



LENNTECH

info@lenntech.com Tel. +31-152-610-900
www.lenntech.com Fax. +31-152-616-289

Notes:

1. All dimensions are for reference only, not for construction unless certified.
2. * - Item 14 & 15 are optional. Delivered upon request. Priced separately.
3. Drawing unit: mm. (inches).
4. Saddles can be shimmed if required.
5. Do not scale drawing, may be reprinted on any paper size or copied.
6. The vessel is supplied with two strap assembly.
7. For further information please contact BEL

Item	Part number	Q-ty	Title	Material
1	41450-0	1	Body of Pressure Vessel	Glass/Epoxy
2	55410208	2	Retaining ring	316 stainless steel
3	003-400-0005	2	Base plate	Engineering plastic
4	55412360	2	Seal for base plate	EPDM
5	55412377	0-6	Disk spacer	Engineering plastic
6	As required	2	Membrane seal	EPDM
7	As required	2	Adapter	Engineering plastic
8	55412367	2	Seal for Adapter	EPDM
9	009-106-0450	2	F/C Port	316 stainless steel
10	014-100-0505	2	Seal for F/C Port	EPDM
11	006-112-1202	2	Disk for F/C Port	304 stainless steel
12	011-100-1202	2	Retaining ring	316 stainless steel
13	55412368	2	Retaining ring	316 stainless steel

-Vessel support parts -optional -

14 *	55410352	2-3	Saddle	Engineering plastic
15 *	55410246	2	Strap	316 stainless steel

BEL	TITLE		DESIGN	NAME	DATE
	BEL 4-S-450 psi. RO PRESSURE VESSEL		CHECK	Yuri V.	30/07/2014
DRAWING No.		BEL 4-S-450	APPR.	Ari A.	30/07/2014
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.					REV.: 4

Table №1 for membrane length 21" (533.4mm.).
Table №2 for membrane length 40" (1016mm.).

Shell length code	L (l.o.a.) mm. inch	P port to port, mm. Inch	S # (span) mm. inch	M, mm/in length for membranes elements (with membrane type)	W weight kg. lb.	Article number
1	1208 47.6	1025 40.4	710 28	1020 40.2	970 38.2	8 41450-1
2	2224 87.6	2041 80.4	1550 61	2036 80.2	1986 78.2	13 28 41450-2
3	3240 127.6	3057 120.4	2550 100	3052 120.2	3002 118.2	18 39 41450-3
4	4256 167.6	4073 160.4	3250 128	4068 160.2	4018 158.2	23 50 41450-4
5	5273 207.6	5090 200.4	4250 167	5085 200.2	5035 198.2	28 61 41450-5
6	6291 247.7	6108 240.5	5250 207	6103 240.3	6053 238.3	32 72 41450-6

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 450 psi. (31 bar).
4. Permeate internal pressure not to exceed 125 psi. (8.6 bar).
5. Operating temperature not to exceed 49°C (120°F).

Shell length code	L (l.o.a.) mm. inch	P port to port, mm. Inch	S # (span) mm. inch	M, mm/in length for membranes elements	W weight kg. lb.	Article number
21	723 28.5	540 21.3	410 16	485 19.1	6 12	41451-21
22	1256.5 49.5	1073.5 42.3	940 37	1018.5 40.1	8 18	41451-22
23	1790 70.5	1607 63.3	1480 58	1552 61.1	11 24	41451-23
24	2323.5 91.5	2140.5 84.3	2000 79	2085.5 82.1	13 29	41451-24
25	2858 112.5	2675 105.3	2540 100	2620 103.1	16 35	41451-25
26	3391.5 133.5	3208.5 126.3	3070 121	3153.5 124.2	18 41	41451-26
27	3926.5 154.6	3743.5 147.4	3600 142	3688.5 145.2	21 46	41451-27
28	4461 175.6	4278 168.4	4140 163	4223 166.3	24 52	41451-28
29	4996 196.7	4813 189.5	4670 184	4758 187.3	26 58	41451-29
30	5530.5 217.7	5347.5 210.5	5200 205	5292.5 208.4	29 63	41451-30
31	6066 238.8	5883 231.6	5740 226	5828 229.4	31 69	41451-31
32	6599.5 259.8	6416.5 252.6	6270 247	6361.5 250.5	34 75	41451-32