

















Pressure Tank

FOR HEATING, COOLING, AND PRESSURIZING SYSTEM

ATTRIBUTE

BAUMAN pressure tank is the best choice for irrigation pump, centrifugal pump, submersible pump and booster pump set. It is a solution of water pressure since tank keeps pressure in the system constantly, minimize pump starts and reduces energy consumption. Furthermore, it can decrease damage from water hammer when pump starts up at any time.

• EPDM membrane is suitable for general use.

FEATURES

TOUGH BUT ECONOMICAL - Thanks to the replaceable membrane, the tank will not be damaged by inner rust and has practically unlimited life. Customer will save money from vessel replacement.

WORLD CLASS PRODUCTION - With the top steel quality and MIG-welded technique, carbon steel tank body has no interior rough spots or sharps edges to damage membrane. Tanks have long life use cycle.

CHOICE IS YOURS - Galvanized or stainless steel flanges can be selected based on application.

EASY USE - Tanks are installed with pressure gauge to monitor air pressure inside. Users can easily check if it is time to put the air in.

VARIETY RANGE - Factory can provide wide range, either vertical type or horizontal type.

CE APPROVED - All tanks are certified according to CE standard and under the qualified production line of ISO-9001.

10 BAR HORIZONTAL PRESSURE TANK SERIES



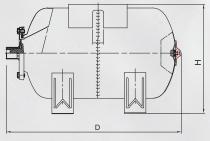
Pressure tank with replaceable membrane for booster set				
CE marked according to Directive	PED 2014 / 68 / EU			
Maximum working pressure	10 BAR			
Standart pre-set pressure	2 BAR			
Working temperature	0 °C - 90 °C			
Membrane type	EPDM			

• H series

Technical Specifications of Pressure Tanks Horizontal 10 Bar

Model Modello	Capacity Capacità (Itr)	Diameter <mark>Diametro</mark> (mm)	Height <mark>Altezza</mark> (mm)	Connection Raccordo (inch)	Stand Cavelletto
H24-W	24	280	470	1"	Yes
H50-W	50	380	620		
H60-W	60	380	700		
H80-W	80	425	790		
H100-W	100	460	800		



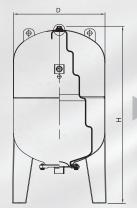






Pressure tank with replaceat	ole membrane for booster set
CE marked asserting to Directive	DED 2014 / 69 / EU

CE marked according to Directive	PED 2014 / 68 / EU
Maximum working pressure	10 BAR
Standart pre-set pressure	4 BAR
Working temperature	0 °C - 90 °C
Membrane type	EPDM





V series

Technical Specifications of Pressure Tanks Vertical 10 Bar

Model Modello	Capacity Capacità (Itr)	Diameter Diametro (mm)	Height Altezza (mm)	Connection Raccordo (inch)	Stand Cavelletto	Manometer Manómetro
V50-W	50	380	720	1"		
V60-W	60	380	810	1"		No
V80-W	80	425	960	1"		
V100-W	100	460	980	1"		
V150-W	150	508	1100	1"		
V200-W	200	585	1090	1-1/4"		
V300-W	300	635	1230	1-1/4"		Yes
V500-W	500	750	1500	1-1/4"		
V750-W	750	800	1850	2"	Yes	
V900-W	900	800	1950	2"		
V1000-W	1000	800	2180	2"		
V1250-W	1250	958	2220	2"		
V1500-W	1500	958	2380	2"		
V2000-W	2000	1100	2520	2"		
V2500-W	2500	1200	2500	2"		
V3000-W	3000	1200	2800	2-1/2"		
V4000-W	4000	1500	2940	3"		
V5000-W	5000	1500	3600	3"		
V10000-W	10000	1600	6100	DN 100		

Membrane Tipo Membrana	Application Utilizzo
EPDM	Potable or Non-Potable Water sia con acqua potabile che non potabile
Butyl Butile	Potable or Non-Potable Water sia con acqua potabile che non potabile
S.B.R.	Non-Potable Water Only solo acqua non potabile
Nitril Nitrile	Oil Application per usi con olio

Note: Butyl is less permeable than EPDM

OPTIONAL ACCESSORIES

ACCESSORI A RICHIESTA







Air Valve

Pressure Gauge Manómetro

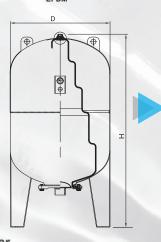
Replacement Flange Flangia Di Ricambio

16 BAR VERTICAL PRESSURE TANK SERIES



Pressure tank with replaceable membrane for booster set

CE marked according to Directive	PED 2014 / 68 / EU
Maximum working pressure	16 BAR
Standart pre-set pressure	4 BAR
Working temperature	0 °C - 90 °C
Membrane type	EPDM





• VH series Technical Specifications of Pressure Tanks Vertical 16 Bar

Model Modello	Capacity Capacità (ltr)	Diameter Diametro (mm)	Height Altezza (mm)	Connection Raccordo (inch)	Stand Cavelletto	Manometer Manómetro
VH8-W	8	220	320	1"		
VH12-W	12	220	410	1"		
VH19-W	19	280	430	1"		
VH24-W	24	280	512	1"		No
VH35-W	35	380	470	1"		110
VH50-W	50	380	750	1"		
VH60-W	60	380	810	1"		
VH80-W	80	425	960	1"		
VH100-W	100	460	990	1"		
VH150-W	150	508	1100	1"	Yes	
VH200-W	200	585	1120	1-1/4"	res	
VH300-W	300	635	1230	1-1/4"		
VH500-W	500	750	1550	1-1/4"		
VH750-W	750	800	1850	2"		
VH1000-W	1000	800	2180	2"		Yes
VH1250-W	1250	958	2220	2"		
VH1500-W	1500	958	2380	2"		
VH2000-W	2000	1100	2520	2"		
VH2500-W	2500	1200	2500	2"		
VH3000-W	3000	1200	2800	2-1/2"		
VH4000-W	4000	1500	2940	3"		
VH5000-W	5000	1500	3600	3"		
VH10000-W	10000	1600	6100	DN 100		

INSTRUCTIONS FOR THE VESSEL SELECTION

Recognizing the maximum absorption Amax (liters/min) and the water pump power, it calculate the water reserve needed as Vu=k (Amax) and, select equivalent tank volume (Vt).

The formula for the calculation is : Vt = K (Amax) $\frac{(Pmax+1) (Pmini + 1)}{(Pmax-Pmin) (Pprec+1)}$

(Pmax+1) (Pmin+1)

Vt = Vessel Volume (liters)

Amax = Maximum Absorption (liters/min)

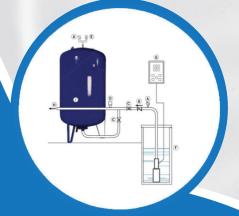
Pmin = Minimum pressure for the pump starts (bar)

Pmax = Maximum pressure for the pump stops (bar)

Pprec = Pre-charge Pressure (bar)

K = Coeffcient regarding the pump power (P), please see table below

P(hp)	1-2	2.5-4	5-8	9-12
К	0.25	0.375	0.625	0.875



Remark Ppre is 1.3 because the Pre-charge pressure must set 0.2 bars less than the pump starting pressure (Pmin)