

GENERAL DRAWING

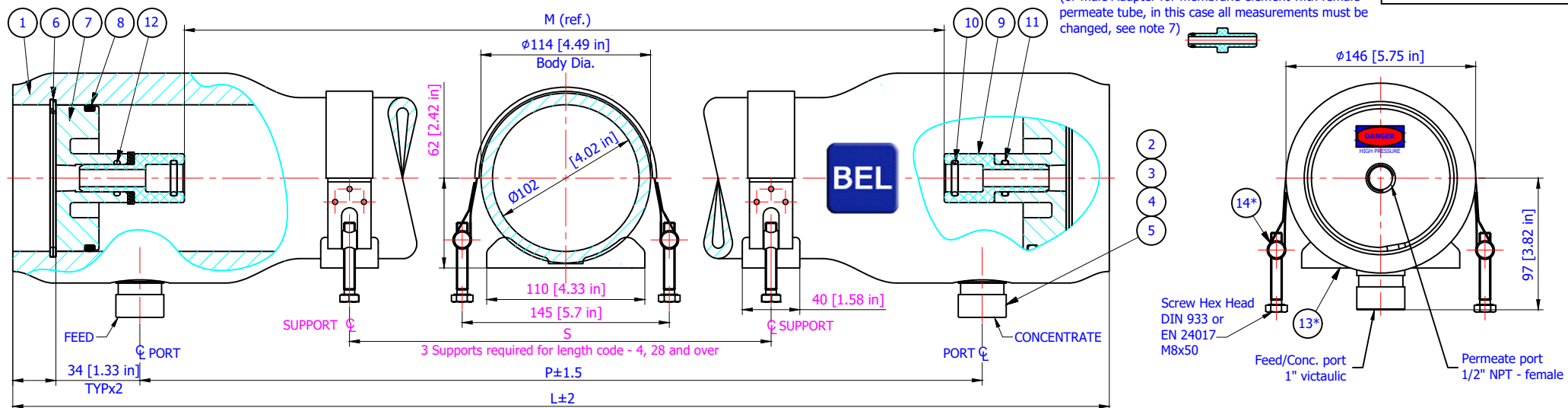


Table №1 for membrane length 21" (533.4mm.).
Table №2 for membrane length 40" (1016mm.).

Shell length code	L (l.o.a.) mm, inch	P port to port, mm, Inch	S # (span) mm, inch	M, mm/in length for membranes elements	W weight kg, lb.	Article number
21	723 28,5	540 21,3	180 7,09	485 19,1	6 13	41451-21
22	1256,5 49,5	1073,5 42,3	650 25,59	1018,5 40,1	8 18	41451-22
23	1790 70,5	1607 63,3	1200 47,24	1552 61,1	11 24	41451-23
24	2323,5 91,5	2140,5 84,3	1700 66,93	2085,5 82,1	13 29	41451-24
25	2858 112,5	2675 105,3	2200 86,61	2620 103,1	16 35	41451-25
26	3391,5 133,5	3208,5 126,3	2700 106,30	3153,5 124,2	18 40	41451-26
27	3926,5 154,6	3743,5 147,4	3200 125,98	3688,5 145,2	21 46	41451-27
28	4461 175,6	4278 168,4	3700 145,67	4223 166,3	24 53	41451-28
29	4996 196,7	4813 189,5	4200 165,35	4758 187,3	26 57	41451-29
30	5530,5 217,7	5347,5 210,5	4700 185,04	5292,5 208,4	29 64	41451-30
31	6066 238,8	5883 231,6	5200 204,72	5828 229,4	31 68	41451-31
32	6599,5 259,8	6416,5 252,6	5700 224,41	6361,5 250,5	34 75	41451-32

Warning.

1. Never pressurize a pressure vessel that was not loaded with membrane elements.
2. Wrong manifolding may cause 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 13 & 14 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. For further information please contact BEL.
8. Storage & installation: Indoor.
9. Vessel's ports diameters according to ANSI Standards.

Item	Part Number	Q-ty	Description	Material		
1	41450-0	1	Body of Pressure Vessel	Glass/Epoxy		
2	009-106-0450	2	Sideport 1"	Stainless steel		
3	014-100-0505	2	Seal for Sideport 1"	EPDM		
4	006-116-1202	2	Disk for Sideport 1"	Stainless steel		
5	011-100-1202	4	R.Ring for Sideport 1"	Stainless steel		
6	55410208	2	Retaining ring	Stainless steel		
7	003-400-0005	2	Base plate	Engineering plastic		
8	55412360	2	Seal for base plate	EPDM		
9	as required	2	Membrane Adapter	Engineering plastic		
10	as required	2	Membrane seal	EPDM		
11	55412367	2	Seal for adapter	EPDM		
12	55412377	0-6	Disk spacer	Engineering plastic		
Vessel support parts - optional -						
13*	55410352	2-3	Saddle	Engineering plastic		
14*	55410246	2	Strap	Stainless steel		
	TITLE: BEL4-S(1")-450 psi. RO PRESSURE VESSEL			DESIGN	VMLS	29/08/2025
				CHECK	SRS	29/08/2025
	DRAWING NO.:	BEL4-S(1")-450		APPR.	VMLS	29/08/2025
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ORDER / R.F.Q. FORM - 4" SIDE PORT PRESSURE VESSELS

Please fill and send it to your contact at BEL

P.O. / R.F.Q. Number:

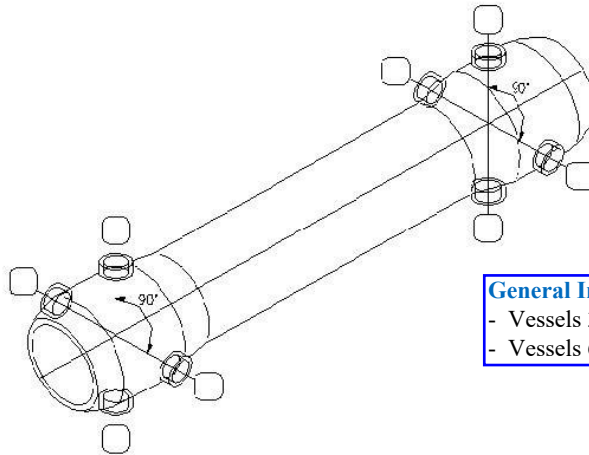
Customer name:

1. F/C PORTS CONFIGURATION: Please indicate side port requirement on each side of the vessel
(Mark the letter indicating port diameter in the box at each required port location)

A – 1" Victaulic B – 1.5" Victaulic (Except for 1500 psi models)

Vessel's Port diameters, according to ANSI Standards.

(Ports with a diameter of 1.5" cannot be mounted in 90° with any other port)



General Information for Permeate ports:

- Vessels 300 psi & 450 psi: ½" NPT Female.
- Vessels 600 psi up to 1500 psi: ½" NPT Male.

2. NUMBER OF VESSELS:

(Please use separate forms for each type in case of multi-type orders)

3. WORKING PRESSURE RATE (PSI): 300 / 450 / 600 / 1,000 / 1,200 / 1500

4. NUMBER OF MEMBRANE ELEMENTS IN EACH VESSEL:

For 40" membranes length: (1 to 6)

For 21" membranes length: (1 to 12)

5. MEMBRANE BRAND AND TYPE:

6. CONFIRM TYPE – BEL4-S- (x) - - M

of ports diam. Port pressure #membranes

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

8. ADAPTERS OPTIONS: Two Standard adapters / Standard & Solid (blind) adapter

9. COLOR: Standard (white, RAL 9010) / Other RAL number: *(contact for pricing)*

Customer signature:

Date:

FOR DETAILS PLEASE VISIT OUR WEBSITE: www.belvessels.com