

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

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
				mm.	in.		
1	1208	1025	710	1020	970	8	41450-1
	47.6	40.4	28	40.2	38.2	18	
2	2224	2041	1550	2036	1986	13	41450-2
	87.6	80.4	61	80.2	78.2	28	
3	3240	3057	2550	3052	3002	18	41450-3
	127.6	120.4	100	120.2	118.2	39	
4	4256	4073	3250	4068	4018	23	41450-4
	167.6	160.4	128	160.2	158.2	50	
5	5273	5090	4250	5085	5035	28	41450-5
	207.6	200.4	167	200.2	198.2	61	
6	6291	6108	5250	6103	6053	32	41450-6
	247.7	240.5	207	240.3	238.3	72	

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 65°C (150°F).

Notes:

1. All dimensions are for reference only, not for construction unless certified.
2. * - Item 13 & 14 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 should be supported with two straps for external saddles.
7. For further information please contact BEL.
8. Storage & installation: Indoor.
9. Vessel's ports diameters according to ANSI Standards.

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 1"	316 stainless steel
10	014-100-0505	2	Seal for port	EPDM
11	006-112-1202	2	Disk for port	316 stainless steel
12	011-100-1202	4	Retaining ring for port	316 stainless steel

- Vessel support parts - optional -

13 *	55410352	2-3	Saddle	Engineering plastic
14 *	55410246	2	Strap	316 stainless steel

	BEL4-S-450 psi. RO PRESSURE VESSEL		DESIGN	DMG	05/05/2020
			CHECK	JME	05/05/2020
DRAWING NO: BEL4-S-450			APPR.	MAF	05/05/2020
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ORDER / R.F.Q. FORM - 4" SIDE PORT PRESSURE VESSELS

Please fill and send it to your contact at BEL

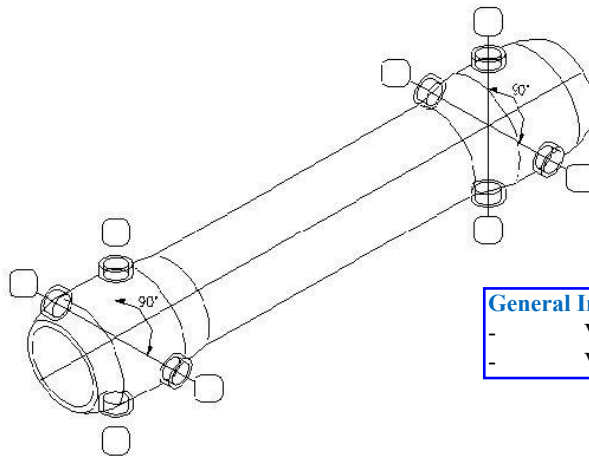
P.O. / R.F.Q. Number:

Customer name:

1. 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)

A – 1" Victaulic connection **Vessel's Port diameters, according to ANSI Standards.**



General Information for Permeate ports:

- Vessels 300 psi & 450 psi: ½" NPT Female.
- Vessels 600 psi up to 1200 psi: ½" NPT Male.

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:

For 40" membranes length: (1to 6)
 For 21" membranes length: (1 to 12)

5. MEMBRANE BRAND AND TYPE:

6. CONFIRM TYPE – BEL4-S- (x) - - M
of ports diam. Port pressure #membranes

7. SADDLES & STRAPS (Optional): NO / YES *(please contact for pricing)*

8. ADAPTERS OPTIONS: Two Standard adapters / Standard & Solid (blind) adapter

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

Customer signature:

Date:

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