

# Inflatable Pneumatic Rubber Fender for Marine Vessels

These pneumatic fenders are designed for ship-to-ship transfers, terminals, and various types of vessels. The fenders offer excellent energy absorption and low reaction force.



## Overview

### High-Performance Marine Protection

These inflatable pneumatic rubber fenders serve as an essential protection medium for ship-to-ship (STS), ship-to-quay (STQ), and ship-to-berthing (STB) operations. Engineered for durability, they are widely utilized by large tankers, vessels, docks, harbor wharfs, and ocean platforms to minimize collision impact. Constructed from high-quality natural rubber with reinforced fiber layers, these fenders offer reliable, long-term performance in demanding marine environments.

## Technical Specifications

### Working Pressure

**0.05 MPa**

Min Pressure

**0.08 MPa**

Max Pressure

### Size Range

- Diameter (D): 0.5m to 8m
- Length (L): 1m to 12m

### Material & Construction

Natural Rubber, 4-9 Fiber Layers

### Working Life

10 to 15 years

## Performance Data

### Standard Performance Metrics

Size (D*L)	Weight @ 0.05MPa (kg)	Reaction Force @ 0.05MPa (KN)	Energy Absorption @ 0.05MPa (KJ)
0.5*1.0	25	64	6
1.0*2.0	100	257	45
2.0*3.5	590	875	308
3.3*6.5	2700	3015	1814

### Accuracy Notes

- Weight tolerance:  $\pm 10\%$
- Reaction force tolerance:  $\pm 10\%$
- Weight excludes jacket