



Shell length code	L (l.o.a.) mm. inch	S # (span) mm. inch	M, mm/in length for membranes elements	W weight kg. lb.	Article number
1	925	410	485	15	401801-21
	36.4	16	19.1	33	
2	1459	940	1018.5	21	401801-22
	57.4	37	40.1	46	
3	1992	1480	1552	27	401801-23
	78.4	58	61.1	60	
4	2526	2000	2085.5	34	401801-24
	99.4	79	82.1	75	
5	3060	2540	2620	40	401801-25
	120.5	100	103.1	88	
6	3594	3070	3153.5	46	401801-26
	141.5	121	124.2	101	
7	4129	3600	3688.5	52	401801-27
	162.6	142	145.2	115	
8	4663	4140	4223	58	401801-28
	183.6	163	166.3	128	
9	5198	4670	4758	64	401801-29
	204.6	184	187.3	141	
10	5733	5200	5292.5	71	401801-30
	225.7	205	208.4	157	
11	6268	5740	5828	77	401801-31
	246.8	226	229.4	170	
12	6802	6270	6361.5	83	401801-32
	267.8	247	250.5	183	

Table №1 for membrane length 21" ( 533.4mm. ).  
Table №2 for membrane length 40" ( 1016mm. ).

Shell length code	L (l.o.a.) mm. inch	S # (span) mm. inch	M, mm/in length for membranes elements (with membrane type)	W weight kg. lb.	Article number
1	1410	710	1020	21	401800-1
	55.5	28	40.2	46	
2	2426	1550	2036	32	401800-2
	95.5	61	80.2	71	
3	3442	2550	3052	44	401800-3
	135.5	100	120.2	97	
4	4458	3250	4068	56	401800-4
	175.5	128	160.2	123	
5	5475	4250	5085	68	401800-5
	215.6	167	200.2	150	
6	6493	5250	6103	80	401800-6
	255.6	207	240.3	176	

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

**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 1800 psi. (124.1 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 18 & 19 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. Storage & installation: Indoor.
8. Vessel's ports diameters according to ANSI Standards.

Item	Q-ty	Part Number	Description	Material
1	1	401800-0	Body of Pressure Vessel	Glass/Epoxy acc. F.I.202
2	2	009-034-1805	F/C Port NPT 3/4"	Super duplex stainless steel
3	4	55410234	Arc for Endport	316 Stainless steel
4	2	55412361	Seal for Endport	EPDM
5	2	55412369	Retaining ring for P. port	316 Stainless steel
6	2	005-416-1500	Support ring	316 Stainless steel
7	2	011-401-1202	Retaining ring for Support ring	316 Stainless steel
8	2	003-420-1813	Base plate	Aluminium
9	2	55410231	Sealing plate	Engineering plastic
10	2	55412360	Seal for base plate / sealing plate	EPDM
11	2	55412363	Seal for Permeate port	EPDM
12	2	55410253	Permeate port	Engineering plastic
13	6	55412377	Disk spacer	Engineering plastic
14	2	As required	Membrane seal	EPDM
15	2	As required	Adapter	Engineering plastic
16	2	55412367	Seal for adapter	EPDM
17	4-12	247212055	Disk spacer	PVC-Hard
- Vessel support parts - optional -				
18	2-3	55410352	Saddle	Engineering plastic
19	2	55410246	Strap	316 Stainless steel

	TITLE: BEL4-E-1800 psi. RO PRESSURE VESSEL		DESIGN	VMLS	28/02/2024
			CHECK	YV	28/02/2024
DRAWING NO:	BEL4-E-1800		APPR.	NMB	28/02/2024
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## ORDER / R.F.Q. FORM - 4" END PORT PRESSURE VESSELS

*Please fill and send it to your contact at BEL*

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

**Customer name:**

**1. NUMBER OF VESSELS:**

*(Please use separate forms for each type in case of multi-type orders)*

**2. WORKING PRESSURE RATE (PSI):**

300 / 450 / 600 / 1,000 / 1,200 / 1,500 / 1,800

**3. NUMBER OF MEMBRANE ELEMENTS IN EACH VESSEL:**

For 40" membranes length: (1 to 6)

For 21" membranes length: (1 to 12)

**4. MEMBRANE BRAND AND TYPE:**

**5. FEED / CONCENTRATE PORTS:** *Vessel's Port diameters, according to ANSI Standards.*

**5.1** - (for 600, 1.000, 1.200, 1.500 & 1.800 psi):  $\frac{3}{4}$ " NPT male (*standard*) /  $\frac{3}{4}$ " Victaulic (*special request*)

**5.2** - (for 300 psi & 450 psi):  $\frac{1}{2}$ " NPT female

**6. PERMEATE PORTS:**

**6.1** - (for 600, 1.000, 1.200, 1.500 & 1.800 psi):  $\frac{1}{2}$ " NPT Male

**6.2** - (for 300 psi & 450 psi):  $\frac{1}{2}$ " NPT Female

**7. CONFIRM TYPE – BEL4 E- - M**  
pressure #membranes

**8. SADDLES & STRAPS (Optional):** NO / YES (*please contact for pricing*)

**9. ADAPTERS OPTIONS:** Two Standard adapters / Standard & solid (blind) adapter

**10. COLOR:** Standard (white, RAL 9010) / Other RAL number: (*contact for pricing*)

Customer signature:

Date: