

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	723	540	410	485	8	41451-21
	28,5	21,3	16	19,1	18	
22	1256,5	1073,5	940	1018,5	11	41451-22
	49,5	42,3	37	40,1	24	
23	1790	1607	1480	1552	13	41451-23
	70,5	63,3	58	61,1	29	
24	2323,5	2140,5	2000	2085,5	15	41451-24
	91,5	84,3	79	82,1	33	
25	2858	2675	2540	2620	18	41451-25
	112,5	105,3	100	103,1	40	
26	3391,5	3208,5	3070	3153,5	20	41451-26
	133,5	126,3	121	124,2	44	
27	3926,5	3743,5	3600	3688,5	22	41451-27
	154,6	147,4	142	145,2	49	
28	4461	4278	4140	4223	24	41451-28
	175,6	168,4	163	166,3	52	
29	4996	4813	4670	4758	27	41451-29
	196,7	189,5	184	187,3	60	
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	

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	1024	710	1020	970	11	41450-1
	47,6	40,3	28	40,2	38,2	24	
2	2224	2040	1550	2036	1986	15	41450-2
	87,6	80,3	61	80,2	78,2	33	
3	3240	3056	2550	3052	3002	19	41450-3
	127,6	120,3	100	120,2	118,2	42	
4	4256	4072	3250	4068	4018	24	41450-4
	167,6	160,3	128	160,2	158,2	53	
5	5273	5089	4250	5085	5035	28	41450-5
	207,6	200,4	167	200,2	198,2	62	
6	6291	6107	5250	6103	6053	32	41450-6
	247,7	240,4	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	Description	Material
1	41450-0	1	Body of Pressure Vessel	Glass/Epoxy
2	009-106-0450	2	Sideport 1"	Stainless steel
3	014-100-0505	2	Seal for Sideport 1"	EPDM
4	006-116-1202	2	Disk for Sideport 1"	Stainless steel
5	011-100-1202	4	R.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	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

	TITLE: BEL4-S(1")-450 psi. RO PRESSURE VESSEL		DESIGN	VMLS	18/09/2024
	DRAWING NO: BEL4-S(1")-450		CHECK	SRS	18/09/2024
			APPR.	VMLS	18/09/2024
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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:**

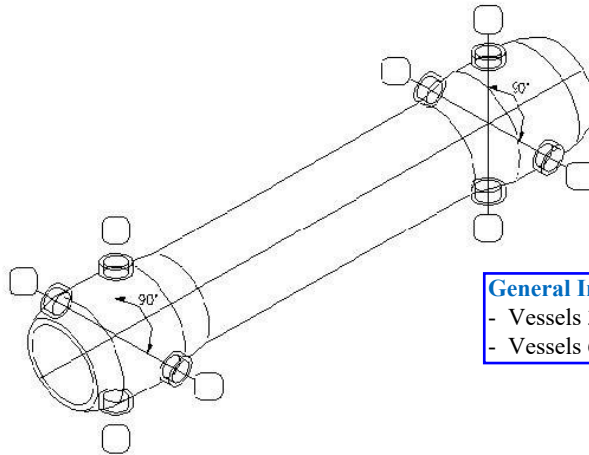
**Customer name:**

**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](http://www.belvessels.com)**