

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	841 / 33,1	559 / 22,0	410 / 16	485 / 19,1	19 / 42	421001-21
	1375 / 54,1	1092 / 43,0	940 / 37	1019 / 40,1	24 / 53	
22	1908 / 75,1	1626 / 64,0	1480 / 58	1552 / 61,1	28 / 62	421001-22
	2442 / 96,1	2159 / 85,0	2000 / 79	2086 / 82,1	32 / 71	
23	2976 / 117,2	2694 / 106,1	2540 / 100	2620 / 103,1	36 / 79	421001-23
	3510 / 138,2	3228 / 127,1	3070 / 121	3154 / 124,2	40 / 88	
24	4045 / 159,3	3762 / 148,1	3600 / 142	3689 / 145,2	44 / 97	421001-24
	4579 / 180,3	4297 / 169,2	4140 / 163	4223 / 166,3	49 / 108	
25	5114 / 201,3	4832 / 190,2	4670 / 184	4758 / 187,3	53 / 117	421001-25
	5649 / 222,4	5367 / 211,3	5200 / 205	5293 / 208,4	57 / 126	
26	6184 / 243,5	5902 / 232,4	5740 / 226	5828 / 229,4	61 / 135	421001-26
	6718 / 264,5	6435 / 253,3	6270 / 247	6362 / 250,5	65 / 143	
27	7184 / 281,5	6872 / 272,5	6710 / 265	6800 / 268,0	69 / 152	421001-27
	7718 / 301,5	7407 / 291,5	7240 / 285	7330 / 288,0	73 / 162	
28	8252 / 325,5	8095 / 318,5	7930 / 312	8020 / 315,0	77 / 170	421001-28
	8786 / 345,5	8638 / 338,5	8470 / 335	8560 / 338,0	81 / 180	
29	9320 / 365,5	9181 / 361,5	9020 / 355	9110 / 358,0	85 / 190	421001-29
	9854 / 385,5	9724 / 381,5	9560 / 375	9650 / 378,0	89 / 198	
30	10388 / 405,5	10241 / 401,5	10080 / 395	10170 / 398,0	93 / 208	421001-30
	10922 / 425,5	10784 / 421,5	10620 / 415	10710 / 418,0	97 / 218	
31	11466 / 445,5	11329 / 441,5	11160 / 435	11250 / 438,0	101 / 228	421001-31
	11990 / 465,5	11872 / 461,5	11800 / 465	11890 / 468,0	105 / 238	
32	12534 / 485,5	12441 / 481,5	12280 / 485	12370 / 488,0	109 / 248	421001-32
	13068 / 505,5	12984 / 501,5	12820 / 505	12910 / 508,0	113 / 258	

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	1326	1044	710	1020	970	27	421000-1
	52,2	41,1	28	40,2	38,2	60	
2	2342	2060	1550	2036	1986	35	421000-2
	92,2	81,1	61	80,2	78,2	77	
3	3358	3076	2550	3052	3002	43	421000-3
	132,2	121,1	100	120,2	118,2	95	
4	4374	4092	3250	4068	4018	51	421000-4
	172,2	161,1	128	160,2	158,2	112	
5	5391	5109	4250	5085	5035	59	421000-5
	212,2	201,1	167	200,2	198,2	130	
6	6409	6127	5250	6103	6053	67	421000-6
	252,3	241,2	207	240,3	238,3	148	

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	421000-0	1	Body of Pressure Vessel	Glass/Epoxy
2	040-155-1204	2	Sideport 1.5"	Super Duplex Stainless steel
3	006-156-1203	2	Seal for Sideport 1.5"	EPDM
4	014-150-0506	2	Disk for Sideport 1.5"	Stainless steel
5	011-150-1202	4	R.Ring for Sideport 1.5"	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 port	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 LONG	Engineering plastic

Vessel support parts - optional -				
17*	55410352	2-3	Saddle	Engineering plastic
18*	55410246	2	Strap	Stainless steel

BEL	BEL4-S(1.5'')-1000 psi. RO PRESSURE VESSEL	DESIGN	VMLS	18/09/2024
		CHECK	SRS	18/09/2024
		APPR.	VMLS	18/09/2024
DRAWING NO: BEL4-S(1.5'')-1000		THIS DRAWING IS PROPERTY OF BEL GROUP LIMITED IT IS STRICTLY FORBIDDEN TO USE, COPY, REPRODUCE OR DISCLOSE ANY PART OF IT TO THIRD PARTY WITHOUT WRITTEN AUTHORIZATION.		
		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:

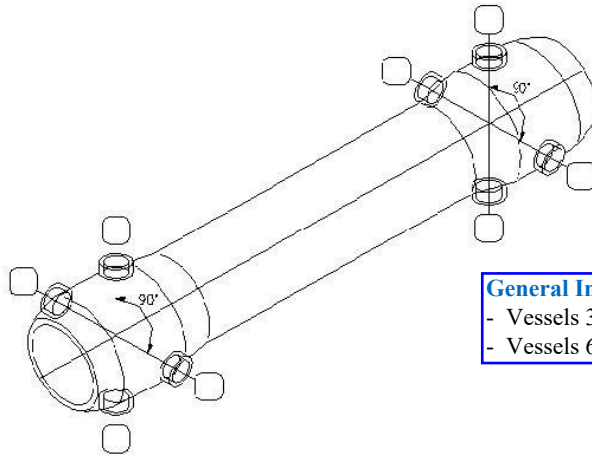
Customer name:

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