

GTC CONSTRUCCIONES Y EQUIPOS S.A. DE C.V.

Insurgentes Sur No. 2376-404, Col. Chimalistac México, D.F. 01070

Tels: (55) 55 50 39 30, (55) 55 50 39 19, Fax: (55) 55 50 39 56



Specialized
field

Rubber airbag

(PRODUCTS)

Sincere service



Trusted brands





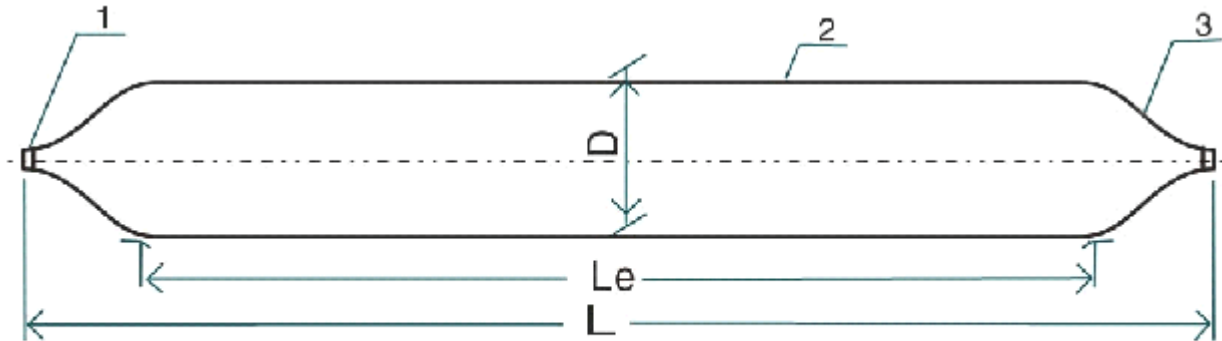
The applications of AIRBAGS:

- **Ship airbag** : Used for ship launching or upgrading and the airbags can afford nearly tons weight ships.
- **Lifting Airbag** : Used for heavy lifting "AIRBAG'S" highest operating pressure has reached 116 PSI.
- **Moving airbag** : Used for moving caissons, lifting and handling overweight Accessories. Our company has a professional construction team to pull and moved caissons, and we could undertake various kinds of caisson removed engineering.
- **Refloating airbag** : AIRBAG'S can used for refloating constructing on or under the sea, ship salvage, etc.

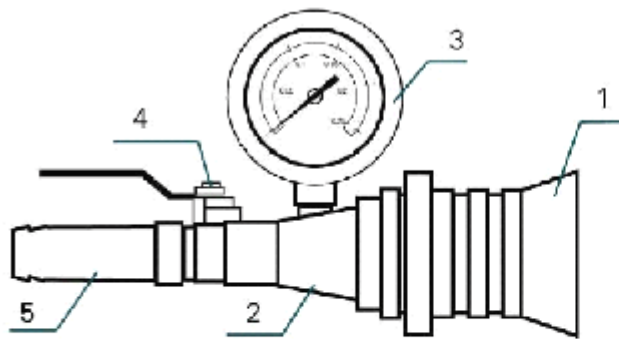
AIRBAGS characteristics

- **High strength** : The polyamide cord thread for AIRBAG'S is produced with high tension reinforced fiber. A cord thread has the strength more than 72 pound, and the cord fabric has consistent and reliable quality. Our company has high strength airbags with the higher strength steel wires and aramid fiber as skeleton materials on customer's request.
- **Wear resistance and anti-aging** : An AIRBAG often works in extreme conditions, for example, it is soaked in the seawater, insolated in the direct sunlight and rolled in sand. AIRBAG'S are produced with natural rubber in a reasonable formula. The practice proves that AIRBAG'S has high wear resistance and anti-aging ability, and the service life as long as 8-10 years.
- **Good air tightness** : The AIRBAG'S are manufactured with high quality rubber, etc. all raw materials and the advanced manufacture process to assure that our products have good air tightness, especially air tightness of the assisted floating airbag. AIRBAG'S assisted floating airbag can keep its pressure for 24 hours at work pressure, with the pressure drop less than 3%.
- **Safety and reliability** : AIRBAG'S with the optimized structure design has the safety coefficient of 4-6 times, namely that it's bursting pressure is 4-6 times its work pressure. AIRBAG'S has a multi-channel airbag mouth airbag mouth to enhance the strength and air tightness between the airbag body and mouth.
- **Inspection Strictly** : Every airbag must undergo strict inspection and appearance inspection before they leave the factory, the operating pressure and the gas leakage rate of must meet the substandard.

The structure of AIRBAGS:

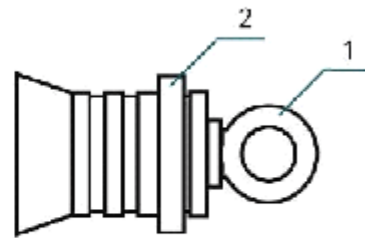


1. Airbag Mouth 2. Cylindrical Body 3. Tapering Body D. Diameter of Airbag
Le. Effective Length of Airbag L. Overall length



1. The end of iron pieces 2. Three way connecting pipe
3. Pressure gauge 4. Valve 5. Hose connector

Inflatable attachment



1. Pull ring 2. The end of iron pieces

End pull-ring seal

Airbag specification and performance:

The bearing capacity at work pressure is calculated as follows:

$$Q = p \cdot S \dots\dots\dots (1)$$

Where: Q—Bearing capacity of airbag;

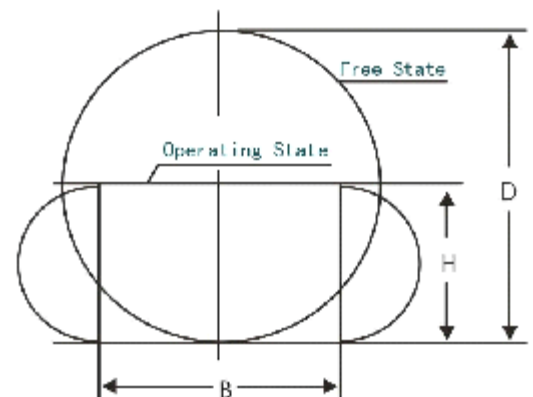
p--Work pressure of airbag;

S--Frontal projected area of contact surface.

The width, B, of the airbag's contact with a heavy object or ground when the airbag is pressed to certain height, H, (See Fig. 7) can be calculated

according to the following equation:

$$B = \sqrt{D \cdot H} \dots\dots\dots (2)$$



Bearing Surface of The Operating State
Fig. 7

Technical specifications of AIRBAGS:

CATEGORY	AIRBAG DIAMETER D (M)	OPERATING PRESSURE (PSI)	TEST PRESSURE (PSI)	BEARING CAPACITY EACH METER OF AIRBAG (lbf/ft)				SAFETY COEFFICIENT	EFFECTIVE LENGTH (M)	OVERALL LENGTH (M)
				OPERATING DEPTH 0.5D	OPERATING DEPTH 0.4D	OPERATING DEPTH 0.3D	OPERATING DEPTH 0.2D			
HIGH PRESSURE AIRBAG	1	29	35	10,750	12,900	15,100	17,200	~ 4	10.00	11.72

Attention for use:

1. Control the pressure strictly. Do not exceed the safe pressure.
2. The surface contacted with the airbag, should not have any sharp outstanding things, prevent from puncturing airbags epidermis.
3. Avoid the length direction generate distortion.
4. Airbags, not long after the repair or resetting prior to use, should undertake no load inflatable experiment. Air pressure should according to our factory's experiment pressure. The inspector should be at least 3 meters away from the airbag. The airbag after repaired damaged area should be appropriately reduced its using pressure. In addition .The airbag used frequently should be checked every year.
5. Do not drag the airbag on the ground.



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