

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

Item	Part number	Q-ty	Title	Material
1	16-4-450	1	Body of Pressure Vessel	Glass/Epoxy
2	044-406-0451	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	003-165-0450	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	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	2131	1407	1107	700	253
	83.90	55.39	43.6	27.6	558
2	3163	2439	2139	1700	281
	124.53	96.02	84.2	66.9	621
3	4195	3471	3171	2700	310
	165.16	136.65	124.8	106.3	683
4	5227	4503	4203	3420	338
	205.79	177.28	165.5	134.6	746
5	6259	5535	5235	4450	367
	246.42	217.91	206.1	175.2	809
6	7291	6567	6267	5470	395
	287.05	258.54	246.7	215.4	871
7	8323	7599	7299	6500	424
	327.68	299.17	287.4	255.9	934
8	9355	8631	8331	7530	452
	368.31	339.80	328	296.5	997

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 450 psi. (31 bar).
- Permeate internal pressure not to exceed 125 psi. (8.6 bar).
- Operating temperature not to exceed 65°C (150°F).

	TITLE: BEL16-S-450 psi. RO PRESSURE VESSEL	DESIGN: DMG	04/05/2020
	DRAWING NO: BEL16-S4-450	CHECK: JME	04/05/2020
	APPR. MAF	04/05/2020	

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REV.: 1



ORDER / R.F.Q. FORM - 16" SIDE PORT PRESSURE VESSELS
Please fill and send it to your contact at BEL

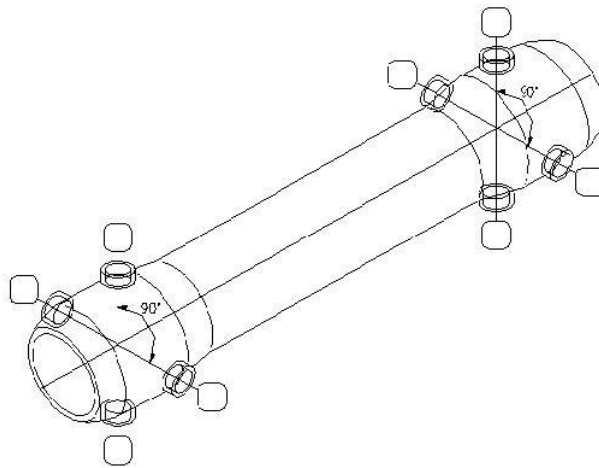
P.O. / R.F.Q. Number:

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