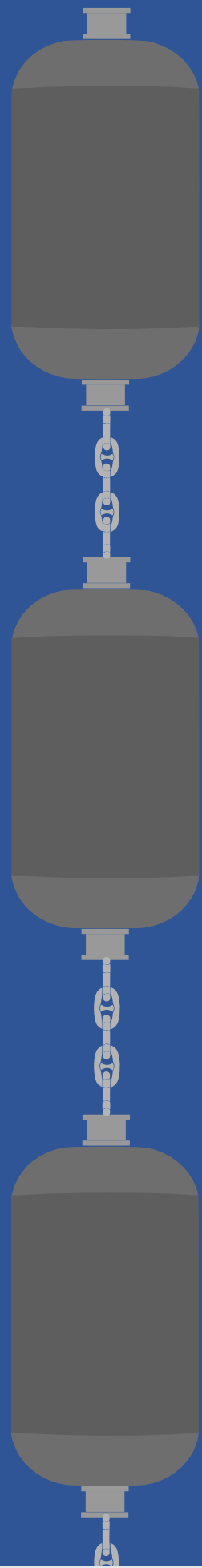
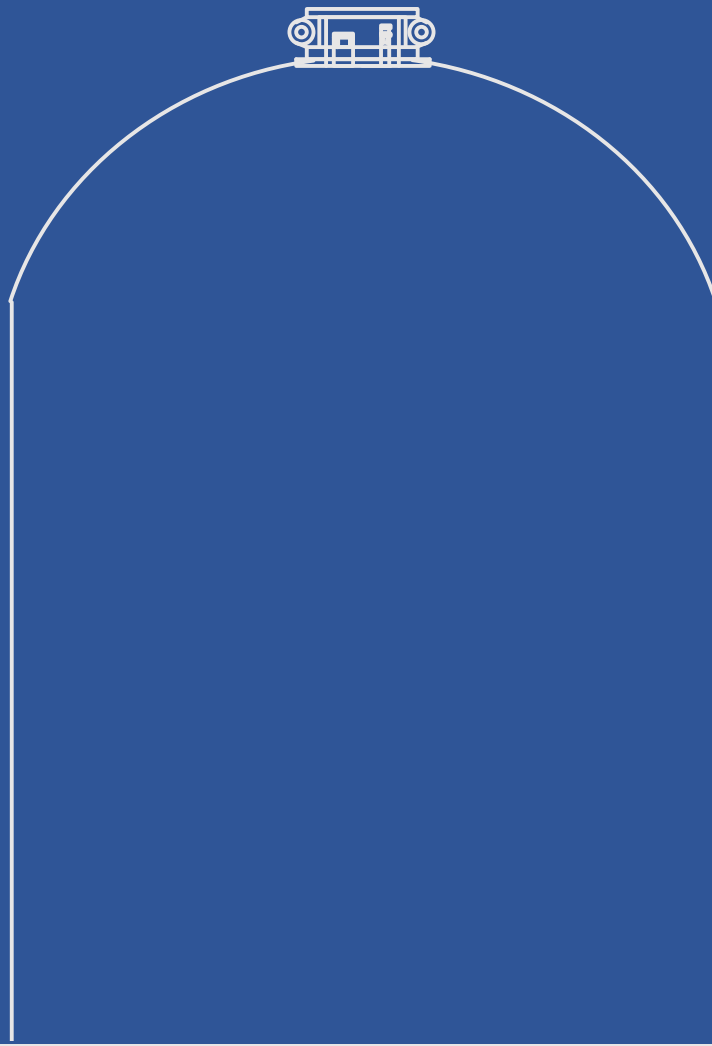


# SUBMARINE FENDERS



# Submarine Fenders – Chart

## Filled With Water

Size	Energy Absorption	Reaction Force	Weight (Deflated)
Mm	kNm	kN	kg
2000 x 4000	103	399	420
2000 x 6000	155	599	725
2500 x 5500	223	687	590
3300 x 6500	589	1275	1480

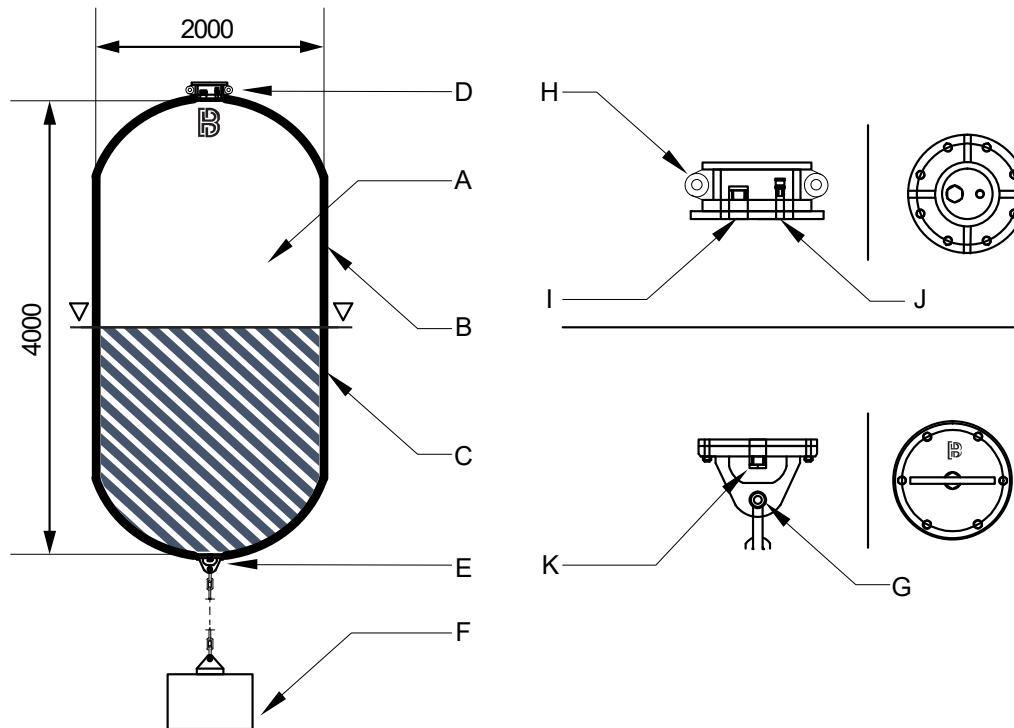
## Filled Without Water

Size	Energy Absorption	Reaction Force	Weight (Deflated)
Mm	kNm	kN	kg
2000 x 4000	431	1177	420
2000 x 6000	647	1766	725
2500 x 5500	928	2037	590
3300 x 6500	1913	3169	1480

ISO17357-1: 2014

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. A size tolerance of 5%, and other possible deviation margins need to be taken in mind.

## 2000 x 4000 – Submarine Fenders



### PROPERTIES

Variable	Value
Weight	420
<b>WATER FILLED</b>	
Energy Absorption	158
Reaction Force	450
<b>AIR FILLED</b>	
Energy Absorption	431
Reaction Force	1177

### GENERAL COMPONENTS

Variable	Value
Dimensions	2000 x 4000 mm
A	Fender Body
B	Air
C	Water
D	Top Flange
E	Bottom Flange
F	Counter Weight

### FLANGES

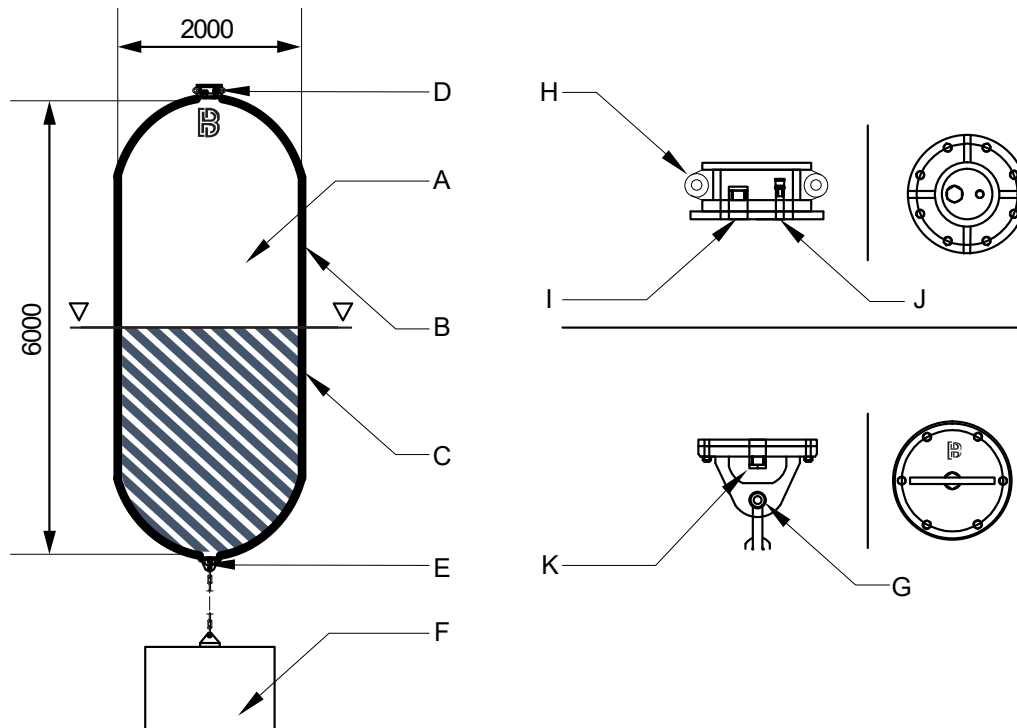
Variable	Value
H – Top	Ear for Lifting
I – Top	Water Valve
J - Top	Air Valve
K – Bottom	Water Valve
G - Bottom	Chain Hole
Dia. Water Valves	50 mm
Dia. Air Valve	20 mm

60% - 40% RATIO WATER/AIR HYDRO-PNEUMATIC FENDERS

ISO 17357:2014

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. A size tolerance of 5%, and other possible deviation margins need to be taken in mind.

## Submarine Fenders – 2000 x 6000



### PROPERTIES

Variable	Value
Weight	725
<b>WATER FILLED</b>	
Energy Absorption	155
Reaction Force	599
<b>AIR FILLED</b>	
Energy Absorption	647
Reaction Force	1766

### GENERAL COMPONENTS

Variable	Value
Dimensions	2000 x 6000 mm
A	Fender Body
B	Air
C	Water
D	Top Flange
E	Bottom Flange
F	Counter Weight

### FLANGES

Variable	Value
H - Top	Ear for Lifting
I - Top	Water Valve
J - Top	Air Valve
K - Bottom	Water Valve
G - Bottom	Chain Hole
Dia. Water Valves	50 mm
Dia. Air Valve	20 mm

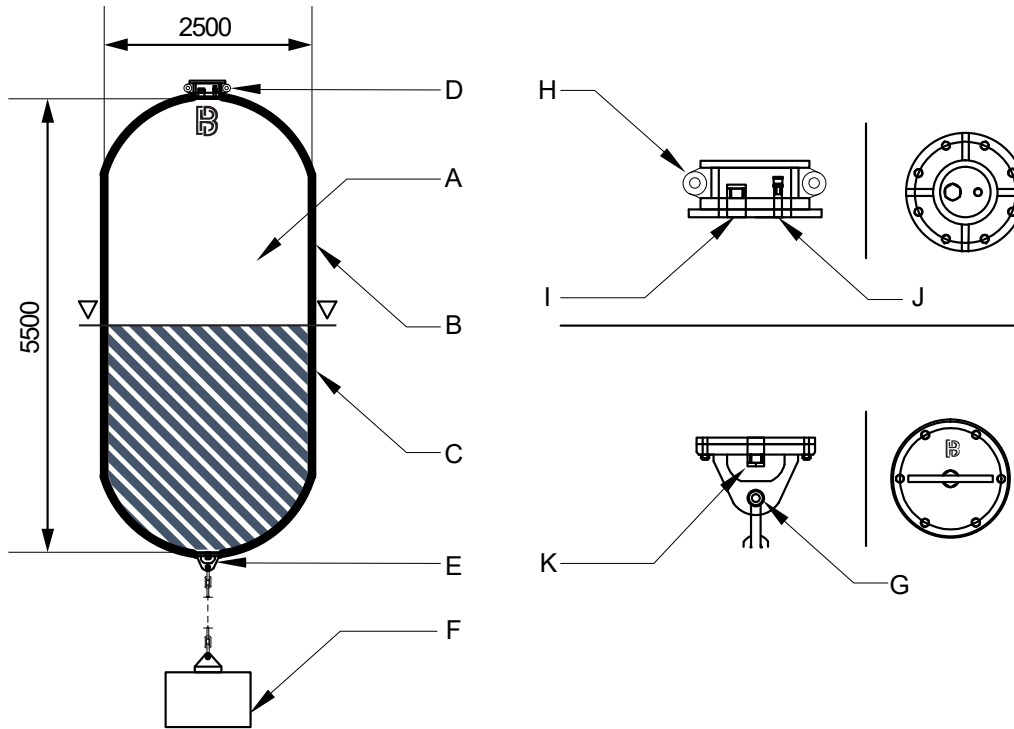
65% - 35% RATIO WATER/AIR HYDRO-PNEUMATIC FENDERS

ISO 17357:2014

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. A size tolerance of 5%, and other possible deviation margins need to be taken in mind.



## 2500 x 5500 – Submarine Fenders



### PROPPERTIES

Variable	Value
Weight	590 kgs
<b>WATER FILLED</b>	
Energy Absorption	155 kNm
Reaction Force	599 kN
<b>AIR FILLED</b>	
Energy Absorption	647 kNm
Reaction Force	1766 kN

### GENERAL COMPONENTS

Variable	Value
Dimensions	2500 x 5500 mm
A	Fender Body
B	Air
C	Water
D	Top Flange
E	Bottom Flange
F	Counter Weight

### FLANGES

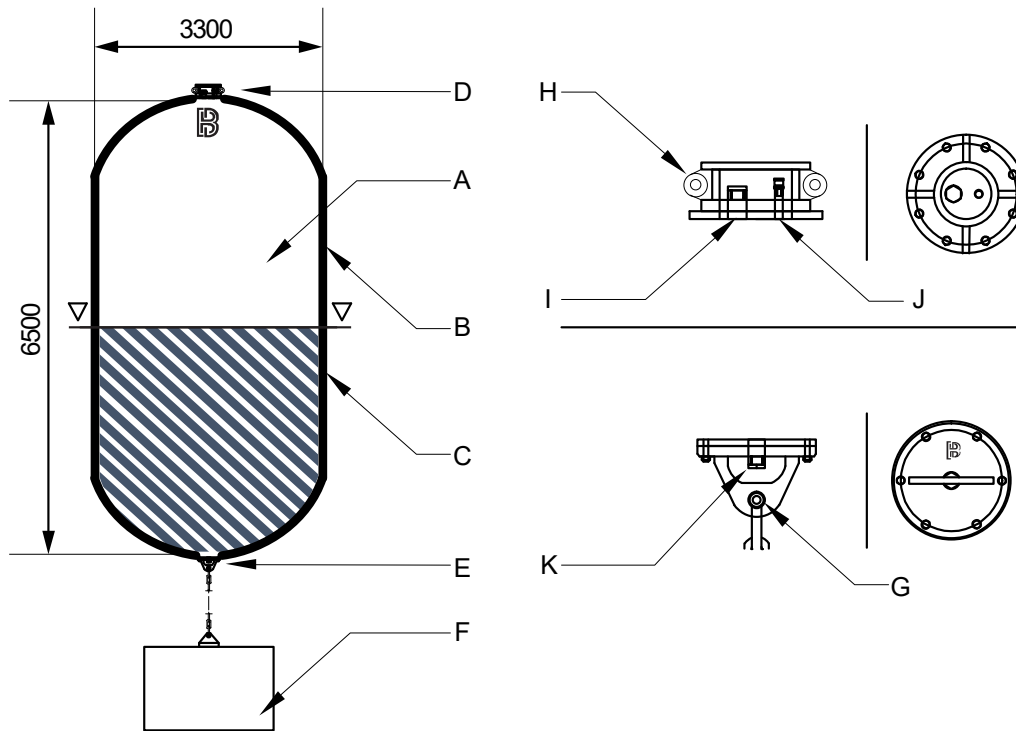
Variable	Value
H – Top	Ear for Lifting
I – Top	Water Valve
J - Top	Air Valve
K – Bottom	Water Valve
G - Bottom	Chain Hole
Dia. Water Valves	50 mm
Dia. Air Valve	20 mm

65% - 35% RATIO WATER/AIR HYDRO-PNEUMATIC FENDERS

ISO 17357:2014

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. A size tolerance of 5%, and other possible deviation margins need to be taken in mind.

## Submarine Fenders – 3300 x 6500



### PROPERTIES

Variable	Value
Weight	1480
<b>WATER FILLED</b>	
Energy Absorption	589
Reaction Force	1275
<b>AIR FILLED</b>	
Energy Absorption	1913
Reaction Force	3169

### GENERAL COMPONENTS

Variable	Value
Dimensions	3300 x 6500 mm
A	Fender Body
B	Air
C	Water
D	Top Flange
E	Bottom Flange
F	Counter Weight

### FLANGES

Variable	Value
H - Top	Ear for Lifting
I - Top	Water Valve
J - Top	Air Valve
K - Bottom	Water Valve
G - Bottom	Chain Hole
Dia. Water Valves	50 mm
Dia. Air Valve	20 mm

60% - 40% RATIO WATER/AIR HYDRO-PNEUMATIC FENDERS

ISO 17357:2014

Weight unit is Kilograms. All measurements in mm. Measurements, weights, and drawings, are based on industry standards. A size tolerance of 5%, and other possible deviation margins need to be taken in mind.