

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

Notes:

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

Warning.

1. Never pressurize a pressure vessel that was not loaded with membrane elements.
2. Wrong manifolding may cause an excessive pressure on port what can lead to leaks.
3. Max. allowable working pressure not to exceed 300 psi. (20.7 bar).
4. Permeate internal pressure not to exceed 125 psi. (8.6 bar).
5. Operating temperature not to exceed 65°C (150°F).

	TITLE:	BEL16-S-300 psi. RO PRESSURE VESSEL	DESIGN	DMG	04/05/2020
	DRAWING NO.:	BEL16-S4-300	CHECK	JME	04/05/2020
			APPR.	MAF	04/05/2020
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Item	Part number	Q-ty	Title	Material
1	16-4-300	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	006-406-0302	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 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	2117	1407	1107	700	237
	83.35	55.39	43.6	27.6	523
2	3149	2439	2139	1700	259
	123.98	96.02	84.2	66.9	570
3	4181	3471	3171	2700	280
	164.61	136.65	124.8	106.3	618
4	5213	4503	4203	3420	302
	205.24	177.28	165.5	134.6	665
5	6245	5535	5235	4450	323
	245.87	217.91	206.1	175.2	713
6	7277	6567	6267	5470	345
	286.50	258.54	246.7	215.4	760
7	8309	7599	7299	6500	366
	327.13	299.17	287.4	255.9	808
8	9341	8631	8331	7530	388
	367.76	339.80	328	296.5	856



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

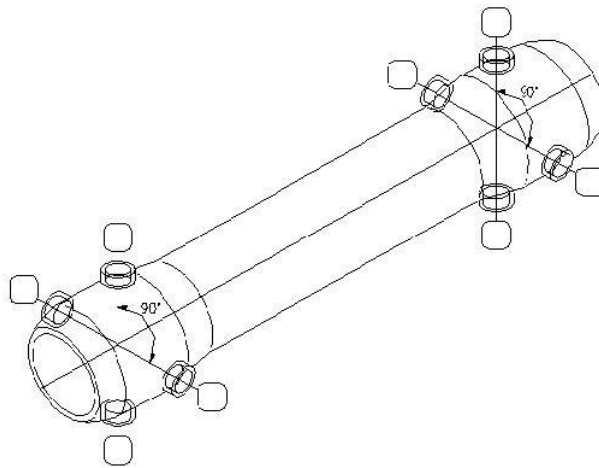
**P.O. / R.F.Q. Number:**

**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](http://www.belvessels.com)**