

This drawing is an integral part of the general statement of use and technical manual

Item	Part number	Q-ty	Title	Material
1	16-4-600	1	Body of Pressure Vessel	Glass/Epoxy
2	044-406-0601	2	Side port 4"	Stainless steel
3	285772409	4	Retaining ring	Stainless steel
4	006-406-1203	2	Disk for port	Stainless steel
5	014-400-0709	2	Seal for port	EPDM
6	005-661-0600	2	Support ring	Aluminum
7	003-165-0600	2	Base plate	Aluminum
8	007-402-0084	2	Seal for s.plate	EPDM
9	013-165-1200	2	Sealing plate	Engineering plastic
10	011-420-1202	2	Retaining ring	Stainless steel
11	007-112-0053	2	Seal for p.port	EPDM
12	008-160-0604	2	Permeate port 3"	Engineering plastic
13	004-165-1041	1	Thrust ring	Engineering plastic
14	007-085-0053	2	Seal for adapter	EPDM
15	As required	2	Adapter	Engineering plastic
16	As required	2	Membrane seal	EPDM
17	010-160-9001	3	Spacer 1mm.	Engineering plastic
18	010-160-9005	2-8	Spacer 5mm.	Engineering plastic
19	016-002-0820	6	Socket screw	Stainless steel
20	015-160-0001	2	Strap assy.	Stainless steel
21	012-160-0000	2-3	Saddle	Engineering plastic
22				
23				
24				

Shell length code	L (l.o.a.), mm. / inch	P, port to port mm. / inch	M, length for membrane elements, mm. / inch	S # (span) mm. / inch	W weight kg. / lb.
1	2171 / 85.47	1407 / 55.39	1107 / 43.6	700 / 27.6	280 / 618
	3203 / 126.10	2439 / 96.02	2139 / 84.2	1700 / 66.9	314 / 693
2	4235 / 166.73	3471 / 136.65	3171 / 124.8	2700 / 106.3	348 / 768
	5267 / 207.36	4503 / 177.28	4203 / 165.5	3420 / 134.6	382 / 843
3	6299 / 247.99	5535 / 217.91	5235 / 206.1	4450 / 175.2	416 / 918
	7331 / 288.62	6567 / 258.54	6267 / 246.7	5470 / 215.4	450 / 993
4	8363 / 329.25	7599 / 299.17	7299 / 287.4	6500 / 255.9	484 / 1068
	9395 / 369.88	8631 / 339.80	8331 / 328	7530 / 296.5	518 / 1142

Notes:

- All dimensions are for reference only, not for construction unless certified. Dimensions L, P, M can be varied according to exact membrane type.
- Item 17 & 18 should be located on feed side for membranes shimming.
- Item 13 downstream only.
- Item 19 - closing torque not to exceed 2 Nm.
- Drawing unit: mm. (inches).
- Saddles can be shimmed if required.
- The vessel is supplied with two straps for external saddles.
- Do not scale drawing, may be reprinted on any paper size or copied.
- Vessel's ports diameters according to ANSI Standards.

Warning:

- Never pressurize a pressure vessel that was not loaded with membrane elements.
- Wrong manifolding may cause an excessive pressure on port what can lead to leaks.
- Max. allowable working pressure not to exceed 600 psi. (41.4 bar).
- Permeate internal pressure not to exceed 125 psi. (8.6 bar).
- Operating temperature not to exceed 65°C (150°F).

BEL	TITLE: BEL16-S-600 psi. RO PRESSURE VESSEL	DESIGN	DMG	04/05/2020
	DRAWING NO: BEL16-S4-600	CHECK	JME	04/05/2020
		APPR.	MAF	04/05/2020
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ORDER / R.F.Q. FORM - 16" SIDE PORT PRESSURE VESSELS
Please fill and send it to your contact at BEL

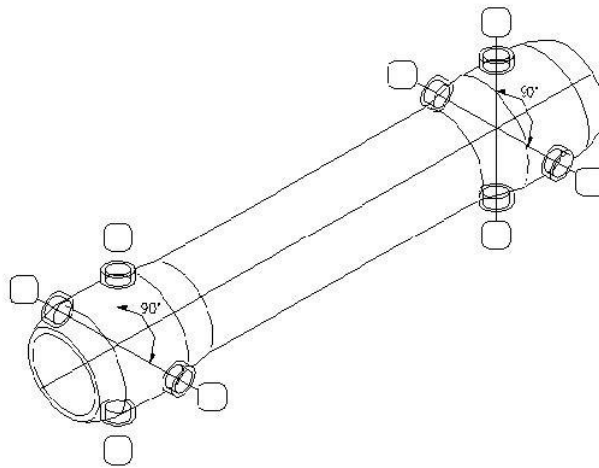
P.O. / R.F.Q. Number:

Customer name:

1. NEW SYSTEM EXISTING SYSTEM or Replacement Please provide details:

2. F/C PORTS CONFIGURATION: Please indicate side port requirement on each side of the vessel
(Mark the letter indicating port diameter in the box at each required port location, only in 180° on the same side)

A – 4" *Vessel's Port diameters, according to ANSI Standards.*



3. NUMBER OF VESSELS: Units
(Please, use separate forms for each type in case of multi-type orders)

4. WORKING PRESSURE RATE (PSI): 300 450 600 1,000 1,200

5. NUMBER OF MEMBRANE ELEMENTS IN EACH VESSEL: (1,,,,,,8)

6. MEMBRANE BRAND AND TYPE:

7. CONFIRM TYPE: BEL16-S - (x) - - M
 # of ports dia. of port pressure # of membranes - *(Example: BEL8 - S(4 x 2.5") – 1,000 - 7M)*

8. PERMEATE PORTS OUTLET: 3" NPT male 3" Victaulic grooved

9. ASME code SEC. X, RP stamped vessel: NO YES
(Please, contact for pricing)

10. COLOR: Standard (white, RAL 9010) Other RAL number:
(Please, contact for pricing)

Customer signature:

Date:

FOR DETAILS, PLEASE, VISIT OUR WEBSITE: www.belvessels.com