

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	1136	710	968	8	41450-1
	44.7	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	DMG	05/05/2020
			CHECK	JME	05/05/2020
DRAWING NO:	BEL4-E-450-1&2-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)

General Information for Permeate ports:

- 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