



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	W weight kg, lb.	Article number
1	1128	710	968	8	41450-1
	44,4	28	38,1	17	
2	2153	1550	1985	13	41450-2
	84,8	61	78,1	28	

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 membranes elements	W weight kg, lb.	Article number
21	648	508	480	5	41451-21
	25.5	20	18.9	12	
22	1182	1042	1014	8	41451-22
	46.5	41	39.9	17	
23	1717	1577	1549	10	41451-23
	67.6	62	61.0	23	
24	2253	2113	2085	13	41451-24
	88.7	83	82.1	29	

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 6 & 7 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	Membrane seal	EPDM

- Vessel support parts - optional -

6 *	55410246	2	Strap	316 stainless steel
7 *	55410352	2	Saddle	Engineering plastic

	TITLE: RO PRESSURE VESSEL BEL4-E-450 (for 1 & 2 membrane elements).	DESIGN	VMLS	13/05/2024
		CHECK	SRS	13/05/2024
DRAWING NO: BEL4-E-450-1&2-sh-ne		APPR.	VMLS	13/05/2024

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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): 3/4" NPT male (*standard*) / 3/4" Victaulic (*special request*)

5.2 - (for 300 psi & 450 psi): 1/2" NPT female

6. PERMEATE PORTS:

6.1 - (for 600, 1.000, 1.200, 1.500 & 1.800 psi): 1/2" NPT Male

6.2 - (for 300 psi & 450 psi): 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: