literature are subject to change without notice



PIECE NO.	DESCRIPTION			MATERIAL
1	Cover Assembly	20389	20397	See Note 1 above
2	Deck Ring	6750	15334	Mild Steel
3	Strongback	6300	13870	Galvanized Steel
4	Tee Handle	16993	16993	Stainless Steel
5	Nut	507	507	Brass
6	Gasket	17256	6548	Neoprene
7	Washer	604	604	Brass
8	Washer	6556	6556	Neoprene
9	Pin	21636	21636	Stainless Steel

MODEL NO.	PART NO.	SIZE	A	B	C	D	WT. (LBS)
AM-430-18D		18	20-3/4	18	5	3/8	70
	(Galvanized)						74
AM-430-24	6270	24	26-3/4	24	5	3/8	116
	(Galvanized)						120

RAISED WATERTIGHT HATCH



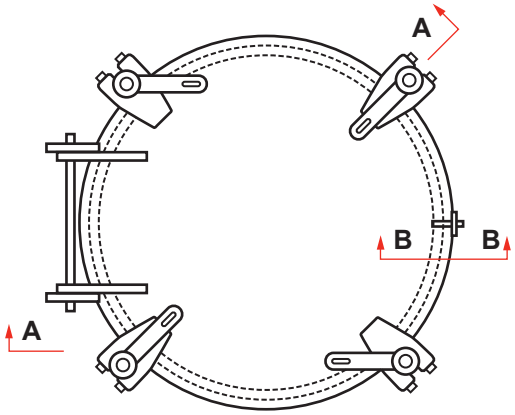
PIECE NO.	DESCRIPTION			MATERIAL
1	Cover Assembly**	77887	78484	Mild Steel
2	Coaming	74098	19550	Mild Steel
3	Gasket	74497	78530	Neoprene†
4	Tumble Bolt	10774	10774	Bronze
5	Dog Handle	74837	74837	Malleable Iron
	Flame Screen*	17051	19445	Stainless Steel

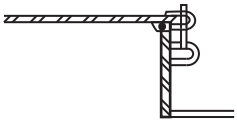
MODEL NO.	PART NO.	SIZE	A	B	C	D	E	F	G	H	WT. (LBS.)
AM-174-5	72451	15 x 23	23	15	7-1/2	5-1/4	8-1/2	5	5/16	3/8	96
AM-464-5	78514	18 x 24	24-1/4	18-1/4	9-1/8	5-1/4	8-1/2	5	5/16	3/8	106

*OPTIONAL EXTRA
** Gasket included w/cover assembly
† Other gasket material available
Other optional extras include galvanized finish, a flame screen and a variety of coaming heights.
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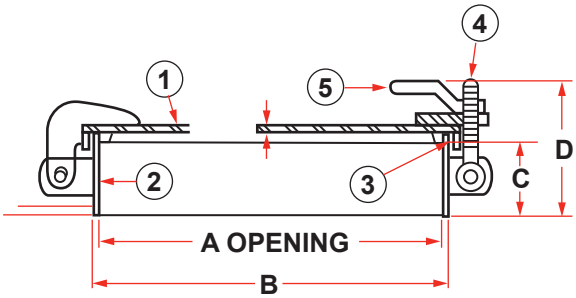
RAISED WATERTIGHT HATCH





LOCKING HASP

SECTION "B-B"



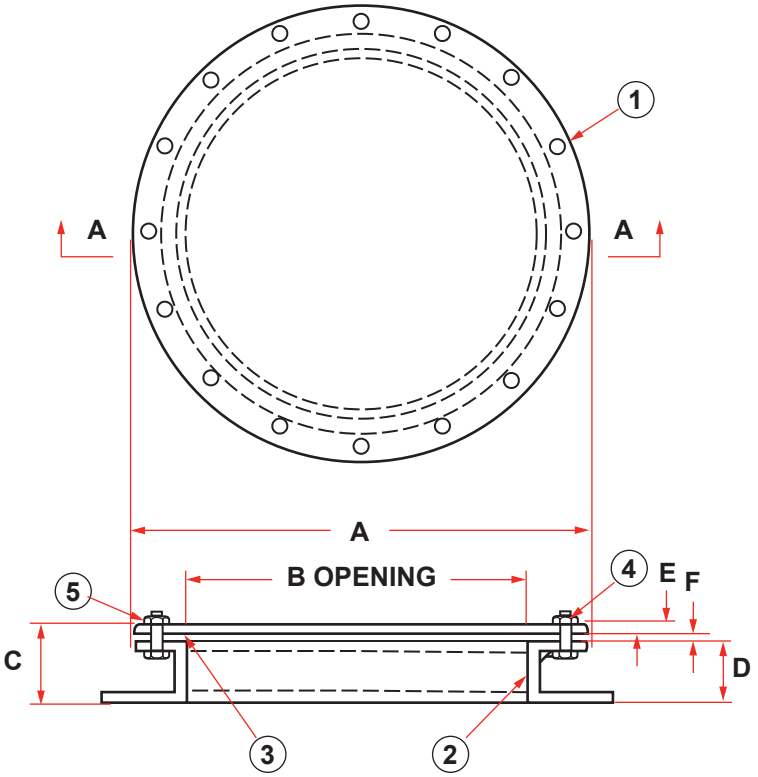
SECTION "A-A"

PIECE NO.	DESCRIPTION	PART NUMBER	MATERIAL
1	Cover Assembly**	77895	Mild Steel
2	Coaming	75027	Mild Steel
3	Gasket	74497	Neoprene†
4	Tumble Bolt	10774	Bronze
5	Dog Handle	74837	Malleable Iron

MODEL NO.	PART NO.	SIZE	A	B	C	D	E	F	G	H	WT. (LBS.)
AM-343-5		19	19	19-3/4	5	8-1/2	3/8	3/8	5/16	5/16	92

*OPTIONAL EXTRA
** Gasket included w/cover assembly
† Other gasket material available
Other optional extras include galvanized finish, a flame screen and a variety of coaming heights.
The specification and details described by drawings or text in this literature are subject to change without notice.

CLEAN OUT HATCH



SECTION "A-A"

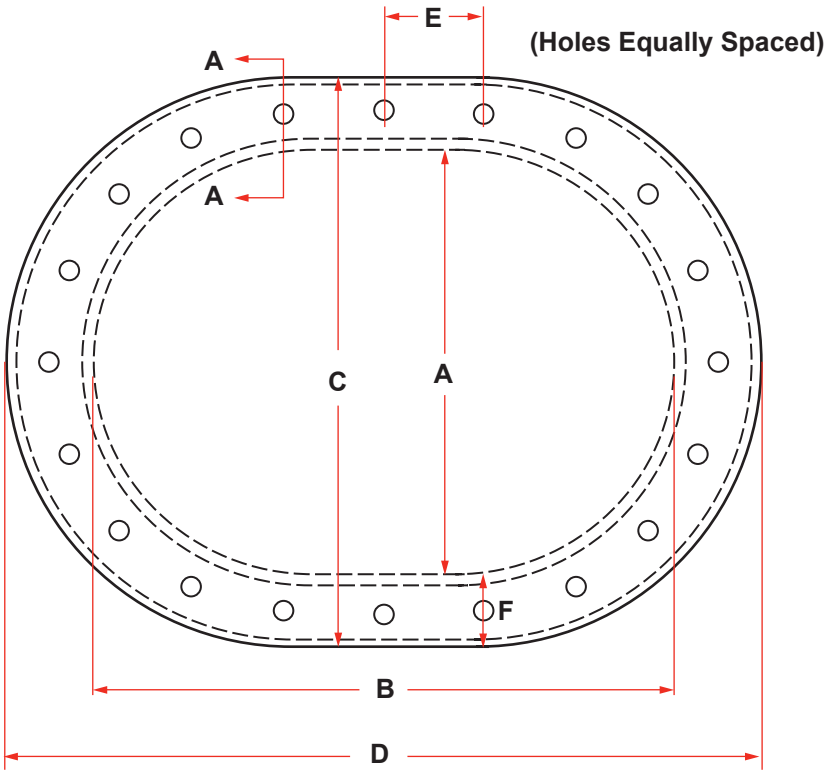
PIECE NO.	DESCRIPTION	PART NUMBER		MATERIAL
		DF-154-18	DF-154-14	
1	HATCH COVER	77216	76767	MILD STEEL
2	COAMING	77232	76783	MILD STEEL
3	GASKET	77224	76775	NEOPRENE
4	5/8" BOLT	14613	14613	STEEL
5	5/8" BOLT	16179	16179	BRASS

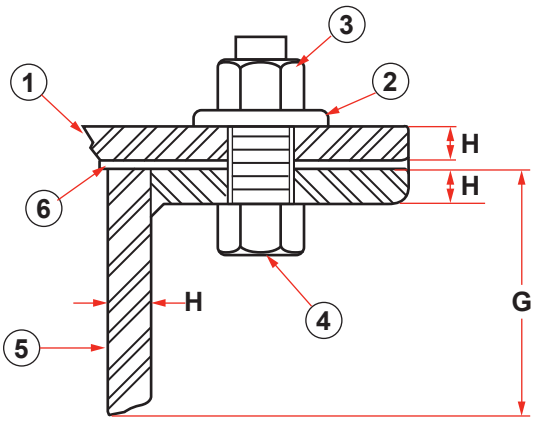
MODEL NO.	PART NO.	SIZE	A	B	C	D	E	F	WT. (LBS.)
AM-154-14		14	19	14	3-1/4	2-1/2	3/8	3/8	60
AM-154-18		18	23	18	3-1/4	2-1/2	3/8	3/8	78

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RAISED BOLTED HATCH





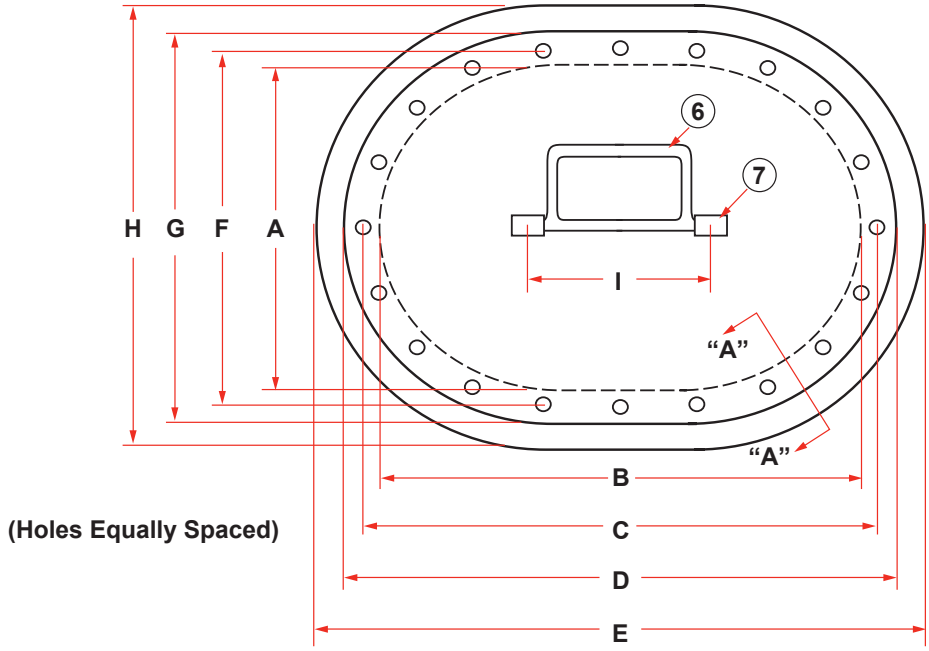
SECTION "A-A"

PIECE NO.	DESCRIPTION	PART NUMBER		MATERIAL
		DF-501	DF-502	
1	COVER PLATE	21342	21350	STEEL
2	WASHER	21237	21237	BRASS
3	HEX NUT	21245	21245	STAINLESS
4	HEX BOLT	14605	14605	STEEL
5	COAMING	21369	21377	STEEL
6	GASKET	21385	21393	NEOPRENE

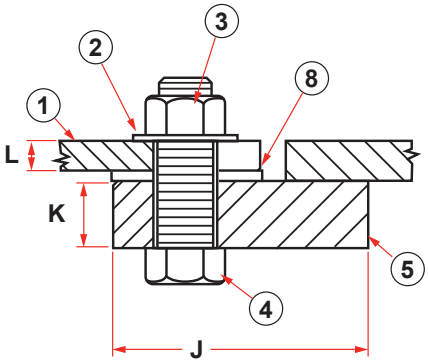
MODEL NO.	PART NO.	SIZE	A	B	C	D	E	F	G	H	WT. (LBS.)
AM-501		15 X 23	15	23	20	28-3/4	3-5/8	2-1/2	2-1/2	3/8	85
AM-502		18 X 24	18	24	23	29-3/4	3-1/4	2-1/2	2-1/2	3/8	106

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FLUSH BOLTED HATCH



NOTE: Lampwick grommet furnished by others if required.



SECTION "A-A"

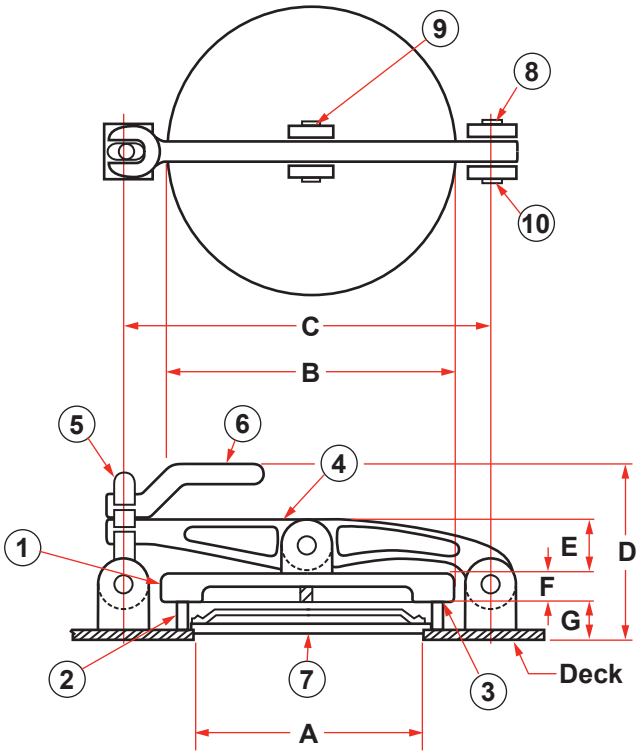
PIECE NO.	DESCRIPTION			MATERIAL
1	COVER	21229	21318	MILD STEEL
2	WASHER	21237	21237	BRASS
3	NUT	21245	21245	STAINLESS STEEL
4	BOLT	14613	14613	STEEL
5	DECK RING	21253	21326	MILD STEEL
6	HANDLE	21261	21261	MILD STEEL
7	HANDLE RETAINER	21288	21288	MILD STEEL
8	GASKET	21296	21334	NEOPRENE

MODEL NO.	PART NO.	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	WT. (LBS.)
AM-503		15 X 23	15	23	24-1/4	26-1/2	29	16-1/4	18-1/2	21	9	3	3/4	3/8	95
AM-504		18 X 24	18	24	25-1/4	27-1/2	30	19-1/4	21-1/2	24	9	3	3/4	3/8	112

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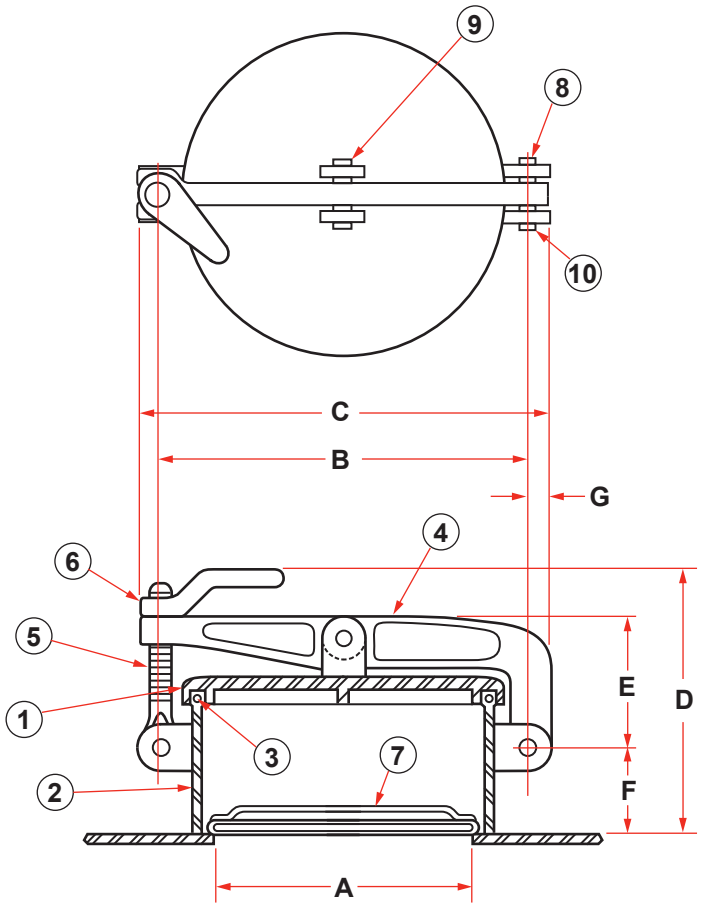
ULLAGE HATCH



PIECE NO.	DESCRIPTION		MATERIAL
1	COVER	6637	CAST IRON
2	COAMING	75671	MILD STEEL
3	GASKET	17167	NEOPRENE
4	ARM	6831	MALLEABLE IRON
5	TUMBLE BOLT	10774	BRONZE
6	DOG HANDLE	74837	MALLEABLE IRON
7	FLAME SCREEN	6629	STAINLESS STEEL
8	HEX HEAD BOLT	20842	BRONZE
9	HEX HEAD BOLT	20850	BRONZE
10	ESNA NUT	20869	STAINLESS

MODEL NO.	PART NO.	SIZE	A	B	C	D	E	F	G	WT. (LBS.)
AM-144		8	7-1/2	9-1/2	12	5-5/16	1-7/8	13/16	7/8	22

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ULLAGE HATCH

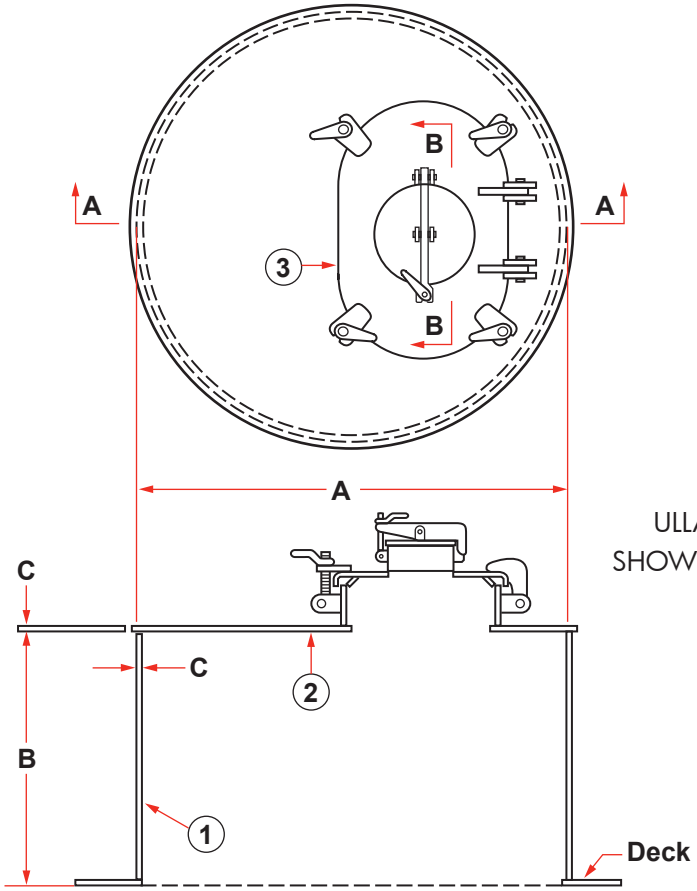
PIECE NO.	DESCRIPTION		MATERIAL
1	COVER	83062	CAST IRON
2	COAMING	19526	MILD STEEL
3	GASKET	82449	NEOPRENE
4	ARM	19461	MALLEABLE IRON
5	TUMBLE BOLT	10774	BRONZE
6	DOG HANDLE	74837	MALLEABLE IRON
7	FLAME SCREEN	19496	STAINLESS STEEL
8	HEX HEAD BOLT	20842	BRONZE
9	HEX HEAD BOLT	20850	BRONZE
10	ESNA NUT	20869	STAINLESS STEEL

MODEL NO.	PART NO.	SIZE	A	B	C	D	E	F	G	WT. (LBS.)
AM-569		10	9-1/2	13-1/2	14-3/4	9-5/8	4-3/8	3-1/2	3/4	42

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EXPANSION TRUNK



DF-569
ULLAGE HATCH
SHOWN AS SECTION
"B-B"

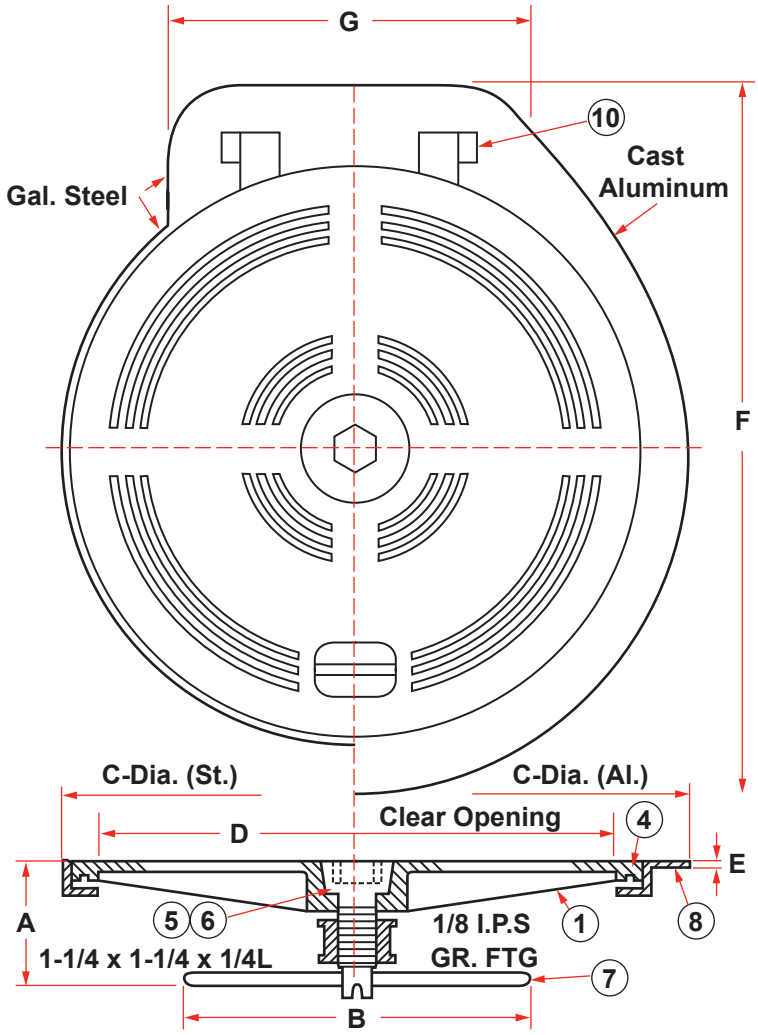
SECTION "A-A"

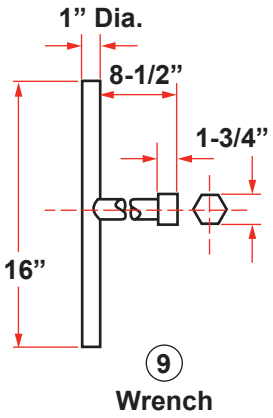
PIECE NO.	DESCRIPTION			MATERIAL
1	COAMING	76171	76171	MILD STEEL
2	COVER	76163	76163	MILD STEEL
3	RAISED HATCH W/ULLAGE HATCH	85316	8214	MILD STEEL

MODEL NO.	PART NO.	SIZE	A	B	C	WT. (LBS.)
AM-449	6238	24 H X 42 Dia W/DF-144	42	24	5/16	520
AM-470	85308	24 H X 42 Dia W/DF-569	42	24	5/16	540

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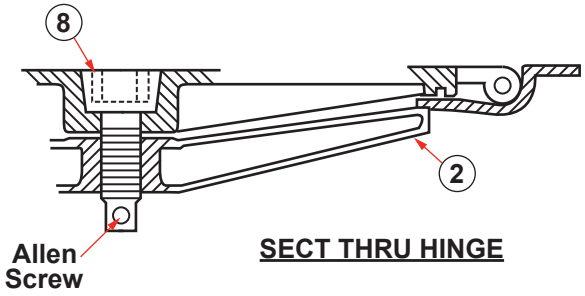
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BILL OF MATERIAL		
NO.	DESC.	MAT'L
1	Cover	*
2	Yoke	* 3 arms
3	Bolt	Bronze
4	Gasket	Neoprene
5	Washer	St. Steel
6	Washer	Neoprene
7	Rod-1/2" DIA.	Steel
8	Deck Ring	*
9	Wrench	Galv. Steel
10	Hinge Pins	St. Steel
11	Keeper	*

* Available 1 M corr. resist aluminum, gal. steel, or aluminum cover with gal. steel ring.



SECT THRU HINGE

Weight-lbs. Dimensions - inches

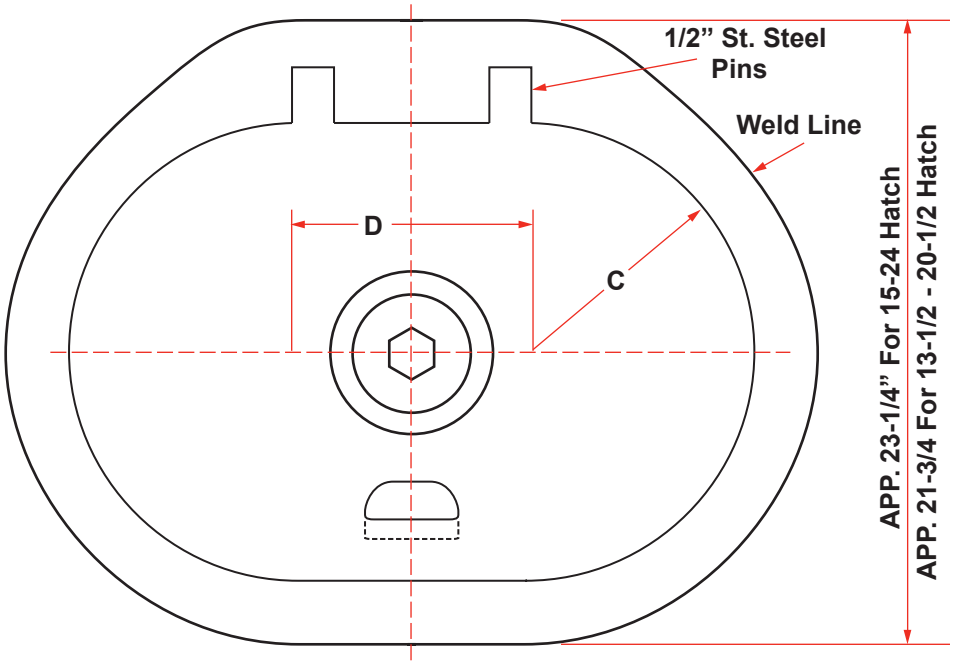
MODEL NO.	SIZE.	COVER	RING	A	B	C	D	E	F	G
AL.	22"	21	13	5-1/2	12-1/2	28-1/2	22	1/4	30-1/4	14
ST.		63	27			23-3/4				

WEIGHT ARE FOR ALUMINUM - FOR G. STEEL, MANUF. BY 3.0

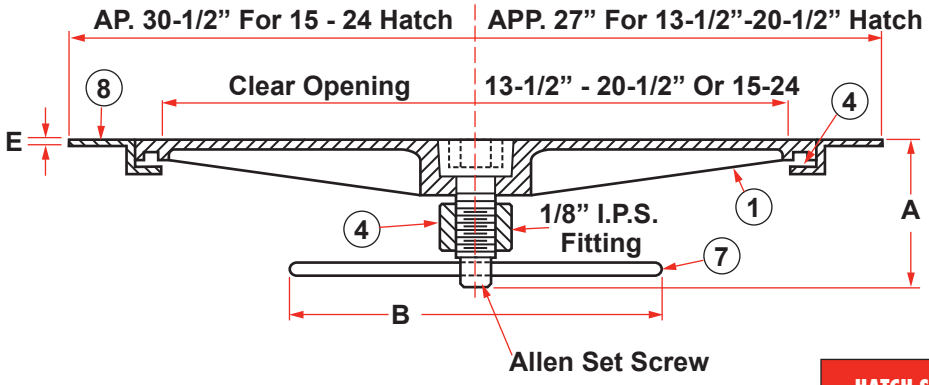
HINGED ROUND-DOGGED TYPE

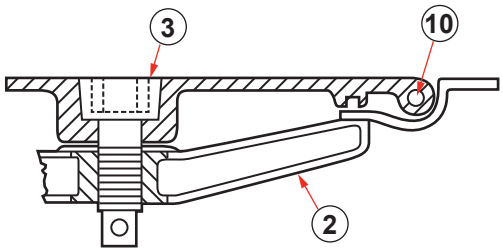
CLEAR OPENING - 22", TYPE "C" POSITIVE LOCKING

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BILL OF MATERIAL		
NO.	DESC.	MAT'L
1	Cover	*
2	Yoke	*
3	Bolt	Bronze
4	Gasket	Neoprene
5	Washer	St. Steel
6	Washer	Neoprene
7	Rod-1/2" ø	Steel
8	Deck Ring	*
9	Wrench	Galv. Steel
10	Hinge Pins	St. Steel





SECT THRU HINGE

DIMENSIONS

HATCH SIZE	A	B	C	D	E	F
13-1/2 - 20-1/2	5-1/2	12-1/2	7-3/8	7	1/4	3/8
15 - 24	5-1/2	12-1/2	8-1/2	9	1/4	3/8

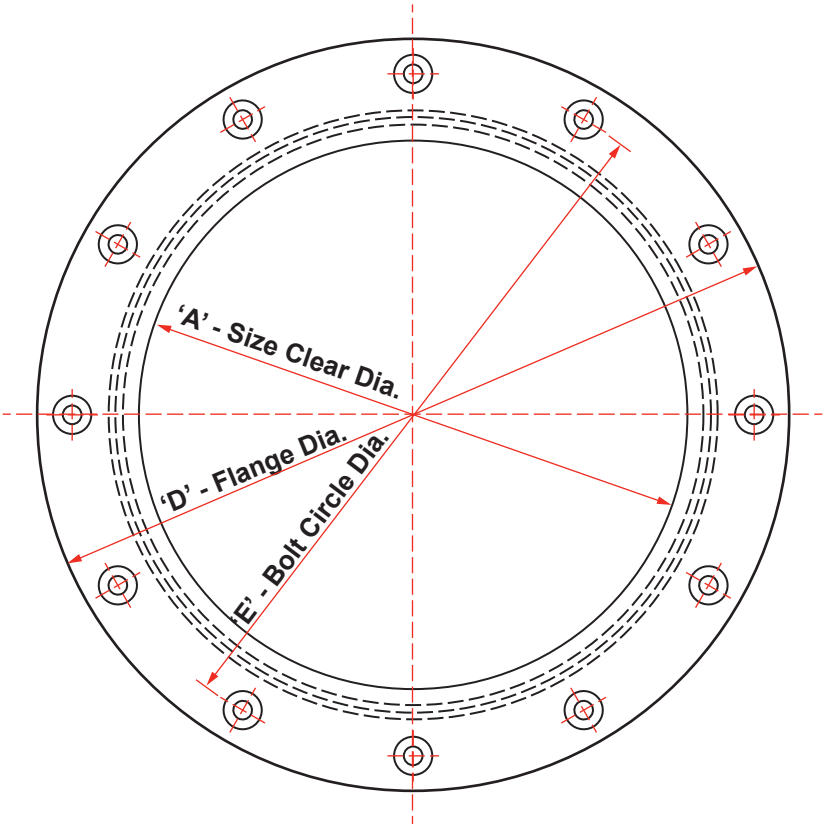
HINGED FLUSH TYPE

HINGED OVAL DOGGED TYPE

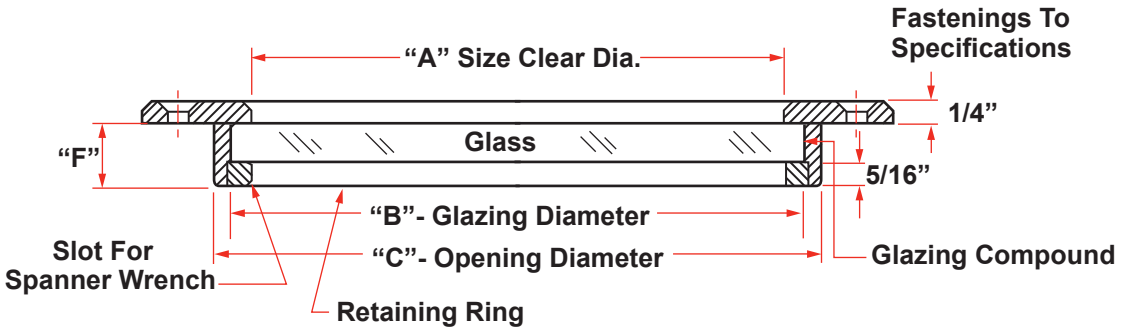
13-1/2" - 20-1/2 & 15 - 24 CLEAR OPENING

TYPE "C" POSITIVE LOCKING

PLAIN FIXED LIGHT
DRAWING NO. 500



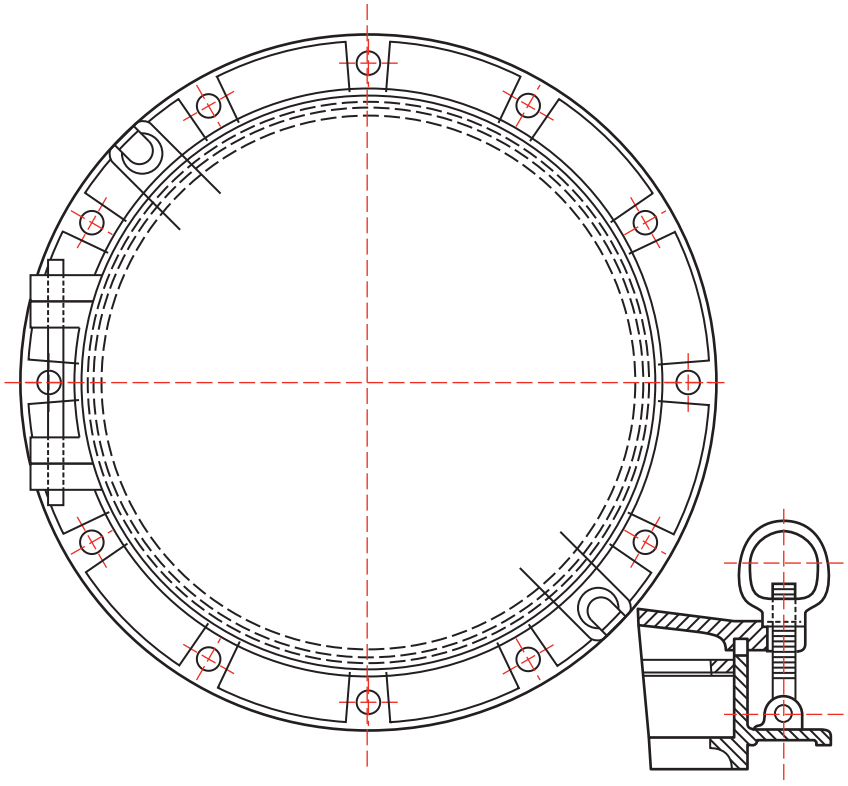
PLAN



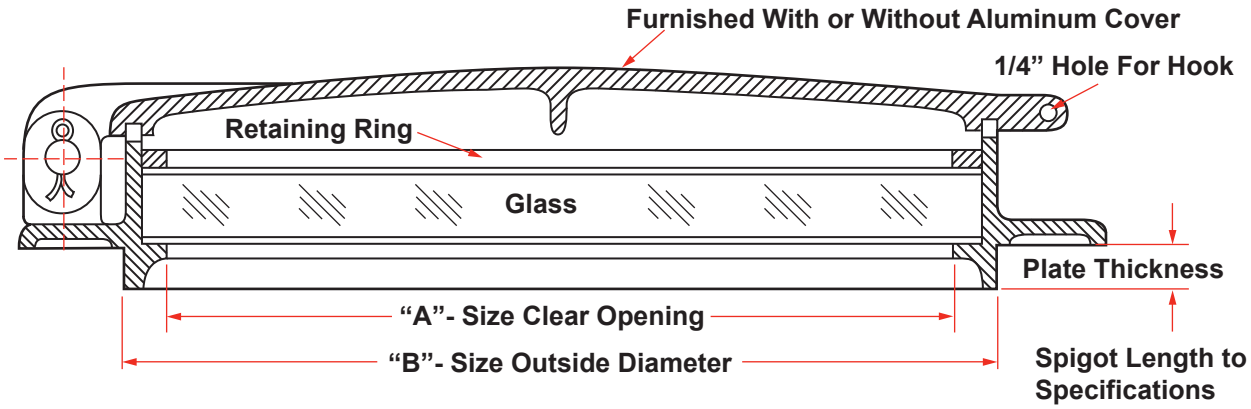
SECTION

DIMENSION SCHEDULE					
A	B	C	D	E	F
10"	10-1/2"	11-1/16"	13-1/4"	12-1/4"	1-1/16"
12"	12-1/2"	13"	15-3/16"	14-3/16	1-1/4"
16"	16-1/2"	17"	19-1/2"	18-1/2"	1-3/8"

REVERSE FIXED LIGHT
DRAWING NO. 600

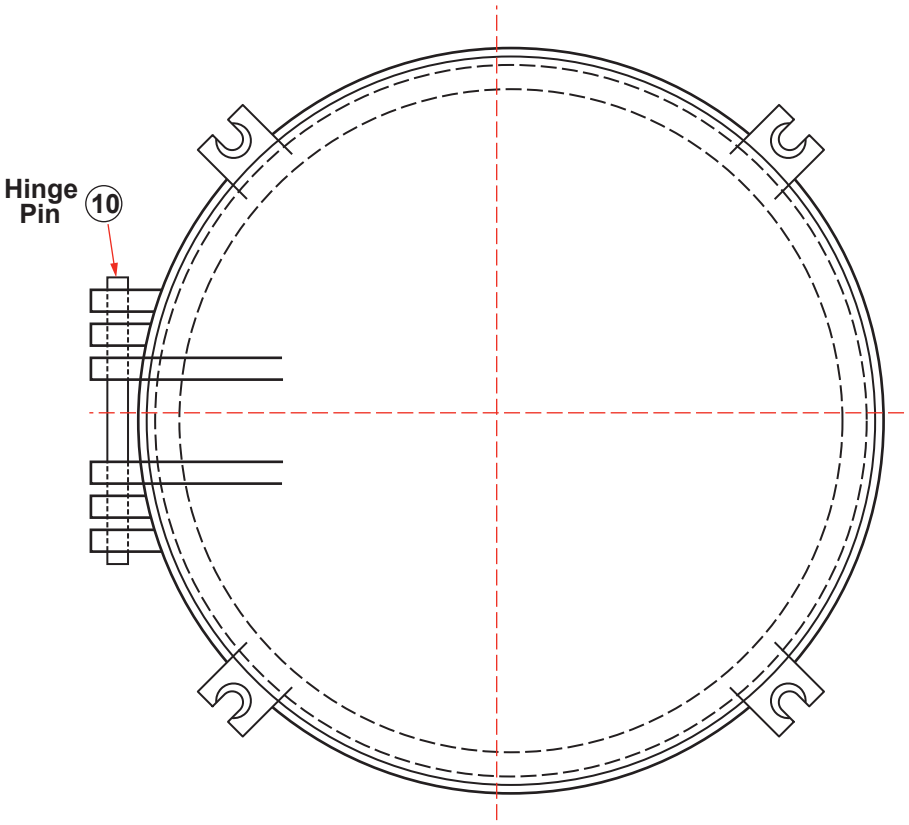


PLAN



DIMENSION SCHEDULE				
A-SIZE CLR. OP.	SPIGOT MAX. LT.	B-SIZE O.S. DIA	OVAL DIA.	BOLT HOLE
10"	1/2"	11"	13-1/4"	5/16"
12"	1/2"	13-1/8"	15-7/8"	3/8"
16"	1/2"	17-1/4"	20-3/8"	1/2"

STEEL BACK PORTLIGHT - WELD ON
DRAWING NO.700

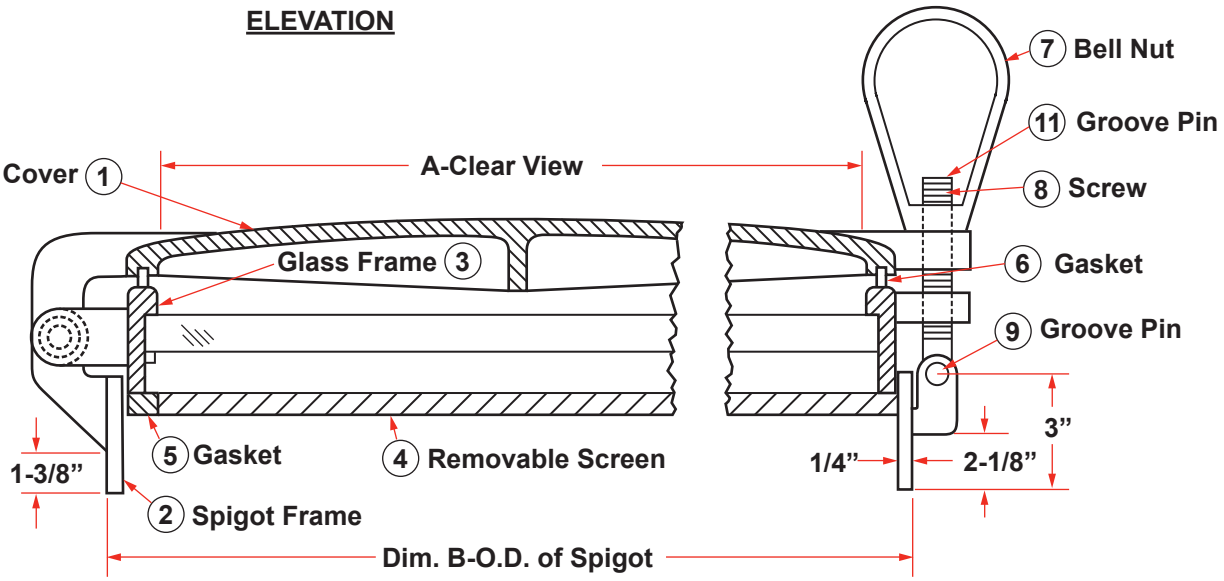


ELEVATION

SCHEDULE OF MATERIAL

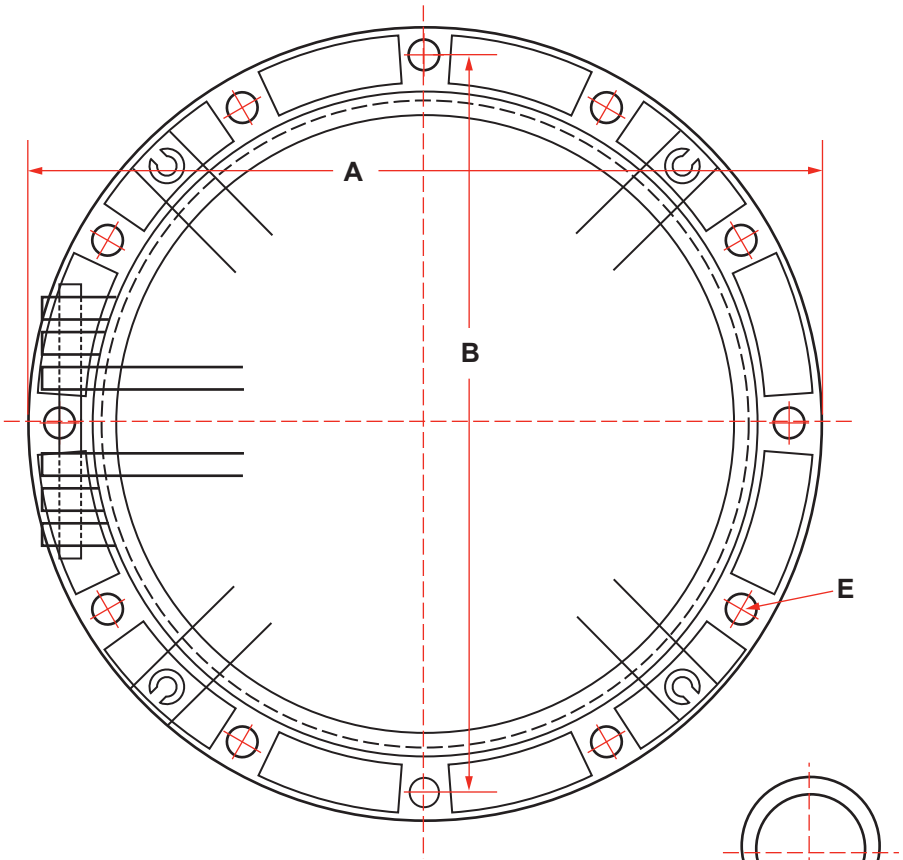
PC. NO.	MATERIAL
1	ALUMINUM
2	STEEL
3	BRASS
4	BRASS
5	NEOPRENE
6	NEOPRENE
7	BRASS
8	BRASS
9	STAINLESS
10	BRASS
11	STAINLESS

DIMENSION SCHEDULE				
SIZE	12	14	16	18
A	12″	14″	16″	18″
B	13-1/2″	15-1/2″	17-1/2″	19-1/2″

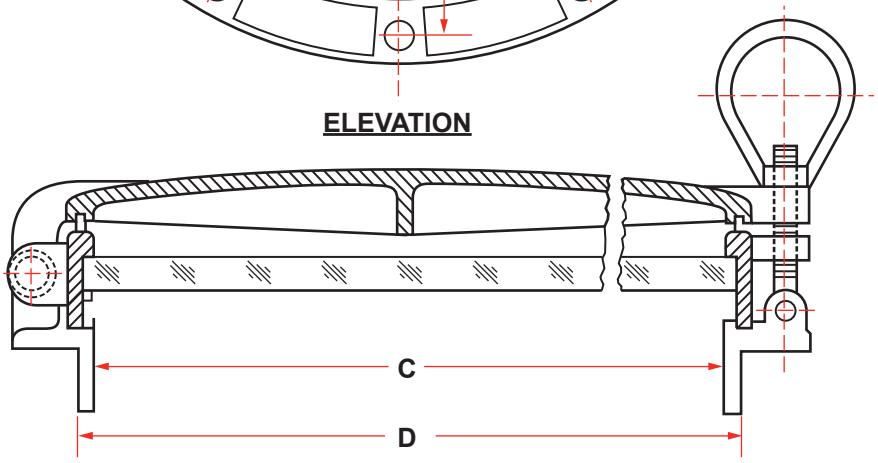


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PORTLIGHT - BOLT ON
DRAWING NO. 800



ELEVATION

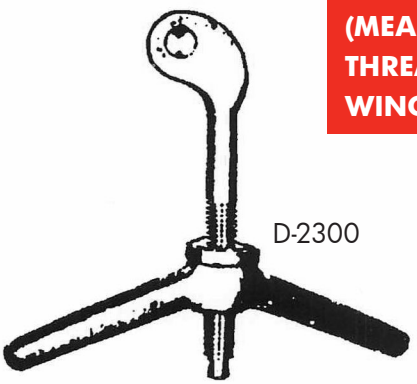


SECTION

DIMENSION SCHEDULE					
SIZE	10	12	14	16	18
A	14-1/4″	16″	18″	20-3/8″	22-3/4″
B	12-3/4″	14-3/4″	17″	18-7/8″	21-1/8″
C	10″	12″	14″	16″	18″
D	10-3/8″	12-3/8″	14-3/8″	16-1/2″	18-1/2″
E	1/2″	1/2″	1/2″	1/2″	1/2″

ON ALL DOGS SPECIFY 1) THREAD:STANDARD, ACME, OR METRIC. 2) DIAMETER. 3) LENGTH (MEASURE FROM THE CENTER OF EYE TO THREADED END). 4) INSIDE DIAMETER OF EYE. 5) WING NUT SPAN, IF APPLICABLE.

OFFSET HATCH BOLT
Manganese Bronze



D-2300

D-2300-1 3/4" x 9-1/2"
D-2300-2 7/8" x 9-1/2"
D-2300-3 5/8" x 7"

SHAPED HEAD DROP BOLT
Manganese Bronze



D-2308

D-2308-1 5/8" x 3-1/2"
D-2308-2 3/4" x 3-1/2"

EYEBOLT WITH SWING NUT
Manganese Bronze

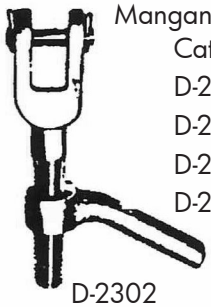


3/4" x 8"
eye dia.
1-3/16"

D-2301

TANK & HATCH COVER BOLT
Manganese Bronze

JAW DOG WITH SWING NUT

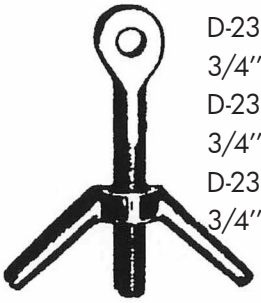


Manganese Bronze With Hinge Pins

Cat. No.	Dimensions
D-2302-1	3/8" x 6"
D-2302-2	1/2" x 6"
D-2302-3	5/8" x 6"
D-2302-4	3/4" x 6"
D-2302-5	7/8" x 9-1/2"

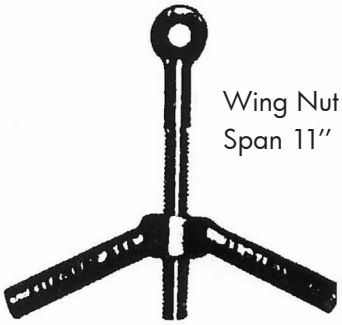
D-2302

SKYLIGHT DOG WITH WING NUTS
Manganese Bronze



D-2305-1
3/4" x 6"
D-2305-2
3/4" x 5"
D-2305-3
3/4" x 8"
Wing Nut
Span 6"

D-2305

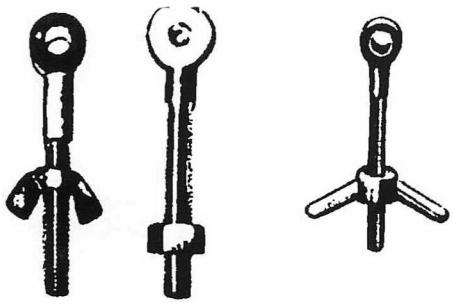


Wing Nut
Span 11"

D-2303
1/8" x 12-1/2"
(For Cargo Hatch Covers)

D-2304
(For Tank Tops) 7/8" x 9-1/2"

DOG BOLTS
Manganese Bronze, Stainless Steel & Steel



D-2307
w/butterfly, hex or wingnuts Specify diameter, length, type of nut and material.

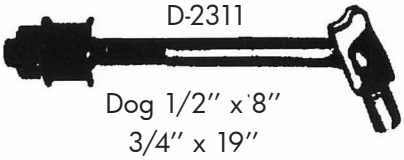
SADDLE DOG
Manganese Bronze



G-1900b
Sizes from 1/4" to 7/8" diameter. Complete with wing nuts and hinge pins.

BRONZE SECURING DOG
with Hinge Clevis

D-2311



Dog 1/2" x 8"
3/4" x 19"

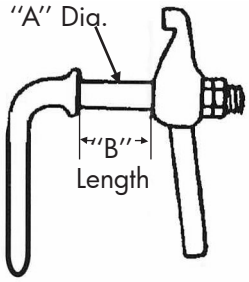
VENT DOGS
with Butterfly Nuts

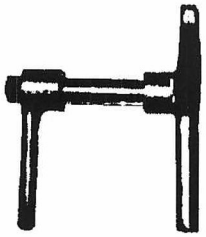


D-2306-1 3/4" x 6"
D-2306-2 3/4" 5"

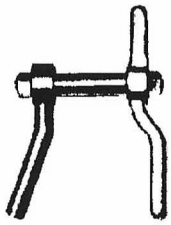
WATERTIGHT DOOR DOGS

Specify Type Below: Right Hand, Left Hand or Neutral. Shaft Diameter "A", Shaft Length "B". Manganese Bronze and Aluminum

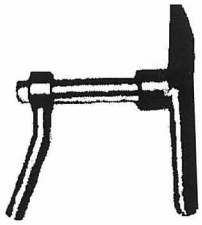




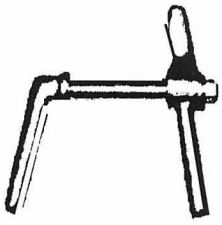
WTD-3400
Left, Right or Neutral



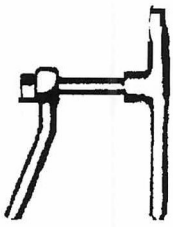
WTD-3401
Neutral Only



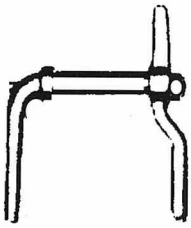
WTD-3402
Left, Right or Neutral



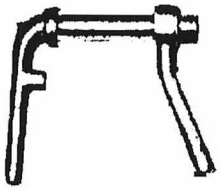
WTD-3403
Left, Right or Neutral



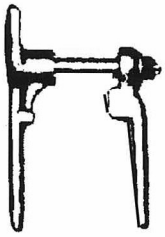
WTD-3404
Neutral Only



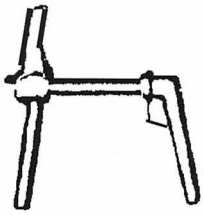
WTD-3405
Neutral Only



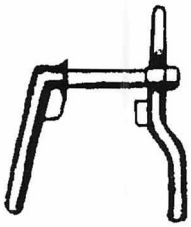
WTD-3406
Neutral Only



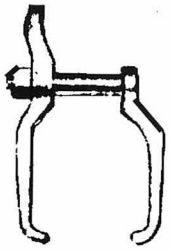
WTD-3407
Neutral Only



WTD-3408
Neutral Only



WTD-3409
Neutral Only



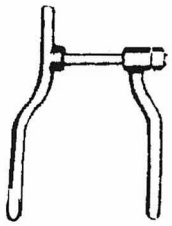
WTD-3410
Neutral Only



WTD-3411
Left, Right or Neutral



WTD-3412
Neutral



WTD-3413
Neutral

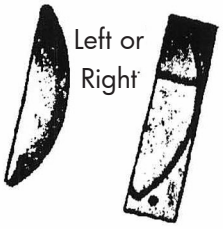
WATERTIGHT DOOR BUSHINGS



WTD-3402-8

WTD-3411
Left, Right or Neutral

BRONZE DOOR WEDGES



WTD-3405t



WTD-3405u



WTD-3405v



WTD-3405w



WTD-3405x

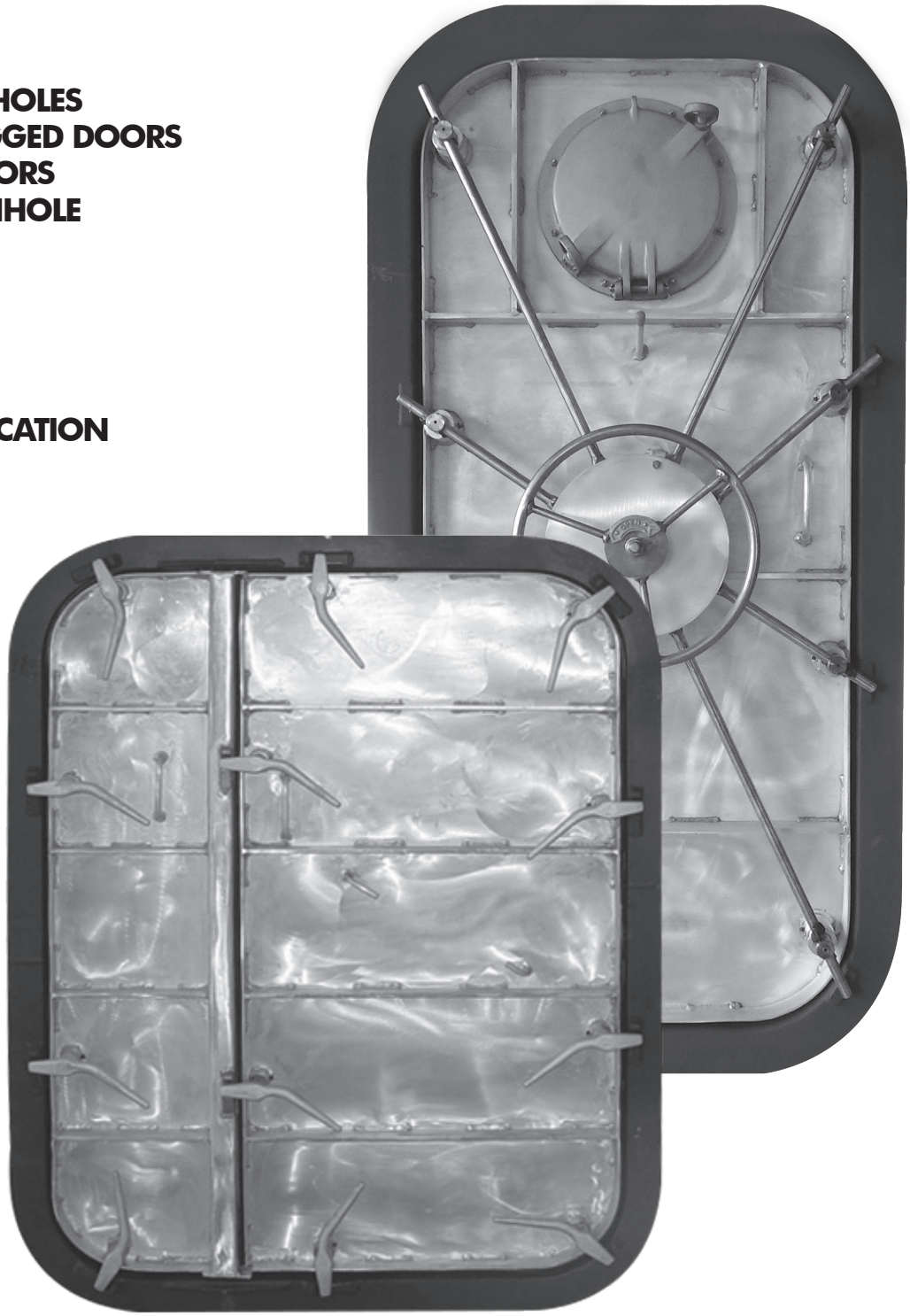


WTD-3405y

WTD-3405z

WE PROUDLY SERVICE THE MARINE & OIL INDUSTRY WITH:

- SCUTTLES
- HATCHES
- SINGLE BOLT MANHOLES
- INDIVIDUALLY DOGGED DOORS
- QUICK ACTING DOORS
- BOLTED PLATE MANHOLE
- FIXED LIGHTS
- PORTLIGHTS
- LADDERS
- PLATFORMS
- HANDRAILS
- STRUCTURAL FABRICATION



FABRICATION IN:

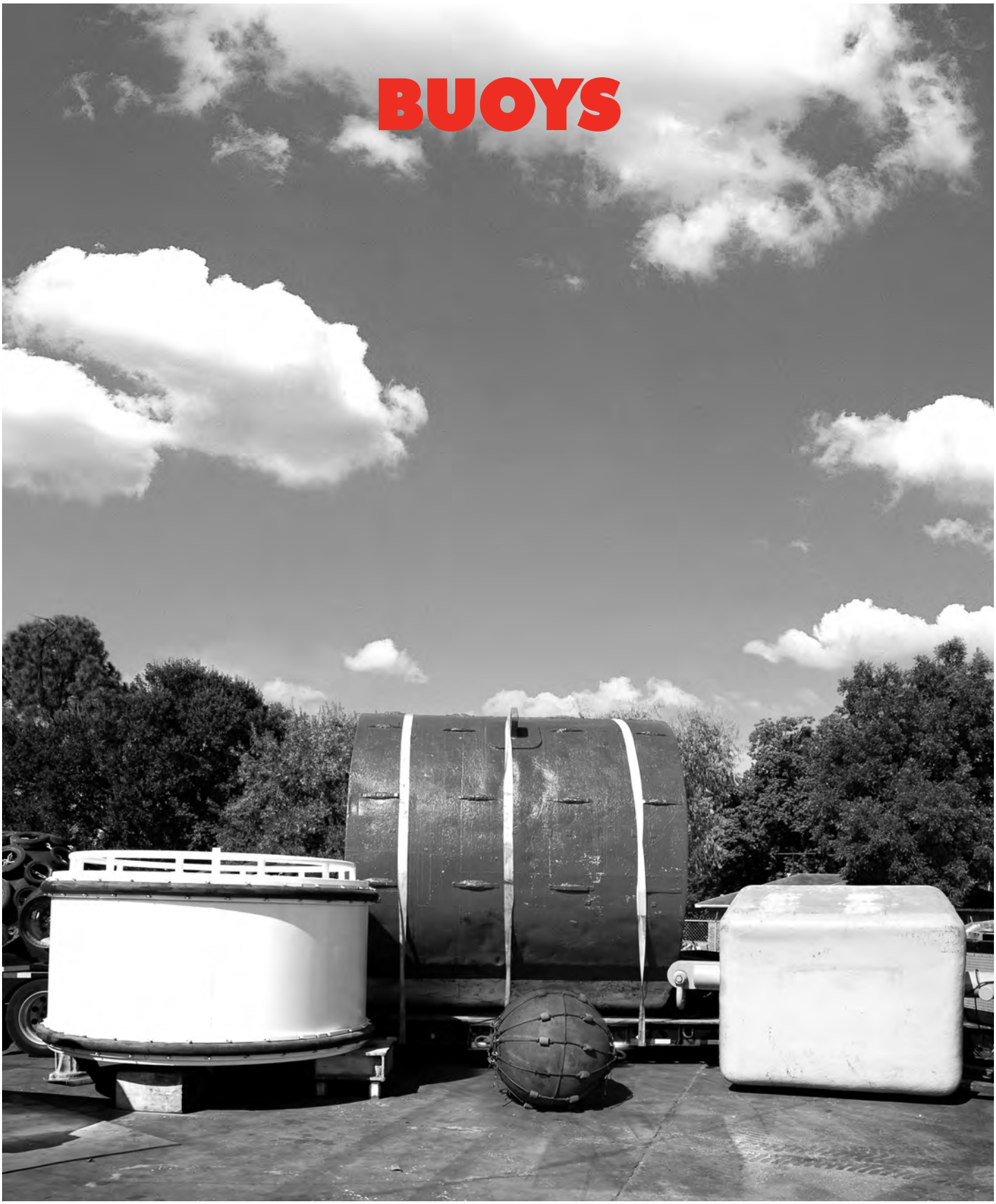
- STEEL
- ALUMINUM
- STAINLESS

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BUOYS



BUOYS

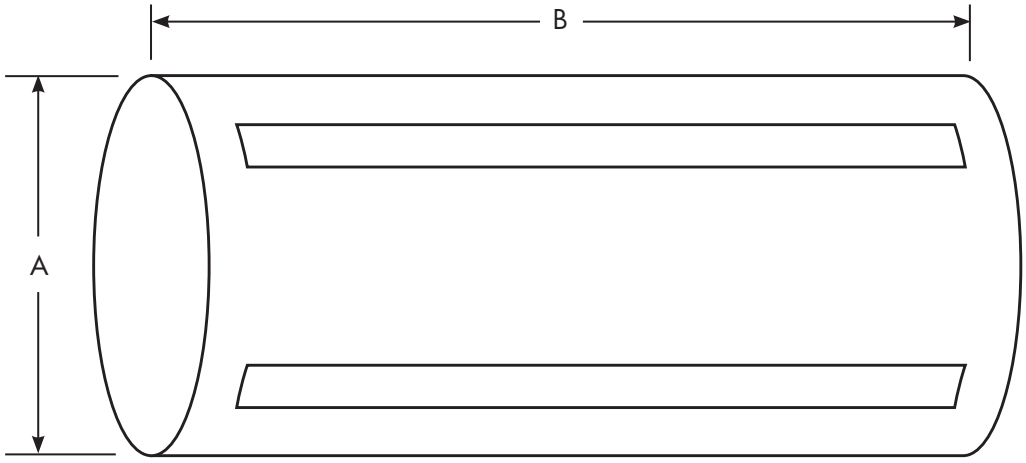
CYLINDRICAL TYPE BUOY

TYPE 1

Dimensions: A=5'9" & B=12'0"
Displacement of Seawater: 20,700 lbs.
Total Buoyancy: 15,750 lbs.
Total Liquid Capacity as container: 2,300 gallons
Weight: 4,950 lbs.
Attachments: 1-3/4" mooring eyes top and bottom
wooden rubbing strips 1
6" I.D. manways

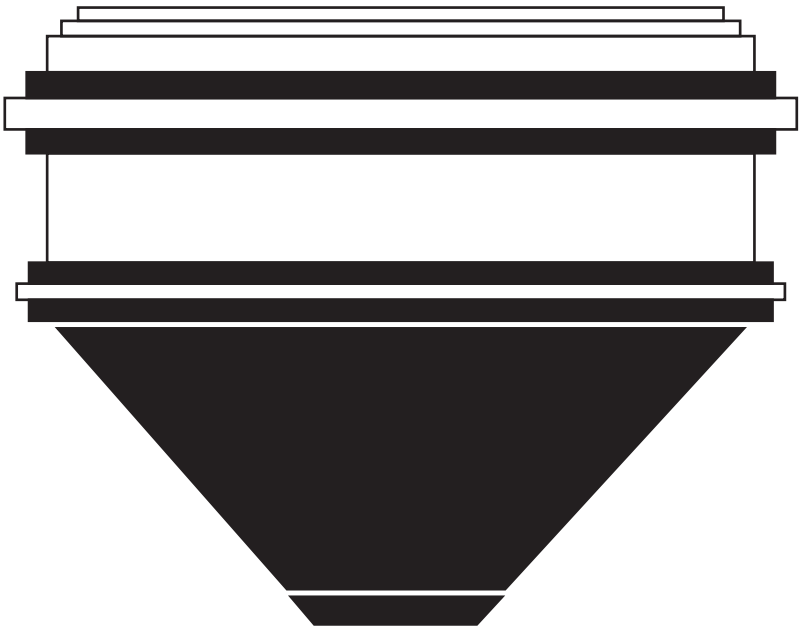
TYPE 2

Dimensions: A=8'0" & B=14'0"
Displacement of Seawater: 45,270 lbs.
Total Buoyancy: 27,670 lbs.
Total Liquid Capacity as container: 5,264 gallons
Weight: 8,960 lbs.
Attachments: mooring eyes top and bottom
wooden rubbing strips
typical manways



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PEG TOP BUOY



DIMENSIONS: 13'0" DIA. X 10'0" HIGH
DISPLACEMENT OF SEAWATER: 48,100 LBS.
TOTAL BUOYANCY: 35,300 LBS.
WEIGHT: 12,800 LBS.
ATTACHMENTS: WOODEN RUBBING STRIPS
TYPICAL MANWAYS

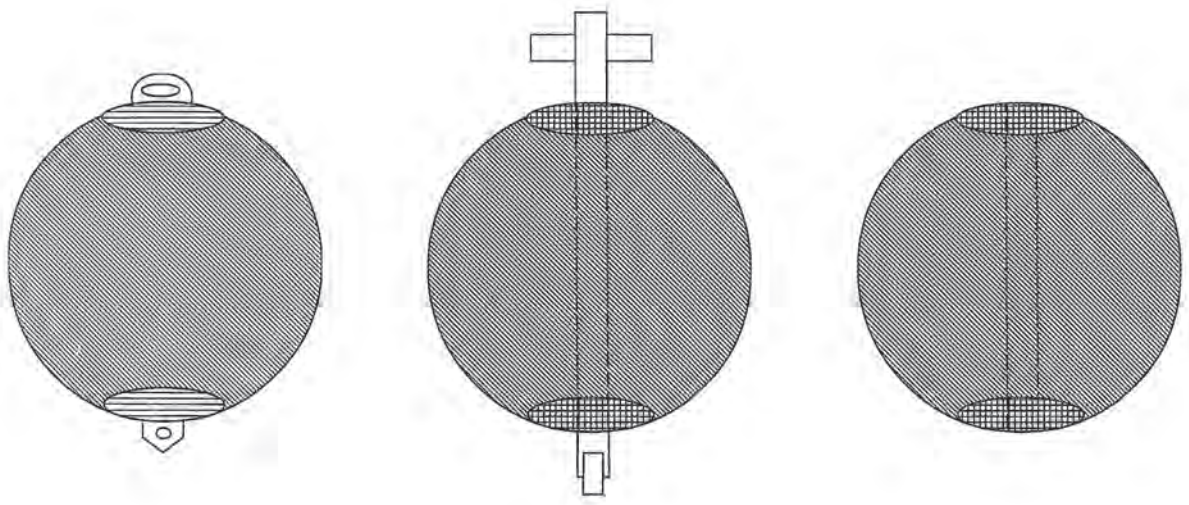


BUOYS

SPHERICAL TYPE BUOY



	30″	40″	58″
Buoyancy	416 lbs.	987 lbs.	3,007 lbs.
Dry Weight	198 lbs.	312 lbs.	694 lbs.
Total Liquid Capacity	58 gal	140 gal	440 gal

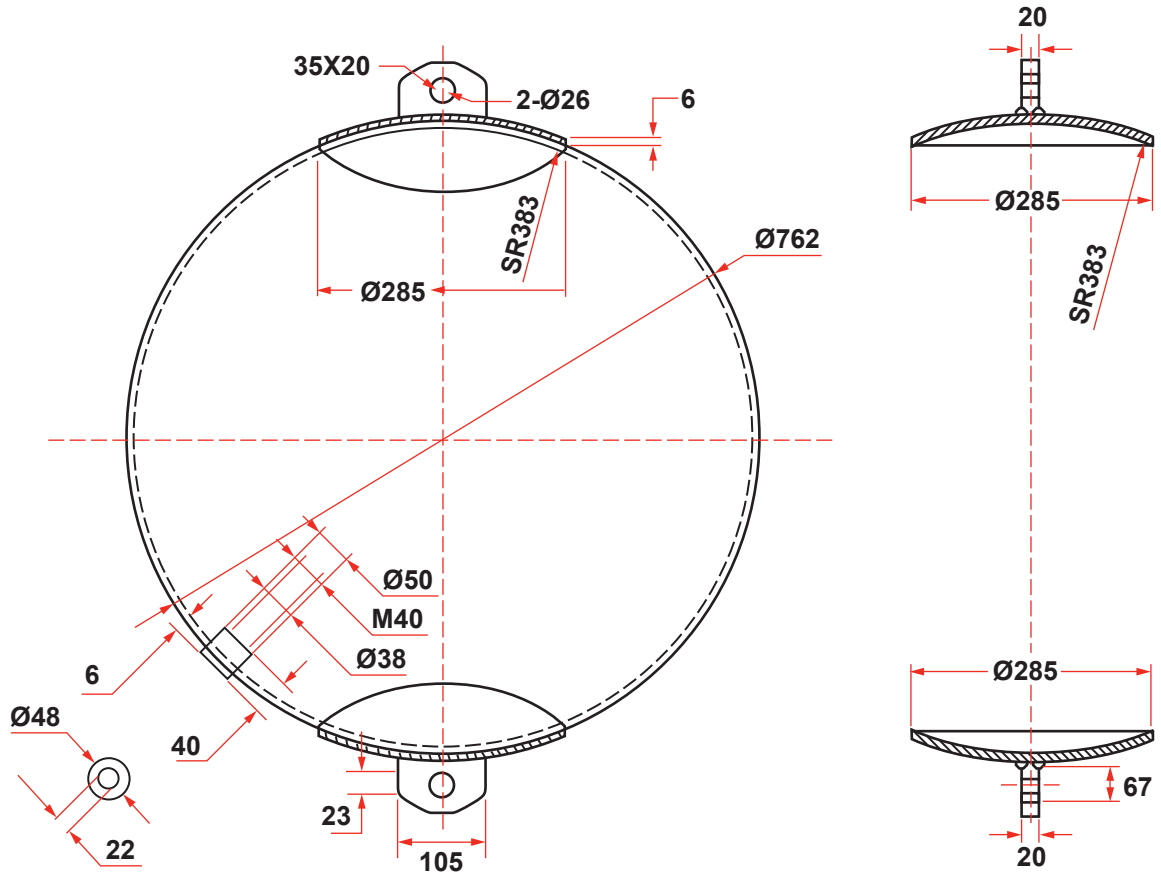


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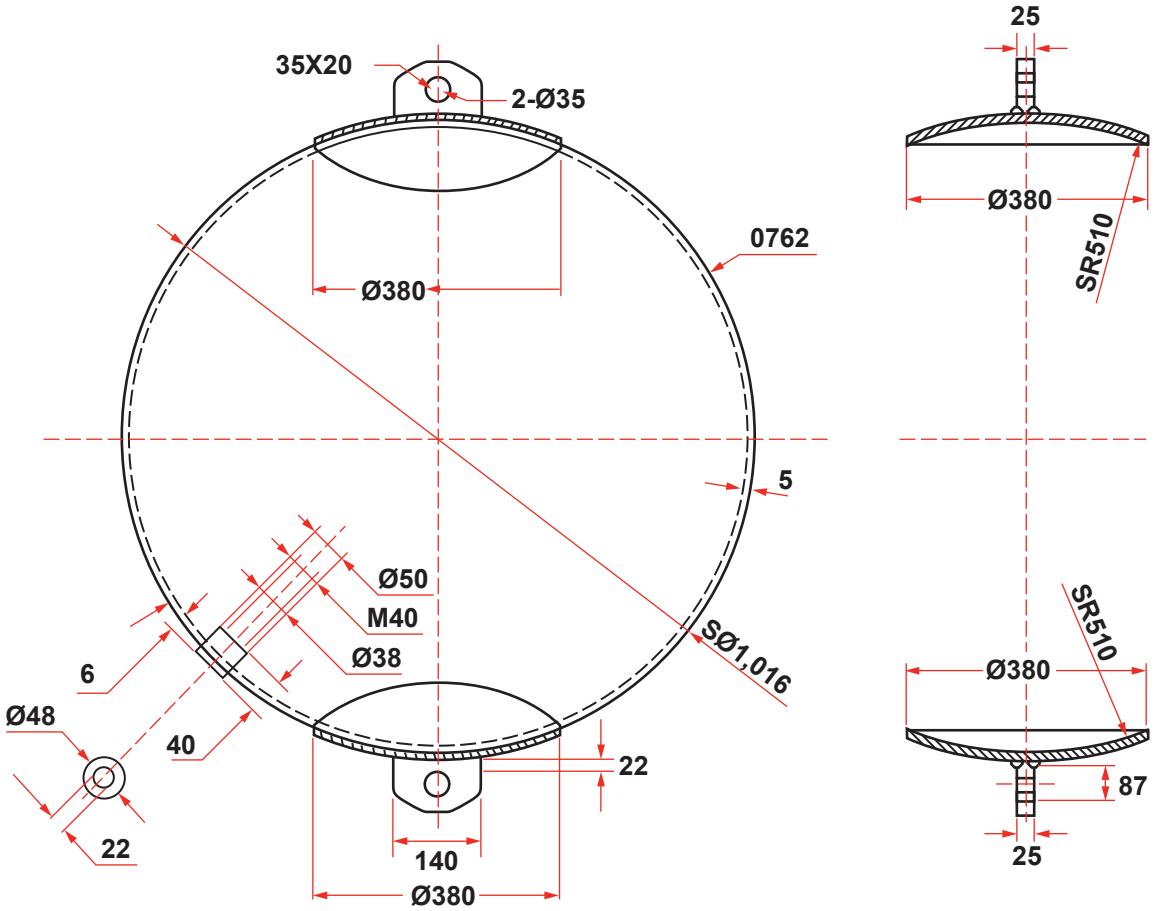
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30" SPHERICAL BUOY PAD EYES EACH END



BUOYANCY: 416 LBS.
WEIGHT: 198 LBS.
CAPACITY: 58 GAL

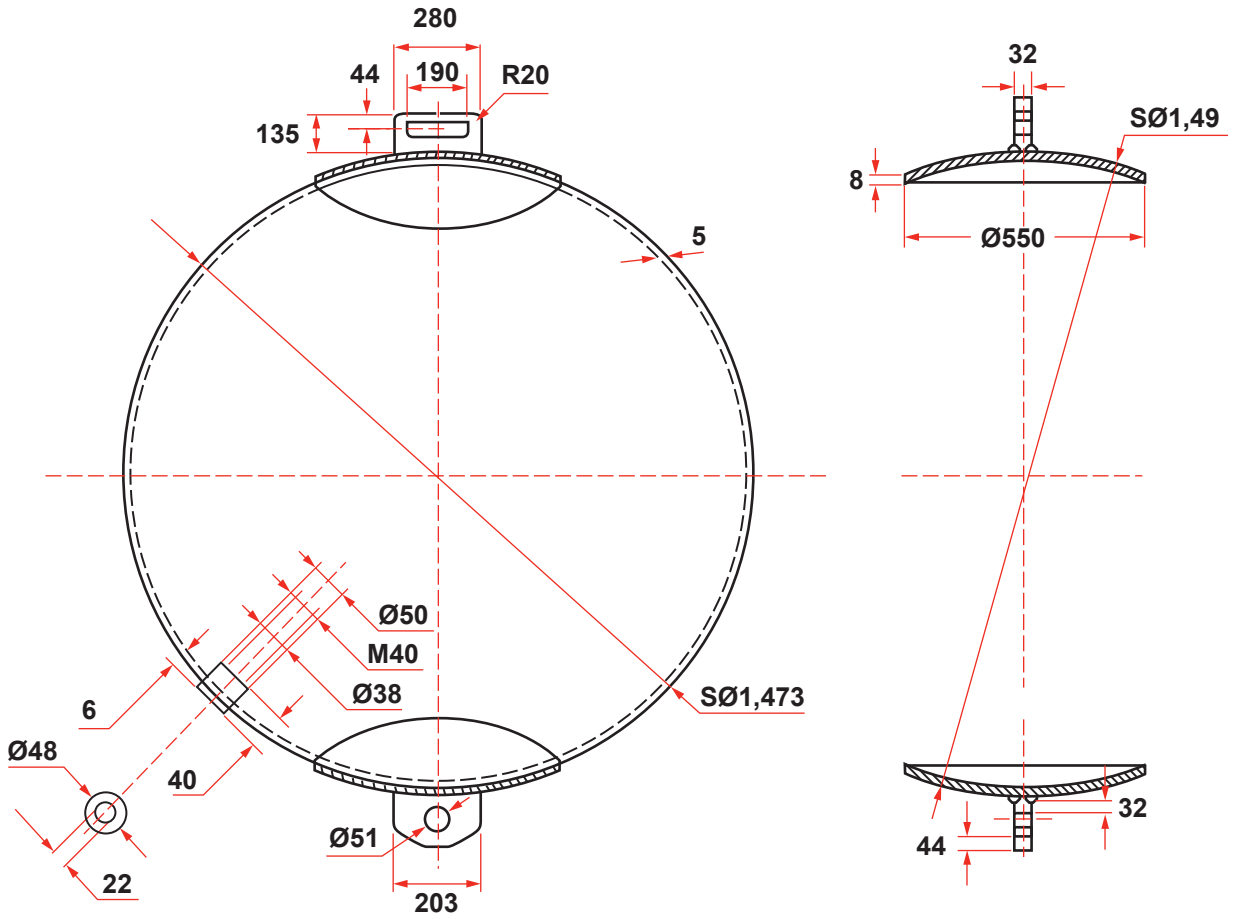
40" SPHERICAL BUOY PAD EYES EACH END



BUOYANCY: 987 LBS.
WEIGHT: 312 LBS.
CAPACITY: 140 GAL

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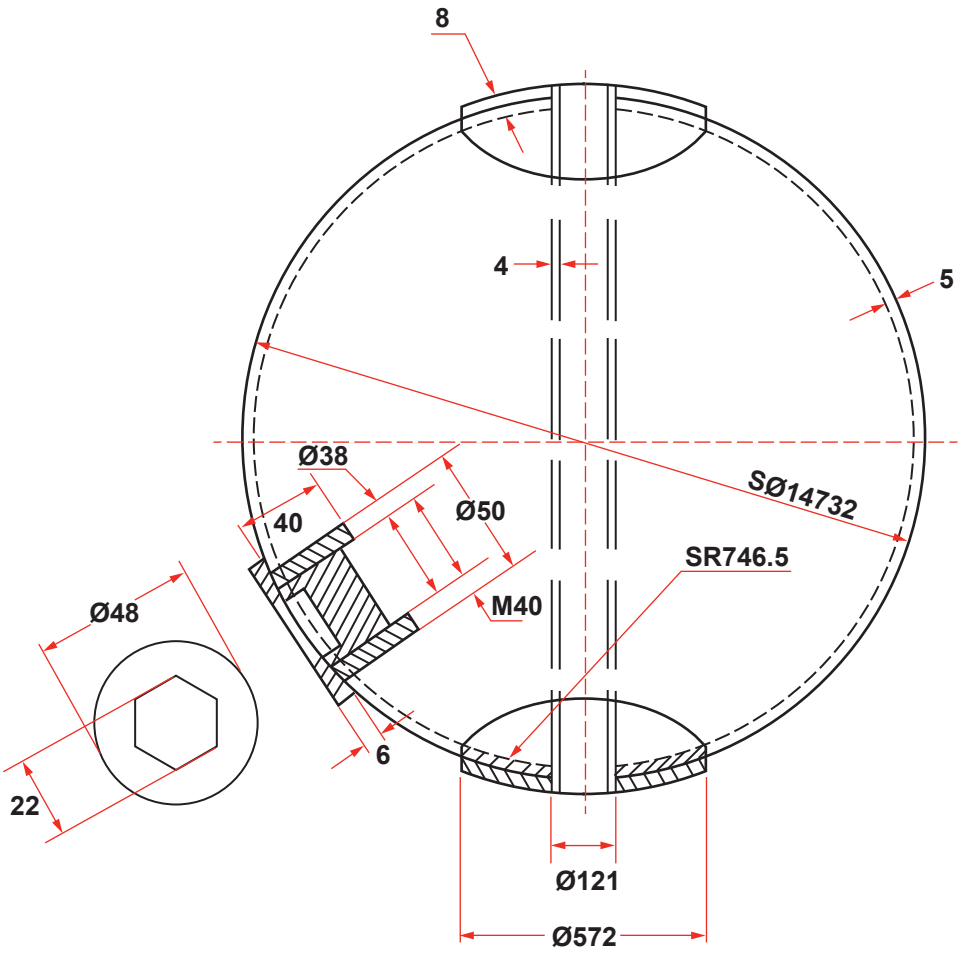
58" SPHERICAL BUOY PAD EYES EACH END



BUOYANCY: 3007 LBS.
WEIGHT: 679 LBS.
CAPACITY: 440 GAL

BUOYS

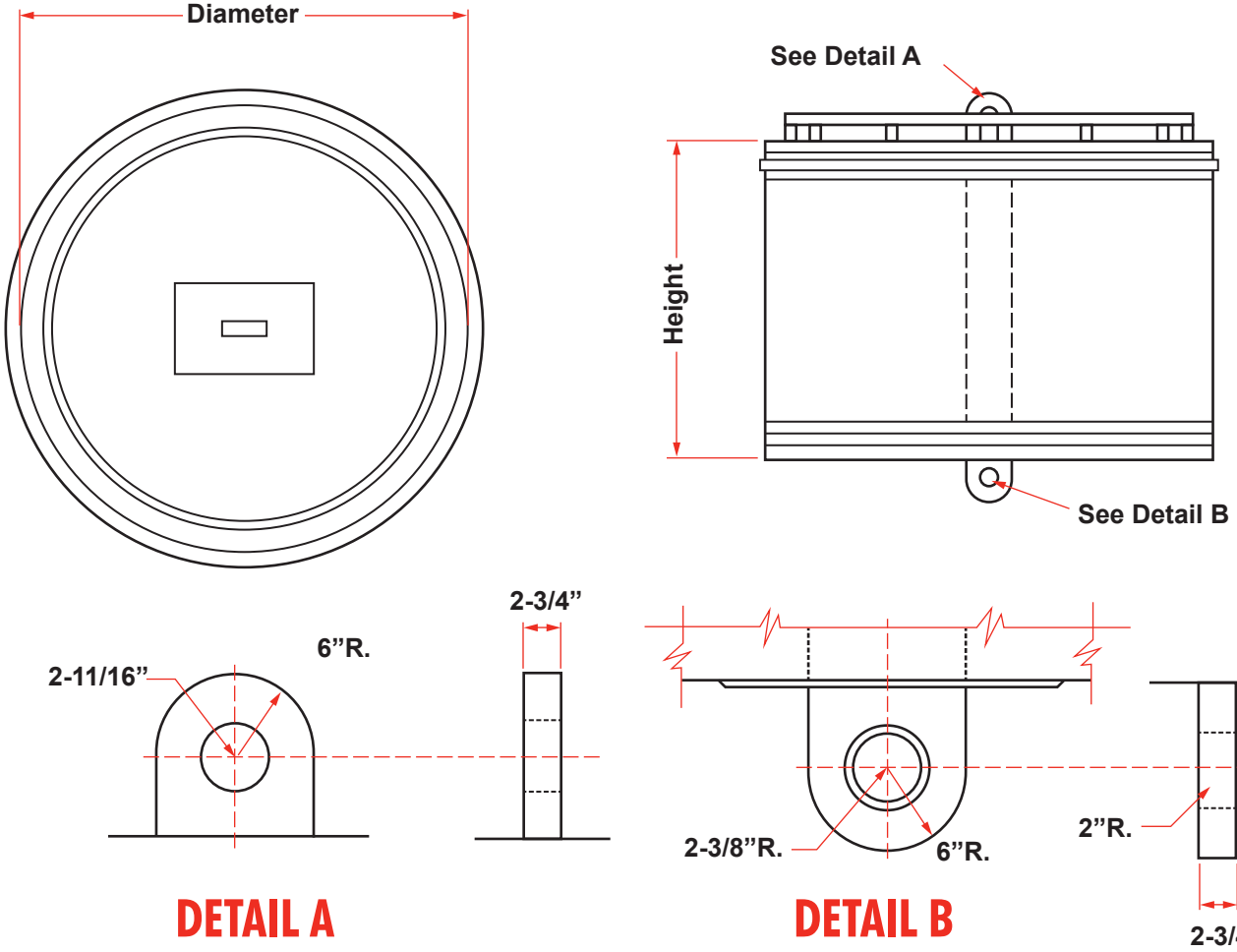
58" SPHERICAL BUOY WITH PIPE THROUGH



BUOYANCY: 3007 LBS.
WEIGHT: 694 LBS.
CAPACITY: 420 GAL

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BAR RISER CHAIN TYPE MOORING BUOY



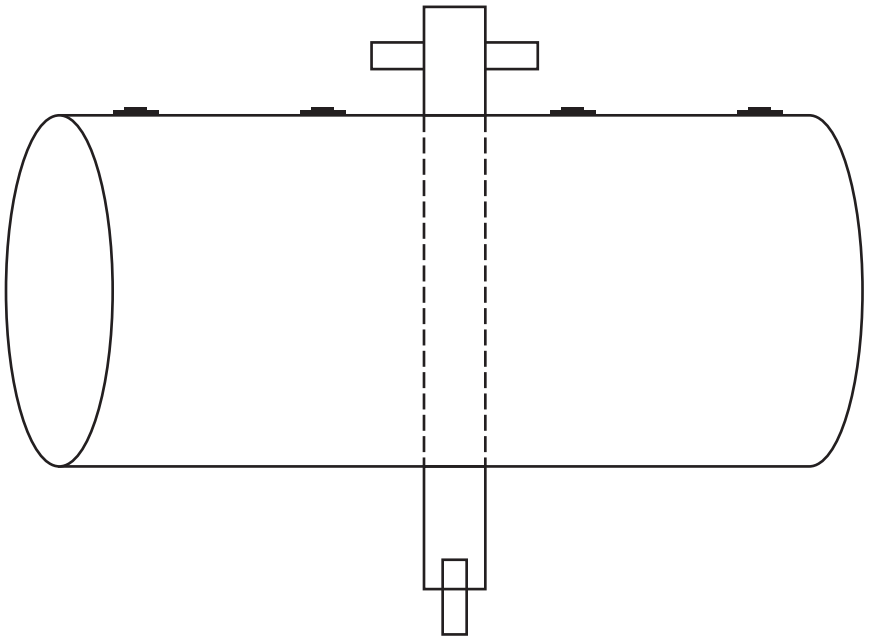
DETAIL A

DETAIL B

DIAMETER	HEIGHT	WEIGHT IN AIR	NAVFAC DWG. NO.
9'-6" O.D.	5'-0"	7,700 lbs.	620659
10'-6" O.D.	6'-6"	9,600 lbs.	620659
10'-6" O.D.	7'-6"	10,100 lbs.	620659

BUOYS

CYLINDRICAL STEEL

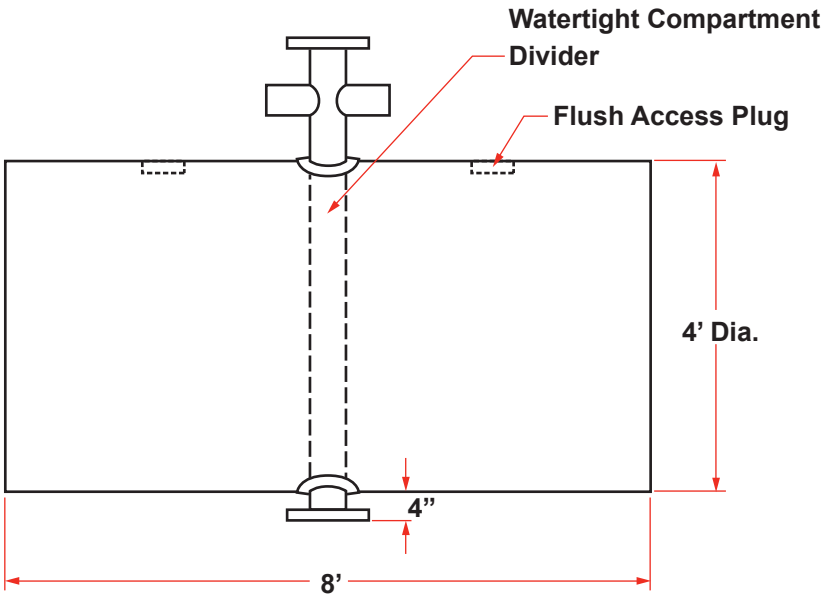


MOORING BUOY SPECIFICATIONS					
DESCRIPTION	VOLUME (CUBIC FEET)	NET BUOYANCY (POUNDS)	SHIPPING WEIGHT (POUNDS)	COMPARTMENTS	ADDITIONAL BUOYANCY PER FOOT OF LENGTH (POUNDS)
5′ x 8′ x 1/4″ Plate	157	7,300	2,600	two	1,030
7′ x 8′ x 3/4″ Plate	308	13,600	5,600	two	2,000
7-1/2′ x 9-1/2′ x 3/8″ Plate	419	19,300	6,800	two	2,300
8′ x 10′ x 3/8″ Plate	502	22,800	8,500	three	2,600
10′ x 12′ x 3/8″ Plate	942	45,300	13,500	three	4,500
10′ x 12′ x 1/2″ Plate	942	42,000	16,800	three	4,100
10′ x 16′ x 3/8″ Plate	1,257	59,000	17,750	three	5,800
10′ x 16′ x 1/2″ Plate	1,257	56,000	20,750	three	5,500

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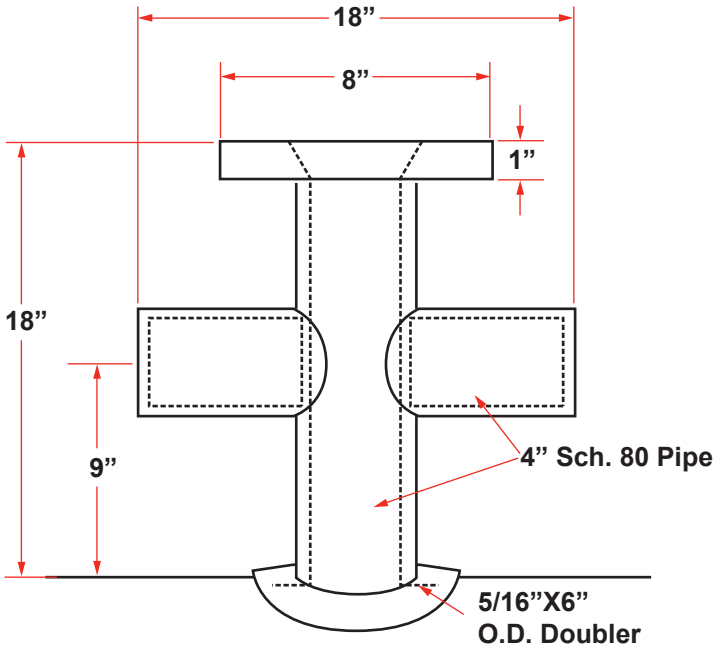
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PENDANT LINE BUOYS

- 4' dia. x 8' long cylindrical buoys
- Foam filled
- Constructed of 5/16" plate
- 2 Watertight compartments
- Buoy to be sandblasted to white metal
- 1 coat Dimetcote, 2 coats high build white epoxy.
- Total buoyancy: 6400 lbs.
- Total Weight: 2100 lbs.
- Reserve buoyancy: 4300 lbs.

Other sizes available upon request.



BUOYS

CIRCUMFERENCE, AREA AND VOLUME OF CIRCLES AND CYLINDERS

DIAM. IN FEET	CIRCUMFERENCE		AREA OF CIRCLE		VOLUME OF CYLINDER PER FOOT OF HEIGHT			DIAM. IN FEET
	FEET	METERS	SQ. FEET	SQ. METERS	U.S. GALS	IMPERIAL GALS	U.S. BBLS (42 GALS)	
1	3.14	0.9576	0.785	.0730	5.9	4.9	0.140	1
2	6.28	1.9151	3.153	.2919	23.5	19.6	0.560	2
3	9.42	2.8727	7.069	.6567	52.9	44.0	1.259	3
4	12.57	3.8302	12.566	1.1675	94.0	78.3	2.238	4
5	15.71	4.7878	19.635	1.8241	146.9	122.3	3.497	5
6	18.85	5.7454	28.274	2.6268	211.5	176.1	5.04	6
7	21.99	6.7029	38.485	3.5753	287.9	239.7	6.85	7
8	25.13	7.6605	50.266	4.6698	376.0	313.1	8.95	8
9	28.27	8.6180	63.617	5.9102	475.9	396.3	11.33	9
10	31.42	9.5756	78.540	7.2966	587.5	489.2	13.99	10
11	34.56	10.5331	95.033	8.8289	710.9	591.9	16.93	11
12	37.70	11.4907	113.097	10.5071	846.0	704.5	20.14	12
13	40.84	12.4482	132.732	12.3312	992.9	826.8	23.64	13
14	43.98	13.4058	153.938	14.3013	1,151.5	958.9	27.42	14
15	47.12	14.3634	176.715	16.4173	1,321.9	1,100.7	31.47	15
16	50.27	15.3209	201.062	18.6793	1,504.0	1,252.4	35.81	16
17	53.41	16.2785	226.980	21.0871	1,697.9	1,413.8	40.43	17
18	56.55	17.2360	254.469	23.6409	1,903.6	1,585.1	45.32	18
19	59.69	18.1936	283.529	26.3407	2,120.9	1,766.1	50.50	19
20	62.83	19.1511	314.159	29.1864	2,350.1	1,956.9	55.95	20
21	65.97	20.1087	346.361	32.1780	2,591.0	2,157.4	61.69	21
22	69.12	21.0663	380.122	35.3155	2,843.6	2,367.8	67.70	22
23	72.26	22.0238	415.476	38.5989	3,108.0	2,587.9	74.00	23
24	75.40	22.9814	452.389	42.0283	3,384.1	2,817.9	80.57	24
25	78.54	23.9389	490.874	45.6037	3,672.0	3,057.6	87.43	25
26	81.68	24.8965	530.929	49.3249	3,971.6	3,307.1	94.56	26
27	84.82	25.8541	572.555	53.1921	4,283.0	3,566.4	101.98	27
28	87.97	26.8116	615.752	57.2052	4,606.1	3,835.4	109.67	28
29	91.11	27.7692	660.520	61.3643	4,941.0	4,114.3	117.64	29
30	94.25	28.7267	706.858	65.6693	5,287.7	4,402.9	125.90	30
31	97.39	29.6843	754.768	70.1202	5,646.1	4,701.4	134.43	31
32	100.53	30.6418	804.248	74.7171	6,016.2	5,009.6	143.24	32
33	103.67	31.5994	855.299	79.4598	6,398.1	5,327.5	152.34	33
34	106.81	32.5570	907.920	84.3486	6,791.7	5,655.3	161.71	34
35	109.96	33.5145	962.113	89.3832	7,197.1	5,992.9	171.36	35
36	113.10	34.4721	1,017.88	94.5638	7,614.2	6,340.2	181.29	36
37	116.24	35.4269	1,075.21	99.8903	8,043.1	6,697.4	191.50	37
38	119.38	36.3872	1,134.11	105.3627	8,483.8	7,064.3	201.99	38
39	122.52	37.3447	1,194.59	110.9811	8,936.2	7,441.0	212.77	39
40	125.66	38.3023	1,256.64	116.7454	9,400.3	7,827.4	223.82	40
41	128.81	39.2599	1,320.25	122.6556	9,876.2	8,223.7	235.15	41
42	131.95	40.2174	1,385.44	128.7118	10,363.8	8,629.7	246.76	42
43	135.09	41.1750	1,452.20	134.9139	10,863.2	9,045.6	258.65	43
44	138.23	42.1325	1,520.53	141.2619	11,374.4	9,471.2	270.82	44

NOTES:
1.If diameters are assumed as meters, values in columns "Circumference Feet" and "Are of Circle Square Feet" will represent circumference in meters and area of circle in square meters respectively.
2. If diameters are assumed as meters, values in column "Area of Circle Square Feet" will represent volume of cylinder in cubic meters per vertical meter of height.
Formula to determine capacity per foot of vertical height of cylinder.

D = Diameter in Feet. 5.875185 D^2 = U.S. Gallons per vertical foot. 0.022240 D^2 = Cubic Meters per vertical foot.
0.1398854 D^2 = Barrels of 42 U.S. Gallons per vertical foot. 4.892148 D^2 = Imperial Gallons per vertical foot.
0.785398 D^2 = ^aD = Diameter in Meters = Cubic meters per vertical meter.

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OCEAN GUARD™ RESILIENT FOAM FILLED BUOYS

The Ocean Guard™ Buoys resilient surfaces are constructed to withstand the toughest marine applications and environments the world can offer. The Ocean Guard™ Buoys constructed with the latest technology and materials exemplifies state-of-the-art technology in buoy design and functionality. Composite buoys are designed to absorb minor impacts without damaging the buoy body or vessel.

PERFORMANCE FEATURES

UNSINKABLE CONSTRUCTION
The Ocean Guard™ Buoys closed cell foam filled construction provides a buoy that is unsinkable even if it's punctured.

IMPACT ABSORBING
The resilient outer foam layer and the reinforced elastomeric skin of the Ocean Guard™ Buoys are designed to absorb impacts of vessels without damaging the buoy or the impacting vessel.



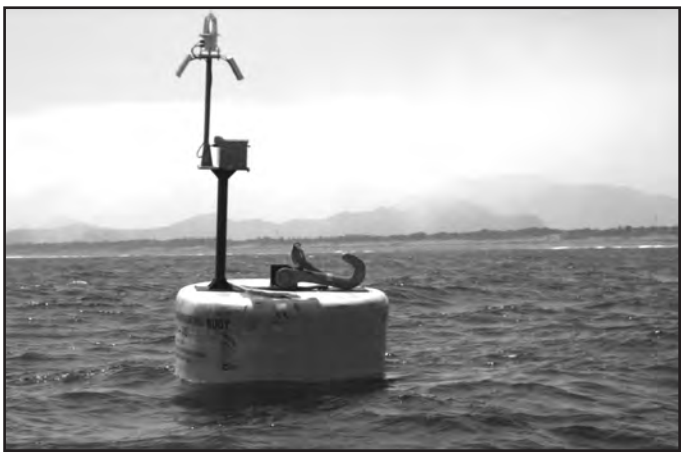
NON MARKING
The tough, thick, reinforced elastomeric urethane skin of Ocean Guard™ Buoys is non marking and available in different colors and will not wear off.



END FITTINGS
Ocean Guard™ Buoys end fittings are available in a variety of styles including mooring tees, padeyes, quick release hooks, swivel eyes, bails, forged eyes, hawse pipe with capture plates and navigational lights.



SUPERIOR TO STEEL BUOYS
The Ocean Guard™ Buoys are designed and constructed to be lighter, more corrosion resistant, less maintenance and easier to handle than conventional steel buoys. The abrasion resistant urethane skin will resist the harshest environments without corroding.



CUSTOM DESIGNS
Engineers work closely with the customer to select or custom design an Ocean Guard™ Buoy to meet their specific requirements and needs.

BUOYS

CONSTRUCTION FEATURES

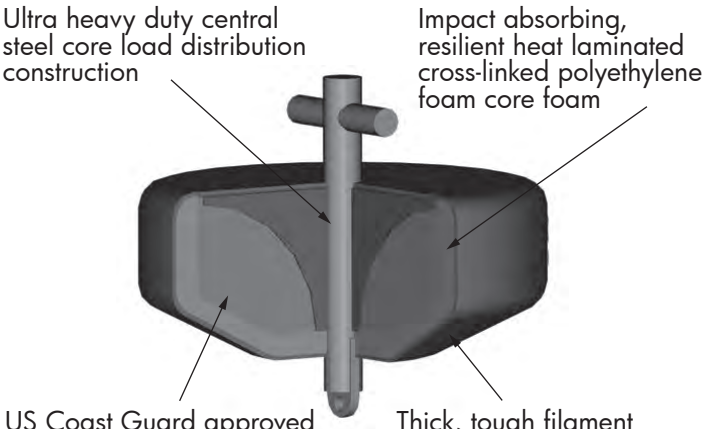
INTERNAL STEEL CENTRAL STRENGTH MEMBERS

The Ocean Guard™ Buoy's construction begins with an Ultra heavy duty internal steel central strength member which provides excellent working load performance. The welded steel structure contains load distribution plates which provide outstanding pull through performance.



RIGID INNER CLOSED CELL URETHANE FOAM CORE

The second layer in Ocean Guard™ Buoy construction consists of a US Coast Guard compliant rigid inner 100% closed cell urethane foam core. This strong foam core has excellent buoyancy and compression strength properties. The foam is molded directly onto the internal Steel Central Strength Member which provides an unsinkable buoy.



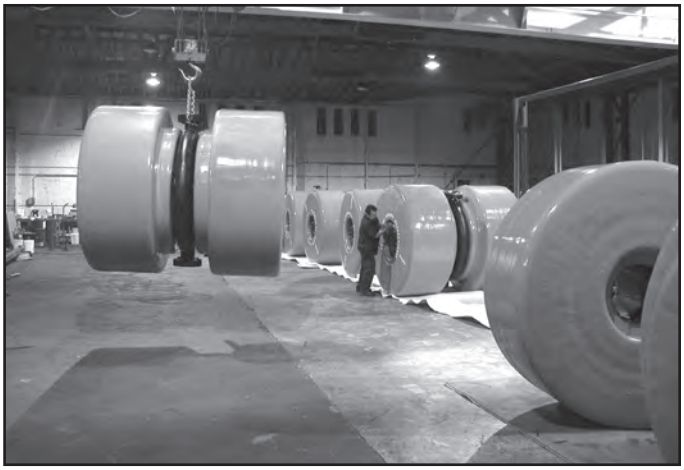






RESILIENT OUTER FOAM CORE

The third layer in Ocean Guard™ Buoy construction consists of an impact absorbing closed cell cross-linked polyethylene foam core. The same heat lamination process used in our Ocean Guard™ fenders, produces a thermal bond between the layers of foam which is stronger than the foam itself which, will not delaminate even under the most abusive berthing conditions. This impact absorbing foam core is added to absorb vessel impacts without damaging the buoy or the impacting vessel.



REINFORCED ELASTOMERIC SKIN

The final layer, impact absorbing foam core is protected by a tough thick filament nylon tire cord reinforced elastomer skin. This non-marking reinforced elastomer fender skin is the wear surface of the fender. The reinforcing filaments are continuously wound in a helix pattern through up to 90% of the elastomer skin and wrap around the buoys end fittings. This continuous reinforcement of the elastomer skin not only increases the tensile and tear strength of the elastomer but also distributes loads throughout the fender skin.

This tough resilient material is specially formulated to withstand the world's harshest environmental conditions providing superior performance in extreme temperatures, toxic environments, against hydrocarbons, salt water, ozone and ultraviolet radiation.

OCEAN GUARD MOORING BUOYS

BUOY MODEL	BUOYANCY NET		BUOY WEIGHT		DIAMETER OVERALL		HEIGHT BUOY BODY		HEIGHT OVERALL		WORKING LOAD	
	LBS	KG	LBS	KG	FT	M	FT	M	FT	M	LBS	TONS
MB-25	5,512	2,500	1,756	797	6.1	1.9	3.6	1.1	7.6	2.3	100,000	45
MB-35	7,716	3,500	2,340	1,061	7.0	2.1	4.3	1.3	8.5	2.6	150,000	68
MB-50	11,023	5,000	2,371	1,075	7.5	2.3	4.9	1.5	8.6	2.6	150,000	68
MB-70	15,432	7,000	2,938	1,333	8.5	2.6	5.0	1.5	8.6	2.6	200,000	91
MB-90	19,842	9,000	4,657	2,112	10	3.0	5	1.5	8.6	2.6	200,000	91
MB-115	25,353	11,500	5,109	2,317	10	3.0	6.1	1.9	9.5	2.9	200,000	91
MB-135	29,762	13,500	6,017	2,729	10.5	3.2	6.5	2.0	10.0	3.0	300,000	136
MB-160	35,274	16,000	6,333	2,873	11	3.4	6.8	2.1	11.75	3.6	300,000	136
MB-185	40,785	18,500	6,836	3,101	11.1	3.4	7.8	2.4	12.7	3.9	300,000	136
MB-225	49,604	22,500	8,491	3,852	12.0	3.7	8.1	2.5	12.9	3.9	300,000	136
MB-250	55,116	25,000	9,469	4,295	12.5	3.8	8.3	2.5	13.1	4.0	300,000	136
MB-275	60,627	27,500	9,965	4,520	12.6	3.8	8.9	2.7	13.7	4.2	300,000	136
MB-340	74,957	34,000	11,841	5,371	13.83	4.2	9	2.7	13.8	4.2	300,000	136
MB-455	100,310	45,500	14,599	6,622	15	4.6	10	3.0	14.8	4.5	300,000	136



* Actual values for above sizes may vary +/- 15% due to variations in materials and tolerances.

OCEAN GUARD SUPPORT BUOYS

BUOY MODEL	BUOYANCY NET		BUOY WEIGHT		DIAMETER OVERALL		HEIGHT OVERALL		WORKING LOAD	
	LBS	KG	LBS	KG	FT	M	FT	M	LBS	TONS
SB-25	551	250	158	72	2.6	0.8	2.6	0.8	22,000	10
SB-50	1,102	500	285	129	3.2	1.0	3.2	1.0	22,000	10
SB-75	1,653	750	390	177	3.5	1.1	3.5	1.1	22,000	10
SB-100	2,205	1,000	475	215	3.8	1.2	3.8	1.2	40,000	18
SB-125	2,756	1,250	537	244	4.1	1.2	4.1	1.2	40,000	18
SB-150	3,307	1,500	584	265	4.3	1.3	4.3	1.3	40,000	18
SB-175	3,858	1,750	687	312	4.6	1.4	4.6	1.4	40,000	18
SB-200	4,409	2,000	819	371	4.8	1.5	4.8	1.5	40,000	18
SB-250	5,511	2,500	931	422	5.2	1.6	5.2	1.6	40,000	18
SB-300	6,614	3,000	1,200	544	5.5	1.7	5.5	1.7	45,000	20
SB-350	7,716	3,500	1,300	590	5.8	1.8	5.8	1.8	45,000	20
SB-400	8,818	4,000	1,612	731	6.0	1.8	6.0	1.8	45,000	20
SB-450	9,921	4,500	1,712	777	6.2	1.9	6.2	1.9	45,000	20
SB-500	11,023	5,000	1,945	882	6.4	2.0	6.4	2.0	45,000	20
SB-600	13,228	6,000	2,302	1,044	6.8	2.1	6.8	2.1	45,000	20
SB-700	15,432	7,000	2,500	1,134	7.2	2.2	7.2	2.2	45,000	20



* Actual values for above sizes may vary +/- 15% due to variations in materials and tolerances.

OCEAN GUARD UTILITY CYLINDRICAL BUOYS

BUOY MODEL	BUOYANCY NET		BUOY WEIGHT		DIAMETER OVERALL		BUOY HEIGHT		HEIGHT OVERALL		WORKING LOAD	
	LBS	KG	LBS	KG	FT	M	FT	M	FT	M	LBS	TONS
CB-5	110	50	55	25	1.3	0.4	2	0.6	2.8	0.9	5,000	2.3
CB-10	220	100	79	36	1.5	0.5	2.8	0.8	3.6	1.1	5,000	2.3
CB-15	331	150	93	42	1.7	0.5	3.0	0.9	3.8	1.2	5,000	2.3
CB-25	551	250	160	73	2.2	0.7	3.1	0.9	4.0	1.2	7,500	3.4
CB-45	992	450	222	101	2.5	0.8	4.0	1.2	5.1	1.5	10,000	4.5
CB-70	1,543	700	340	154	3.0	0.9	4.2	1.3	5.3	1.6	10,000	4.5
CB-100	2,205	1,000	439	199	3.3	1.0	5	1.5	6.33	1.9	20,000	9.1
CB-115	2,535	1,150	539	244	3.5	1.1	5.0	1.5	6.3	1.9	20,000	9.1
CB-140	3,086	1,400	606	275	3.5	1.1	6.0	1.8	7.3	2.2	20,000	9.1
CB-180	3,968	1,800	704	319	4.0	1.2	5.8	1.8	7.4	2.3	40,000	18.0
CB-230	5,071	2,300	868	394	4.5	1.4	5.9	1.8	7.5	2.3	40,000	18.0
CB-275	6,063	2,750	973	441	4.5	1.4	7.0	2.1	8.6	2.6	40,000	18.0



* Actual values for above sizes may vary +/- 15% due to variations in materials and tolerances.

BUOYS

OCEAN GUARD PENDANT BUOYS



BUOY MODEL	BUOYANCY NET		BUOY WEIGHT		DIAMETER OVERALL		BUOY LENGTH		HEIGHT OVERALL		WORKING LOAD	
	LBS	KG	LBS	KG	FT	M	FT	M	FT	M	LBS	TONS
PB-25	5,511	2,500	1,223	555	4.5	1.4	6.8	2.1	7.3	2.2	150,000	68
PB-50	11,023	5,000	2,123	963	6.0	1.8	7.2	2.2	8.7	2.7	150,000	68
PB-75	16,534	7,500	3,184	1,444	6.5	2.0	9.2	2.8	9.2	2.8	150,000	68
PB-100	22,046	10,000	2,735	1,241	6.5	2.0	11.0	3.4	9.3	2.8	150,000	68
PB-150	33,069	15,000	4,020	1,823	8.0	2.4	11.5	3.5	10.9	3.3	150,000	68
PB-200	44,092	20,000	4,922	2,233	8.5	2.6	13.5	4.1	11.5	3.5	200,000	91
PB-250	55,115	25,000	5,827	2,643	9.0	2.7	15.0	4.6	11.8	3.6	200,000	91
PB-300	66,138	30,000	6,688	3,034	9.5	2.9	16.0	4.9	12.8	3.9	200,000	91
PB-350	77,160	35,000	10,581	4,800	10.3	3.1	16.8	5.1	14.5	4.4	250,000	114
PB-400	88,183	40,000	11,449	5,193	10.5	3.2	18.0	5.5	16.3	5.0	250,000	114

* Actual values for above sizes may vary +/- 15% due to variations in materials and tolerances.

OCEAN GUARD MODULAR ANCHOR PENDANT BUOYS



BUOY MODEL	BUOYANCY NET		NUMBER OF MODULES	DIAMETER OVERALL		THROUGH PIPE DIAMETER	
	LBS	KG		FT	M	IN	MM
MAPB2-4	8,818	4,000	2	6.6	2.0	6.0	152
MAPB4-8	17,637	8,000	4	6.6	2.0	6.0	152
MAPB2-8	17,637	8,000	2	7.5	2.3	6.0	152
MAPB4-16	35,273	16,000	4	7.5	2.3	6.0	152
MAPB2-11	24,250	11,000	2	9.8	3.0	8.0	203
MAPB4-22	48,501	22,000	4	9.8	3.0	8.0	203
MAPB2-17	37,478	17,000	2	10.5	3.2	10.0	254
MAPB4-34	74,956	34,000	4	10.5	3.2	10.0	254
MAPB2-23	50,705	23,000	2	10.5	3.2	10.0	254
MAPB4-46	101,411	46,000	4	10.5	3.2	10.0	254

* Actual values for above sizes may vary +/- 15% due to variations in materials and tolerances.

OCEAN GUARD OCEANOGRAPHIC BUOYS



BUOY MODEL	BUOYANCY NET		FLOTATION WEIGHT		TOTAL WEIGHT		DIAMETER OVERALL		DIAMETER INTERNAL		FLOTATION HEIGHT		TOWER HEIGHT	
	LBS	KG	LBS	KG	LBS	KG	FT	M	FT	M	FT	M	FT	M
OG-10	2,205	1,000	60	27	513	233	5.4	1.6	2.2	0.7	2.3	0.7	5.6	1.7
OG-15	3,307	1,500	72	33	606	275	6.1	1.9	2.3	0.7	2.4	0.7	5.6	1.7
OG-20	4,409	2,000	99	45	752	341	6.5	2.0	2.5	0.8	2.6	0.8	6.1	1.9
ATALAS-3	5,000	2,268	130	59	1,200	544	7.4	2.3	3.2	1.0	3.2	1.0	7.0	2.1

* Actual values for above sizes may vary +/- 15% due to variations in materials and tolerances.

OCEAN GUARD NAVIGATIONAL AND MARKER BUOYS



BUOY MODEL	BUOYANCY NET		BUOY WEIGHT		BUOY DIAMETER		BUOY BODY HEIGHT	
	LBS	KG	LBS	KG	FT	M	FT	M
NAV-100	221	100	194	88	3.0	0.9	2.3	0.7
NAV-200	441	200	399	181	3.8	1.2	3.0	0.9
NAV-500	1,103	500	650	295	4.9	1.5	3.0	0.9
NAV-750	1,654	750	981	445	6.7	2.0	3.3	1.0
NAV-1000	2,205	1,000	1,816	824	8.5	2.6	4.2	1.3
NAV-3000	6,615	3,000	3,112	1,412	10.0	3.0	4.5	1.4
NAV-5000	11.025	5,000	4,462	2,024	10.2	3.1	6.0	1.8
NAV-7500	16,538	7,500	6,703	3,040	11.8	3.6	6.6	2.0
NAV-10000	22,050	10,000	7,845	3,558	13.2	4.0	6.0	1.8

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OCEAN GUARD CHAIN THROUGH BUOYS



BUOY MODEL	NET BUOYANCY		BUOY WEIGHT		BODY DIAMETER		BODY LENGTH		OVERALL LENGTH		THROUGH PIPE DIAMETER	
	LB	KG	LB	KG	FT	M	FT	M	FT	M	IN	MM
CTB-100	2,205	1000	1,170	570	3.6	1.1	5.8	1.7	7.0	2.1	13.0	330
CTB-150	3,307	1,500	1,345	610	4.1	1.3	5.9	1.7	7.1	2.1	13.0	330
CTB-200	4,409	2,000	1,488	675	4.5	1.4	6.2	1.9	7.7	2.4	13.0	330
CTB-225	4,960	2,250	1,842	777	4.9	1.5	6.0	2.0	7.5	2.4	15.0	381
CTB-275	6,063	2,750	2,023	840	5.1	1.6	6.6	2.1	8.0	2.6	15.0	381
CTB-350	7,716	3,500	2,698	1,060	5.1	1.6	8.6	2.9	10.0	3.4	17.0	432
CTB-400	8,818	4,000	2,791	1,159	5.3	1.7	9.0	2.6	10.3	3.1	17.0	432
CTB-450	9,921	4,500	3,076	1,395	5.5	1.8	9.2	2.6	10.5	3.1	19.0	483
CTB-550	12,125	5,500	3,440	1,560	5.8	1.8	9.8	3.2	11.0	3.7	19.0	483

* Actual values for above sizes may vary +/- 15% due to variations in materials and tolerances.

OCEAN GUARD RECTANGULAR ANCHOR PENDANT BUOYS



BUOY MODEL	BUOYANCY NET		BUOY WEIGHT		BUOY DIMENSIONS								WORKING LOAD	
					LENGTH		HEIGHT		WIDTH		OVERALL HEIGHT			
	LBS	KG	LBS	KG	FT	M	FT	M	FT	M	FT	M	LBS.	TONS
RPB-10	2,200	1000	408	185	3.0	0.9	5.0	1.5	3.0	0.9	7.3	2.2	150,000	68
RPB-20	4,400	2000	817	371	3.6	1.1	5.0	1.5	5.0	1.5	7.3	2.2	150,000	68
RPB-40	8,800	4000	1,470	667	4.5	1.4	6.0	1.8	6.0	1.8	9.9	3.0	150,000	68
RPB-60	13,200	6000	3,060	1,388	5.0	1.5	7.0	2.1	8.5	2.6	10.9	3.3	150,000	68
RPB-80	17,600	8000	3,514	1,594	5.4	1.6	7.5	2.3	8.5	2.6	11.4	3.5	150,000	68
RPB-100	22,000	10000	4,312	1,956	6.0	1.8	9.0	2.7	8.1	2.5	12.6	3.8	150,000	68
RPB-120	26,400	12000	4,641	2,105	6.5	2.0	9.5	2.9	8.4	2.6	13.4	4.1	150,000	68
RPB-140	30,800	14000	5,835	2,647	6.5	2.0	10.5	3.2	9.0	2.7	14.8	4.5	200,000	91
RPB-160	35,200	16000	6,442	2,922	6.5	2.0	10.5	3.2	10.5	3.2	14.6	4.5	200,000	91
RPB-180	39,600	18000	7,195	3,264	6.5	2.0	11.5	3.5	11.0	3.4	15.6	4.8	200,000	91
RPB-200	44,000	20000	7,533	3,417	8.0	2.4	11.0	3.4	10.7	3.3	14.8	4.5	200,000	91
RPB-250	55,000	25000	8,427	3,822	8.5	2.6	12.6	3.8	10.8	3.3	16.5	5.0	200,000	91
RPB-300	66,000	30000	9,918	4,499	8.5	2.6	14.4	4.4	11.1	3.4	18.2	5.5	200,000	91

* Actual values for above sizes may vary +/- 15% due to variations in materials and tolerances.

OCEAN GUARD UNIVERSAL BUOYS



BUOY MODEL	NET BUOYANCY (MIN)		BUOY WEIGHT		BODY DIAMETER		BODY HEIGHT		OVERALL HEIGHT	
	LBS	KG	LBS	KG	FT	M	FT	M	FT	M
UB-1500	1,500	680	710	322	4.2	1.3	2.5	0.8	4.3	1.3
UB-2000	2,000	907	801	363	4.2	1.3	3.3	1.0	5.5	1.7
UB-2500	2,500	1,134	689	313	5.0	1.5	2.9	0.9	5.0	1.5
UB-3000	3,000	1,361	929	421	5.0	1.5	3.3	1.0	5.5	1.7
UB-4000	4,000	1,814	1,488	675	6.0	1.8	3.3	1.0	5.5	1.7
UB-5000	5,000	2,268	1,570	712	6.0	1.8	3.8	1.1	6.0	1.8

* Actual values for above sizes may vary +/- 15% due to variations in materials and tolerances.

UNIVERSAL BUOY END FITTINGS



Bail Eye



Pad Eye



Pick-Up Tee



Swivel Eye

BUOYS

BUOY REQUIREMENTS

PROJECT DETAILS						PROJECT STATUS
PROJECT NAME						MFI REF
LOCATION						☐ PRELIMINARY
CONSULTANT						☐ DETAIL DESIGN
CONTRACTOR						☐ TENDER
NAME	POSITION		TELEPHONE			E-MAIL
OPERATIONAL DETAILS						
VESSEL TYPE			VESSEL SIZE			
LOCATION	EXPOSED	SHELTERED	DURATION	TEMPORARY	PERMANENT	
WATER DEPTH						
TIDAL LEVEL (H.W.L.)						
TIDAL LEVEL (L.W.L.)						
BOTTOM MATERIAL	MUD		SAND		ROCK	
OPERATING TEMPERATURE	MAX ☐ F ☐ C		MIN ☐ F ☐ C			
BUOY DETAILS						
NET BUOYANCY	MIN	MAX	FREEBOARD	MIN	MAX	
PULL-THROUGH CAPACITY			WORKING LOAD			

BUOY END FITTINGS	TOP	BOTTOM
FORGED SWIVEL EYE		
FABRICATED SWIVEL EYE		
PADEYE		
QUICK RELEASE HOOK		
BAIL EYE		
CRUCIFIX		
HAWSE PIPE		
HAWSE PIPE (WITH CAPTURE PLATE)		
LIGHTS (TYPE)		

☐ MOORING BUOY



☐ MOORING BUOY-PEG BOTTOM



☐ PENDANT BUOY



☐ RECTANGULAR ANCHOR PENDANT BUOY



☐ MODULAR ANCHOR PENDANT BUOY



☐ SUPPORT BUOY



☐ CYLINDRICAL BUOY



☐ CHAIN THROUGH BUOY



☐ RECTANGULAR CHAIN THROUGH BUOY



☐ NAVIGATIONAL BUOY



☐ MARKER BUOY



☐ OTHER

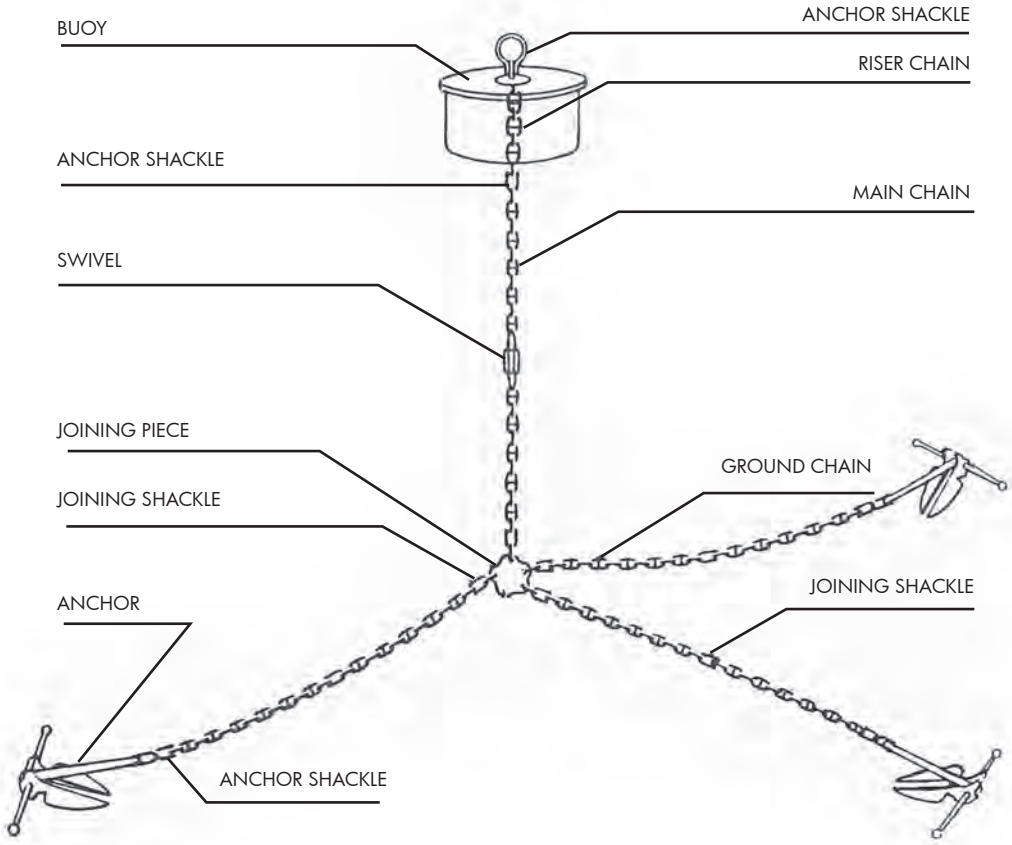
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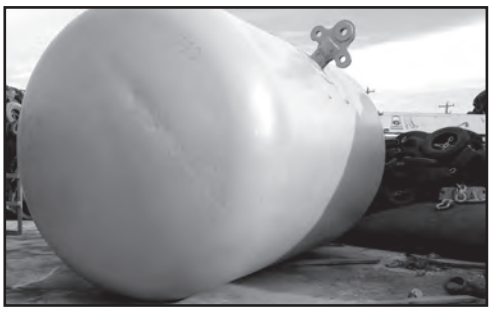
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MOORING SYSTEMS AND BUOYS

Shown on the right is a typical mooring system. However, individual components may be added, deleted or rearranged to accomodate your special requirements. Application assistance is avaialable upon request.







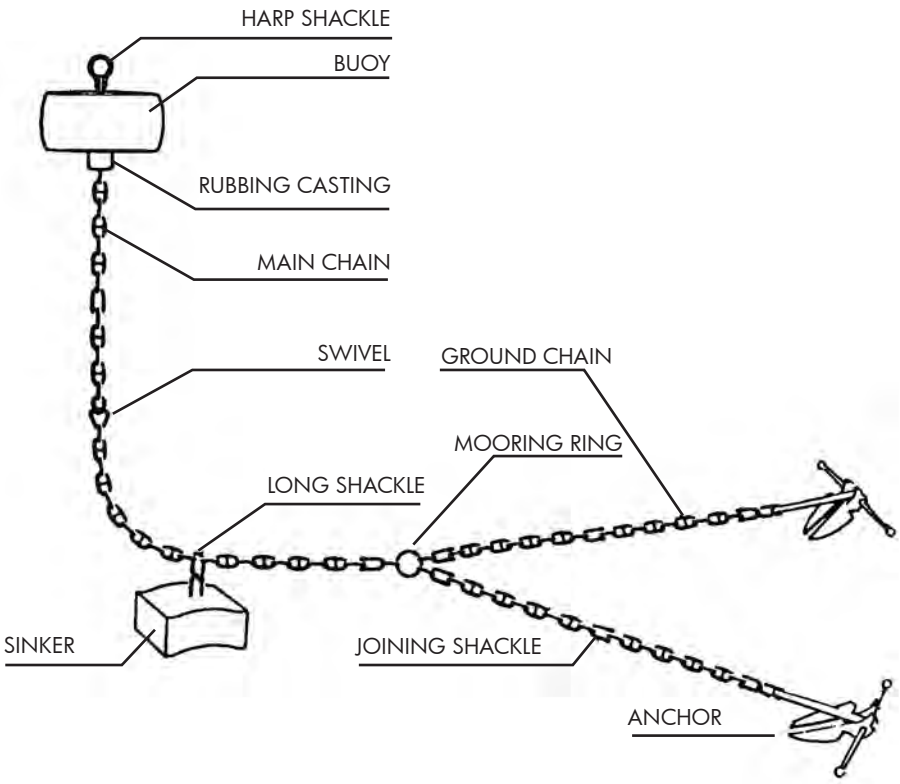




BUOYS

MOORING SYSTEMS AND FITTINGS

Shown on the right is a another typical mooring system. Again, individual components may be added, deleted or rearranged to accommodate your special requirements. Application assistance is available upon request.



MOORING SYSTEM COMPONENTS



ANCHORS



ANCHOR CHAIN



CONNECTING LINK



ANCHOR CONNECTING LINK



CHAIN SWIVELS



BOLT PIN ANCHOR SHACKLE



BOLT PIN CHAIN SHACKLE



WIRE ROPE



FLOUNDER PLATE

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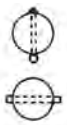
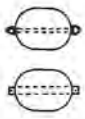
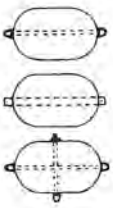
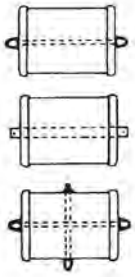
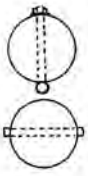
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FLOATS - UTILITY AND BARRIER

- Foam filled and ultraviolet inhibited. -- COLORS: Orange or White
- Yellow available on special order.
- Sturdy ABS hull. Models 1830 are one piece high density polyethylene.
- Reflective bands available.

Barrier Floats are attached in series to restrict boating traffic or swimmers from specific danger areas such as around dams and spillways or anywhere that hazardous conditions exist.

UTILITY FLOATS	FOR SWIM AREAS AND GENERAL	DIA. AND LENGTH	DESCRIPTION - STANDARD COLORS ARE INTENTIONAL ORANGE AND WHITE - PLAIN SOLID COLOR (SPECIFY WHEN ORDERING)	SUB BUOYANCY	NET WT.
B1130-AW B1130-AO B1130-BW B1130-BO		12″ Sphere	A - 3/8″ Dia. galvanized steel rod thru float with steel reinforcing washers on both ends. Large 3″ dia. attachment hoop. B - 1/2″ Sch. 40 PVC pipe thru float. Anchored in foam to prevent movement.	30 lbs.	3 lbs.
BARRIER FLOATS	Combine with buoys in barrier systems				
B1218-AW B1218-AD B1218-BW B1218-BO		12″ Dia. 18″ Length	A - 1/2″ Dia. galvanized steel rod thru float. Galvanized eye nut swivels on both ends. B - 1/2″ Sch. 40 PVC pipe thru float. Anchored in foam to prevent movement.	55 lbs.	8 lbs.
B1830-AW B1830-AO B1830-BW B1830-BO B1830-CW B1830-CO		18″ Dia. 30″ Length	A - 5/8″ Dia. steel rod thru float. Galvanized swivel eye nuts on both ends. B - 1″ Sch. 40 galvanized steel pipe thru float. Anchored in foam to prevent movement. C - 5/8″ Dia. steel rods thru float and also across dia. in center. Eye nut swivels on both ends of float and lower center rod. Extended rod at center-top for pick up eye.	200 lbs.	19 lbs. 19 lbs. 23 lbs.
B2436-AW B2436-AO B2436-BW B2436-BO B2436-CW B2436-CO		24″ Dia. 36″ Length	A - 3/4″ Dia. steel rod thru float. Galvanized eye nuts swivels on both ends. B - 1″ Sch. 40 galvanized steel pipe thru float. Anchored in foam to prevent movement. C - 3/4″ Dia. steel rods thru float and also across dia. at center. Eye nut swivels on both ends of float and lower center rod. Extender rod at center-top for pick up eye.	400 lbs.	46 lbs. 46 lbs. 53 lbs.
B2400-AW B2400-AO B2400-BW B2400-BO		24″ Dia.	A - 1/2″ Dia. galvanized steel rod thru float. with steel reinforcing washers both ends. Large 3″ dia. hoop. Completely foam filled. B - 1″ dia. galvanized steel pipe thru float. Anchored in foam to prevent movement.	240 lbs.	23 lbs.
B509-RW B509-BW B139-3 B139-2	ROPE FLOATS   FLOAT CLIP ROPE	2-1/2″ Dia. 5″ Length 3/8″ 3/8″ Dia.	Plastic floats with 7/16″ Dia. hole thru. Choice of red and white or blue and white. Use with rope floats. White polypropylene rope (use with rope floats). 600 Ft Reel		12 lbs. .01 lbs. 16 lbs.

NOTE: Last letter of Model number indicated color (W-White, O-Orange)

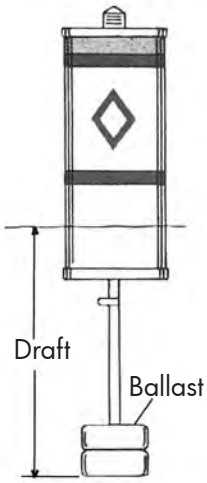
LARGE LIGHT-READY BUOYS AND CHANNEL MARKERS

FEATURES

- Easy reconditioning of weather-worn buoys with excellent adhesion of restoration materials.
- Excellent stability and visibility
- Tough ABS exteriors
- Completely urethane foam filled
- Ultraviolet inhibited
- Photo electric cell operated

Model B2460L* B2460LG	Model B1428NSWL		Model B2460L* B2460LG	Model B2460L* B2460LG
24″	14″	Can diameter	14″	14″
60″	30″	Can height	30″	30″
-	28″	Float collar diameter	28″	28″
116″	54″	Overall height	96″	54″
48″	42″	Exp. w/light & batgteries	37″	42″
59″	10″	Draft	51″	7″
780 lbs.	310 lbs.	Submerged buoyancy	310 lbs.	280 lbs.
240 lbs.	117 lbs.	Net Weight	135 lbs.	115 lbs.
330 lbs.	135 lbs.	Shippine weight	145 lbs.	135 lbs.

Lights not included. Order separately.
*Standard bands, symbols and messages included.



Model B2460L



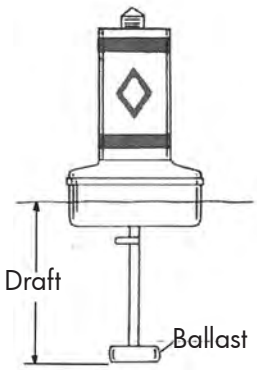
Model B2460LG



Model B1428NSWL
Solid red nun buoy

OPTIONS

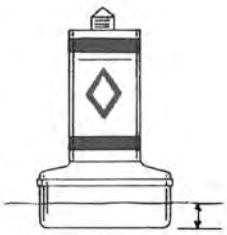
- Internal radar reflectors
- Non-standard messages
- Agency and name identification
- Hi-intenisty bands and symbols
- Black and white or red and white centerline markers



Model B1428L



Model B1428LG



Model B1428SWL

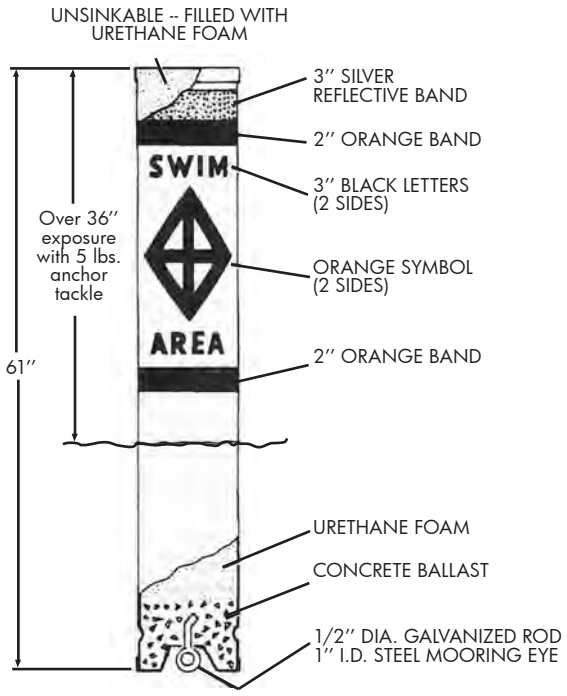


Model B1428SWLG

Internal ballast types are ideal for still, shallow and deep water.

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REGULATORY BUOYS • ABS TYPE - 9" DIA.



Approved and universally used by local, state and federal agencies to ensure water safety. Ideal for private applications.

MODEL B1147R

Includes choice of standard symbols and messages

FEATURES

- Easy reconditioning of weather-worn buoys with excellent adhesion of restoration materials.
- 9" diameter, white seamless, tough ABS plastic exterior.
- Will not rust, chip or peel. Ultraviolet inhibited.
- Completely urethane foam filled. Virtually unsinkable.
- 3" wide reflective band at top provides excellent night time visibility.
- Self-righting without tackle.
- Recessed cap allows buoy to stand upright.
- Heavy steel galvanized anchoring eye cast in an internal concrete ballast.
- Symbols and messages impregnated into buoy surface.

AVAILABLE OPTIONS

- Internal radar reflectors
- Pickup eye built into top
- Stainless steel anchoring eye for salt water applicators
- Agency or name identification
- Cone cap top
- Special non-standard messages
- 1/2" Pvc pipe thru for float line applications
- Lighted buoys

MODEL B1147R

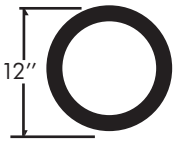
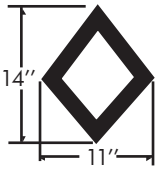
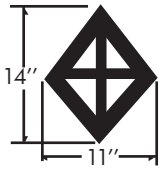
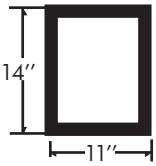
Specify desired symbols and messages when ordering.

Submerged buoyancy.....84 lbs.
Net weight.....49 lbs.
Shipping weight.....56 lbs.

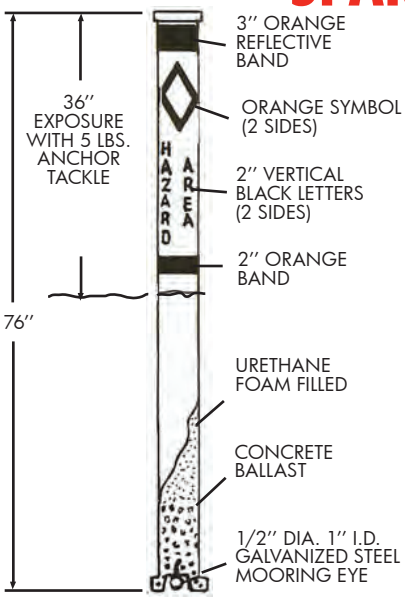
STANDARD INLAND WATERWAY SYMBOLS AND MESSAGES

SPECIAL MESSAGES ARE AVAILABLE.

REQUEST A QUOTATION

CONTROLLED AREA SYMBOL	HAZARD WARNING SYMBOL	RESTRICTED AREA SYMBOL	INFORMATION SYMBOL
			
2" BAND WIDTH	2" BAND WIDTH	2" BAND WIDTH	2" BAND WIDTH
STANDARD MESSAGES SLOW 5 MPH SLOW NO WAKE SKI AREA NO SKI SLOW 10 MPH SPEED ZONE NO WAKE IDLE SPEED	STANDARD MESSAGES ROCK DANGER RAPIDS SHOAL STUMP SHALLOW AREA HAZARD AREA DANGER DAM	STANDARD MESSAGES SWIM AREA KEEP OUT NO BOATS BOATS KEEP OUT CLOSED AREA NO BOATING DANGER DAM	STANDARD MESSAGES REST ROOM 1 MILE STATE PARK AHEAD MARINA ENTRANCE FISH ATTRACTOR

SPAR BUOY • ABS TYPE - 5" DIA.



LIGHTWEIGHT, EASY TO HANDLE - MINIMUM ANCHOR WEIGHT ALLOWS EASY REMOVAL.

FEATURES

- Easy reconditioning of weather-worn buoys with excellent adhesion of restoration materials.
- 5" diameter, white, seamless, tough ABS plastic exterior. Ultraviolet inhibited, will not rust, chip or peel.
- Urethane foam filled. Virtually unsinkable.
- 3" wide reflective band at top provides excellent night visibility.
- Self-righting without tackle.
- Recessed cap allows buoy to stand upright.
- Heavy steel galvenized anchoring eye cast in an internal concrete ballast.
- In waterway making symbols with standard messages.

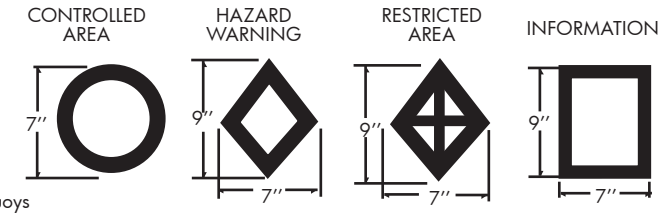
AVAILABLE OPTIONS:

- Internal radar reflectors
- Stainless steel anchoring eye for salt water applicators
- Special non-standard messages
- Agency or name identification

MODEL B576S
Standard symbols and messages included in price. Specify desired symbols and messages when ordering.

Submerged buoyancy.....30 lbs.
Net weight.....24 lbs.
Shipping weight.....28 lbs.

STANDARD SYMBOLS*

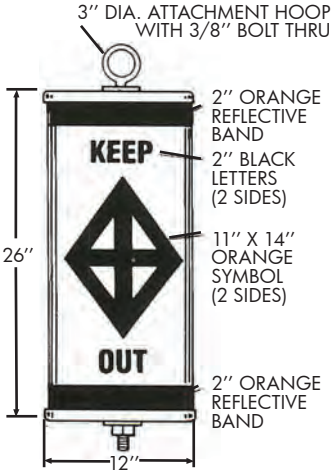


*Sized for 5" Spar Buoys

CAN BUOY • ABS TYPE -- 12" DIA.

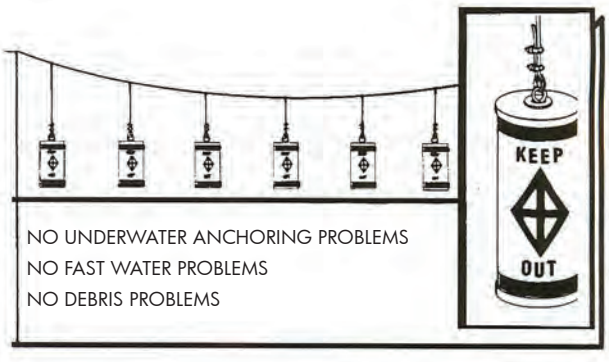
HANGING CAN BUOY SYSTEM

- Easy to recondition when necessary.
- Excellent adhesion of reconditioning materials.
- Excellent visibility.
- 12" diameter white ABS plastic exterior will not rust, chip or peel.
- Ultraviolet inhibited.
- Completely urethane foam filled.
- 2" orange reflective band at top and bottom provides excellent night time visibility.
- 3/8" glavanized attachment eyebolt.
- Choice of inland waterway marking symbols and standard messages. (2 sets).
- Special non-standard messages avaialble.
- Cable and attaching hardware available.



MODEL B1226
Net weight..... 12 lbs.
Shipping weight..... 18 lbs.

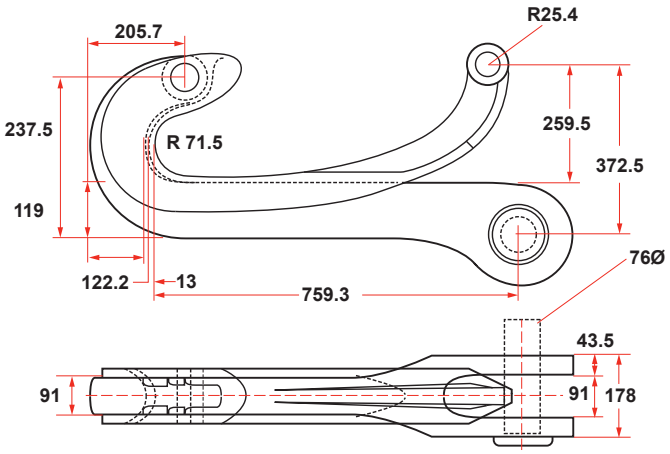
BUOYS ARE SUSPENDED FROM ABOVE
Excellent for short spans, swift water and areas with minimum public use.



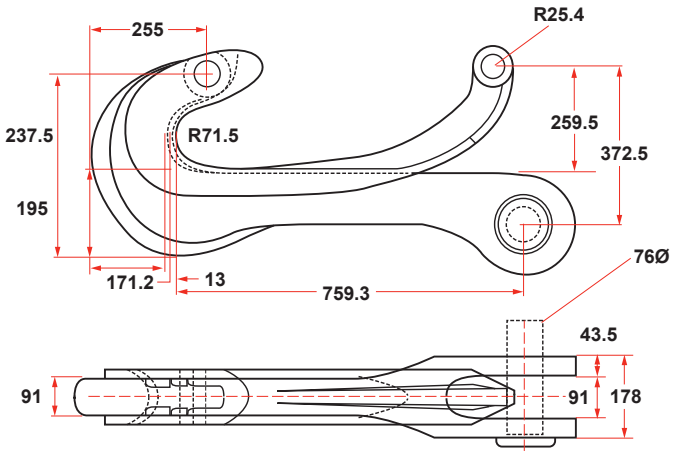
NOTE: The design and selection of a mooring system should be by a qualified professional engineer who is familiar with the specific application and local conditions. The illustrations shown are provided for informational purposes and are not intended to be suggested designs. Anchor assumes no responsibility for any mooring system based upon these illustrations.

QUICK RELEASE BUOY HOOK

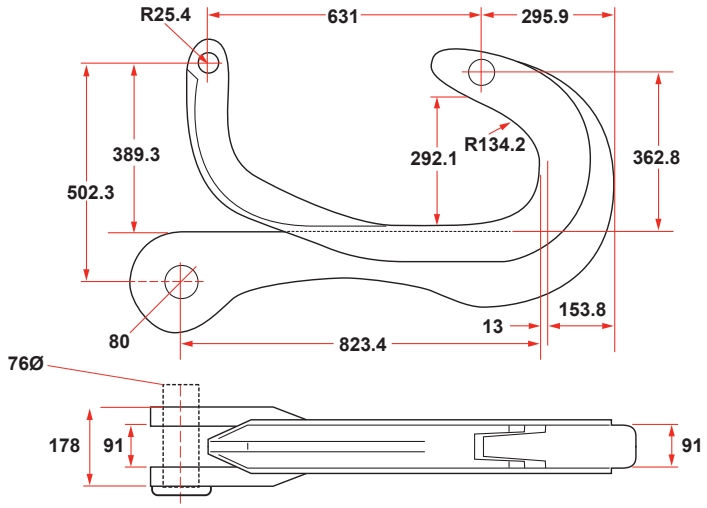
WITH ABS CERTIFICATION



300,000 LBS PROOF LOAD
WEIGHT: 357 LBS



400,000 LBS PROOF LOAD
WEIGHT: 410 LBS



400,000 LBS PROOF LOAD WIDEMOUTH
WEIGHT: 502 LBS

BUOYS





A-SERIES

THROUGHOUT THE WORLD, MORE PEOPLE RELY ON OUR A SERIES THAN ALL OTHER BUOYS.

The A Series is the product that launched the Polyform story. This all-purpose product, with the signature "blue ropehold," has proven itself in the most adverse conditions. We've made a couple of changes to the legendary A-Series for 2001. There's a new size – the A-7, with more buoyancy than any other buoy in its class, and a redesigned ropehold. The new ropehold has been incorporated into the A-5, A-6, and A-7 and features stronger ribs, a larger eye that accepts a standard shackle, and a new "dual valve" inflation-deflation system. Marking gear in heavy seas is no easy task. That's why more fishermen use Polyform A Series than all other buoys combined. We've seen and heard the testimonials from our customers. You name the ocean, sea, or river, and the A Series has been there. Put your trust in Polyform's most versatile and well-known product.

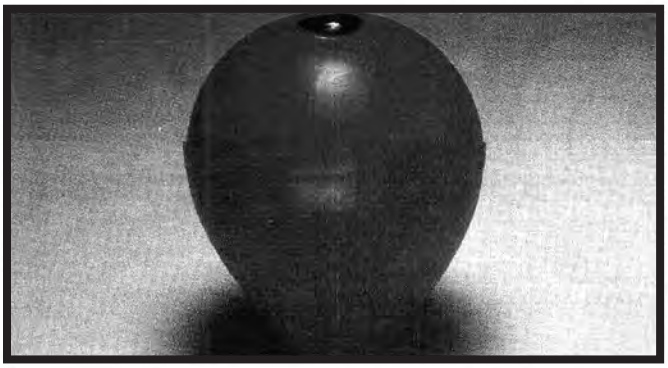
Model	Size (In) (Dia x Length)	Eye Diameter	Volume	Pieces Per Carton
A-0	8 x 11.5 in 20.3 x 29.2 cm	0.6 in 1.6 cm	1.6 gal 5.9 liter	20
A-1	11 x 15 in 27.9 x 38.1 cm	1.0 in 2.5 cm	3.5 gal 13.2 liter	10
A-2	14.5 x 19.5 in 36.8 x 49.5 cm	1.0 in 2.5 cm	8.2 gal 30.8 liter	10
A-3	17 x 23 in 43.2 x 58.4 cm	1.0 in 2.5 cm	14.5 gal 54.9 gal	10
A-4	20.5 x 27 in 52.1 x 68.6 cm	1.0 in 2.5 cm	22.5 gal 84.8 liter	10
A-5	27 x 36 in 68.6 x 91.4 cm	1.25 in 3.0 cm	47.6 gal 179.6 liter	5
A-6	34 x 44 in 86.4 x 111.8 cm	1.5 in 3.8 cm	95.1 gal 359.2 liter	3
A-7	39 x 54 in 99.1 x 137.2 cm	2 in 50.8 mm	161.6 gal 610.1 liter	2

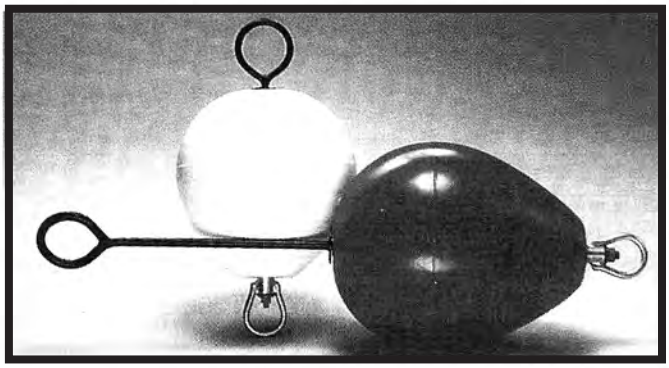
F-SERIES

CLASSIC EUROPEAN TWIN-EYE STYLE FENDERS DESIGNED FOR THE MOST DEMANDING USE.

Polyform has been producing this fender for over 40 years and there is no comparison when it comes to quality, range of sizes and protection offered. The F Series fender has offered protection to the finest yachts and fishing vessels all over the world. Why? Because the owners and the captains of these prestigious boats know that they can rely on Polyform's F Series to offer the size, strength and dependability to protect their vessel from the rigors of the sea and weather. If you want the ultimate in protection for your boat, Polyform F Series is the only choice!

Model	Size (In) (Dia x Length)	Eye Diameter	Pieces Per Carton
F-1	6 x 24 in 15.2 x 61 cm	0.7 in 1.9 cm	10
F-02	7.5 x 26 in 19.1 x 66 cm	0.7 in 1.9 cm	10
F-2	8.2 x 25 in 20.8 x 63.5 cm	0.9 in 2.3 cm	10
F-3	8.2 x 30 in 20.8 x 76.2 cm	0.9 in 2.3 cm	10
F-4	8.5 x 40.5 in 21.6 x 102.9 cm	0.9 in 2.3 cm	5
F-5	11 x 30 in 27.9 x 76.2 cm	1.0 in 2.4 cm	5
F-6	11 x 42 in 27.9 x 106.7 cm	1.0 in 2.4 cm	5
F-7	15 x 41 in 38.1 x 104.1 cm	1.0 in 2.4 cm	5
F-8	15 x 58 in 38.1 x 147.3 cm	1.0 in 2.4 cm	4
F-10	18 X 50 in 45.7 x 127 cm	1.0 in 2.4 cm	2
F-11	21.2 x 57.5 in 53.8 x 146.6 cm	1.1 in 2,7 cm	3
F-13	29 x 76.5 in 75.7 x 194.3 cm	1.2 in 3.0 cm	2





BB-SERIES

BB-Buoys have a flexible central tube. Available in 6 sizes, all moulded from tough, flexible vinyl. Applications from commercial fishing and aquaculture to geophysical survey.

Standard Color: red.

Art.No.	∅		⌀		
	In.	In.	In.	Lbs.	Lbs.
BB 30	9	13	1-1/2	17.6	2.6
BB 40	13	16	1-1/2	39.7	3.5
BB 50	16	20	2	79.3	5.5
BB 60	19	22	2	136.6	7.3
BB 75	24	25	2	271.1	11.9
BB 100	32	33	2	588.5	19.6

MR/MG-SERIES

Mooring buoys are moulded from tough, flexible vinyl. The buoys are supplied with either short rod (MR) or long rod (MG), and all rods are hot dipped galvanized.

Standard colors: red, white and blue. (Special colors on request.)

Art.No.	∅		⌀		
	In.	In.	In.	Lbs.	Lbs.
MR 30	9	11	11/16	16.5	4.4
MR 40	13	13	11/16	38.6	6.0
MR 50	16	18	13/16	74.9	9.9
MR 60	19	20	15/16	134.4	12.1
MR 75	24	24	15/16	264.5	19.0
MR 100	32	32	15/16	579.7	28.7
MG 40	13	13	11/16	38.6	6.4
MG 50	16	18	13/16	74.9	11.5
MG 60	19	20	15/16	134.4	16.1
MG 75	24	24	15/16	264.5	22.3
MG 100	32	32	15/16	579.7	32.2

BUOYS

NOTES

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Anchor MARINE & INDUSTRIAL SUPPLY, INC.

SPILL BOOM

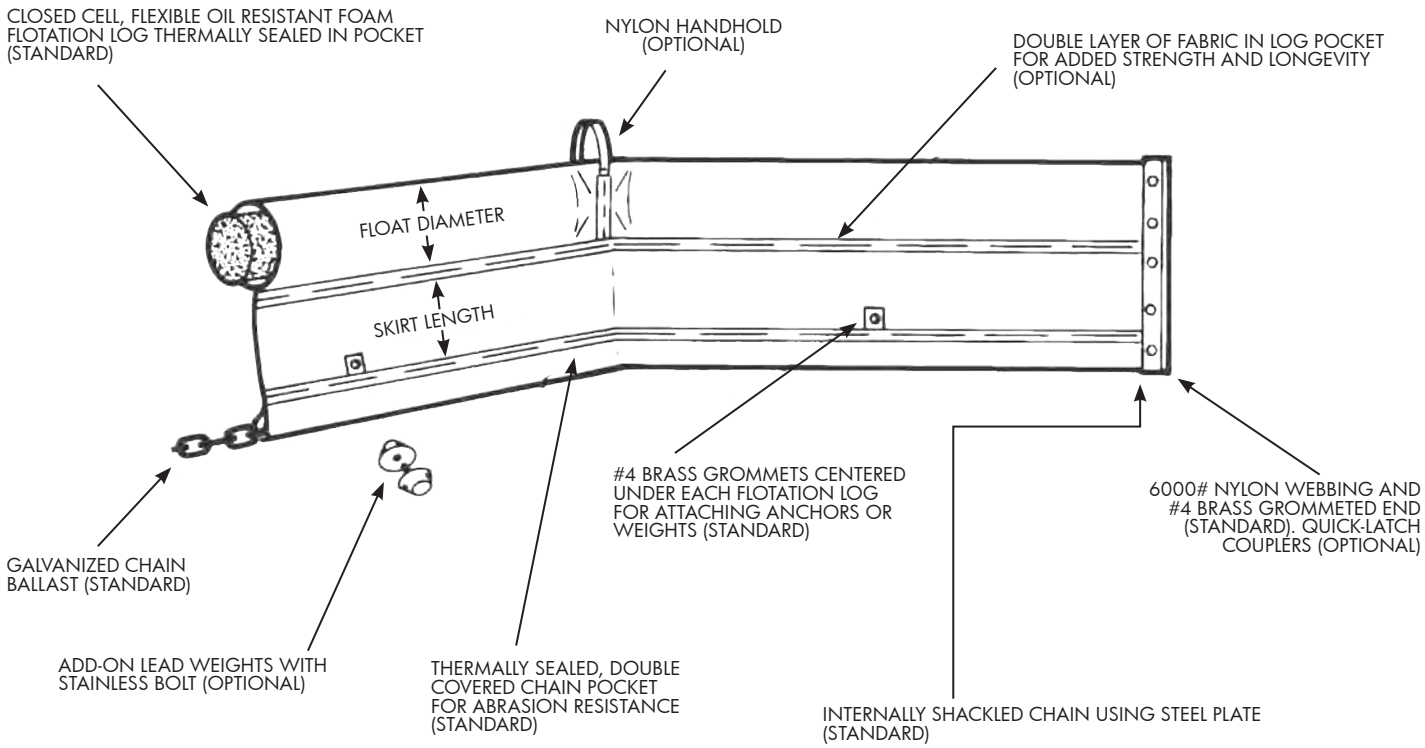




BOOM SPECIFICATIONS

	STANDARD STYLE			HEAVY-DUTY STYLE	
	DIMENSIONS (INCHES)			DIMENSIONS (INCHES)	
	4" X 6"	6" X 12"	12" X 24" (HB)	6" X 12" (TC)	12" X 24" (TC) (HB)
FREEBOARD	4	6	12	7	13
DRAFT	6	12	24	12	24
FLOTATION LOG DIAMETER	4	6	12	6	12
BUOYANCY POUNDS PER FOOT	5.2	11.8	47.3	11.8	47.3
FABRIC					
BALLAST (GALVANIZED CHAIN)	1/4	1/4	3/8	1/4	3.8
TOP TENSION (GALVANIZED CABLE)	N	N	N	5/16	5/16
FABRIC STRENGTH	9,000#	13,000#	25,000#	13,000#	25,000#
BOTTOM TENSION STRENGTH	4,700#	4,700#	9,800#	4,700#	9,800#
TOP TENSION STRENGTH	N	N	N	9,800#	9,800#
WEIGHT PER FOOT	1.54#	1.96#	3.76#	2.16#	3.95#
STORAGE PER 100 FOOT (CU.FT.)	14	32	102	34	106

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OPTIONAL FEATURES.

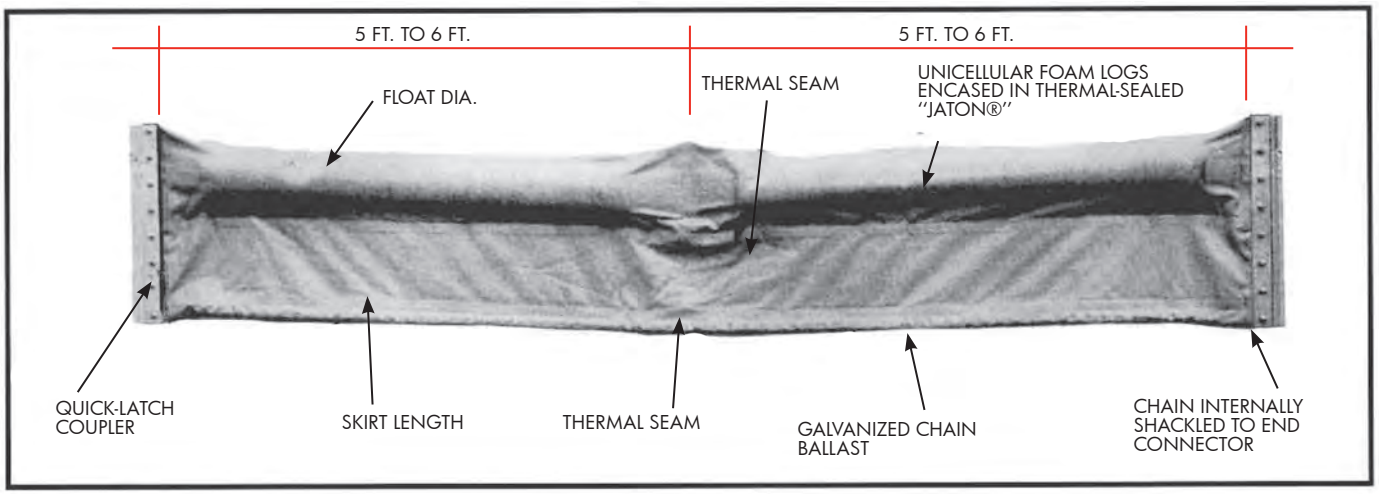
- Jaton or Jaton Plus Fabric.
- Extra grommets.
- Stainless steel grommets instead of brass.
- Lead bar ballast instead of chain.
- Double layer of fabric in log pocket.
- Short flotation logs for reel storage.
- Section lengths 6′ to 300′.

OPTIONAL ACCESSORIES.

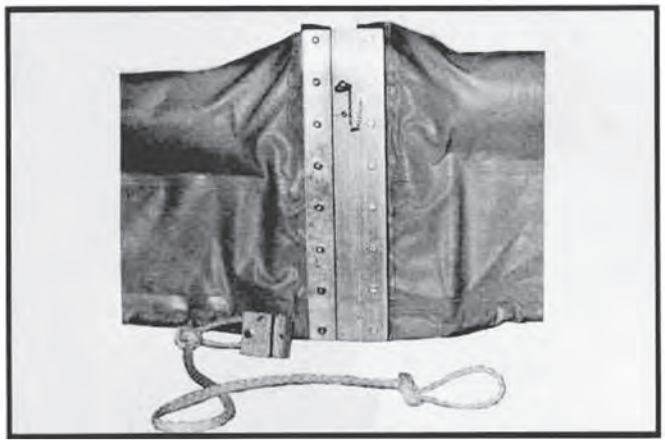
- Quick-latch couplers.
- Flex couplers.
- Tow/tie-off bridles.
- Bulkhead connectors.
- Add-on lead ballast weights (3-1/4#).
- Hand loops.
- Quick-latch repair coupler.
- Fabric repair kit.
- Anchor systems.

VARIOUS COMBINATIONS OF FLOTATION DIAMETERS, SKIRT LENGTHS, SIZES OF CHAIN BALLAST, AND SIZES OF TOP TENSION CABLE ARE AVAILABLE UPON REQUEST.
ALL BOOMS CAN BE MANUFACTURED IN ANY LENGTHS TO FIT SPECIFIC REQUIREMENTS.

STANDARD BOOM



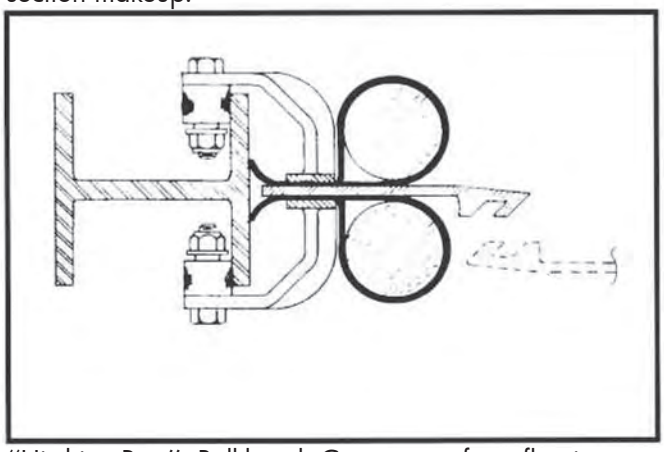
ACCESSORIES AVAILABLE



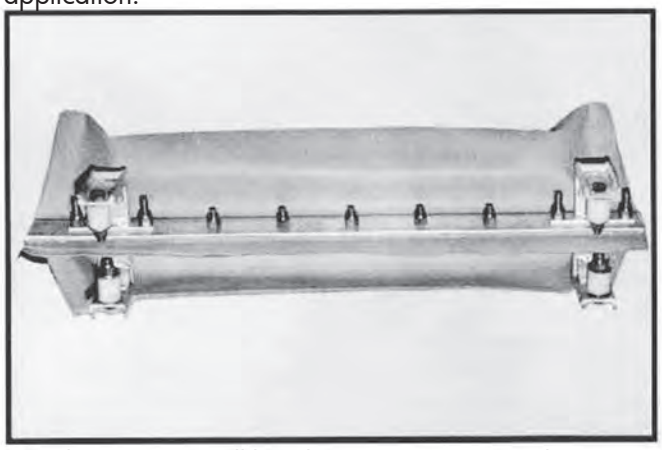
"Quick-Latch" Coupling and Tow Bridle for fast boom section makeup.



"Flexible" Coupling. For economical semipermanent application.



"Hitching-Post" Bulkhead Connector, free floating to allow boom to rise and fall with water level.



"Hitching-Post" Bulkhead Connector, as shown in engineering drawing at the left (Note lock design.)

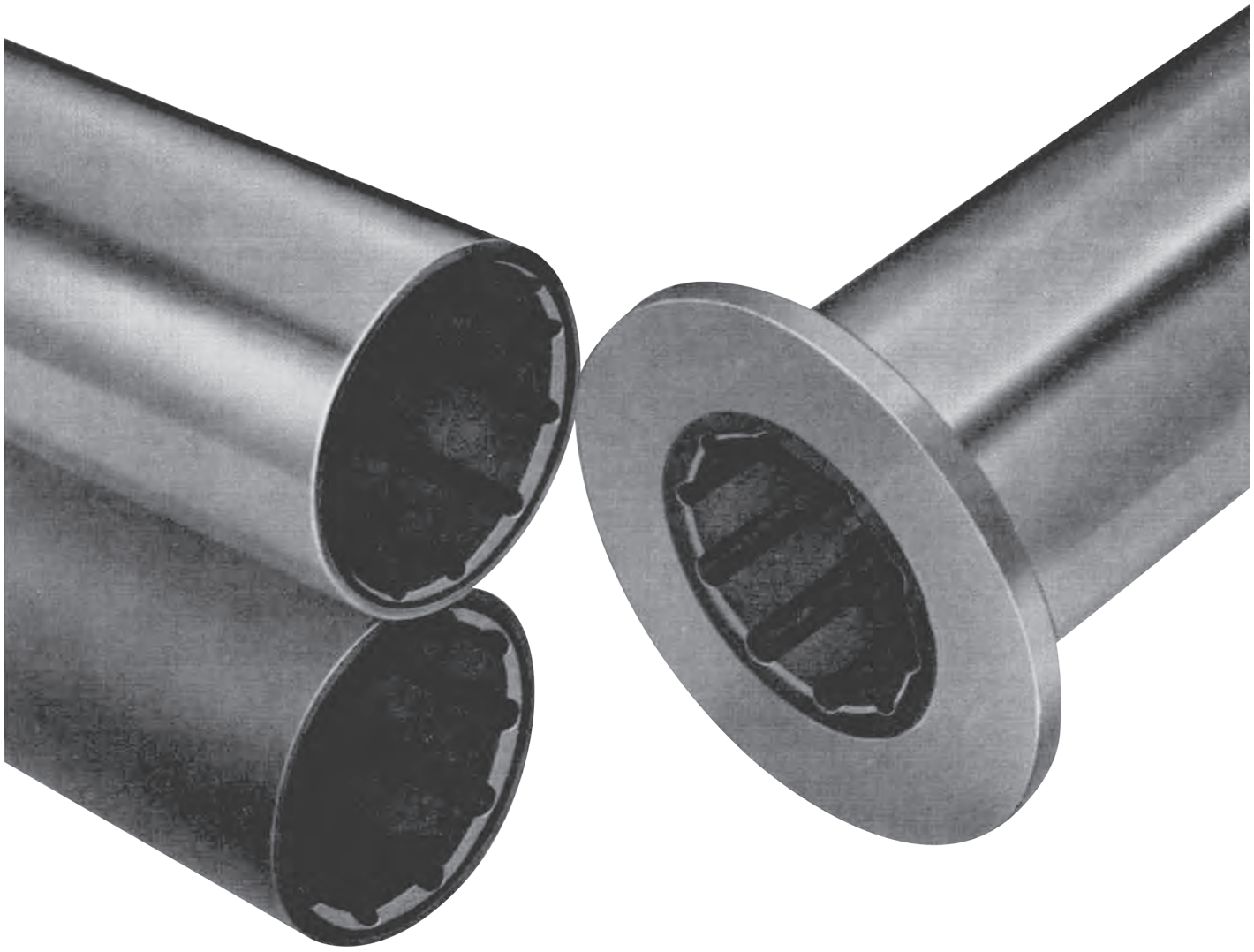
22-OZ. JATON® FABRIC IS STANDARD

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Anchor MARINE & INDUSTRIAL SUPPLY, INC.

CUTLASS BEARINGS & SLEEVES



WATER LUBRICATED STANDARD RUBBER SLEEVE BEARINGS FULL MOLDED TYPE

NAVAL BRASS

DURAMAX rubber-lined Naval Brass Sleeve Bearings adapt equally well to strut and stern-tube mounts, and are often used effectively as rudder-stock and pintle bushings. Bearing diameters are precision fitted to the designed shaft size with the correct clearance for efficient water lubrication. External brass shells are machined and polished to provide easy fitting. Specially formulated oil and chemical resistant nitrite rubber is securely bonded to the shell. Units with thin shells are available for the struts of small craft. Sleeve Bearings are usually installed by light press-fitting and locked in place with cone-pointed set screws.

APPROVED BEARINGS: Johnson-Duramax Naval Brass Flanged Bearings meet military specification MIL-B-17901A (Ships) Class II Full-Molded type.

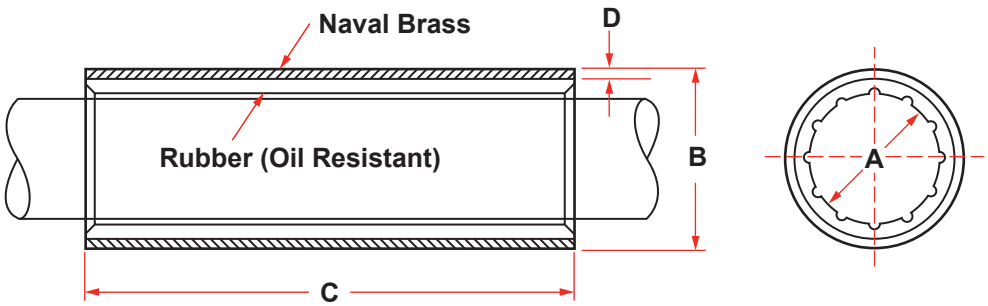
PRECAUTION: When shrink fitting of the bearing is required, chilling must be achieved by gradual cooling to not more than minus 20° F (-28° C) using a freezer or regular ice (not Dry Ice).

NOTE: Pounding or shocking the bearing while in the chilled state could cause the rubber to separate from the shell.

	DIMENSIONS (INCHES)				
JOHNSON CODE	A SHAFT OR SLEEVE SIZE	B OUTSIDE DIAMETER	C LENGTH	D METAL WALL	SHIPPING WEIGHT (LBS.)
ABLE	3/4	1-1/4	3	1/8	1
**ACID	7/8	1-1/4	3-1/2	3/64	1
APEX	7/8	1-3/8	3-1/2	1/8	1
ATOM	7/8	1-1/2	3-1/2	1/8	1
**BACK	1	1-1/4	4	3/64	1
**BAIT	1	1-3/8	4	3/64	1
BALE	1	1-1/2	4	1/8	1
*BAND	1	1-5/8	4	1/8	1
BASE	1	2	4	1/8	2
**BEAM	1-1/8	1-1/2	4-1/2	3/64	1
BELT	1-1/8	1-5/8	4-1/2	1/8	1
*BEND	1-1/8	1-3/4	4-1/2	1/8	2
BILL	1-1/8	2	4-1/2	1/8	2
**BIND	1-1/4	1-1/2	5	3/64	1
BIRD	1-1/4	1-3/4	5	1/8	2
*BITE	1-1/4	2	5	1/8	2
BLOW	1-1/4	2-1/8	5	1/8	2
BOAT	1-3/8	1-7/8	5-1/2	1/8	2
BOLD	1-3/8	2	5-1/2	1/8	2
*BOND	1-3/8	2-1/8	5-1/2	1/8	2
BOOT	1-3/8	2-3/8	5-1/2	1/8	2
BOSS	1-1/2	2	6	1/8	2
*BRAD	1-1/2	2-3/8	6	1/8	3
BREW	1-5/8	2-1/8	6-1/2	1/8	2
BRIM	1-5/8	2-5/8	6-1/2	1/8	3
BROW	1-3/4	2-3/8	7	1/8	3
*BUCK	1-3/4	2-5/8	7	1/8	3
BULB	1-7/8	2-5/8	7-1/2	1/8	3
BULL	1-7/8	2-15/16	7-1/2	1/8	4
CALL	2	2-5/8	8	1/8	3
*CALM	2	3	8	1/8	4
CAME	2-1/8	2-15/16	8-1/2	1/8	3
CAPE	2-1/8	3-1/8	8-1/2	1/8	5

* Standard Sleeve for Stern Casting ** Slimline Bearing

WWW.ANCHORMARINEHOUSTON.COM
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Anchor MARINE & INDUSTRIAL SUPPLY, INC.



DIMENSIONS (INCHES)					
JOHNSON CODE	A SHAFT OR SLEEVE SIZE	B OUTSIDE DIAMETER	C LENGTH	D METAL WALL	SHIPPING WEIGHT (LBS.)
CARE	2-1/4	2-15/16	9	1/8	4
*CART	2-1/4	3-1/8	9	1/8	5
CASE	2-1/4	3-3/8	9	1/8	6
COOK	2-3/8	3-3/8	9-1/2	1/8	6
CORD	2-1/2	3-1/8	10	1/8	5
*CORN	2-1/2	3-3/8	10	1/8	6
CRAB	2-5/8	3-3/8	10-1/2	1/8	6
CROW	2-3/4	3-3/8	11	1/8	6
*CURD	2-3/4	3-3/4	11	1/8	7
CURE	2-7/8	3-3/4	11-1/2	1/8	8
DANE	3	3-3/4	12	1/8	7
*DARE	3	4	12	1/8	8
DARK	3-1/8	4-1/4	12-1/2	1/8	10
DARN	3-1/4	4	13	1/8	8
DELL	3-1/4	4-1/4	13	1/8	10
DIKE	3-3/8	4-1/2	13-1/2	1/8	11
DINE	3-1/2	4-1/4	14	1/8	10
*DOCK	3-1/2	4-1/2	14	1/8	11
DOLE	3-5/8	4-1/2	14-1/2	1/8	11
DONE	3-3/4	4-1/2	15	1/8	11
DOVE	3-3/4	5	15	3/16	18
DRAW	3-3/4	5-1/4	15	3/16	19
DULL	3-7/8	5-1/4	15-1/2	3/16	20
*EARN	4	5	16	3/16	18
EASE	4	5-1/4	16	3/16	20
ECHO	4-1/8	5-1/4	16-1/2	3/16	20
*EDIT	4-1/4	5-1/2	17	3/16	23
ELSE	4-3/8	5-3/4	17-1/2	3/16	25
*EPIC	4-1/2	5-1/2	18	3/16	23
EDGE	4-1/2	5-3/4	18	3/16	25
EVEN	4-5/8	6-1/8	18-1/2	1/4	41
*EVER	4-3/4	6-1/8	19	1/4	40
EVIL	4-7/8	6-1/8	19-1/2	1/4	42
*FACE	5	6-1/8	20	1/4	42
FACT	5	6-1/2	20	1/4	47
*FADE	5-1/4	6-3/4	21	1/4	51
FARE	5-1/4	7	21	1/4	57
FEAR	5-3/8	6-3/4	21-1/2	1/4	52
FELT	5-3/8	7	21-1/2	1/4	56
*FIND	5-1/2	7	22	1/4	55
FLAT	5-5/8	7	22-1/2	1/4	56
*FORK	5-3/4	7	23	1/4	57
FUEL	5-7/8	7-1/2	24	1/4	66
*GALE	6	7-1/2	24	1/4	65
GOLD	6-1/2	8-3/8	30	7/16	150

SOLID FLANGED BEARINGS

NAVAL BRASS

STRUT OR AFT STERN TUBE • FULL MOLDED TYPE

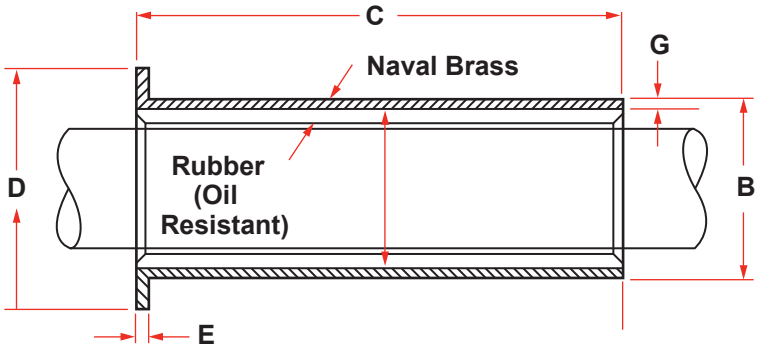
Duramax Flanged Type Water Lubricated Bearings are centrifugally cast naval brass with an integral flange for bolting to stern Tube or Strut Housing to retain bearing and prevent rotation in housing. Specially formulated oil and chemical resistant nitrile rubber is securely bonded to the shell. Shells are heavy walled providing structural strength or step turned if desired.

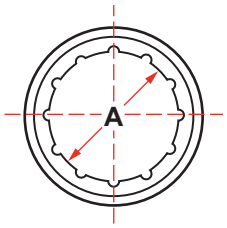
APPROVED BEARINGS: Johnson-Duramax Naval Brass Flanged Bearings meet military specification MIL-B-17901A (Ships) Class II Full-Molded type. Flanges are furnished NOT DRILLED unless specified.

PRECAUTION: When shrink fitting of the bearing is required, chilling must be achieved by gradual cooling to not more than minus 20° F (-28° C) using a freezer or regular ice (not Dry Ice).

DIMENSIONS (INCHES)								SHIPPING WEIGHT LBS.
CODE	A SHAFT OR SLEEVE SIZE	B BEARING OUTSIDE DIAMETER	C BEARING LENGTH	D BEARING FLANGE DIAMETER	E FLANGE THICKNESS	F METAL I.D.	G METAL THICKNESS	
BRACE	2	3	8	5	3/8	2-5/8	3/16	8
BROAD	2-1/2	3-3/8	10	5-1/2	3/8	3-1/8	1/8	9
CATCH	3	4-1/4	12	6-3/4	1/2	3-3/4	1/4	17
CLAMP	3-1/4	4-1/2	13	7	1/2	4	1/4	20
CRANK	3-1/2	4-3/4	12-1/2	6-3/4	1/2	4-1/4	1/4	21
CLEAR	3-1/2	4-7/8	14	7-3/8	1/2	4-1/4	5/16	34
CIVIL	3-3/4	5-1/4	15	7-3/4	1/2	4-5/8	5/16	39
DRAFT	4	5-1/2	16	8	1/2	4-7/8	5/16	43
DREAD	4-1/4	5-3/4	17	8-1/4	1/2	5-1/8	5/16	47
DANCE	4-3/8	6	22	8-7/8	1/2	5-3/8	5/16	64
DRINK	4-1/2	6	18	8-7/8	1/2	5-3/8	5/16	54
DROVE	4-3/4	6-1/4	19	9-1/8	1/2	5-5/8	5/16	58
EARTH	5	6-3/4	20	9-5/8	9/16	6	3/8	75
EASEL	5-1/4	6-7/8	21	9-7/8	9/16	6-1/8	3/8	77
ERASE	5-1/2	7-1/4	22	10-1/4	9/16	6-1/2	3/8	89
EVENT	5-3/4	7-1/4	23	10-1/4	9/16	6-1/2	3/8	91
FABLE	6	7-3/4	15	12-1/4	9/16	7	3/8	75
FAULT	6	7-3/4	24	11	9/16	7	3/8	98
-	6-1/8	7-7/8	22	10-1/2	9/16	7-1/8	3/8	-
FENCE	6-1/4	8	22-1/2	10-5/8	9/16	7-1/4	3/8	99
-	6-3/8	8-1/8	23	10-3/4	9/16	7-3/8	3/8	-
FLARE	6-1/2	8-3/8	23-1/2	11	9/16	7-1/2	7/16	129
FLEET	6-1/2	8-3/8	30	11	5/8	7-1/2	7/16	141
FLUTE	6-5/8	8-1/2	15	13-1/2	5/8	7-5/8	7/16	100
FLOOR	6-5/8	8-1/2	24	11-1/4	9/16	7-5/8	7/16	133
FRANK	6-5/8	8-5/8	24	11-1/4	9/16	7-7/8	3/8	130
FROZE	6-3/4	8-3/4	24	11-1/4	5/8	7-7/8	7/16	131
FANCY	6-3/4	8-3/4	24-1/2	11-3/8	9/16	7-7/8	7/16	135
FOUND	6-7/8	8-7/8	24-1/2	11-3/8	9/16	7-7/8	1/2	134
-	6-7/8	8-7/8	25	11-1/2	9/16	8	7/16	-
GAVEL	7	9	25-1/2	11-5/8	9/16	8-1/8	7/16	137
GLAND	7	9-1/8	25-1/2	11-5/8	9/16	8-1/8	1/2	143
-	7-18	9-1/8	25-1/2	11-3/4	9/16	8-1/4	7/16	-
GLASS	7-1/4	9-1/4	26-1/2	11-7/8	9/16	8-3/8	7/16	148
-	7-3/8	9-1/2	27	12-1/8	9/16	8-5/8	7/16	-
GLORY	7-1/2	9-5/8	17-1/2	14-1/2	1	8-3/4	7/16	129
GLOBE	7-1/2	9-5/8	27-1/2	12-3/4	9/16	8-3/4	7/16	160
-	7-5/8	9-3/4	28	12-3/8	9/16	8-3/4	1/2	-
GIPSY	7-3/4	9-7/8	28-1/2	12-1/2	9/16	8-7/8	1/2	195
-	7-7/8	10	29	12-5/8	9/16	9-1/8	7/16	-
HEART	8	10-1/4	29-1/2	13-1/4	5/8	9-1/4	1/2	197
HEDGE	8	10-1/2	29-1/2	13-1/4	5/8	9-1/4	1/2	232
-	8-1/8	10-3/8	30	13-3/8	5/8	9-3/8	1/2	-
HITCH	8-1/4	10-1/2	30-1/2	13-1/2	5/8	9-1/2	1/2	212
-	8-3/8	10-5/8	31	13-5/8	5/8	9-5/8	1/2	-
HOIST	8-1/2	10-3/4	31-1/2	13-3/4	5/8	9-3/4	1/2	221
-	8-5/8	10-7/8	32	13-7/8	5/8	9-7/8	1/2	-
HOVER	8-3/4	11	32-1/2	14	5/8	10	1/2	229

NOTE: Pounding or shocking the bearing while in the chilled state could cause the rubber to separate from the shell.





	DIMENSIONS (INCHES)							
CODE	A SHAFT OR SLEEVE SIZE	B BEARING OUTSIDE DIAMETER	C BEARING LENGTH	D BEARING FLANGE DIAMETER	E FLANGE THICKNESS	F METAL I.D.	G METAL THICKNESS	SHIPPING WEIGHT LBS.
-	8-7/8	11-1/8	33	14-1/8	3/4	10-1/8	1/2	-
INFRA	9	11-1/4	33-1/2	14-1/4	3/4	10-1/4	1/2	246
IDEAL	9	11-1/2	33-3/8	15	3/4	10-1/4	5/8	275
-	9-1/8	11-3/8	34	14-1/2	3/4	10-3/8	1/2	287
INNER	9-1/8	11-1/2	34-1/2	16-3/8	5/8	10-3/8	9/16	284
IRISH	9-1/4	11-1/2	34-1/2	14-5/8	11/16	10-1/2	1/2	269
-	9-3/8	11-5/8	35	14-3/4	3/4	10-5/8	1/2	-
INSET	9-1/2	11-3/4	35-1/2	14-7/8	3/4	10-3/4	1/2	274
-	9-5/8	11-7/8	36	15	3/4	10-7/8	1/2	-
IVORY	9-3/4	12-1/8	36-1/2	15-1/4	3/4	11	9/16	295
-	9-7/8	12-1/4	37	15-3/8	3/4	11-1/8	9/16	-
JEWEL	10	12-3/8	37-1/2	15-1/2	3/4	11-1/4	9/16	332
-	10-1/8	12-1/2	38	15-5/8	3/4	11-1/4	5/8	-
JETTY	10-1/4	12-5/8	38-1/2	15-7/8	3/4	11-1/2	9/16	353
-	10-3/8	12-3/4	39	16	3/4	11-5/8	9/16	-
JUMBO	10-1/2	12-7/8	39-1/2	16-1/8	3/4	11-3/4	9/16	369
-	10-5/8	13	40	16-1/4	3/4	11-7/8	9/16	-
JUDGE	10-3/4	13-1/8	40-1/2	16-3/8	3/4	12	9/16	384
-	10-7/8	13-1/4	41	17	3/4	12-1/8	9/16	-
KNOCK	11	13-1/2	41-1/2	17-1/4	3/4	12-3/8	9/16	424
-	11-1/8	13-5/8	42	17-3/8	3/4	12-1/2	9/16	-
KRAFT	11-1/4	13-3/4	42-1/2	17-1/2	3/4	12-5/8	9/16	431
-	11-3/8	14	43	17-3/4	3/4	12-3/4	5/8	-
KNEEL	11-1/2	14-1/8	43-1/2	17-7/8	3/4	12-7/8	5/8	490
KNIFE	11-1/2	14-7/8	50-3/4	20-1/4	1-1/4	12-7/8	1	871
-	11-5/8	14-1/4	44	18	3/4	13	5/8	-
KNOTS	11-3/4	14-3/8	44-1/2	18-1/8	3/4	13-1/8	5/8	497
-	11-7/8	14-1/2	45	18-1/4	3/4	13-1/4	5/8	-
LABOR	12	14-3/4	45-1/2	18-1/2	3/4	13-1/2	5/8	524
LOGAN	12-1/8	14-7/8	46	18-5/8	3/4	13-5/8	5/8	-
LANCE	12-1/4	15	46-1/2	18-3/4	3/4	13-3/4	5/8	540
LEASE	12-3/8	15-1/8	47	18-7/8	3/4	13-7/8	5/8	-
LAYER	12-1/2	15-1/4	47-1/2	19	3/4	14	5/8	556
LOGIC	12-5/8	15-3/8	48	19-1/8	3/4	14-1/8	5/8	545
MILKY	12-3/4	15-1/2	48-1/2	19-1/4	3/4	14-1/4	5/8	-
MUSIC	12-7/8	15-5/8	49	19-3/8	3/4	14-3/8	5/8	-
MINCE	13	15-7/8	50	19-5/8	7/8	14-1/2	11/16	-
MITTY	13-1/8	16	50-1/2	19-3/4	7/8	14-5/8	11/16	-
MISTY	13-1/4	16-1/8	51	19-7/8	7/8	14-3/4	11/16	-
NIFTY	13-3/8	16-1/4	51-1/2	20	7/8	14-7/8	11/16	716
NIECE	13-1/2	16-3/8	52	20-1/8	7/8	15	11/16	718
NOVEL	13-5/8	16-1/2	52-1/2	20-1/4	7/8	15-1/8	11/16	-
ORTHA	13-3/4	16-5/8	53	20-3/8	7/8	15-1/4	11/16	-
OGGLE	13-7/8	16-3/4	53-1/2	20-1/2	7/8	15-3/8	11/16	-
OPERA	14	16-7/8	54	20-5/8	7/8	15-1/2	11/16	-
PURSE	14-1/8	17	54-1/2	20-3/4	7/8	15-5/8	11/16	-
POLAR	14-1/4	17-1/8	55	20-7/8	7/8	15-3/4	11/16	-
POINT	14-3/8	17-1/4	55-1/2	21	7/8	15-7/8	11/16	-
PRUNE	14-1/2	17-1/2	56	21-1/4	7/8	16	3/4	841
PRICE	14-5/8	17-5/8	56-1/2	21-3/8	7/8	16-1/8	3/4	-
PUNCH	14-3/4	17-3/4	57	21-1/2	7/8	16-1/4	3/4	-
QUAKE	14-7/8	17-7/8	57-1/2	21-5/8	7/8	16-3/8	3/4	-
QUIET	15	18	58	21-3/4	7/8	16-1/2	3/4	-

CONVERSION FACTORS AND TABLES

1 lb. = .45359 kg (kilogram)
1 kg = 2.20462 lbs.
1 kN (kilonewton) = 101.972 kg = 224.809 lbs.
1 short ton = 2,000 lbs. = 907.185 kg
1 long ton = 2,240 lbs. = 1,016.05 kg
1 metric ton = 2,204.62 = 1,000 kg

1 ft = .3048 m (meter)
1 m = 3.28084 ft. = 39.3701 inches
1 inch = 25.4 mm (millimeter)
1 mm = 0.03937 inches
1 yard = 9144 m
1 m = 1.0936 yards
1 mile = 1.60934 km (kilometer)
1 km = .62137 mile

1 mile = 1,760 yards = 5,280 ft.
1 yard = 3 ft. = 36 inches
1 R. = 12 inches
1 fathom = 6 ft.
1 lb. = 16 ounces
1 kilometer = 1,000 meters
1 meter = 100 centimeters
1 centimeter = 10 millimeters
1 kilogram = 1,000 grams

INCH	DECIMALS OF AN INCH	MILLIMETERS
--	.03937	1.0
1/16	.0625	1.587
--	.07874	2.0
3/32	.09375	2.381
--	.11811	3.0
1/8	.125	3.175
5/32	.15625	3.968
--	.15748	4.0
3/16	.187	4.762
--	.19685	5.0
7/32	.21875	5.556
--	.23622	6.0
1/4	.25	6.35
--	.275591	7.0
9/32	.28125	7.143
5/16	.3125	7.937
--	.314961	8.0
--	.354331	9.0
3/8	.375	9.525
--	.393701	10.0
--	.433071	11.0
7/16	.4375	11.112
--	.472441	12.0
1/2	.50	12.70
--	.511811	13.0
--	.551181	14.10
9/16	.5625	14.287
--	.590551	15.0
5/8	.625	15.875
--	.629921	16.0
--	.669291	17.0

INCH	DECIMALS OF AN INCH	MILLIMETERS
--	.708661	18.0
--	.748031	19.0
3/4	.75	19.05
--	.787402	20.0
--	.826772	21.0
--	.866142	22.0
7/8	.875	22.225
--	.905512	23.0
15/16	.9375	23.812
--	.944882	24.0
--	.984252	25.0
1	1.00	25.4
--	1.023622	26.0
--	1.062992	27.0
--	1.102362	28.0
1-1/8	1.125	28.575
--	1.141732	29.0
--	1.181102	30.0
--	1.220472	31.0
1-1/4	1.25	31.75
--	1.259843	32.0
--	1.299213	33.0
--	1.338583	34.0
1-3/8	1.375	34.925
--	1.377953	35.0
--	1.417323	36.0
--	1.456693	37.0
--	1.496063	38.0
1-1/2	1.50	38.10
--	1.535433	39.0
--	1.574803	40.0

INCH	DECIMALS OF AN INCH	MILLIMETERS
--	1.614173	41.0
1-5/8	1.625	41.275
--	1.653543	42.0
--	1.692913	43.0
--	1.732283	44.0
1-3/4	1.75	44.45
--	1.771654	45.0
--	1.811024	46.0
--	1.850394	47.0
1-7/8	1.875	47.625
--	1.889764	48.0
--	1.929134	49.0
--	1.968504	50.0
2	2.00	50.80
--	2.007874	51.0
--	2.047244	52.0
--	2.086614	53.0
2-1/8	2.125	53.975
--	2.125984	54.0
--	2.165354	55.0
--	2.204724	56.0
--	2.244094	57.0
2-1/4	2.25	57.15
--	2.283465	58.0
--	2.322835	59.0
--	2.362236	60.0
2-3/8	2.375	60.325
--	2.401575	61.0
--	2.440945	62.0
--	2.480315	63.0
2-1/2	2.50	63.5



MM TO INCHES

1 mm = 3/64″	14 mm = 9/16″	32 mm = 1-1/4″	95 mm = 3-3/4″
1.5 mm = 1/16″	15 mm = 19/32″	33 mm = 1-5/16″	
2 mm = 5/64″	16 mm = 5/8″	35 mm 1-3/8″	10 cm = 4″
2.5 mm = 3/32″	17 mm = 11/16″	36 mm = 1-3/8″	10.8 cm = 4-1/4″
3 mm = 1/8″	18 mm = 23/32″	38 mm = 1-1/2″	11.5 cm = 4-1/2″
4 mm = 5/32″	19 mm = 3/4″	40 mm = 1-9/16″	12 cm = 4-3/4″
5 mm = 3/16″	20 mm = 25/32″	45 mm = 1-3/4″	12.7 cm = 5″
6 mm = 1/4″	21 mm = 1/16″	50 mm = 2″	13 cm = 5-1/8″
7 mm = 9/32″	22 mm = 7/8″	55 mm = 2-3/16″	13.5 cm = 5-1/4″
8 mm = 5/16″	23 mm = 29/32″	60 mm = 2-3/8″	14 cm = 5-1/2″
9 mm = 3/8″	24 mm = 15/16″	65 mm = 2-1/2″	14.7 cm = 5-3/4″
10 mm = 13/32″	25 mm = 1″	70 mm = 2-3/4″	15.2 cm = 6″
11 mm = 7/16″	27 mm = 1-1/16″	75 mm = 3″	15.5 cm = 6-1/8″
12 mm = 15/32″	28 mm = 1-1/8″	80 mm = 3-1/8″	16 cm = 6-3/8″
13 mm = 1/2″	30 mm = 1-3/16″	90 mm = 3-1/2″	

THE METRIC SYSTEM

WEIGHTS

METRIC DENOMINATIONS AND VALUES			EQUIVALENTS IN DENOMINATIONS IN USE		
Names	**No. Grams**		**Quantity of Water at Maximum Density**		**Avoirdupois Weigh**
Millier or tonneau	= 1,000,000	=	1 cubic meter	=	2204.6 pounds
Quintal	= 100,000	=	1 hectoliter	=	220.46 pounds
Myriagram	= 10,000	=	10 liters	=	22.046 pounds
Kilogram or Kilo	= 1,000	=	1 liter	=	2.2046 pounds
Hectogram	= 100	=	1 deciliter	=	3.5274 ounces
Dekagram	= 10	=	10 c. centimeters	=	0.3527 ounces
Gram	= 1	=	1 c. centimeter	=	15.432 grains
Decigram	= .1	=	1c. centimeter	=	1.5432 grains
Centigram	= .01	=	10 c. centimeter	=	0.1543 grain
Milligram	= .001	=	1 c. millimeter	=	0.0154 grain

MEASURES OF LENGTH

METRIC DENOMINATIONS AND VALUES				EQUIVALENTS IN DENOMINATIONS IN USE
Myriameter	=	10,000 meters	=	6.2137 miles
Kilometer	=	1,000 meters	=	0.62137 mile, or 3,280 feet 10 inches
Hectometer	=	100 meters	=	328 feet and 1 inch
Dekamter	=	10 meters	=	393.7 inches
Meter	=	1 meter	=	39.37 inches
Decimeter	=	.1 meter	=	3.937 inches
Centimeter	=	.01 meter	=	0.3937 inches
Millimeter	=	.001 meter	=	0.0394 inch



CONVERSION TABLES

CONVERSION FACTORS

Cubic feet x 1728	=	cubic inches
Cubic yards x 27	=	cubic feet
1 U.S. Gallon	=	231 cubic inches
	=	8.336 pounds water
1 cubic foot	=	7.4805 U.S. gallons
	=	62.355 pounds at 62° F
1 cubic foot per second	=	448.83 U.S. gallons per minute
1 cubic foot per second	=	648,317 gallons per 24 hours
Pressure of 1 pound per square inch	=	2.042 inches of mercury at 62° F
Pressure of 1 pound per square inch	=	2.309 feet of water at 62° F
Standard atmospheric pressure	=	14.7 pounds per square inch,
	=	29.92 inches mercury,
	=	33.9 feet water
Head of water of 1 foot	=	0.433 pounds per square inch
1 horsepower	=	33,000 foot pounds per minute
1 meter	=	39.37 inches,
	=	3.281 feet
1 kilogram	=	2.205 pounds
1 liter	=	1,000 grams of water,
	=	1.0567 quarts,
	=	0.2642 gallons

LINEAR MEASURE

12 inches	1 foot
3 feet	1 yard
5-1/2 yards	1 rod
40 rods	1 furlong
320 rods	1 mile
5,280 feet	1 mile
8 furlongs	1 mile

CUBIC MEASURE

1728 cubic inches	1 cubic foot
27 cubic feet	1 cubic yard
128 cubic feet	1 cord
24-3/4 x cubic feet	1 perch

SURVEYOR'S MEASURE

7.92 inches	1 link
100 links	1 chain
4 rods	1 chain
20 chains	1/4 mile
40 chains	1/2 mile
80 chains	1 mile

AREAS AND VOLUMES

Circumference of circle	=	3.1416 x diameter
Diameter of circle	=	0.3183 x circumference
Side of a square of equal area	=	0.8862 x diameter
Diameter of a circle of equal area	=	1.1284 x side of square
Area of a circle	=	0.7854 x square of the diameter
Diameter of a circle	=	1.1284 x square root of the area
Surface area of a sphere	=	3.1416 x square of the diameter
Volume of a sphere	=	0.5236 x cube of diameter
Volume of cylinder or prism	=	area of base x height
Volume of cone or pyramid	=	1/3 x area of base x height
Volume of the frustrum of a cone or pyramid	=	1/3 X height x (area of upper base + $\sqrt{\text{area of upper base x area of lower base}}$)

Doubling the diamter of a pipe increases volume four times: generalizing, increasing the diamter "n" times increases the volume "n^2" or "n x n" times.

SQUARE MEASURE

144 square inches	1 square foot
9 square feet	1 square yard
30.25 square yards	1 square rod
160 square rods	1 square acre
640 acres	1 mile
640 acres	1 section
36 sections	1 township

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DECIMAL EQUIVALENTS: INCH - MILLIMETER CONVERSION TABLE

INCH	DECIMAL	MILLIMETER
1/64	.015625	.396875
1/32	.03125	.793750
3/64	.046875	1.190625
1/16	.0625	1.587500
5/64	.078125	1.984375
3/32	.09375	2.381250
7/64	.109375	2.778125
1/8	.1250	3.175000
9/64	.140625	3.571875
5/32	.15625	3.968750
11/64	.171875	4.365625
3/16	.1875	4.762500
13/64	.203125	5.159375
7/32	.21875	5.556250
15/64	.234375	5.953125
1/4	.2500	6.350000
17/64	.265625	6.746875
9/32	.28125	7.143750
19/64	.266875	7.540625
5/16	.3125	7.937500
21/64	.328125	8.334375
11/32	.34375	8.731250
23/64	.359375	9.128125
3/8	.3750	9.525000
25/64	.390625	9.921875
13/32	.40625	10.318750
27/64	.421875	10.715625
7/16	.4375	11.112500
29/64	.453125	11.509375
15/32	.46875	11.906250
31/64	.484375	12.303125
1/2	.5000	12.700000

INCH	DECIMAL	MILLIMETER
33/64	.515625	13.096875
17/32	.53125	13.493750
35/64	.546875	13.890625
9/16	.5625	14.287500
37/64	.578125	14.684375
19/32	.59375	15.081250
39/64	.609375	15.478125
5/8	.6250	15.875000
41/64	.640625	16.271875
21/32	.65625	16.668750
43/64	.71875	17.065625
11/16	.6875	17.462500
45/64	.703125	17.859375
23/32	.71875	18.265250
47/64	.734375	18.653125
3/4	.7500	19.050000
49/64	.765625	19.446875
25/32	.78125	19.843750
51/64	.796875	20.240625
13/16	.8125	20.637500
53/64	.828125	21.034375
27/32	.84375	21.431250
55/64	.859375	21.828175
7/8	.8750	22.225000
56/64	.890625	22.621875
29/32	.90625	23.018750
59/64	.921875	23.415625
15/16	.9375	23.812500
61/64	.953125	24.209375
31/32	.96875	24.606250
63/64	.984375	25.003125
1	1.000	25.40000



NOTES

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