



FOAM FILLED FENDERS

OCEAN GUARD™ NETLESS

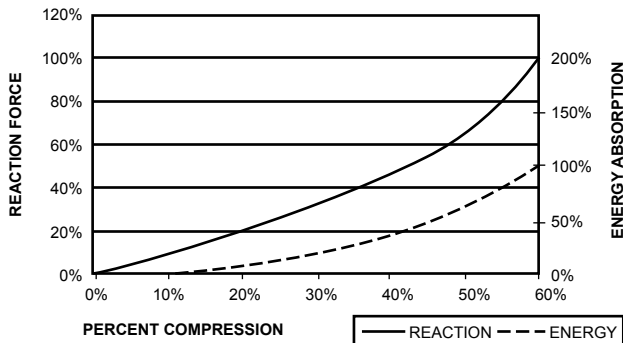
FENDERS		LOW REACTION				ENHANCED CAPACITY				STANDARD CAPACITY				ADVANCED CAPACITY				HIGH CAPACITY			
SIZE		ENERGY ABSORPTION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE	
METRIC	ENGLISH	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
M X M	FT X FT																				
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

FOAM FILLED FENDERS

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



GENERIC PERFORMANCE CURVE
OCEAN GUARD FENDER



* 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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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 ABSORPTION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE		ENERGY ABSORPTION		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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