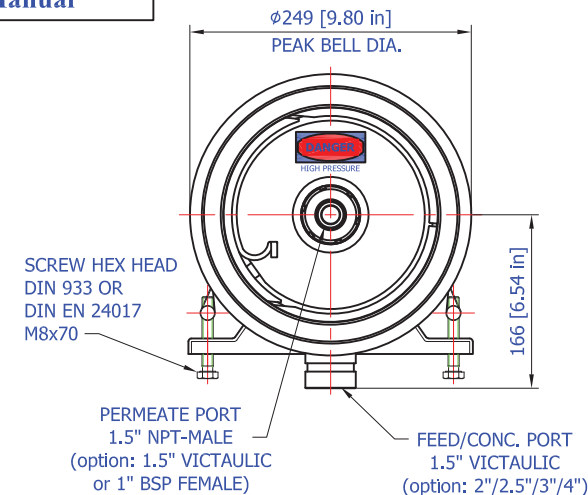
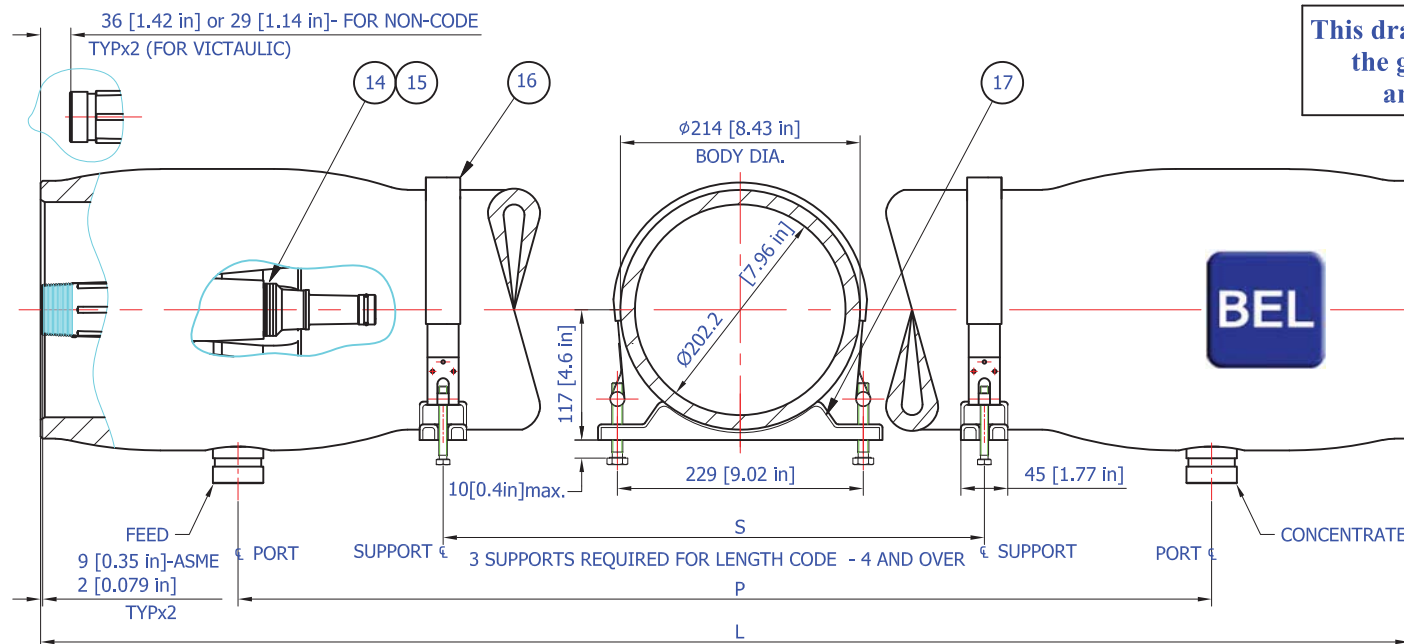


This drawing is an integral part of
the general statement of use
and Technical Manual

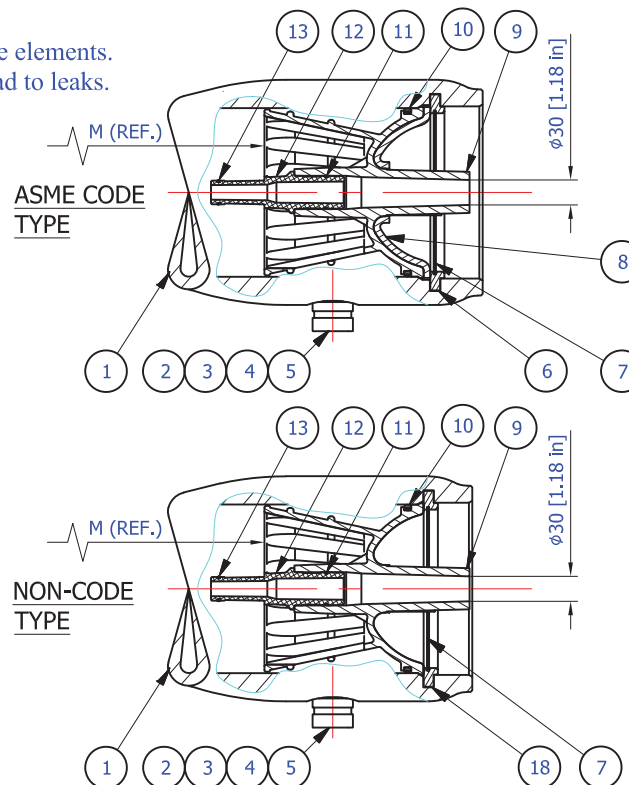


Notes:

1. All dimensions are for reference only, not for construction unless certified.
2. Item 14 & 15 should be located on feed side.
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. Length between ports (P) can be changed to adapt old dimension - with customer's special request.
7. The vessel is supplied with two strap assembly.
8. Storage & installation: Indoor.
9. For tolerances & sizes, please check the drawing in page 2.
10. Vessel's Port diameters, according to ANSI Standards.

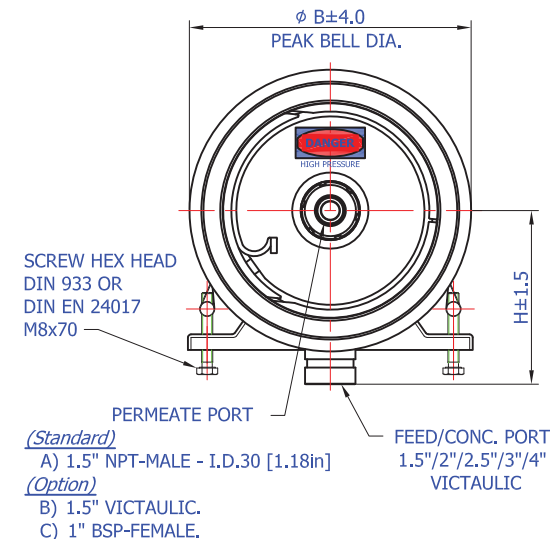
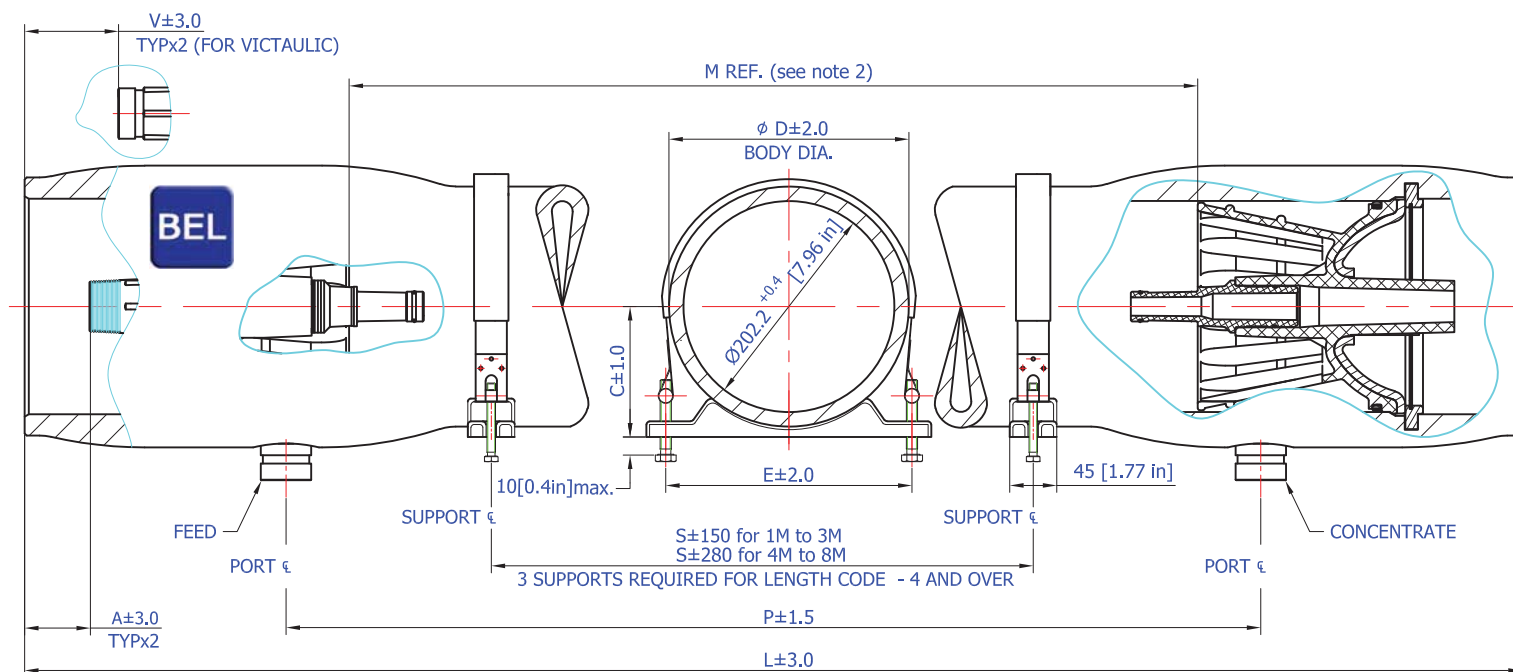
Warning.

1. Never pressurize a pressure vessel that was not loaded with membrane elements.
2. Wrong manifolding may cause an excessive load on port what can lead to leaks.
3. Max. allowable working pressure not to exceed 300 psi. (20.7 bar).
4. Permeate internal pressure not to exceed 125 psi. (8.6 bar).
5. Operating temperature not to exceed 65°C (150°F).



Item	Q-ty	Part Number	Description	Material
1	1	81300-0	Body of Pressure Vessel	Glass/Epoxy
2	2	040-156-0458	F/C port 1,5"	Stainless steel
3	2	006-156-0452	Disk for sideport	Stainless steel
4	2	014-150-0506	Seal for sideport	EPDM
5	4	011-150-1202	Retaining ring for SP	Stainless steel
6	2	55410299	Support ring (Code)	Aluminum
7	2	011-801-1202	Retaining ring (finger hook)	Stainless steel
8	2	285453003	Metal cap 3mm (Code)	Stainless steel
9	2	285779010/Vg	End cap	Engineering plastic
10	2	007-080-0092	Seal for End cap	EPDM
11	2	285773918	Seal for Adapter	EPDM
12	2	As required	Adapter	Engineering plastic
13	2-4	As required	Membrane seal	EPDM
14	0-3	285779231	Disk spacer - 1mm	Engineering plastic
15	0-7	285779233	Disk spacer - 3mm	Engineering plastic
16	2	55410310	Strap Assy.	Stainless steel
17	2-3	55410351	Saddle	Engineering plastic
18	2	285034015	Support ring (Non Code)	Engineering plastic

	TITLE: BEL8-S-300 psi. RO PRESSURE VESSEL		DESIGN	DMG	04/05/2020
			CHECK	JME	04/05/2020
DRAWING NO: BEL8-S(1.5")-300/300A		APPR.	MAF	04/05/2020	
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Notes:

1. All dimensions are for reference only, not for construction unless certified.
2. For membranes shimming (if needed) use disks spacers on feed side of the vessels.
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 is supplied with two strap assembly.
7. For 1500 psi vessels see the General Drawing for BEL8-S-1500-PV / R14.
8. Storage & installation: Indoor.
9. Vessel's Port diameters, according to ANSI Standards.

This drawing is an integral part of
the general statement of use
and Technical Manual

* Ports with special height (H) in vessel and Length
between ports (P), can be changed to adapt old
dimension - with customer's special request.

** NC (Non Code)

Working pressure, psi (bar)	A, mm / in. from permeate to edge	V, mm / in. from permeate to edge	C, mm / in. from support to center line	D, mm / in. vessel's outer diameter	E, mm / in. distance between fasten bolts
300 NC** (20.7)	2 0.08	29 1.14	117 4.61	214 8.43	229 9.02
300 Code (20.7)	9 0.35	36 1.42	117 4.61	214 8.43	229 9.02
450 (31)	9 0.35	36 1.42	118 4.65	216 8.50	229 9.02
600 (41.4)	21 0.83	48 1.89	120 4.72	220 8.66	229 9.02
1000 (69)	45 1.77	72 2.83	122.5 4.82	225 8.86	236 9.29
1200 (82.7)	65 2.56	92 3.62	124.5 4.90	229 9.02	236 9.29

Membranes quantity	Length between ports, supports & internal space for membranes elements, mm./inch							
	1	2	3	4	5	6	7	8
P, port to port	1194 47	2210 87	3226 127	4242 167	5258 207	6274 247	7290 287	8306 327
S, supports span	500 19.7	1500 59.1	2500 98.4	3250 128	4250 167.3	5250 206.7	6250 246.1	7250 285.4
M, space of membranes	1032 40.6	2048 80.6	3064 120.6	4080 160.6	5096 200.6	6112 240.6	7128 280.6	8144 320.6

Membranes quantity	L (Length of pressure vessels), mm./inch							
	1	2	3	4	5	6	7	8
300 NC** (20.7)	1526 60.08	2542 100.08	3558 140.08	4574 180.08	5590 220.08	6606 260.08	7622 300.08	8638 340.08
300 code (20.7)	1542 60.71	2558 100.71	3574 140.71	4590 180.71	5606 220.71	6622 260.71	7638 300.71	8654 340.71
450 (31)	1542 60.71	2558 100.71	3574 140.71	4590 180.71	5606 220.71	6622 260.71	7638 300.71	8654 340.71
600 (41.4)	1566 61.65	2582 101.65	3598 141.65	4614 181.65	5630 221.65	6646 261.65	7662 301.65	8678 341.65
1000 (69)	1612 63.46	2628 103.46	3644 143.46	4660 183.46	5676 223.46	6692 263.46	7708 303.46	8724 343.46
1200 (82.7)	1652 65.04	2668 105.04	3684 145.04	4700 185.04	5716 225.04	6732 265.04	7748 305.04	8764 345.04

B (Peak bell diameter), mm./inch						
Side port dia.	1.5"	2"	2.5"	3"	4"	
300 (20.7)	249 9.80	257 10.12	265 10.43	282 11.10	288 11.34	
450 (31)	249 9.80	257 10.12	266 10.47	282 11.10	288 11.34	
600 (41.4)	254 10.00	268 10.55	278 10.94	290 11.42	298 11.73	
1000 (69)	276 10.87	286 11.26	291 11.46	301 11.85	312 12.28	
1200 (82.7)	278 10.94	288 11.34	292 11.50	303 11.93	314 12.36	

H (Height of side port), mm./inch					
Side port dia.	1.5"	2"	2.5"	3"	4"
300 (20.7)	166 6.54	166 6.54	166 6.54	166 6.54	175 6.89
450 (31)	166 6.54	166 6.54	166 6.54	166 6.54	175 6.89
600 (41.4)	171 6.73	171 6.73	171 6.73	171 6.73	180 7.09
1000 (69)	175 6.89	175 6.89	175 6.89	175 6.89	183 7.20
1200 (82.7)	175 6.89	175 6.89	175 6.89	175 6.89	183 7.20

Warning.

1. Never pressurize a pressure vessel that was not loaded with membrane elements.
2. Wrong manifolding may effect an excessive load on port what can lead to leaks.
3. Max. allowable pressure not to exceed the indicated working pressure.
4. Permeate internal pressure not to exceed 125 psi. (8.6 bar).
5. Operating temperature not to exceed 65°C (150°F).

	TITLE: BEL 8" Side Port RO PRESSURE VESSEL		DESIGN	DMG	04/05/2020
			CHECK	JME	04/05/2020
DRAWING NO.:	BEL8-S-PV		APPR.	MAF	04/05/2020
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ORDER / R.F.Q. FORM - 8" SIDE PORT PRESSURE VESSELS

Please fill and send it to your contact at BEL

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

Customer name:

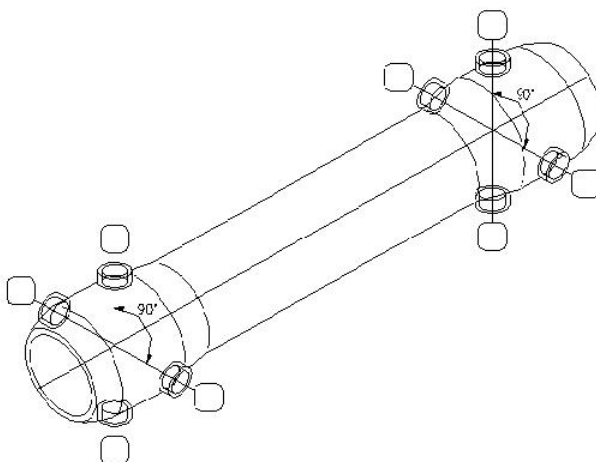
1. NEW SYSTEM / EXISTING SYSTEM or Replacement , please provide details:

2. 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 – 1.5" B – 2" C – 2.5" D – 3" E – 4"

Vessel's Port diameters, according to ANSI Standards.

(Ports with a diameter of 2.5" & 3" & 4" cannot be mounted in 90° from with any other port)



3. NUMBER OF VESSELS: Units

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

4. WORKING PRESSURE RATE (PSI): 300 450 600 1,000 1,200

5. NUMBER OF MEMBRANE ELEMENTS IN EACH VESSEL: (1,,,,,,8)

6. MEMBRANE BRAND AND TYPE:

7. CONFIRM TYPE: BEL8-S - (x) - - M

of ports dia. of port pressure # of membranes - (Example: BEL8 - S(4 x 2.5") – 1,000 - 7M)

8. PERMEATE PORTS OUTLET: 1.5" NPT male 1.5" Victaulic grooved 1" BSP female

9. ASME code SEC. X, RP stamped vessel: NO YES (please contact for pricing)

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

11. COLOR: Standard (white, RAL 9010) Other RAL number: (contact for pricing)

Customer signature:

Date:

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

May, 2020