



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.

Shell length code	L (l.o.a.)	S# (span)	M, mm/in length for membranes elements	W weight	Article number
	mm. inch	mm. inch	mm/in	kg. lb.	
1	871	410	485	13	401501-21
	34.3	16	19.1	29	
2	1405	940	1018.5	18	401501-22
	55.3	37	40.1	40	
3	1938	1480	1552	23	401501-23
	76.3	58	61.1	52	
4	2472	2000	2085.5	29	401501-24
	97.3	79	82.1	63	
5	3006	2540	2620	34	401501-25
	118.3	100	103.1	75	
6	3540	3070	3153.5	39	401501-26
	139.4	121	124.2	86	
7	4075	3600	3688.5	44	401501-27
	160.4	142	145.2	98	
8	4609	4140	4223	50	401501-28
	181.5	163	166.3	109	
9	5144	4670	4758	55	401501-29
	202.5	184	187.3	121	
10	5679	5200	5292.5	60	401501-30
	223.6	205	208.4	132	
11	6214	5740	5828	65	401501-31
	244.6	226	229.4	144	
12	6748	6270	6361.5	71	401501-32
	265.6	247	250.5	156	

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

Shell length code	L (l.o.a.)	S# (span)	M, mm/in length for membranes elements (with membrane type)		W weight	Article number
	mm. inch	mm. inch	mm/in	mm/in		
1	1356	710	1020	970	18	401500-1
	53.4	28	40.2	38.2	40	
2	2372	1550	2036	1986	28	401500-2
	93.4	61	80.2	78.2	62	
3	3388	2550	3052	3002	38	401500-3
	133.4	100	120.2	118.2	84	
4	4404	3250	4068	4018	48	401500-4
	173.4	128	160.2	158.2	107	
5	5421	4250	5085	5035	59	401500-5
	213.4	167	200.2	198.2	129	
6	6439	5250	6103	6053	69	401500-6
	253.5	207	240.3	238.3	152	

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 1500 psi. (103.4 bar).
- Permeate internal pressure not to exceed 125 psi. (8.6 bar).
- Operating temperature not to exceed 65°C (150°F).

Item	Q-ty	Part Number	Description	Material	
1	1	401500-0	Body of Pressure Vessel	Glass/Epoxy	
2	2	009-034-1200/v	F/C Port	Super duplex stainless steel	
3	2	011-034-1202	Retaining ring 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	003-423-1003	Base plate	316 Stainless steel	
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	008-403-1200	Permeate port	Engineering plastic	
13	6	55412377	Disk spacer	Engineering plastic	
14	2	55412367	Membrane seal	EPDM	
15	2	As required	Adapter	Engineering plastic	
16	2	As required	Seal for adapter	EPDM	
<b>- Vessel support parts - optional -</b>					
17	2 - 3	55410352	Saddle	Engineering plastic	
18	2	55410246	Strap	316 Stainless steel	
	TITLE: BEL4-E-1500 psi, RO PRESSURE VESSEL		DESIGN	DMG	05/05/2020
			CHECK	JME	05/05/2020
DRAWING NO:	BEL4-E-1500		APPR.	MAF	05/05/2020
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REV.: 1					

## 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: (1 to 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](http://www.belvessels.com)**