



Item	Part number	Q-ty	Title	Material
1	16-4-300	1	Body of PV	GFRP
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	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				

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

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 / 83.35	1407 / 55.39	1107 / 43.6	700 / 27.6	237 / 523
2	3149 / 123.98	2439 / 96.02	2139 / 84.2	1700 / 66.9	259 / 570
3	4181 / 164.61	3471 / 136.65	3171 / 124.8	2700 / 106.3	280 / 618
4	5213 / 205.24	4503 / 177.28	4203 / 165.5	3420 / 134.6	302 / 665
5	6245 / 245.87	5535 / 217.91	5235 / 206.1	4450 / 175.2	323 / 713
6	7277 / 286.50	6567 / 258.54	6267 / 246.7	5470 / 215.4	345 / 760
7	8309 / 327.13	7599 / 299.17	7299 / 287.4	6500 / 255.9	366 / 808
8	9341 / 367.76	8631 / 339.80	8331 / 328	7530 / 296.5	388 / 856

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.

Warning:

- Never pressurize a pressure vessel that was not loaded with membrane elements.
- Wrong manifold may cause an excessive pressure on port what can lead to leaks.
- Max. allowable working pressure not to exceed 300 psi. (20.7 bar).
- Permeate internal pressure not to exceed 125 psi. (8.6 bar).
- Operating temperature not to exceed 49°C (120°F).

BEL	TITLE	BEL 16-s(2x4)-300 psi.	DESIGN	Daria P.	15/08/2014
		RO PRESSURE VESSEL	CHECK	Yuri V.	15/08/2014
	DRAWING NO.	16s4-300	APPR.	Ari A.	15/08/2014
THIS DRAWING IS PROPERTY OF BEL GROUP LIMITED IT IS STRICTLY FORBIDDEN TO USE, COPY, REPRODUCE OR DISCLOSE ANY PART OF IT TO THIRD PARTY WITHOUT WRITTEN AUTHORIZATION.					Sheet 1 Of 1 REV.: 0