


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.
2. Dimensions L,P,M can be varied according to exact membrane type.
3. Item 18 & 19 should be located on feed side for membranes shimming.
4. Item 14 downstream only.
5. Item 20 - closing torque not to exceed 2 Nm.
6. Drawing unit: mm. (inches).
7. Saddles can be shimmed if required.
8. The vessel is supplied with two straps for external saddles.
9. Do not scale drawing, may be reprinted on any paper size or copied.
10. Vessel's ports diameters according to ASNI Standards.

Warning.

1. Never pressurize a pressure vessel that was not loaded with membrane elements.
2. Wrong manifolding may effect an excessive pressure on port what can lead to leaks.
3. Max. allowable working pressure not to exceed 450 psi. (31 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-E-450 psi. RO PRESSURE VESSEL	DESIGN	DMG	04/05/2020
		CHECK	JME	04/05/2020
DRAWING NO:	BEL16-E-450	APPR.	MAF	04/05/2020
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Item	Part number	Q-ty	Title	Material
1	16-0-450	1	Body of Pressure Vessel	Glass/Epoxy
2	009-306-0450	2	End port 3"	Stainless steel
3	011-300-1202	4	Retaining ring	Stainless steel
4	007-089-0035	2	Seal for port	EPDM
5	005-661-0600	2	Support ring	Aluminum
6	003-165-0453	2	Base plate	Aluminum
7	007-402-0084	2	Seal for s.plate	EPDM
8	011-420-1202	2	Retaining ring	Stainless steel
9	007-112-0053	2	Seal for p.port	EPDM
10	013-165-1200	2	Sealing plate	Engineering plastic
11	008-160-0403	2	Permeate port 3"	Engineering plastic
12	004-165-1040	1	Thrust ring	Engineering plastic
13	007-099-0053	2	Seal for adapter	EPDM
14	As required	2	Adapter	Engineering plastic
15	As required	2	Membrane seal	EPDM
16	010-160-9001	3	Spacer 1mm.	Engineering plastic
17	010-160-9005	2-8	Spacer 5mm.	Engineering plastic
18	016-002-0845	6	Socket screw	Stainless steel
19	015-160-0000	2	Strap assy.	Stainless steel
20	012-160-0000	2-3	Saddle	Engineering plastic
21				

Shell length code	L (l.o.a.), mm. inch	M, length for membrane elements, mm. / inch	S # (span) mm. inch	W weight kg. lb.
1	1891	1107	460	153
	74.45	43.6	18.1	338
2	2923	2139	1460	182
	115.08	84.2	57.5	401
3	3955	3171	2460	210
	155.71	124.8	96.9	463
4	4987	4203	3180	238
	196.34	165.5	125.2	526
5	6019	5235	4210	267
	236.97	206.1	165.7	589
6	7051	6267	5230	295
	277.60	246.7	205.9	651
7	8083	7299	6260	324
	318.23	287.4	246.5	714
8	9115	8331	7290	352
	358.86	328	287.0	777



ORDER / R.F.Q. FROM – 16" END 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:
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2. NUMBER OF VESSELS:

(Please, use separate forms for each type in case of multi-type orders)

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

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

5. MEMBRANE BRAND AND TYPE:

(Please, add membrane data sheet)

6. CONFIRM TYPE: BEL16-E- - M Vessel's Port diameters, according to ANSI Standards.
Pressure # of membranes

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

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

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

Customer signature:

Date:

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

May, 2020