



# 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 or shutdown state of the booster pump.

It also regulates the system pressure to quickly meets system demands. The compressed air creates a cushion that can 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 13445-3. If required tank designs according to ASME Section VIII Div.1 code are available. ASME U Stamp tanks can be provided if required.

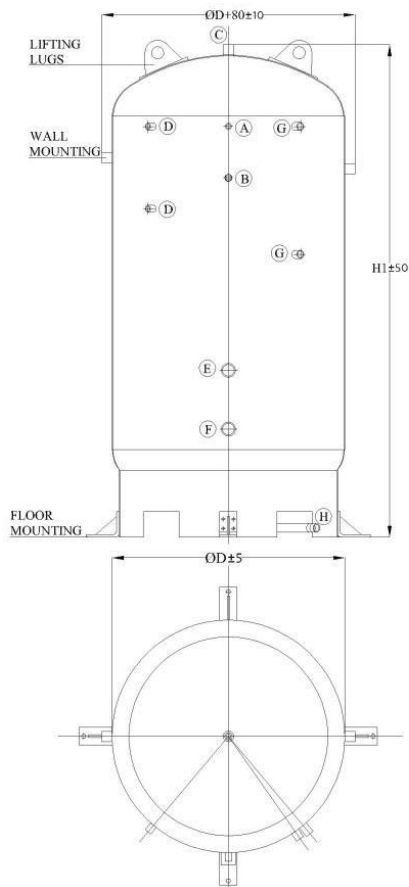
Inspection certificates can be provided from any IACS member classification societies upon request.

Tank 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



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

NOOZLE	DESCRIPTION	THEADED-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

Dimensions may change according to your request.



## DIKOMARINE BLADDERLESS HYDROPHORE PRESSURE TANKS 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 gauge 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 gauge 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 gauge.
- 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.