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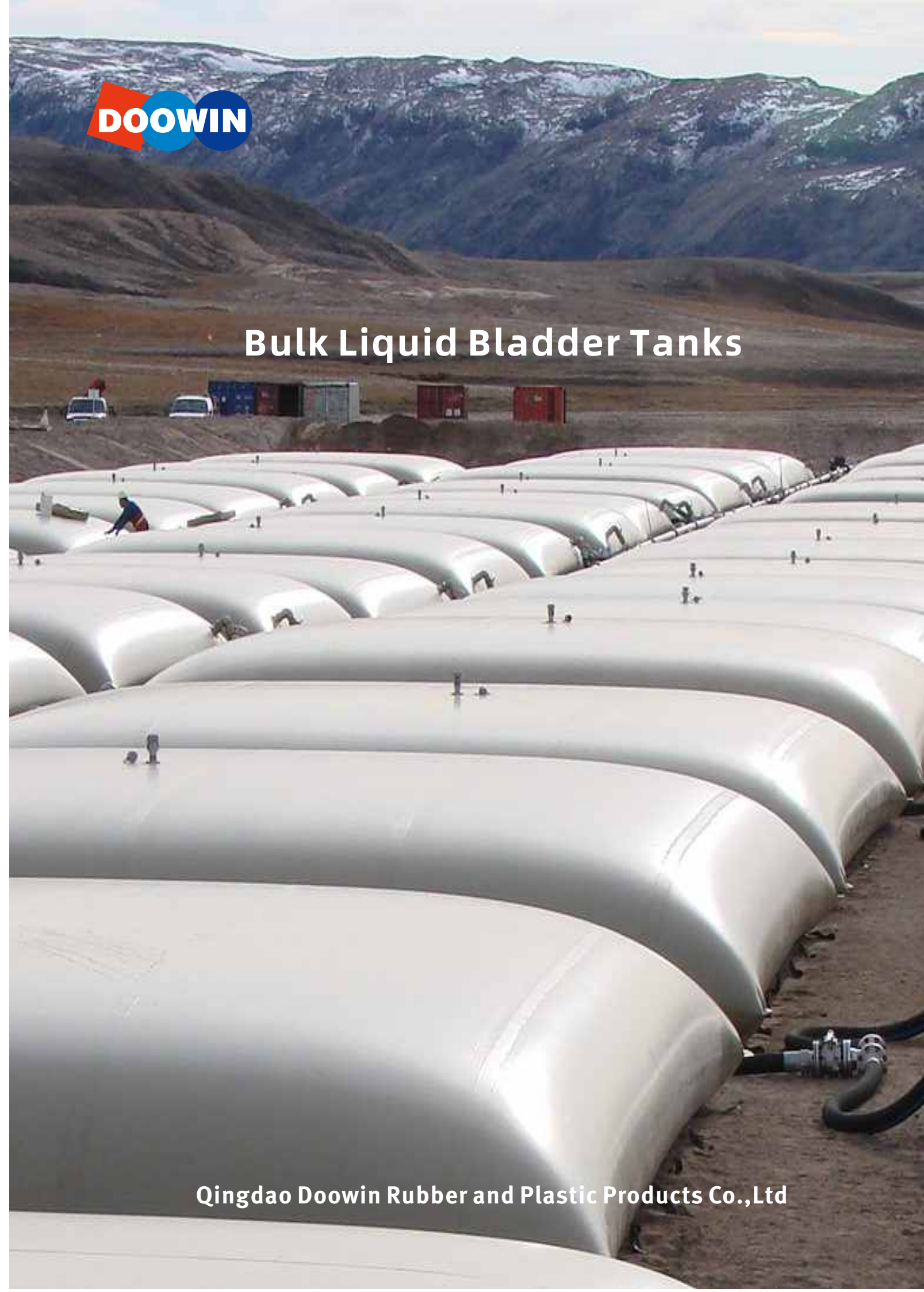
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Bulk Liquid Bladder Tanks



Qingdao Doowin Rubber and Plastic Products Co.,Ltd

Who we are



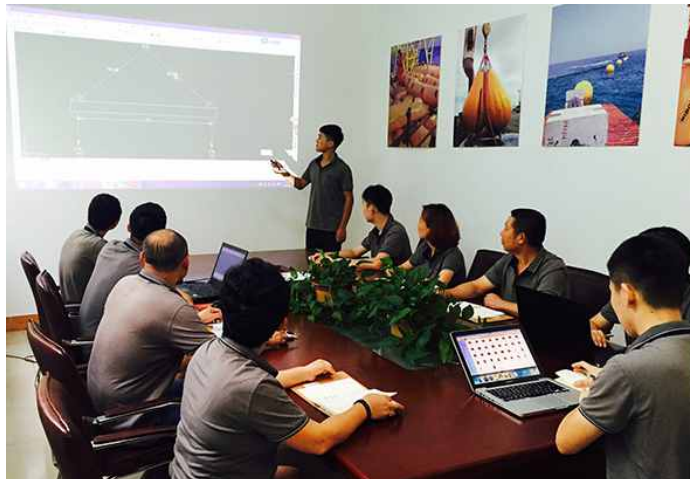
DOOWIN is Chinese leading manufacturer of load test water bags, underwater air lifting bags, bulk liquid storage bladder tanks.

DOOWIN is Chinese unique professional manufacturer of underwater air lifting bags and buoyancy bags. Our air lifting bags are used for the marine salvage, buoyancy support, pipeline laying. All DOOWIN air lift bags are fully compliant with IMCA-D-016.

DOOWIN water filled weight bags are manufactured and tested in compliance with the requirements of LEAA 051. We can make the world's biggest capacity water bags 100t. We also can make customized size water bags.

DOOWIN started from 2011. Our engineers and consultants have been in fabrication and use these products for more than 30 year's experienced in this industry. DOOWIN stock many air lift bags and water bags, to provide rental service for all over world customers. We also design and contract the proof load testing services.

DOOWIN equip the modern production machine, use the market-leading material, advanced production technology to manufacture highest quality products. Our products are manufactured under the control of ISO 9001 Quality Management System, type certificated by drop test with 6:1 safety factor, approved by the third party SGS, CCS, BV, ABS, LR.



COOPERATIVE CUSTOMER



Production Process



CNC Cutting Material

1



High Frequency Welding

2



Air Tightness Inspection

3



Accessories Assembly

4



Proof Load Testing

5



Package

6

Non-potable Water Bladder Tanks



Flexible Collapsible Bladder Tanks

DOOWIN non-potable water bladder tanks are one economical storage solution for emergency or long time water storage. Our water bladder tanks are made of specially designed PVC or TPU coating fabric. These collapsible water pillow tanks can be used to store various non-potable water, such as gray water, service water, black water, wastewater, production fluids, brine, and various other type waters. Collapsible water bladder can be folded flat for easy storage and shipment, and easy to fill and drain.

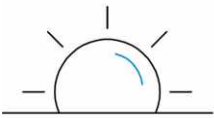
Non-potable water tanks are designed with several different materials to match different water types needing to be stored for recreational facilities, mining, industrial facilities, municipal, military, construction site, and other application.

Common Application

- Agricultural water storage
- Rainwater storage
- Fire fighting water storage
- Gray water storage
- Service water storage
- Liquid manure storage
- Black water storage
- Waste water storage
- Brine water storage
- Process water storage
- Production water storage
- Fracking water storage
- Discharge storage
- Oil field water storage
- Military application
- Liquid Fertilizer Storage

Features and Advantages

- Low profile when filled
- Flat when empty
- Heavy-duty PVC coating fabric
- SGS certificated material
- All seams are HF welded
- UV resistant, oil resistant
- Top notch UV resistance
- Excellent abrasion properties
- Light weight, High strength
- Easy to storage and shipment
- Easy to setup and operate
- Wide range of use
- Wide range capacities up to 800 m3
- Customized shape and size available
- Various filling/discharge fittings
- Various color for choose



UV
Resistance



Fire
Resistance



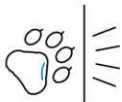
Tear
Resistance



High & Low
Temperature



Chemical
Resistance



Abrasion
Resistance

Non-Potable Water Storage Pillow Tank Material

High-Strength Polyester Fabrics with High-Quality Special Coatings!

DOOWIN has wide range material to accommodate different fluid storage. Our fabric is extremely robust material. Due to high-strength polyester base fabric, our material is ideal for the storage and transportation of various non-portable. With the tensile strength of up to 10,000N/5cm (1980g/m2), our fabric can also be used for large containers that exposed to very harsh environment.

Between the outer UV resistant coating and special inner coating options, these flexible container are the ideal solutions for non-portable water storage.

- High-performance storage pillow tank can only be created with specialized expertise and continuous development. We choose the best fabric manufacturer with high quality special coating to ensure tanks can be used for long time.

► Standard Color: Sand Color, Yellow Color, other colors are available upon request.
- High-performance storage pillow tank can only be created with specialized expertise and continuous development. We choose the best fabric manufacturer with high quality special coating to ensure tanks can be used for long time.

► Blow you will find typical three types standard material. Other materials are available upon request.

	NPW - 1100		NPW - 1400		NPW – 1700	
Coating	PVC		PVC		PVC	
Weight	1100 g/m ²	32 oz/yd ²	1400 g/m ²	41 oz/yd ²	1770 g/m ²	52 oz/yd ²
Tensile Strength	4400 N/5cm	502lbs/inch	5500 N/5cm	628lbs/inch	6200 N/5cm	730lbs/inch
Adhesion	> 120 N/5cm	> 12 lbs/inch	> 120 N/5cm	> 12 lbs/inch	> 120 N/5cm	> 12 lbs/inch
Temperature	-40℃ ~ +70℃		-40℃ ~ +70℃		-40℃ ~ +70℃	
Thickness (Appr.)	1.0±0.2 mm		1.2±0.2 mm		1.4±0.2mm	
Standard	DIN EN / DINE EN ISO / DIN		DIN EN / DINE EN ISO / DIN		DIN EN / DINE EN ISO / DIN	

** The above parameter is only for reference. We may change it according to the technical update.*



Potable Water Bladder Tanks



Certificated Quality for Potable Water Tanks NSF/ANSI-61 Compliant

Collapsible potable water tanks are the most economical and the most simply storage way for the potable drinking water in desert, industrial, commercial, and residential areas. DOOWIN collapsible pillow tanks for drinking water are constructed from the top grade fabric material, which is certificated comply with NSF standard. Collapsible potable water storage tanks are low profile and can be customized to meet the space requirement. These potable water storage pillow tanks can be folded easily for storage and shipment.

The potable water tanks are extremely versatile and can be unrolled and used on any area of flat ground that has been cleared of debris, they require no special tools for installation, and are easily emptied and packed for storage when not in use.

Drinking water is our most vital commodity. We have to ensure the quality of the drinking water that stored in our pillow tanks cannot be affected by contact with other material.

DOOWIN use the top grade fabric for the potable water tanks made in Germany. These fabric material are certificated with the American NSF/ANSI 61, KTW, ACS or FDA standards. So you can be assured that our portable water storage tank does not pose any risk of contamination to drinking water.



We have below two common material used for potable water tanks.

► PVC Coating - Made-in-Germany

Comply with NSF/ANSI 61, KTW, ACS potable water standards, no taste or odor.

- Weight: 1100g/m²
- Tensile Strength: 4000/4000 N/5cm
- Tear Resistance: 550/500 N



► TPU Coating Fabric - Made-in-China

Special designed with polyether coating for potable drink water. Below performance is only for your refer.

- Thickness: 1.2mm
- Weight: 1400g/m²
- Tensile Strength: 5500/5000 N/5cm
- Tear Resistance: 700/700 N

The above is not for all tanks. Different strength material is available upon request.

Fuel Bladder Tanks



DOOWIN collapsible fuel bladder tanks, known as fuel bladders, are ideal easy fuel storage solution. The collapsible fuel bladder tanks are flat when empty and low profile after filled with fuel. We have small fuel tanks for the easy handle and large durable fuel containers for long-term storage. The biggest capacity can reach 800,000L.

These collapsible fuel bladder tanks are constructed using the supreme heavy-duty TPU coating fabric. The best TPU coating fabrics satisfy the highest demands for store heavy chemical liquid due to their excellent material properties. DOOWIN fuel bladder tanks are built to withstand extreme conditions and provide the highest level of reliability.

Our collapsible marine fuel bladders are made of high-quality TPU coating fabric material allow for oil or fuel long-term storage due to their excellent material properties. For long-term storage applications, built to withstand extreme conditions and provide the highest level of reliability.

You also can advise us the time of use, desired chemical resistance and expected mechanical stress. We will make the products meet your requirements.

Important Notice: Please don't always focus on the strength and thickness of fabric material. It is only is one side of good material. The most important point is the PVC/TPU coating formula. It can ensure the material have best UV resistance, oil resistance, abrasion resistance, fire resistance, and other performance.

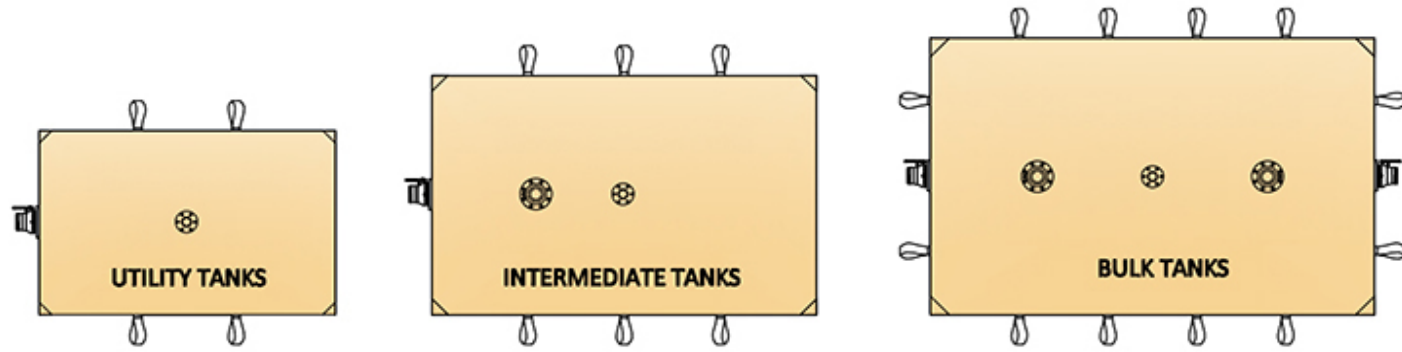
► DOOWIN marine fuel bladders meet the highest quality demands.

- Excellent abrasion properties
- Supreme oil-resistance
- Top notch UV resistance
- Superb fire-resistance
- Cold resistance to -70 degree centigrade
- Ideal for long-term storage
- Reliable and proven material

► Customized Marine Fuel Bladder Tanks



Pillow Bladder Tank's Specification



Below you will find typical sizing and specifications potable water pillow tanks. Dimensions listed below will feature the approximate filled dimensions on each storage tank. Due to the flexible fabrics used on the tanks, additional sizes are also available including options for crawl spaces, basements and other smaller storage areas.

Grade	Model	Capacity		Empty Dimension		Filled Height
		(L)	(us gal)	Length	Width	
UTILITY	PT-02	200	52.83442	1.3m	1.0m	0.2m
	PT-04	400	105.66884	1.6m	1.3m	0.3m
	PT-06	600	158.50326	2.0m	1.3m	0.4m
	PT-08	800	211.33768	2.4m	1.5m	0.4m
	PT-1	1,000	264.1721	2.7m	1.5m	0.5m
	PT-2	2,000	528.3442	2.8m	2.3m	0.5m
	PT-3	3,000	792.5163	3.4m	2.4m	0.5m
INTERMEDIATE	PT-5	5,000	1320.8605	3.6m	3.4m	0.6m
	PT-6	6,000	1585.0326	3.9m	3.4m	0.7m
	PT-8	8,000	2113.3768	4.3m	3.7m	0.8m
	PT-10	10,000	2641.721	4.5m	4.0m	0.9m
	PT-12	12,000	3170.0652	4.7m	4.5m	1.0m
	PT-15	15,000	3962.5815	5.2m	4.5m	1.1m
	PT-20	20,000	5283.442	5.7m	5.2m	1.1m
	PT-30	30,000	7925.163	6.0m	5.9m	1.3m
	PT-50	50,000	13208.605	7.2m	6.8m	1.4m
	PT-60	60,000	15850.326	7.5m	7.5m	1.4m
BULK	PT-80	80,000	21133.768	9.4m	7.5m	1.5m
	PT-100	100,000	26417.21	11.5m	7.5m	1.6m
	PT-150	150,000	39625.815	17.0m	7.5m	1.6m
	PT-200	200,000	52834.42	20.5m	7.5m	1.7m
	PT-300	300,000	79251.63	25.0m	9.0m	1.7m
	PT-400	400,000	105668.84	26.5m	11m	1.8m
	PT-500	500,000	132086.05	21.0m	16.0m	1.9m

Pillow Bladder Tank's Construction

- ▶ **Inlet Fittings:** The standard filling fitting is 2", 3" and 4" high quality PP flange with cam-lock with one safety cap.
- ▶ **Outlet Fittings:** The standard filling fitting is 2", 3" and 4" high quality PP flange with cam-lock with one safety cap.
- ▶ **Other Material:** Aluminum or stainless steel flange, cam-lock with SS 316 ball valves are available upon request.
- ▶ **Optional:** Ground sheet can protect your pillow tanks. It will be supplied upon request.

FOOD GRADE VALVE		
Description	3" Ball Valve	3" Butterfly Valve
Valve Material	Polypropylene	PP & Steel
Valve Pressure	≥ 0.5Mpa	≥ 0.5Mpa
Securing Locking System	Threaded selflocking Plug and Securing Cap	Threaded self-locking Plug and Securing Cap



Butterfly Valve



Ball Valve



Air Bleed



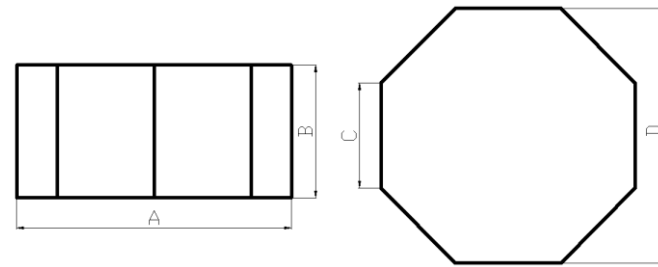
Portable Fire Fighting Water Tank

Fire fighting water tanks provide fire fighters with needed water in remote locations, forest, or rural areas where the demand for water can exceed the available municipal water supply.

Manufactured with a folding open-top design, these frame water tanks provide quick set up and easy access to the interior of the tank. This style is ideal for firefighters and first responders looking to keep large supplies of water on hand in rural or remote locations. Fire hoses can be placed directly into the top for fast filling. Collapsible fire fighting portable water tanks can be used to source pumps and other firefighting equipment. Water trucks have time to refill the portable water tanks while firefighting efforts are still underway.

Best of all, each frame water tank will fold up when empty for easy transportation or storage. Whether you need a quick response unit or a water storage tank, these portable water tanks are an easy way to store and access water.

The portable frame fire fighting water tanks are constructed with high-quality PVC water tank, with aluminum structure and quick connector. Any nuts, bolts and other fitting are made of stainless steel.



Model	Capacity	A	B	C	D
ST-1000	1,000L	1300	950	500	1200
ST-2000	2,000L	2000	950	765	1850
ST-3000	3,000L	2200	950	840	2030
ST-5000	5,000L	2800	950	1070	2600
ST-8000	8,000L	3800	950	1455	3510
ST-10000	10,000L	4000	950	1530	3690
ST-12000	12,000L	4300	950	1650	3970

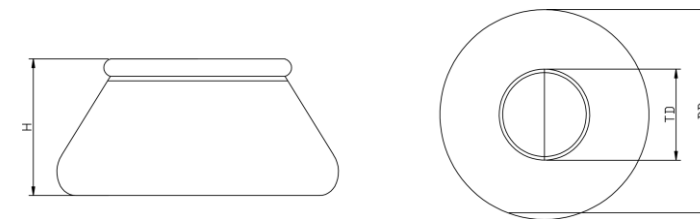


Onion Bladder Tanks

DOOWIN onion water tank is circular shaped low profile self-supporting open top bladders used for water storage, firefighting, and disaster relief efforts. The self-rising floating collar is made of either closed cell foam or air-filled.

Collapsible onion water tank is a flexible open-top storage tank popular with military and fire fighting applications. The onion water tank can be moved easily and quickly deployed on site making them an ideal solution for short term storage of potable and non-potable water. In remote areas these tanks are designed for standby water containment, water shuttling situations and provide a continuous portable water supply. The onion water tank also can be used for temporary or long term storage of oil, sewage, chemical spillage waste, and other liquids.

We produce this collapsible onion water storage tanks with heavy duty special application PVC/TPU coating fabric, which can be used in many different environments for bulk liquid storage and transportation. The raw material is certificated by SGS.



Features and Advantages:

- Self-supporting flotation collar
- Top cover is available
- Handles on the outside for easy lifting
- Two 3" fill/drain ports
- Flange and abrasion covers protect the drain ports
- Can be easily folded
- Deployment anywhere
- Various material for non-potable water, drinking water, fuel and chemical

Model	Capacity		Outside Diameter		Collar Diameter		Height	
	US Gal	Liters	feet	meters	feet	meters	feet	meters
OTT-500	500	1,883	7.6	2.5	4.7	1.6	3.2	1.0
OTT-1000	1,000	3,785	10.0	3.3	5.8	1.9	3.2	1.0
OTT-1500	1,500	5,700	12.0	4.0	8.0	2.7	3.2	1.0
OTT-2000	2,000	7,600	12.5	4.2	9.0	3.0	3.2	1.0
OTT-2500	2,500	9,500	15.0	5.0	10.6	3.5	3.2	1.0
OTT-3000	3,000	11,365	16.0	5.3	12.0	4.0	3.2	1.0
OTT-3500	3,500	13,249	14.7	4.9	11.5	3.8	3.9	1.2
OTT-4000	4,000	15,141	18.0	6.0	14.3	4.8	4.0	1.2
OTT-5000	5,000	18,927	18.0	6.0	12.5	4.2	4.0	1.2
OTT-6000	6,000	22,712	19.0	6.3	14.0	4.7	4.0	1.2
OTT-7500	7,500	28,390	20.0	6.7	15.0	5.0	4.0	1.2
OTT-10,000	10,000	37,854	23.0	7.7	13.0	4.3	5.0	1.5
OTT-12,500	12,500	47,317	27.0	9.0	14.0	4.7	5.0	1.9
OTT-15,000	15,000	56,781	25.0	8.3	19.0	6.3	5.5	1.7
OTT-20,000	20,000	75,708	31.0	10.3	23.3	7.8	5.5	1.7
OTT-25,000	25,000	94,635	37.0	12.3	23.3	7.8	5.5	1.7

Customized Bladder Tanks



Container Bladder Tanks



Frame Collapsible Tanks



Cube Shape Bladder Tanks



Pillow Truck Tanks



Quality Assurance

The commitment to quality is our top priority. DOOWIN aims at a high and constant level of quality. The quality assurance systems of DOOWIN have been approved by international organization in accordance with Quality Management System ISO 9001 : 2008.



ISO 9001:2008 Certificate



SGS Material Certificate



BV Third Party Certificate



HF Welding Technology

Our bladder tanks use HF welding technology. The HF welding seams have better tensile strength than the hot-air welding seams. It has more stable performance, not easy to separate for long term storage.



Hot-Air Welding Technology

Hot-air welding technology is widely used by many makers. We also use this traditional hot-air welding technology for some water tanks.