Pressure tanks

Pressure Tanks with Membrane

20 to 1,000 L · 5 to 8 bar

Vertical and horizontal AISI 304 stainless steel tanks with replaceable EPDM membrane.



FT-RES-MEM · Rev. 1

Pressure tanks for water abstraction, pressure boosting and distribution systems. The membrane separates water from air and can be replaced during servicing.

Applications

- Urban and rural water supply.
- Industrial processes and pressurization systems.
- Agricultural irrigation and gardens.
- Hydropneumatic systems.
- Domestic, agricultural, and industrial use.

Operating conditions

- The system must include a pressure-limiting safety device.
- Recommended periodic verification (biannually).
- Pre-charge: Check without water; adjust according to the label (+/- 20%).
- Do not drill or weld the tank.
- 3-year warranty against manufacturing defects.

Engineering note	Check the pre-charge with no water in the system. Periodic checks reduce the risk of premature membrane wear.
Complementary equipment	Replacement membranes · Pressure switches · Pressure gauges
Resources and support	Pump selection guide · JOVAL technical support
Contact	+351 253 490 740 · joval@joval.pt

Technical specifications

Applications

Material
Stainless Steel AISI 304 (1.4301)

Membrane
EPDM (Replaceable)

Max Temperature
0°C / +70°C

Maximum Pressure
5 bar / 6 bar / 8 bar

Pre-charge
2 bar

Standards
European Directive 2014/68/EU (Pressure Equipment)

- Urban and rural water supply.
- Industrial processes and pressurization systems.
- Agricultural irrigation and gardens.
- Hydropneumatic systems.
- Domestic, agricultural, and industrial use.

Materials

3 positions

Pos.	Description	Material
1	Body	Stainless Steel AISI 304 (1.4301)
2	Membrane	EPDM
3	Flange	Stainless Steel AISI 304 (1.4301)

Operating conditions

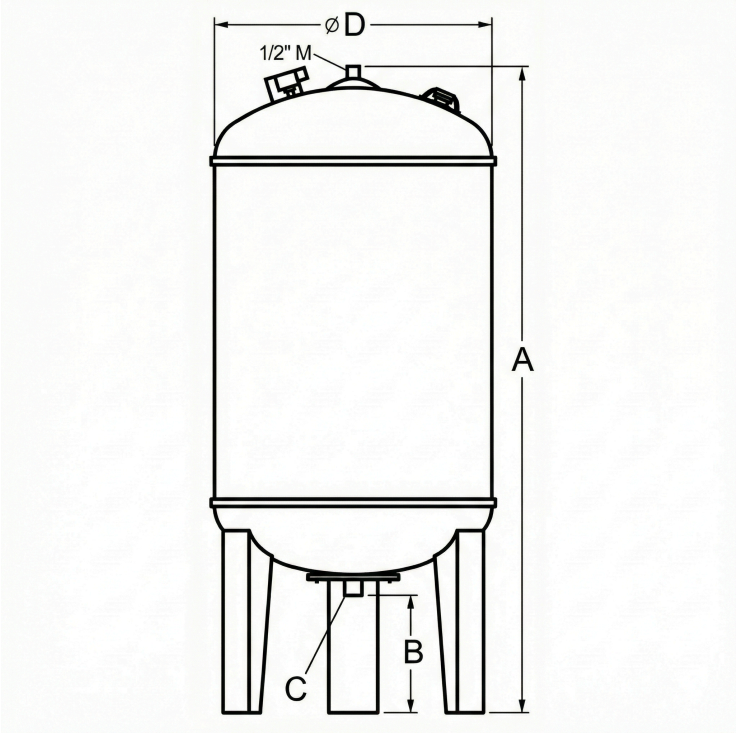
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Dimensions and Models · Vertical

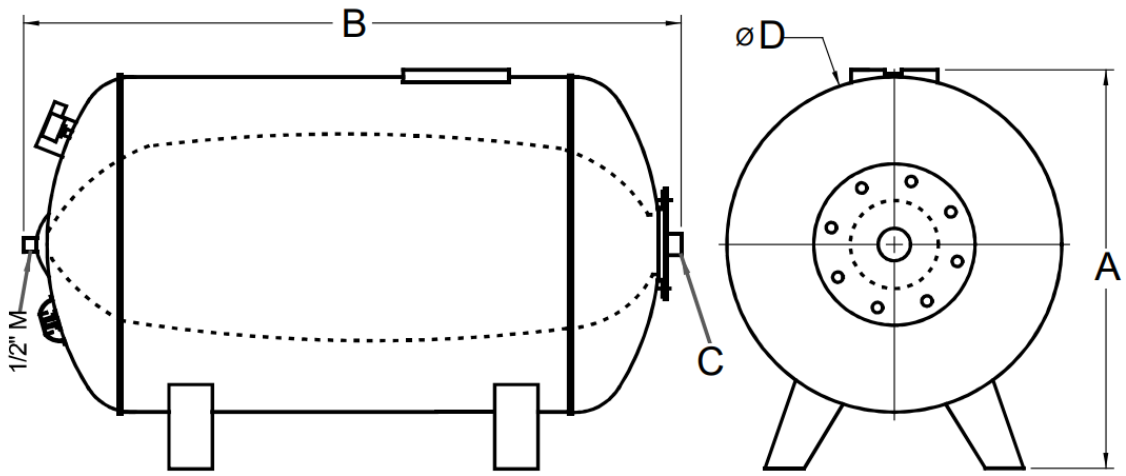
Dimensional diagram and models



Model	Capacity (L)	Maximum Pressure (Bar)	Diameter D (mm)	Height A (mm)	Connection height B (mm)	Inlet / outlet C (˝)
20 VIM	20	8	265	465		1˝
24 VIM	24	8	320	415		1˝
50 VIM	50	8	365	800	160	1˝
70 VIM	70	8	400	820	150	1˝
100 VIM	100	8	480	925	135	1˝
100 VIM *	100	8	480	930	135	1˝
200 VIM *	200	5 / 6 / 8	560	1285	185	1½˝
300 VIM *	300	5 / 6 / 8	640	1320	170	1½˝
500 VIM *	500	8	800	1470	160	1½˝
750 VIM *	750	8	800	1930	160	2˝
1000 VIM *	1000	8	930	1730	170	2˝

Dimensions and Models · Horizontal

Dimensional diagram and models



Model	Capacity (L)	Maximum Pressure (Bar)	Height A (mm)	Inlet / outlet C (mm)	Length B (mm)	Diameter D (mm)	Connection
20 HIM	20	8	290	130	420	265	1″
50 HIM	50	8	405	200	655	365	1″
70 HIM	70	8	440	215	660	400	1″
100 HIM	100	8	525	255	775	480	1″
200 HIM	200	5 / 6 / 8	670	355	1120	540	1½″
300 HIM	300	5 / 6 / 8	760	400	1170	635	1½″