



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

Shell length code	L (l.o.a.) mm. inch	S# (span) mm. inch	M, mm/in length for membrane elements	W weight kg. lb.	Article number
25	2858	2200	2620	20	40451-25
	112.5	87	103.1	44	
26	3392	2700	3153.5	23	40451-26
	133.5	106	124.2	51	
27	3927	3200	3688.5	27	40451-27
	154.6	126	145.2	59	
28	4461	3700	4223	30	40451-28
	175.6	146	166.3	67	
29	4996	4200	4758	34	40451-29
	196.7	165	187.3	75	
30	5531	4700	5292.5	37	40451-30
	217.7	185	208.4	83	
31	6066	5200	5828	41	40451-31
	238.8	205	229.4	90	
32	6600	5700	6361.5	44	40451-32
	259.8	224	250.5	98	

Table №1  
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
3	3240	2550	3052	3002	22	40450-3
	127.6	100	120.2	118.2	49	
4	4256	3250	4068	4018	29	40450-4
	167.6	128	160.2	158.2	64	
5	5273	4250	5085	5035	36	40450-5
	207.6	167	200.2	198.2	79	
6	6291	5250	6103	6053	42	40450-6
	247.7	207	240.3	238.3	94	

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 effect 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 9 & 10 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	Part number	Q-ty	Title	Material
1	40450-1/2sh-ne	1	Body of Pressure Vessel	Glass/Epoxy
2	55410208	2	Retaining ring	316 stainless steel
3	003-400-0003	2	Base plate	Engineering plastic
4	55412360	2	Seal for base plate	EPDM
5	55412367	2	Seal for adapter	EPDM
6	55412377	0-6	Disk spacer	Engineering plastic
7	As required	2	Adapter	Engineering plastic
8	As required	2	Membrane seal	EPDM
<b>- Vessel support parts - optional -</b>				
9 *	55410246	2	Strap	316 stainless steel
10 *	55410352	2	Saddle	Engineering plastic

	TITLE: RO PRESSURE VESSEL BEL4-E-450 (for 3 to 6 membrane elements).		DESIGN	DMG	05/05/2020
			CHECK	JME	05/05/2020
DRAWING NO.: BEL4-E-450-3to6-sh-ne			APPR.	MAF	05/05/2020
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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

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

For 40" membranes length: (1to 6)

For 21" membranes length: (1 to 12)

<b>General Information for Permeate ports:</b>	
-	Vessels 300 psi & 450 psi: ½" NPT Female.
-	Vessels 600 psi up to 1500 psi: ½" NPT Male.

**4. MEMBRANE BRAND AND TYPE:**

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

**5.1** - (for 600 psi, 1,000 psi, 1,200 psi & 1,500 psi): ¾" NPT male (*standard*) / ¾" Victaulic (*special request*)

**5.2** - (for 300 psi & 450 psi): ½" NPT female

**80'CONFIRM TYPE – BEL4 E-                        -                        M**  
pressure        #membranes

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

**:. 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)**