

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

Notes:

- All dimensions are for reference only, not for construction unless certified.
- \* - Item 18 & 19 are optional. Delivered upon request. Priced separately.
- Drawing unit: mm. (inches).
- Saddles can be shimmed if required.
- Do not scale drawing, may be reprinted on any paper size or copied.
- The vessel should be supported with two straps for external saddles.
- For further information please contact BEL.
- Storage & installation: Indoor.
- Vessel's ports diameters according to ANSI Standards.

Item	Part number	Q-ty	Title	Material
1	41600-0	1	Body of Pressure Vessel	Glass/Epoxy
2	009-106-0450	2	F/C port 1"	Stainless steel
3	006-116-1202	2	Disk for port	Stainless steel
4	014-100-0505	2	Seal for side port	EPDM
5	011-100-1202	4	Retaining ring for port	316 stainless steel
6	005-461-1200	2	Support ring	Aluminum
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	Retaining ring for p.port	316 stainless steel
10	003-420-1215	2	Base plate	Aluminum
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	Adapter	Engineering plastic

- Vessel support parts - optional -

17*	55410352	2-3	Saddle	Engineering plastic																		
18*	55410246	2	Strap	316 stainless steel																		
<table border="1"> <tr> <td rowspan="2"> </td> <td colspan="2"> <b>BEL4-S-600 psi, RO PRESSURE VESSEL</b> </td> <td>DESIGN</td> <td>DMG</td> <td>05/05/2020</td> </tr> <tr> <td colspan="2"></td> <td>CHECK</td> <td>JME</td> <td>05/05/2020</td> </tr> <tr> <td> <small>DRAWING NO.:</small> </td> <td colspan="2"> <b>BEL4-S-600</b> </td> <td> </td> <td> <small>APPR.</small> </td> <td> <small>MAF</small> </td> <td>05/05/2020</td> </tr> </table>						<b>BEL4-S-600 psi, RO PRESSURE VESSEL</b>		DESIGN	DMG	05/05/2020			CHECK	JME	05/05/2020	<small>DRAWING NO.:</small>	<b>BEL4-S-600</b>			<small>APPR.</small>	<small>MAF</small>	05/05/2020
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<small>DRAWING NO.:</small>	<b>BEL4-S-600</b>			<small>APPR.</small>	<small>MAF</small>	05/05/2020																
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				<b>REV.: 1</b>																		

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	10	41600-1
	50.6	40	28	40.2	38.2	22	
2	2300	2040	1550	2036	1986	16	41600-2
	90.6	80	61	80.2	78.2	36	
3	3316	3056	2550	3052	3002	23	41600-3
	130.6	120	100	120.2	118.2	50	
4	4332	4072	3250	4068	4018	29	41600-4
	170.6	160	128	160.2	158.2	65	
5	5349	5089	4250	5085	5035	36	41600-5
	210.6	200	167	200.2	198.2	79	
6	6367	6107	5250	6103	6053	42	41600-6
	250.7	240	207	240.3	238.3	93	

Warning.

- Never pressurize a pressure vessel that was not loaded with membrane elements.
- Wrong manifolding may cause an excessive pressure on port what can lead to leaks.
- Max. allowable working pressure not to exceed 600 psi. (41.4 bar).
- Permeate internal pressure not to exceed 125 psi. (8.6 bar).
- Operating temperature not to exceed 65°C (150°F).

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
1	799	539	410	485	7	40601-21
	31.5	21.2	16	19.1	15	
2	1333	1072.5	940	1018.5	10	40601-22
	52.5	42.2	37	40.1	23	
3	1866	1606	1480	1552	14	40601-23
	73.5	63.2	58	61.1	30	
4	2400	2139.5	2000	2085.5	17	40601-24
	94.5	84.2	79	82.1	38	
5	2934	2674	2540	2620	20	40601-25
	115.5	105.3	100	103.1	45	
6	3468	3207.5	3070	3153.5	24	40601-26
	136.5	126.3	121	124.2	53	
7	4003	3742.5	3600	3688.5	27	40601-27
	157.6	147.3	142	145.2	60	
8	4537	4277	4140	4223	31	40601-28
	178.6	168.4	163	166.3	67	
9	5072	4812	4670	4758	34	40601-29
	199.7	189.4	184	187.3	75	
10	5607	5346.5	5200	5292.5	37	40601-30
	220.7	210.5	205	208.4	82	
11	6142	5882	5740	5828	41	40601-31
	241.8	231.6	226	229.4	90	
12	6676	6415.5	6270	6361.5	44	40601-32
	262.8	252.6	247	250.5	97	

# ORDER / R.F.Q. FORM - 4" SIDE PORT PRESSURE VESSELS

Please fill and send it to your contact at BEL

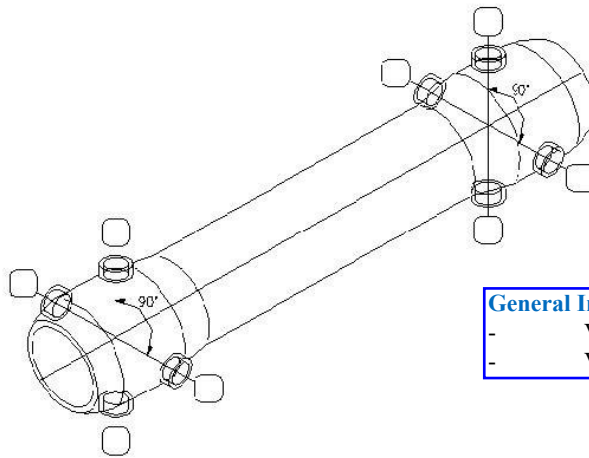
**P.O. / R.F.Q. Number:**

**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 connection **Vessel's Port diameters, according to ANSI Standards.**



**General Information for Permeate ports:**

- Vessels 300 psi & 450 psi: ½" NPT Female.
- Vessels 600 psi up to 1200 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

**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)**