



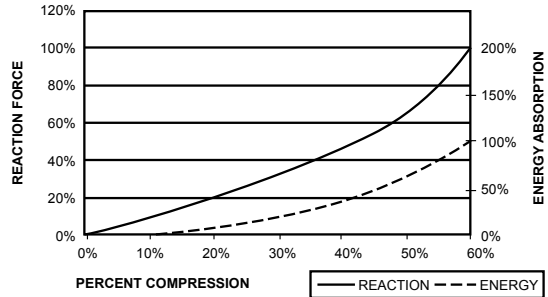
FENDERS

OCEAN GUARD™ NETLESS

FENDERS		LOW REACTION				STANDARD CAPACITY				HIGH CAPACITY			
SIZE		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
M X M	FT X FT												
0.7 x 1.5	2.3 x 4.9	11	2	18	8	19	3	30	14	25	3	39	18
0.7 x 2.0	2.3 x 6.5	17	2	27	12	28	4	44	20	33	5	52	24
0.7 x 3.0	2.3 x 9.8	29	4	46	21	49	7	77	35	50	7	78	35
1.0 x 1.5	3.3 x 4.9	21	3	18	8	35	5	39	18	46	6	51	23
1.0 x 2.0	3.3 x 6.5	30	4	34	15	50	7	57	26	65	9	74	34
1.0 x 3.0	3.3 x 9.8	53	7	58	26	89	12	97	44	75	10	86	74
1.2 x 2.0	3.9 x 6.5	40	6	38	17	67	9	63	29	87	12	82	37
1.2 x 2.5	3.9 x 8.2	56	8	52	23	94	13	86	39	109	15	103	46
1.35 x 2.5	4.4 x 8.2	67	9	56	25	112	15	94	43	146	20	122	55
1.35 x 3.0	4.4 x 9.8	86	12	71	32	144	20	118	54	175	24	146	66
1.5 x 3.0	4.9 x 9.8	103	14	78	35	171	24	130	59	222	31	169	77
1.7 x 3.0	5.6 x 9.8	125	17	83	38	208	29	139	63	270	37	181	82
1.7 x 4.5	5.6 x 14.7	212	29	139	63	354	49	232	105	360	50	241	109
2.0 x 3.5	6.5 x 11.5	201	28	114	52	335	46	190	86	436	60	247	112
2.0 x 4.0	6.5 x 13.1	239	33	136	62	398	55	226	103	517	72	294	133
2.0 x 4.5	6.5 x 14.7	276	38	157	71	460	64	261	118	598	83	339	154
2.5 x 4.0	8.2 x 13.1	335	46	161	73	591	82	269	122	768	106	350	159
2.5 x 4.5	8.2 x 16.4	398	55	181	82	663	92	301	137	1046	145	475	215
2.5 x 5.5	8.2 x 18.0	531	73	241	109	885	122	402	182	1151	159	523	237
3.0 x 4.9	9.8 x 16.0	633	88	239	108	1055	146	339	154	1372	190	519	235
3.0 x 6.0	9.8 x 19.7	819	113	310	141	1365	189	516	234	1775	245	671	304
3.0 x 7.0	9.8 x 23.0	973	135	367	166	1621	224	611	277	1923	266	727	330
3.3 x 4.5	10.8 x 14.7	663	92	228	103	1105	153	380	172	1437	199	494	224
3.3 x 6.5	10.8 x 21.3	1072	148	368	167	1786	247	614	279	2322	321	798	362
3.3 x 8.5	10.8 x 27.9	1498	207	516	234	2496	345	860	390	2323	321	799	362
3.3 x 10.6	10.8 x 34.8	1909	264	656	298	3181	440	1094	496	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

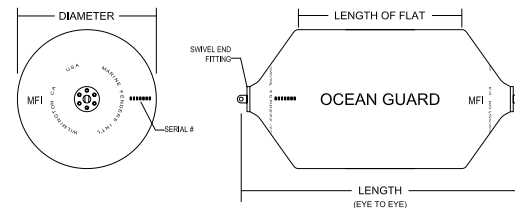
GENERIC PERFORMANCE CURVE
OCEAN GUARD FENDER



FENDERS		EXTRA HIGH CAPACITY				SUPER HIGH CAPACITY				ULTRA HIGH CAPACITY				FENDER	
SIZE		ENERGY ABSORPTION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE		ENERGY ABSORPTION		REACTION FORCE		SAFE WORKING END PULL LOAD	
METRIC	ENGLISH	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS	FT-KIPS	TON-M	KIPS	TONS	KIPS	KN
M X M	FT X FT														
0.7 x 1.5	2.3 x 4.9	36	5	57	26	49	7	78	35	65	9	102	46	10	42
0.7 x 2.0	2.3 x 6.5	48	7	76	34	65	9	104	47	96	13	151	68	10	42
0.7 x 3.0	2.3 x 9.8	72	10	114	52	98	14	156	71	167	23	261	118	10	42
1.0 x 1.5	3.3 x 4.9	67	9	74	34	91	13	123	56	119	16	133	60	10	42
1.0 x 2.0	3.3 x 6.5	95	13	108	49	130	18	148	67	170	24	194	88	10	42
1.0 x 3.0	3.3 x 9.8	75	10	86	39	75	10	86	39	303	42	330	150	10	42
1.2 x 2.0	3.9 x 6.5	127	18	120	54	174	24	164	74	228	32	214	97	17	76
1.2 x 2.5	3.9 x 8.2	159	22	150	68	218	30	205	93	320	44	292	133	17	76
1.35 x 2.5	4.4 x 8.2	213	29	179	81	291	40	244	111	381	53	320	145	17	76
1.35 x 3.0	4.4 x 9.8	256	35	215	97	349	48	293	133	490	68	401	182	17	76
1.5 x 3.0	4.9 x 9.8	325	45	247	112	445	62	338	153	581	80	442	200	24	107
1.7 x 3.0	5.6 x 9.8	395	55	264	120	541	75	361	164	707	98	473	214	24	107
1.7 x 4.5	5.6 x 14.7	527	73	352	160	721	100	481	218	1204	166	789	358	24	107
2.0 x 3.5	6.5 x 11.5	637	88	361	164	871	120	494	224	1139	158	646	293	34	151
2.0 x 4.0	6.5 x 13.1	756	105	429	195	1035	143	588	267	1353	187	768	349	34	151
2.0 x 4.5	6.5 x 14.7	874	121	496	225	1196	165	679	308	1564	216	887	403	50	222
2.5 x 4.0	8.2 x 13.1	1123	155	511	232	1573	213	699	317	2009	278	915	415	70	311
2.5 x 4.5	8.2 x 16.4	1529	211	694	315	2091	289	950	431	2254	312	1023	464	70	311
2.5 x 5.5	8.2 x 18.0	1682	233	764	347	2301	318	1045	474	3009	416	1367	620	70	311
3.0 x 4.9	9.8 x 16.0	2005	277	758	344	2743	379	1037	470	3587	496	1153	523	70	311
3.0 x 6.0	9.8 x 19.7	2594	359	980	445	3549	491	1342	609	4641	642	1754	796	110	489
3.0 x 7.0	9.8 x 23.0	2810	389	1062	482	3845	532	1454	659	5511	762	2077	942	110	489
3.3 x 4.5	10.8 x 14.7	2100	290	722	327	2873	397	988	448	3757	520	1292	586	110	489
3.3 x 6.5	10.8 x 21.3	3393	469	1167	529	4644	642	1596	724	6072	840	2088	947	110	489
3.3 x 8.5	10.8 x 27.9	3394	469	1168	530	4645	642	1597	724	8486	1174	2924	1326	110	489
3.3 x 10.6	10.8 x 34.8	6044	836	2079	943	8271	1144	2844	1290	10815	1496	3920	1687	110	489

Custom sizes and capacities available

* 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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