

(or male Adapter for membrane element with female permeate tube, in this case all measurements must be changed, see note 7)

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

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	W weight kg, lb.	Article number
21	757	559	410	485	12	42301-21
	29,8	22,0	16	19,1	26	
22	1290	1092	940	1019	14	42301-22
	50,8	43,0	37	40,1	31	
23	1824	1626	1480	1552	15	42301-23
	71,8	64,0	58	61,1	33	
24	2357	2159	2000	2086	17	42301-24
	92,8	85,0	79	82,1	37	
25	2892	2694	2540	2620	19	42301-25
	113,9	106,1	100	103,1	42	
26	3426	3228	3070	3154	21	42301-26
	134,9	127,1	121	124,2	46	
27	3960	3762	3600	3689	23	42301-27
	155,9	148,1	142	145,2	51	
28	4495	4297	4140	4223	25	42301-28
	177,0	169,2	163	166,3	55	
29	5030	4832	4670	4758	27	42301-29
	198,0	190,2	184	187,3	60	
30	5565	5367	5200	5293	29	42301-30
	219,1	211,3	205	208,4	64	
31	6100	5902	5740	5828	31	42301-31
	240,2	232,4	226	229,4	68	
32	6633	6435	6270	6362	32	42301-32
	261,1	253,3	247	250,5	71	

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	1242	1044	710	1020	970	42300-1
	48,9	41,1	28	40,2	38,2	
2	2258	2060	1550	2036	1986	42300-2
	88,9	81,1	61	80,2	78,2	
3	3274	3076	2550	3052	3002	42300-3
	128,9	121,1	100	120,2	118,2	
4	4290	4092	3250	4068	4018	42300-4
	168,9	161,1	128	160,2	158,2	
5	5307	5109	4250	5085	5035	42300-5
	208,9	201,1	167	200,2	198,2	
6	6325	6127	5250	6103	6053	42300-6
	249,0	241,2	207	240,3	238,3	

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 300 psi. (20.7 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	Description	Material		
1	42300-0	1	Body of Pressure Vessel	Glass/Epoxy		
2	040-156-0604	2	Sideport 1.5"	Stainless steel		
3	014-150-0506	2	Seal for Sideport 1.5"	EPDM		
4	006-156-0452	2	Disk for Sideport 1.5"	Stainless steel		
5	011-150-1202	4	Retaining ring for Sideport 1.	Stainless steel		
6	55410208	2	Retaining ring	Stainless steel		
7	003-400-0005	2	Base plate	Engineering plastic		
8	55412360	2	Seal for base plate	EPDM		
9	as required	2	Membrane Adapter LONG	Engineering plastic		
10	as required	2	Membrane seal	EPDM		
11	55412367	2	Seal for adapter	EPDM		
12	55412377	0-6	Disk spacer	Engineering plastic		
Vessel support parts - optional -						
13*	55410352	2-3	Saddle	Engineering plastic		
14*	55410246	2	Strap	Stainless steel		
BEL	TITLE: BEL4-S(1.5")-300 psi. RO PRESSURE VESSEL			DESIGN	VMLS	06/08/2024
	DRAWING NO.: BEL4-S(1.5")-300			CHECK	SRS	06/08/2024
				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:

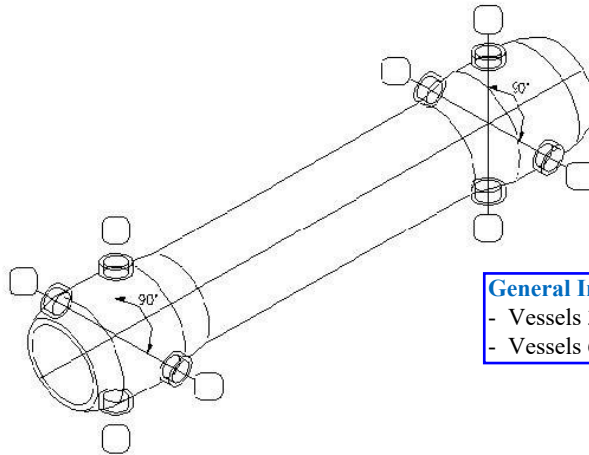
Customer name:

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 (Except for 1500 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: (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