

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 membranes elements	W weight kg, lb.	Article number
21	805	539	410	485	13	411501-21
	31,7	21,2	16	19,1	29	
22	1339	1072,5	940	1018,5	19	411501-22
	52,7	42,2	37	40,1	42	
23	1872	1606	1480	1552	24	411501-23
	73,7	63,2	58	61,1	53	
24	2406	2139,5	2000	2085,5	29	411501-24
	94,7	84,2	79	82,1	64	
25	2940	2674	2540	2620	34	411501-25
	115,7	105,3	100	103,1	75	
26	3474	3207,5	3070	3153,5	40	411501-26
	136,8	126,3	121	124,2	88	
27	4009	3742,5	3600	3688,5	45	411501-27
	157,8	147,3	142	145,2	99	
28	4543	4277	4140	4223	50	411501-28
	178,9	168,4	163	166,3	110	
29	5078	4812	4670	4758	55	411501-29
	199,9	189,4	184	187,3	121	
30	5613	5346,5	5200	5292,5	61	411501-30
	221,0	210,5	205	208,4	135	
31	6148	5882	5740	5828	66	411501-31
	242,0	231,6	226	229,4	146	
32	6682	6415,5	6270	6361,5	71	411501-32
	263,1	252,6	247	250,5	157	

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	1290	1024	710	1020	970	18	411500-1
	50,8	40	28	40,2	38,2	40	
2	2306	2040	1550	2036	1986	28	411500-2
	90,8	80	61	80,2	78,2	62	
3	3322	3056	2550	3052	3002	38	411500-3
	130,8	120	100	120,2	118,2	84	
4	4338	4072	3250	4068	4018	48	411500-4
	170,8	160	128	160,2	158,2	106	
5	5355	5089	4250	5085	5035	58	411500-5
	210,8	200	167	200,2	198,2	128	
6	6373	6107	5250	6103	6053	68	411500-6
	250,9	240	207	240,3	238,3	150	

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 1500 psi. (103.4 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 17 & 18 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	411500-0_6(32)	1	Body of Pressure vessel	Glass / Epoxy
2	009-107-1500	2	Side port 1" victaulic	Super Duplex Stainless steel
3	014-100-0505	2	Seal for Side port	EPDM
4	006-116-1504	2	Disk for Side port	316 Stainless steel
5	011-100-1203	4	Retaining ring	316 Stainless steel
6	005-416-1500	2	Support ring	316 Stainless steel
7	011-401-1202	2	Retaining ring	316 Stainless steel
8	008-400-1215	2	Permeate tube	Engineering plastic
9	55412369	2	Retaining ring for P. tube	316 Stainless steel
10	003-423-1215	2	Base plate	316 Stainless steel
11	003-400-0005	2	Sealing plate	Engineering plastic
12	55412360	2	Seal for S. plate	EPDM
13	55412367	2	Seal for Adapter	EPDM
14	55412377	0-6	Disk spacer	Engineering plastic
15	As required	2	Adapter	Engineering plastic
16	As required	2	Membrane seal	EPDM

- Vessel support parts - optional -

17*	55410352	2-3	Saddle	Engineering plastic
18*	55410246	2	Strap assy.	316 Stainless steel

DESIGN	VMLS	06/08/2024	
			BEL

DRAWING NO.	APPR.	VMLS	06/08/2024

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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:

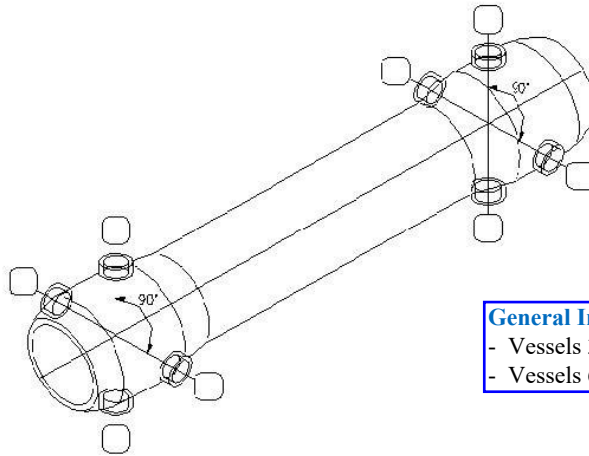
Customer name:

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 B – 1.5" Victaulic (Only for 300 & 450 psi models)

Vessel's Port diameters, according to ANSI Standards.

(Ports with a diameter of 1.5" cannot be mounted in 90° with any other port)



General Information for Permeate ports:

- Vessels 300 psi & 450 psi: ½" NPT Female.
- Vessels 600 psi up to 1500 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 / 1500

4. NUMBER OF MEMBRANE ELEMENTS IN EACH VESSEL:

For 40" membranes length: (1 to 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