

Standard pressure vessel BE01



Description:

Standard pressure vessels are used to store larger quantities of media under certain pressure limits. Thanks to included sockets, the container can be filled or emptied.

Features:

- suitable for media like compressed air and nitrogen (water and natural gas in request)
- directive DGRL 2014/68/EU – AD 2000 and certified according to DIN ISO 9001
- operating conditions according to AD 2000 – S1 (10/2000): 1000 starts and stops and 20% pressure fluctuation range possible
- longitudinal seams welded on both sides for safety with high pressure fluctuation range

volume:

50 litre – 10000 litre

design:

vertical or horizontal

pressure:

11 bar and 16 bar

temperature:

-20°C - +50°C
depending on design

hand hole & man hole closure:

50 – 90 litre: no hand hole
150 – 750 litre: 1 hand hole* (100 mm x 150 mm)
1000 – 3000 litre: 2 hand holes (100 mm x 150 mm)
4000 – 10000 litre: 1 man hole (320 mm x 420 mm)

temperature resistance:

50 – 90 litre: -10°C until +50°C
150 – 3000 litre: -20°C until +50°C
4000 – 10000 litre: -10°C until +50°C

material:

steel galvanized inside and outside
steel primed (inside raw)

pressure:

11 bar and 16 bar

advantages:

- longitudinal seams welded on both sides for safety with high pressure fluctuation range
- can be used for different media
- detailed technical documentation
- vessels can be operated safely in winter up to a temperature limit of -20°C

* Vertical vessels have a hand hole from 250 to litre

dimensions for vertical pressure vessel:

volume	Ø	height	weight - 11 bar version	weight - 16 bar version
50 litre	276 mm	1000 mm	25 kg	25 kg
90 litre	360 mm	1110 mm* / 1130 mm**	40 kg	40 kg
150 litre	450 mm	1165 mm	65 kg	80 kg
250 litre	500 mm	1565 mm	100 kg	120 kg
350 litre	550 mm	1785 mm	130 kg	150 kg
500 litre	600 mm	1935 mm	150 kg	180 kg
750 litre	750 mm	2005 mm	200 kg	275 kg
1000 litre	800 mm	2340 mm* / 2245 mm**	315 kg	390 kg
1500 litre	1000 mm	2200 mm* / 2250 mm**	400 kg	500 kg
2000 litre	1100 mm	2470 mm	500 kg	650 kg
3000 litre	1250 mm	2760 mm	660 kg	890 kg
4000 litre	1400 mm	3070 mm	890 kg	1200 kg
5000 litre	1400 mm	3680 mm	1050 kg	1430 kg
5000 litre	1600 mm	2950 mm	1090 kg	1450 kg
6000 litre	1600 mm	3450 mm	1200 kg	1660 kg
7000 litre	1600 mm	3950 mm	1390 kg	1880 kg
8000 litre	1600 mm	4450 mm	1530 kg	2100 kg
9000 litre	1600 mm	4950 mm	1680 kg	2320 kg
10000 litre	1600 mm	5450 mm	1880 kg	2540 kg
10000 litre	1800 mm	4530 mm	1920 kg	2645 kg
10000 litre	2000 mm	4110 mm	2040 kg	2855 kg

* Applies to pressure stage 11 bar

** Applies to pressure stage 16 bar

dimensions for horizontal pressure vessel:

volume	Ø	height	length	weight - 11 bar version	weight - 16 bar version
50 litre	276 mm	351 mm	900 mm	25 kg	25 kg
90 litre	360 mm	430 mm	980 mm	35 kg	35 kg
150 litre	450 mm	580 mm	1030 mm	70 kg	95 kg
250 litre	500 mm	632 mm	1400 mm* / 1410 mm**	100 kg	120 kg
350 litre	550 mm	670 mm	1620 mm* / 1630 mm**	120 kg	160 kg
500 litre	600 mm	705 mm	1780 mm	150 kg	150 kg
750 litre	750 mm	857 mm	1860 mm	210 kg	280 kg
1000 litre	800 mm	905 mm	2120 mm	300 kg	380 kg
1500 litre	1000 mm	1200 mm	2000 mm* / 2050 mm**	410 kg	500 kg
2000 litre	1100 mm	1300 mm	2270 mm	500 kg	620 kg
3000 litre	1250 mm	1450 mm	2560 mm	660 kg	850 kg
4000 litre	1400 mm	1600 mm	2870 mm	925 kg	1430 kg
5000 litre	1400 mm	1600 mm	3480 mm	1070 kg	1430 kg
5000 litre	1600 mm	1800 mm	2700 mm	1090 kg	1450 kg
6000 litre	1600 mm	1800 mm	3200 mm	1240 kg	1660 kg
7000 litre	1600 mm	1800 mm	3700 mm	1390 kg	1880 kg
8000 litre	1600 mm	1800 mm	4200 mm	1530 kg	2100 kg
9000 litre	1600 mm	1800 mm	4700 mm	1680 kg	2320 kg
10000 litre	1600 mm	1800 mm	5200 mm	1840 kg	2540 kg
10000 litre	1800 mm	2000 mm	4280 mm	1920 kg	2645 kg
10000 litre	2000 mm	2200 mm	3860 mm	2140 kg	2860 kg

* Applies to pressure stage 11 bar

** Applies to pressure stage 16 bar

connections for pressure vessel:

volume	Ø	vertical	horizontal
50 litre	276 mm	2 x G 3/4", 3 x G 1"	2 x G 1/4", 3 x G 1/2" und 2 x G 1"
90 litre	360 mm	For 11 bar: 1 x G 1/4", 2 x G 3/8", 2 x G 1/2", 2 x G 2" For 16 bar: 5 x G 1/2", 2 x G 2"	4 x G 1/2", 2 x G 2"
150 litre	450 mm	2 x G 1/2", 1 x G 1", 4 x G 1 1/4", 2 x G 1 1/2"	3 x G 1/2", 2 x G 2"
250 litre	500 mm	2 x G 1/2", 1 x G 1", 4 x G 1 1/4", 2 x G 1 1/2"	3 x G 1/2", 2 x G 1 1/2"
350 litre	550 mm	2 x G 1/2", 1 x G 1", 4 x G 1 1/4", 2 x G 1 1/2"	2 x G 1/2", 1 x G 3/4", 2 x G 1 1/2"
500 litre	600 mm	2 x G 1/2", 1 x G 1", 4 x G 1 1/4", 2 x G 1 1/2"	2 x G 1/2", 1 x G 1 1/4", 2 x G 1 1/2"
750 litre	750 mm	2 x G 1/2", 1 x G 1", 4 x G 1 1/4", 2 x G 1 1/2"	2 x G 1/2", 1 x G 1 1/4", 2 x G 1 1/2"
1000 litre	800 mm	3 x 1/2", 1 x G 1", 1 x G 1 1/2", 4 x G 2"	2 x G 1/2", 1 x G 1 1/4", 2 x G 1 1/2"
1500 litre	1000 mm	3 x G 1/2", 6 x G 2"/ 3 x G 1/2", 2 x G 1", 4 x G 2"	2 x G 1/2", 1 x G 3/4", 2 x G 1", 4 x G 2"
2000 litre	1100 mm	3 x G 1/2", 2 x G 2", 4 x G 2 1/2" / 3 x G 1/2", 2 x G 1", 4 x G 2 1/2"	2 x G 1/2", 1 x G 3/4", 1 x G 1", 4 x G 2"
3000 litre	1250 mm	3 x G 1/2", 6 x G 2 1/2" / 3 x G 1/2", 2 x G 1", 4 x G 2 1/2"	2 x G 1/2", 1 x G 3/4", 1 x G 1", 2 x G 1 1/2", 2 x G 2"
4000 litre	1400 mm	3 x G 1/2", 6 ⁽ⁱ⁾ x G 2", 4 x G 2 1/2" / 3 x G 1/2", 2 x G 1", 4 x G 2 1/2"	2 x G 1/2", 1 x G 3/4", 1 x G 1", 2 x G 1 1/2", 6 ⁽ⁱ⁾ x G 2" / 2 x G 1/2", 1 x G 3/4", 1 x G 1", 2 x G 1 1/2", 2 x G 2"
5000 litre	1400 mm	3 x G 1/2", 6 ⁽ⁱ⁾ x G 2", 4 x G 2 1/2" / 3 x G 1/2", 2 x G 1", 4 x G 2 1/2"	2 x G 1/2", 1 x G 3/4", 1 x G 1", 2 x G 1 1/2", 6 ⁽ⁱ⁾ x G 2" / 2 x G 1/2", 1 x G 3/4", 1 x G 1", 2 x G 1 1/2", 2 x G 2"
5000 litre	1600 mm	3 x G 1/2", 6 ⁽ⁱ⁾ x G 2", 4 x G 2 1/2" / 3 x G 1/2", 2 x G 1", 4 x G 2 1/2"	3 x G 1", 2 x G 1 1/2", 6 x G 2" / 2 x G 1/2", 2 x G 1", 2 x G 1 1/2", 2 x G 2"
6000 litre	1600 mm	3 x G 1/2", 6 ⁽ⁱ⁾ x G 2", 4 x G 2 1/2" / 3 x G 1/2", 2 x G 1", 4 x G 2 1/2"	3 x G 1", 2 x G 1 1/2", 6 x G 2" / 2 x G 1/2", 2 x G 1", 2 x G 1 1/2", 2 x G 2"
7000 litre	1600 mm	3 x G 1/2", 6 ⁽ⁱ⁾ x G 2", 4 x G 2 1/2" / 3 x G 1/2", 2 x G 1", 4 x G 2 1/2"	2 x G 1/2", 1 x G 1", 2 x G 1 1/2", 6 x G 2" / 2 x G 1/2", 2 x G 1", 2 x G 1 1/2", 2 x G 2"
8000 litre	1600 mm	3 x G 1/2", 6 ⁽ⁱ⁾ x G 2", 4 x G 2 1/2" / 3 x G 1/2", 2 x G 1", 4 x G 2 1/2"	2 x G 1/2", 1 x G 1", 2 x G 1 1/2", 7 x G 2" / 2 x G 1/2", 2 x G 1", 2 x G 1 1/2", 2 x G 2"
9000 litre	1600 mm	3 x G 1/2", 6 ⁽ⁱ⁾ x G 2", 4 x G 2 1/2" / 3 x G 1/2", 2 x G 1", 4 x G 2 1/2"	2 x G 1/2", 1 x G 1", 2 x G 1 1/2", 7 x G 2" / 2 x G 1/2", 2 x G 1", 2 x G 1 1/2", 2 x G 2"
10000 litre	1600 mm	3 x G 1/2", 6 ⁽ⁱ⁾ x G 2", 4 x G 2 1/2" / 3 x G 1/2", 2 x G 1", 4 x G 2 1/2"	2 x G 1/2", 1 x G 1", 2 x G 1 1/2", 8 x G 2" / 2 x G 1/2", 2 x G 1", 2 x G 1 1/2", 2 x G 2"
10000 litre	1800 mm	3 x G 1/2", 6 ⁽ⁱ⁾ x G 2", 4 x G 2 1/2" / 3 x G 1/2", 2 x G 1", 4 x G 2 1/2"	2 x G 1/2", 1 x G 1", 2 x G 1 1/2", 7 x G 2" / 2 x G 1/2", 2 x G 1", 2 x G 1 1/2", 2 x G 2"
10000 litre	2000 mm	3 x G 1/2", 2 x G 1", 10 ⁽ⁱⁱ⁾ x G 2 1/2" / 3 x G 1/2", 2 x G 1", 4 x G 2 1/2"	2 x G 1/2", 2 x G 1", 2 x G 1 1/2", 2 x G 2", 2 x G 2 1/2" / 2 x G 1/2", 2 x G 1", 2 x G 1 1/2", 2 x G 2"

*applies to version steel galvanized

**applies to version steel primed

⁽ⁱ⁾ including 4 galvanized sleeves with G 2" connection⁽ⁱⁱ⁾ including 6 galvanized sleeves with G 2 1/2" connection

article number:

type	version	material	pressure	design	volume
BE01	0 – standard	0 – Steel galvanized 1 – Steel primed (inside raw)	0 – until 11 bar 1 – until 16 bar	0 – vertical 1 – horizontal	01 – 50 litre 02 – 90 litre 03 – 150 litre 04 – 250 litre 05 – 350 litre 06 – 500 litre 07 – 750 litre 08 – 1000 litre 09 – 1500 litre 10 – 2000 litre 11 – 3000 litre 12 – 4000 litre 13 – 5000 litre with Ø 1400 14 – 5000 litre with Ø 1600 15 – 6000 litre 16 – 7000 litre 17 – 8000 litre 18 – 9000 litre 19 – 10000 litre with Ø 1600 20 – 10000 litre with Ø 1800 21 – 10000 litre with Ø 2000

example Nr. BE01000106

BE01	0	0	0	1	06
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Standard pressure vessel
 material: Steel galvanized
 pressure: until 11 bar
 design: horizontal
 volume: 500 litre

Special modifications are possible on request, such as:

- with painting
- socket modification
- with flanges
- with man hole closure (320 mm x 420 mm) from vessel size of 1000 litre
- inner coating suitable for drinking water from vessel size of 1000 litre

Important: Completely customized pressure vessels can also be requested

Image similar, subject change without notice