

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

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.

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	799	540	410	485	14	401201-21
	31,5	21,3	16	19,1	31	
22	1332,5	1073,5	940	1018,5	19	401201-22
	52,5	42,3	37	40,1	42	
23	1866	1607	1480	1552	24	401201-23
	73,5	63,3	58	61,1	53	
24	2399,5	2140,5	2000	2085,5	28	401201-24
	94,5	84,3	79	82,1	62	
25	2934	2675	2540	2620	33	401201-25
	115,5	105,3	100	103,1	73	
26	3467,5	3208,5	3070	3153,5	38	401201-26
	136,5	126,3	121	124,2	84	
27	4002,5	3743,5	3600	3688,5	43	401201-27
	157,6	147,4	142	145,2	95	
28	4537	4278	4140	4223	48	401201-28
	178,6	168,4	163	166,3	106	
29	5072	4813	4670	4758	53	401201-29
	199,7	189,5	184	187,3	117	
30	5606,5	5347,5	5200	5292,5	57	401201-30
	220,7	210,5	205	208,4	126	
31	6142	5883	5740	5828	62	401201-31
	241,8	231,6	226	229,4	137	
32	6675,5	6416,5	6270	6361,5	67	401201-32
	262,8	252,6	247	250,5	148	

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	1284	1024	710	1020	970	18	411200-1
	50,6	40,3	28	40,2	38,2	40	
2	2300	2040	1550	2036	1986	28	411200-2
	90,6	80,3	61	80,2	78,2	62	
3	3316	3056	2550	3052	3002	37	411200-3
	130,6	120,3	100	120,2	118,2	82	
4	4332	4072	3250	4068	4018	46	411200-4
	170,6	160,3	128	160,2	158,2	101	
5	5349	5089	4250	5085	5035	55	411200-5
	210,6	200,4	167	200,2	198,2	121	
6	6367	6107	5250	6103	6053	64	411200-6
	250,7	240,4	207	240,3	238,3	141	

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 1200 psi. (83 bar).
4. Permeate internal pressure not to exceed 125 psi. (8.6 bar).
5. Operating temperature not to exceed 65°C (150°F).

Item	Part Number	Q-ty	Description	Material
1	411200-0	1	Body of Pressure Vessel	Glass/Epoxy
2	009-107-1200	2	Sideport 1"	Super Duplex Stainless steel
3	006-116-1202	2	Disk for Sideport 1"	Stainless steel
4	014-100-0505	2	Seal for Sideport 1"	EPDM
5	011-100-1202	4	R.Ring for Sideport 1"	Stainless steel
6	005-461-1200	2	Support Ring	Aluminium
7	011-401-1202	2	Retaining ring for S.Ring	316 Stainless steel
8	008-400-1215	2	Permeate tube	Engineering plastic
9	55412369	2	R.Ring for permeate tube	316 Stainless steel
10	003-420-1215	2	Base plate	Aluminium
11	003-400-0005	2	Sealing plate	Engineering plastic
12	55412360	2	Seal for sealing plate	EPDM
13	55412367	2	Seal for adapter	EPDM
14	55412377	0-6	Disk spacer	Engineering plastic
15	as required	2	Membrane seal	EPDM
16	as required	2	Membrane Adapter	Engineering plastic

Vessel support parts - optional -

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

	BEL4-S(1")-1200 psi. RO PRESSURE VESSEL		DESIGN	VMLS	25/09/2024
	BEL4-S(1")-1200		CHECK	SRS	25/09/2024
	BEL4-S(1")-1200		APPR.	VMLS	25/09/2024

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REV.: 5

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:

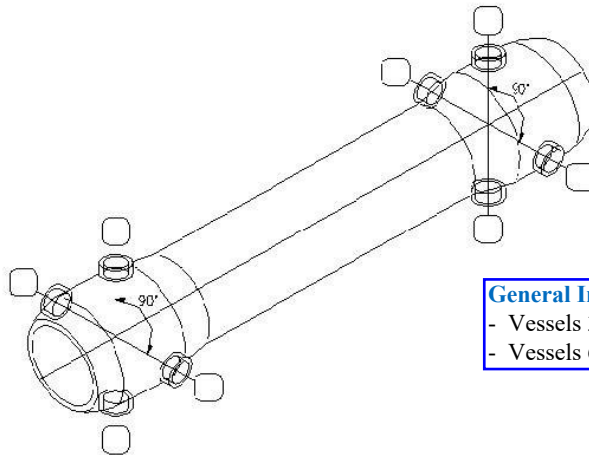
Customer name:

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