

Formal chain and tire net



Grey color with chain and tire net



Rope and rubber net



Rope net



Net Type

Sling Type



Classification

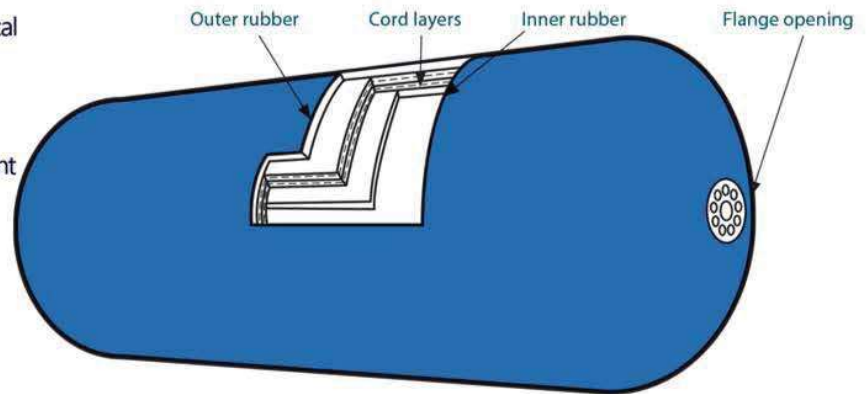
MARINE EQUIPMENT
Marine Airbags
Pneumatic/Foam Filled Fenders
Subface/Subsea Buoys

Construction Features

Visually, floating pneumatic rubber fender is a cylindrical airbag with hemispherical heads at both two ends.

The basic construction includes three main constituent parts which are vulcanized together.

- Outer rubber
- Inner rubber
- Synthetic-tire-cord layer for reinforcement



Typical cut section of fender wall

Outer Rubber

The outer rubber layer that covers the outside of fender protects the cord layers and the inner rubber from abrasion and other external forces. This compound has sufficient tensile and tear strength to withstand any weather condition and hard usage. Standard color is black, but other colors such as grey and creamy white are available on request.

Inner Rubber

The liner of a rubber membrane seals the pressurized air inside the fenders.

Synthetic-tire-cord layer for reinforcement

The reinforcement cord layers, which are made of Synthetic-tirecord commonly used in tires, are arranged at ideal angles to hold the internal pressure and to distribute the stress evenly providing strong efficient reinforcement.

Difference in arrangement between synthetic-tire-cord & canvas-fabric

The arrangement of synthetic-tire-cord reinforcement layers is shown in Fig.1

The arrangement of canvas-fabric reinforcement layers is shown in Fig.2

Example of difference in the physical property

The synthetic-tire-cord arrangement has strength in one direction only (warp) and the canvas-fabric arrangement strength is both direction (waft and warp). Table 1 and Table 2 provide an example of the difference in physical properties between the two.

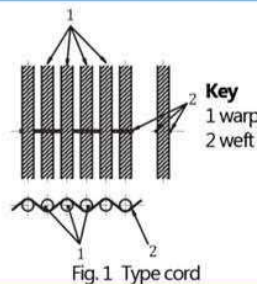


Fig. 1 Type cord

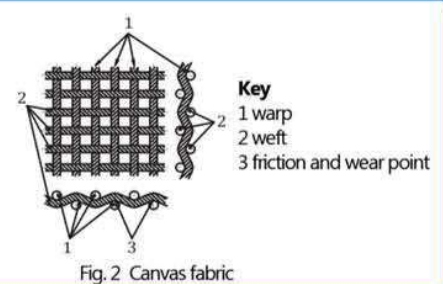


Fig. 2 Canvas fabric

Table 1 Synthetic tyre cord

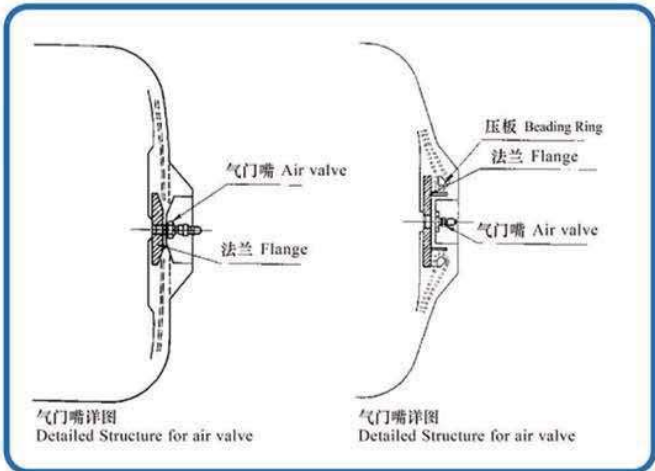
Item	Unit	Warp	Weft
Density	Ends/inch	24	2
Tensile strength	N/mm ²	20	0.02

Table 2 Canvas fabric

Item	Unit	Warp	Weft
Density	Ends/inch	16	16
		2	11.7

All the relevant metal accessories, are made of stainless steel, and Hot Dipped Galvanized (HDG), which are resistant for sea water corrosion.

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Real picture

Size: D4.5m X L9.0m

Rubber Sleeve

To protect the body surface and the HDG chain.

Hot dipped galvanized chain which is resistant for seawater corrosion.

Fender Body

The surface of fender body is specially coated. It is very smooth and shiny.

Chain and tire net

To protect fender body from damage by sharp objects or protrusions.