

Proof Load Testing Water Bags

DooFlex Flexible Engineering aims to be the best partner of load testing with advanced production technology and safety focus.

DooFlex water filled weight bags meet the need for the simple, economy, convenience, safety and high efficiency load testing method instead of traditional solid test method.

Load testing water bags used for the proof load testing of crane, davit, bridge, beam, derrick, and other lifting equipments and structures in the maritime, oil & gas, power plants, military, heavy construction, and manufacturing industries.

Safety Factor 6:1

Minimum safety factor of its working load

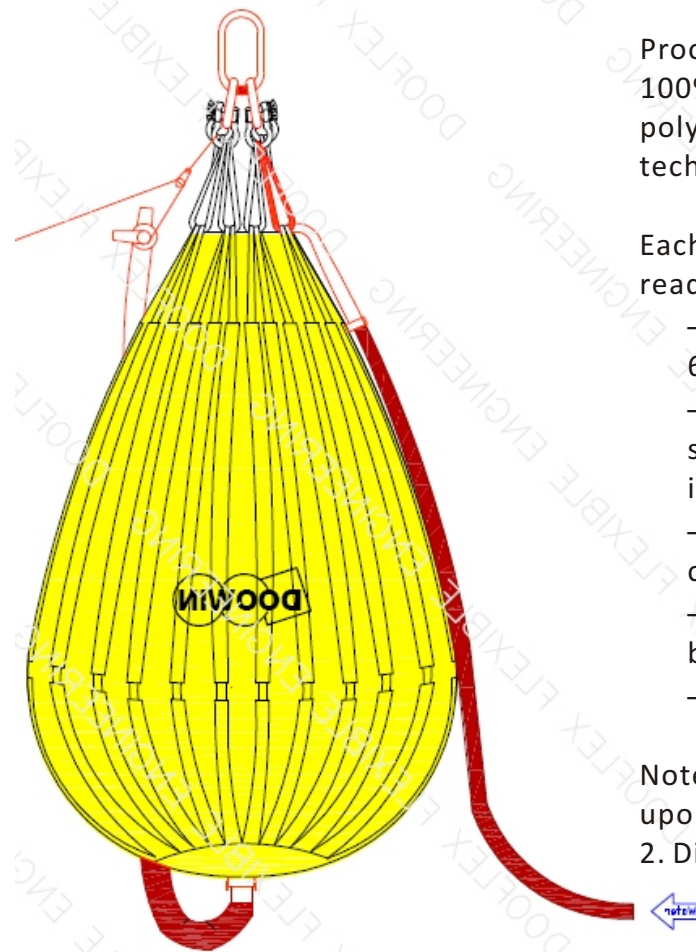
Assembly and Structure

Proof load testing water bag's body is made from 100% high-tenacity UV resistance PVC coated polyester fabric by radio frequency welding technology.

Each set proof load testing water bags comes ready with following accessories certificated:

- Master link and shackles, with a minimum 6:1 safety factor for its working load
- Polyester webbing lifting straps, round slings, with a minimum 6:1 safety factor for its working load
- Filling and drain hose with valves and camlock
- Several handles welded around the water bag body
- The marine rope with pulleys

Note: 1. Load cell and shackles can be supplied upon request.
2. Different capacity have different assembly.



Specification

A wide range of sizes of load testing water bags is available. The main size of water weight bags is from 1 ton to 50 ton. Many water bags can be used together to load testing over 50 ton with the different combination.

Model	Capacity (kg)	Diameter (m)	Height (m)
PLB-1	1000	1.3	2.2
PLB-2	2000	1.6	3.0
PLB-3	3000	2.0	3.6
PLB-5	5000	2.2	3.8
PLB-10	10,000	2.6	5.6
PLB-125	12,500	2.8	5.6
PLB-15	15,000	3.0	5.8
PLB-20	20,000	3.5	6.2
PLB-25	25,000	3.6	6.4
PLB-30	30,000	4.0	7.0
PLB-35	35,000	4.2	7.3
PLB-50	50000	4.4	7.8

Note: Other size can be supplied upon request.

Low headroom water bags have different size. Please refer next page.

Application

DooFlex water bags can be used for the loading test for the industrial customers in the oil & gas, maritime, power generation, manufacturing, heavy construction, ship building & repair, military and heavy manufacturing industries.

Marine and Offshore

- Shipboard/Deck Cranes
- Provisions Cranes
- Offshore Cranes
- Lifeboat Davits
- Gangways & Stairways
- Overhead Cranes
- Drilling Derricks
- Equipment Structures
- Loading Frames
- Winches
- Pad Eyes

Industrial

- Overhead Cranes
- Gantries
- Beams
- Monorails

Heavy Construction

- Site Cranes
- Steel Work & Frames
- Elevators
- Platform
- Ramps

Optional: Air inflatable test plug to facilitate the cleaning and visual inspection after use.



Low Headroom Load Testing Water Bags

DooFlex Flexible Engineering aims to be the best partner of load testing with advanced production technology and safety focus.

Low headroom load testing water bags designed for the load testing for the lifting equipments and structures when testing operation have low headroom (LH). It also can be used as an fluid storage container for emergency use.

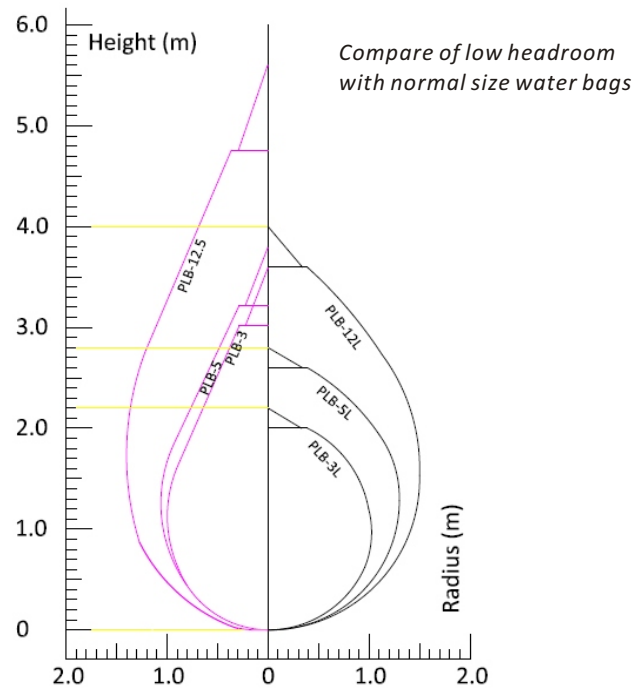
Working Height 4 m

Of 12 ton low headroom water bags 2t and 5t have lower working height

Specification

The main capacity is from 1 ton to 12 ton.

Model	Capacity (kg)	Diameter (m)	Length (m)
PLB-3L	3,000	2.1	2.2
PLB-5L	5,000	2.7	2.8
PLB-12L	12,000	3.0	4.2



Assembly and Structure

Low headroom load testing water bag has the same assembly with the normal size water bags. Its body is made from 100% high-tenacity UV resistance PVC coated polyester fabric by radio frequency welding technology.

Master link and shackles, polyester webbing lifting straps, round slings with a minimum 6:1 safety factor for its working load.



Load Cell

Load cell is necessary instrument for the load testing with water filled weight bags. Measuring capacity is available as 2t, 5t, 10t, 20t, 30t, 50t, 100t, and 200t.



Wireless load cell used for the weight measuring of proof load testing using water weight bags. The load cell set consist of a load link with two shackles, wireless readout, and high quality carry case.

Our load cell is an extremely well-built instrument for industry use, as a standard wireless tool offer universal applications, whether used as conventional crane weight or to measure force, it is microprocessor controlled for precision accuracy, calibration is easier with wireless indicator.

Technical Data

Measuring Capacity	2t, 5t, 10t, 20t, 30t, 50t, 100t, 200t
Display:	18mm 6digits LCD
Power On Zero Range:	20% F.S.
Manual Zero Range:	4% F.S.
Tare Range:	20% F.S.
Stable Time:	<= 10 seconds
Overload Indication:	100% F.S. +9e
Max. Safety Load:	125% F.S.
Ultimate Load:	400% F.S.
Battery Life:	>= 40 hours
Battery Type:	"LR6(AA)" size alkaline batteries. 1.5V x 3
Operating Temp.:	- 10°C ~ + 40°C
Operating Humidity:	<= 85% RH under 20°C
Wireless Distance:	Min. 80m [200m(optional)]
Wireless Frequency:	2.4GHz(default),433MHz,860MHz(optional)

All load testing water bags are manufactured in accordance with ISO 9001:2008 Quality Management Standard. BV third party certificate is available upon request.

