



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 600 psi. (41.4 bar).
4. Permeate internal pressure not to exceed 125 psi. (8.6 bar).
5. Operating temperature not to exceed 65°C (150°F).

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	1407	1107	700	280
	85.47	55.39	43.6	27.6	618
2	3203	2439	2139	1700	314
	126.10	96.02	84.2	66.9	693
3	4235	3471	3171	2700	348
	166.73	136.65	124.8	106.3	768
4	5267	4503	4203	3420	382
	207.36	177.28	165.5	134.6	843
5	6299	5535	5235	4450	416
	247.99	217.91	206.1	175.2	918
6	7331	6567	6267	5470	450
	288.62	258.54	246.7	215.4	993
7	8363	7599	7299	6500	484
	329.25	299.17	287.4	255.9	1068
8	9395	8631	8331	7530	518
	369.88	339.80	328	296.5	1142

<b>BEL</b>	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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