



Notes:

- All dimensions are for reference only, not for construction unless certified.
- * - *Item 17 & 18 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.
- Storage & installation: Indoor.
- Vessel's ports diameters according to ANSI Standards.

Item	Part number	Q-ty	Title	Material
1	401200-0	1	Body of Pressure Vessel	Glass/Epoxy
2	009-034-1200/v	2	F/C Port	Super Duplex Stainless Steel
3	011-034-1202	2	Retaining ring for End port	316 stainless steel
4	55412361	2	Seal for End port	EPDM
5	55412369	2	Retaining ring for P.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	003-400-1003	2	Base plate	Aluminum
9	55410231	2	Sealing plate	Engineering plastic
10	55412360	2	Seal for Sealing plate	EPDM
11	55412363	2	Seal for Permeate port	EPDM
12	008-403-1200	2	Permeate port	Engineering plastic
13	55412377	0-6	Disk spacer	Engineering plastic
14	As required	2	Membrane seal	EPDM
15	As required	2	Adapter	Engineering plastic
16	55412367	2	Seal for Adapter	EPDM

- Vessel support parts - optional -

17*	55410246	2	Strap	316 stainless steel
18*	55410352	2-3	Saddle	Engineering plastic

	TITLE: BEL4-E-1200 psi. RO PRESSURE VESSEL		DESIGN	DMG	05/05/2020
	DRAWING NO.: BEL4-E-1200		CHECK	JME	05/05/2020
		APPR.	MAF	05/05/2020	REV.: 1

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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	1350	710	1020	970	16	401200-1
	53.1	28	40.2	38.2	35	
2	2366	1550	2036	1986	25	401200-2
	93.1	61	80.2	78.2	55	
3	3382	2550	3052	3002	34	401200-3
	133.1	100	120.2	118.2	74	
4	4398	3250	4068	4018	42	401200-4
	173.1	128	160.2	158.2	94	
5	5415	4250	5085	5035	51	401200-5
	213.2	167	200.2	198.2	113	
6	6433	5250	6103	6053	60	401200-6
	253.3	207	240.3	238.3	132	

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

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 1200 psi. (83 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	S# (span) mm. inch	M, mm/in length for membranes elements	W weight kg. lb.	Article number
1	865	410	485	12	401201-21
	34.1	16	19.1	26	
2	1399	940	1018.5	17	401201-22
	55.1	37	40.1	36	
3	1932	1480	1552	21	401201-23
	76.1	58	61.1	47	
4	2466	2000	2085.5	26	401201-24
	97.1	79	82.1	57	
5	3000	2540	2620	30	401201-25
	118.1	100	103.1	67	
6	3534	3070	3153.5	35	401201-26
	139.1	121	124.2	77	
7	4069	3600	3688.5	40	401201-27
	160.2	142	145.2	87	
8	4603	4140	4223	44	401201-28
	181.2	163	166.3	97	
9	5138	4670	4758	49	401201-29
	202.3	184	187.3	108	
10	5673	5200	5292.5	53	401201-30
	223.3	205	208.4	118	
11	6208	5740	5828	58	401201-31
	244.4	226	229.4	128	
12	6742	6270	6361.5	63	401201-32
	265.4	247	250.5	138	



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