



Marine Fenders International, Inc.

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Ocean Guard™ Hydropneumatic Fenders



Ocean Guard™ Hydropneumatic Fenders are for vessels requiring sub-surface fender contact such as submarines. For the fender to stand vertically, it is partially filled with water, pressurized with air, and finally a counterweight of concrete or steel is added.

Its design ensures that the submerged part of the hull is protected properly by the fender at any time.



Performance Features

- Sub-surface vessel contact area
- Low hull pressures
-Prevents damage of submarine acoustic tiles.
- Adjustable draft
- Mobile

Applications

- Submarine docks
- Submarine to vessel fendering
- Ferry applications
- Oil rigs (semi-submersibles)

Fender Size		Energy Absorption			Reaction Force			Water Fill	Diameter Deflection
English	Metric	English	Metric		English	Metric			
Ø [ft] x L [ft]	Ø [m] x L [m]	ft-kips	ton-m	kN-m	kips	tons	kN	%	%
5.6 x 23.6	1.7 x 7.2	99	14	134	137	62	609	65	45
5.6 x 23.6	1.7 x 7.2	437	60	593	408	185	1815	0	60
6.5 x 19.7	2.0 x 6.0	114	16	155	134	61	596	65	45
6.5 x 19.7	2.0 x 6.0	477	66	647	397	180	1766	0	60
8.2 x 18.0	2.5 x 5.5	172	24	233	154	70	685	65	45
8.2 x 18.0	2.5 x 5.5	684	95	928	457	207	2033	0	60
10.8 x 21.3	3.3 x 6.5	454	63	616	280	127	1245	65	45
10.8 x 21.3	3.3 x 6.5	1411	195	1913	712	323	3167	0	60
10.8 x 34.8	3.3 x 10.6	434	60	589	286	130	1272	65	45
10.8 x 34.8	3.3 x 10.6	2301	318	3120	1162	527	5169	0	60

* Actual values for above sizes may vary +/- 10% due to variations in materials, speed of compression, temperatures and tolerances.