

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	799	540	410	485	13	401001-21
	31,5	21,3	16	19,1	29	
22	1332,5	1073,5	940	1018,5	17	401001-22
	52,5	42,3	37	40,1	37	
23	1866	1607	1480	1552	21	401001-23
	73,5	63,3	58	61,1	46	
24	2399,5	2140,5	2000	2085,5	26	401001-24
	94,5	84,3	79	82,1	57	
25	2934	2675	2540	2620	30	401001-25
	115,5	105,3	100	103,1	66	
26	3467,5	3208,5	3070	3153,5	34	401001-26
	136,5	126,3	121	124,2	75	
27	4002,5	3743,5	3600	3688,5	38	401001-27
	157,6	147,4	142	145,2	84	
28	4537	4278	4140	4223	42	401001-28
	178,6	168,4	163	166,3	93	
29	5072	4813	4670	4758	46	401001-29
	199,7	189,5	184	187,3	101	
30	5606,5	5347,5	5200	5292,5	51	401001-30
	220,7	210,5	205	208,4	112	
31	6142	5883	5740	5828	55	401001-31
	241,8	231,6	226	229,4	121	
32	6675,5	6416,5	6270	6361,5	59	401001-32
	262,8	252,6	247	250,5	130	

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	17	411000-1
	50,6	40,3	28	40,2	38,2	37	
2	2300	2040	1550	2036	1986	25	411000-2
	90,6	80,3	61	80,2	78,2	55	
3	3316	3056	2550	3052	3002	33	411000-3
	130,6	120,3	100	120,2	118,2	73	
4	4332	4072	3250	4068	4018	41	411000-4
	170,6	160,3	128	160,2	158,2	90	
5	5349	5089	4250	5085	5035	49	411000-5
	210,6	200,4	167	200,2	198,2	108	
6	6367	6107	5250	6103	6053	57	411000-6
	250,7	240,4	207	240,3	238,3	126	

**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 1000 psi. (69 bar).
4. Permeate internal pressure not to exceed 125 psi. (8.6 bar).
5. Operating temperature not to exceed 65°C (150°F).

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	Description	Material
1	411000-0	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")-1000 psi. RO PRESSURE VESSEL		DESIGN	VMLS	18/09/2024
			CHECK	SRS	18/09/2024
	DRAWING NO: BEL4-S(1")-1000			APPR.	VMLS

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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:**

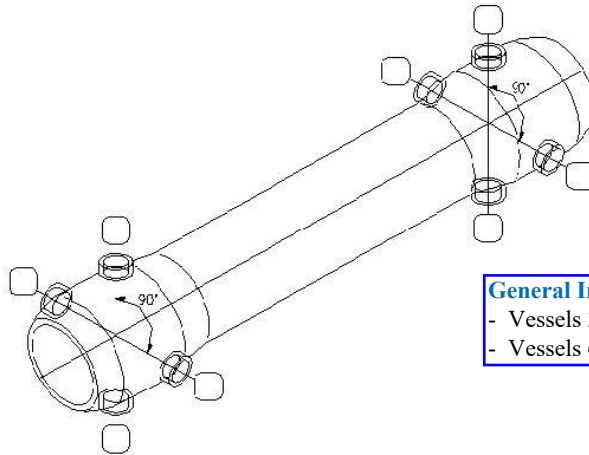
**Customer name:**

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