DIKOMARINE BLADDERLESS HYDROPHORE PRESSURE TANKS

Hydrophore pressure tanks are vessels that hold water and air under pressure.

The function that pressure tank performs is to supply water to the system in booster pump applications. It can provide water to the system during of a no flow shutdown of the booster pump.

It also regulates the system pressure to quickly meet system demands. The compressed air creates a cushion that can absorb or apply pressure as needed.

DIKO Hydrophore pressure tanks are manufactured at various volume capacities ranging from 280 liters to 5000 liters as standard production. Larger capacities are available upon customers' request. The standard materials used for the construction are hot dipped galvanized steel or AISI 304L stainless steels. 316L or Duplex quality stainless steels are available upon request.

Tanks are designed according to , EN 13445, AD 2000 – Merkblatt. If required tank designs according to ASME Section VIII Div1 code are available. ASME U Stamp tanks can be provided if required.

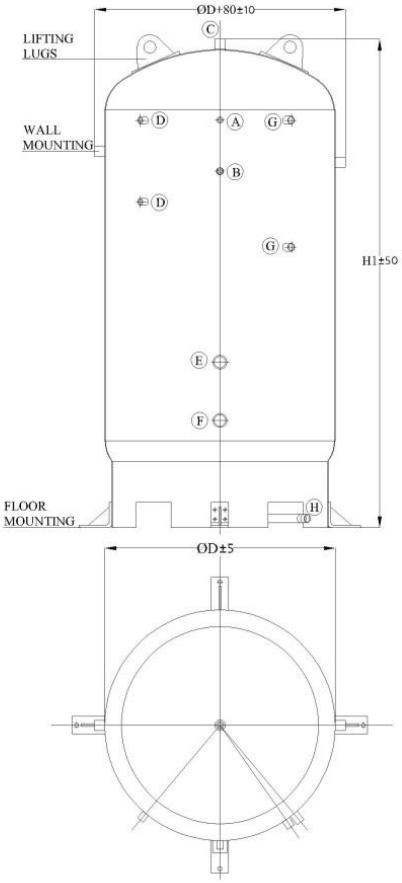
Inspection certificates can be provided from any IACS member classification societies upon request.

As an option passivation and pickling processes are applied to the tanks in order to increase the corrosion resistance of the tank material.

OPTIONAL FEATURES:

The standard supply of the tanks do not contain any accessories. The accessories listed down below can be provided as optional upon request.

- Air Supply Valve
- Drain Valve
- Pressure Gauge
- Level Indicator
- Pressure Switch for Pump Operation
- Pressure Safety Relief Valve
- David for Manhole



WORKING PRESSURE	6BAR
DESIGN PRESSURE	7BAR
TEST PRESSURE	12BAR
MATERIAL	ASTM 316L

ØD	500	640	750	900	1100	1200	1555	1600	1700	1750
H1	1650	1847	2006	1903	2090	2334	2056	2054	2310	2637
LITERS	280	500	750	1000	1500	2000	2500	3000	4000	5000

NOZZLE	DESCRIPTION		THREAD-BSP								
A	MANOMETER	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
B	PRESSURE RELIEF VALVE	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
C	AIR INLET	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
D	PRESSURE SWITCH	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
E	HYDROPHORE OUTLET	1.1/4"	1.1/4"	1.1/2"	1.1/2"	2"	2"	3"	3"	3"	3"
F	HYDROPHORE INLET	1.1/4"	1.1/4"	1.1/2"	1.1/2"	2"	2"	3"	3"	3"	3"
G	LEVEL INDICATOR	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
H	DRAIN VALVE	1/2"	1/2"	1"	1"	1"	1"	1"	1"	1"	1"
LITERS		280	500	750	1000	1500	2000	2500	3000	4000	5000

Dimensional Information
(with 7 bar max.pressure)

MODEL NUMBER	Capacity (liter)	Diameter (mm)	Height (mm)	Manhole or Handhole	Material
DHT280	280	Ø500	1650	handhole	AISI 316L or Hot Dip Galvanized
DHT500	500	Ø640	1847	handhole	AISI 316L or Hot Dip Galvanized
DHT750	750	Ø750	2006	handhole	AISI 316L or Hot Dip Galvanized
DHT1000	1000	Ø900	1903	DN500 manhole	AISI 316L or Hot Dip Galvanized
DHT1500	1500	Ø1100	2090	DN500 manhole	AISI 316L or Hot Dip Galvanized
DHT2000	2000	Ø1200	2334	DN500 manhole	AISI 316L
DHT2500	2500	Ø1555	2056	DN500 manhole	AISI 316L
DHT3000	3000	Ø1600	2054	DN500 manhole	AISI 316L
DHT4000	4000	Ø1700	2310	DN500 manhole	AISI 316L
DHT5000	5000	Ø1750	2637	DN500 manhole	AISI 316L

The dimensions given are subject to change without prior notice.

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START UP INSTRUCTIONS

1- Turn the shut off valve on the water outlet to close position.
2- Be sure that the valve on the air inlet pipe on top of hydrophore pressure tank are in close position.
3- Choose one of two hydrophore pumps for operation through the selection switch on the control panel and turn the valves on the inlet and outlet of the chosen pump to open position.
4- Be sure that the valves at the inlet and outlet of the non-chosen pump are in close position.
5- Start the chosen pump by pressing the start button on the control panel. Observe the level guage on the tank and let the pump run until the two third of the tank is filled up by water then stop the pump.
6- Observe the pressure guage on the tank to see if the maximum operating pressure (pump cut-out pressure) of the hydrophore system is reached.
7- If the max. pressure is not reached, connect the air inlet pipe on top of the tank to a compressed air source, turn the valve to open position and let the air to enter the tank until the max. pressure is reached by observing the pressure guage.
8- After reaching the max.operating pressure close the air inlet valve and turn the water outlet valve to open position to supply water to the system.