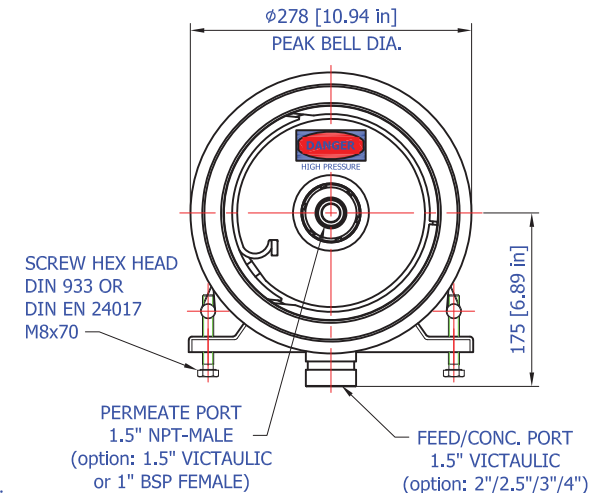
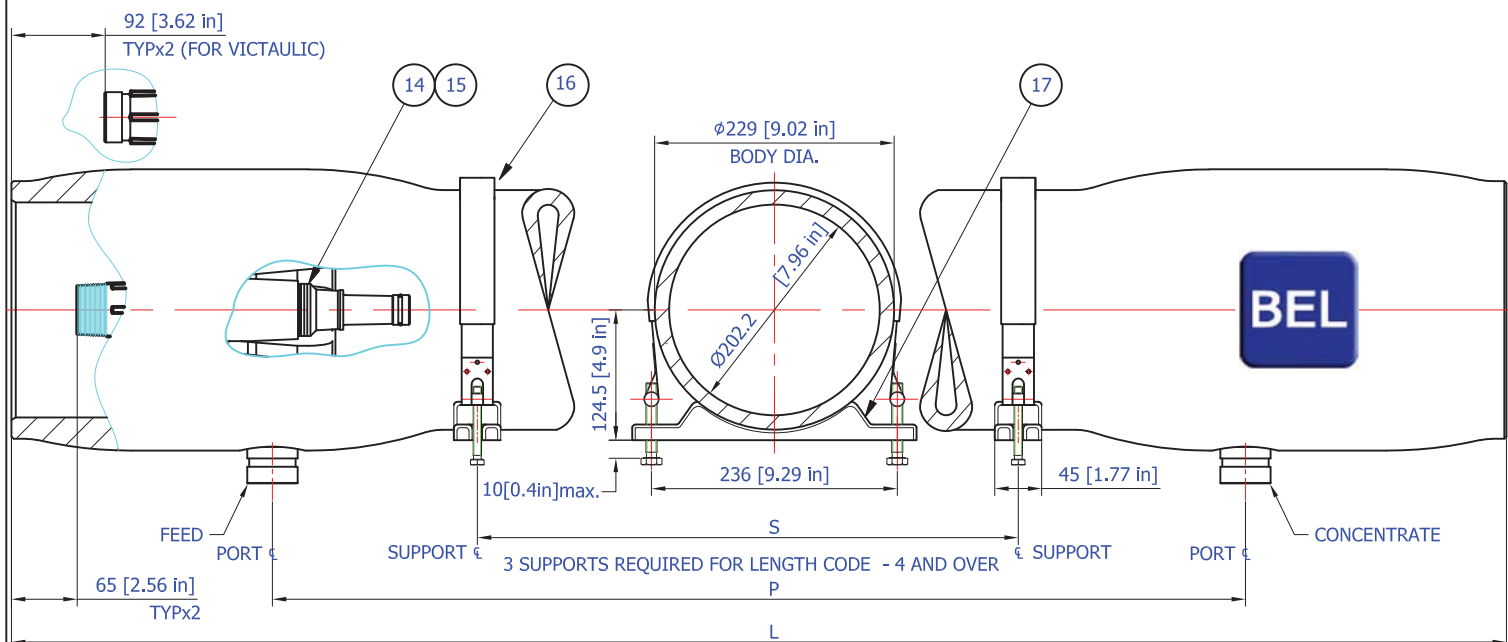
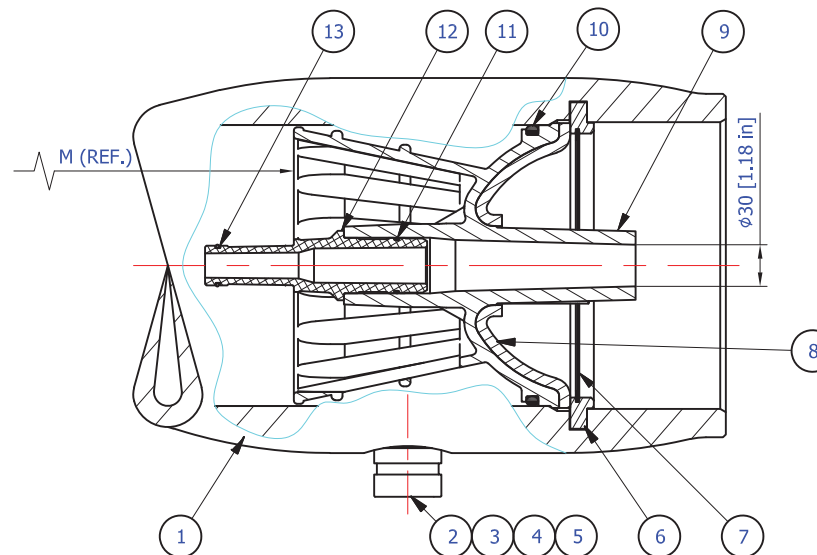




Notes:

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.

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



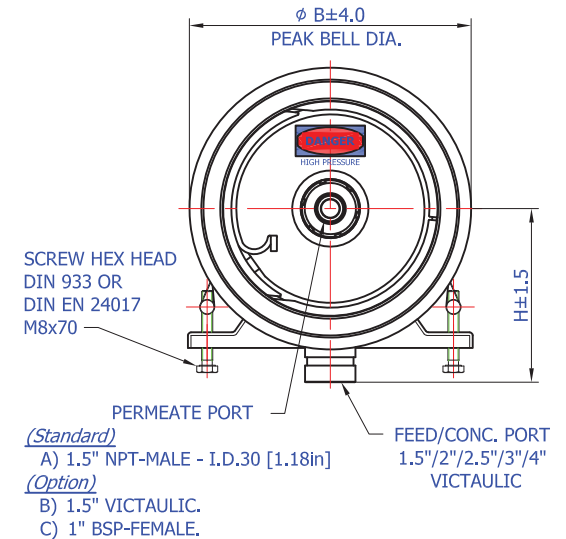
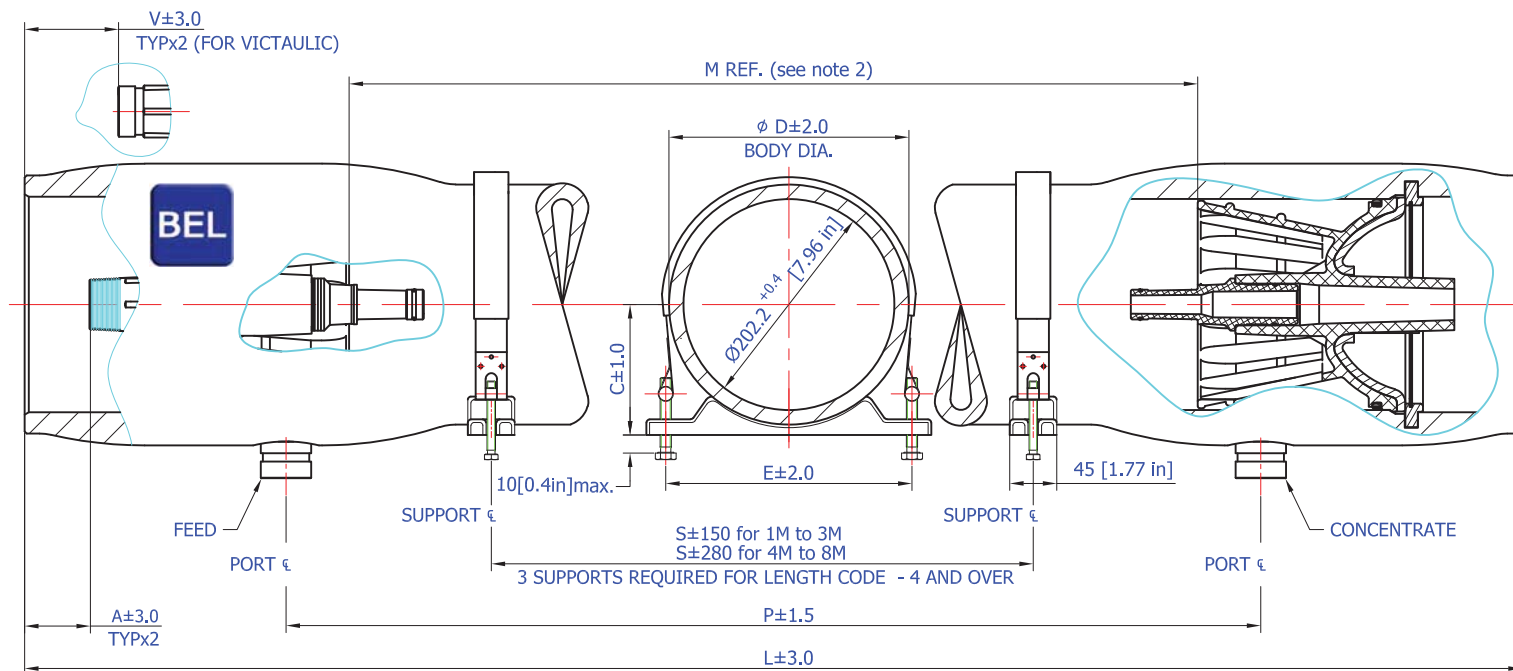
Warning.

1. Never pressurize a pressure vessel that was not loaded with membrane elements.
2. Wrong manifolding may cause an excessive load on port what can lead to leaks.
3. Max. allowable working pressure not to exceed 1200 psi. (83 bar).
4. Permeate internal pressure not to exceed 125 psi. (8.6 bar).
5. Operating temperature not to exceed 65°C (150°F).

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
1	1652 65.0	1194 47	500 20	1032 40.6	73.1 161.1	811200-1
2	2668 105.0	2210 87	1500 59	2048 80.6	94 207.2	811200-2
3	3684 145.0	3226 127	2500 98	3064 120.6	114.9 253.3	811200-3
4	4700 185.0	4242 167	3250 128	4080 160.6	135.8 299.4	811200-4
5	5716 225.0	5258 207	4250 167	5096 200.6	156.7 345.5	811200-5
6	6732 265.0	6274 247	5250 207	6112 240.6	177.6 391.6	811200-6
7	7748 305.0	7290 287	6250 246	7128 280.6	198.5 437.7	811200-7
8	8764 345.0	8306 327	7250 285	8144 320.6	219.4 483.8	811200-8

Item	Q-ty	Part Number	Description	Material
1	1	812000-0	Body of Pressure Vessel	Glass/Epoxy
2	2	040-155-1200	F/C port 1,5"	Super duplex
3	2	006-156-1203	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	005-861-1200	Support ring	Aluminum
7	2	011-801-1202	Retaining ring (finger hook)	Stainless steel
8	2	285213006	Metal cap 6mm	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				

BEL	TITLE: BEL8-S-1200 psi. RO PRESSURE VESSEL	DESIGN	DMG	04/05/2020
		CHECK	JME	04/05/2020
DRAWING NO: BEL8-S(1.5")-1200		APPR.	MAF	04/05/2020
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				REV.: 12



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.	V, mm / in.	C, mm / in.	D, mm / in.	E, mm / in.
	from permeate to edge	from permeate to edge	from support to center line	vessel's outer diameter	distance between fasten bolts
300 NC** (20.7)	2	29	117	214	229
300 Code (20.7)	0.08	1.14	4.61	8.43	9.02
450 (31)	9	36	117	214	229
450 (31)	0.35	1.42	4.61	8.43	9.02
600 (41.4)	9	36	118	216	229
600 (41.4)	0.35	1.42	4.65	8.50	9.02
1000 (69)	21	48	120	220	229
1000 (69)	0.83	1.89	4.72	8.66	9.02
1200 (82.7)	45	72	122.5	225	236
1200 (82.7)	1.77	2.83	4.82	8.86	9.29
1500 (103.4)	65	92	124.5	229	236
1500 (103.4)	2.56	3.62	4.90	9.02	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	2210	3226	4242	5258	6274	7290	8306
	47	87	127	167	207	247	287	327
S, supports span	500	1500	2500	3250	4250	5250	6250	7250
	19.7	59.1	98.4	128	167.3	206.7	246.1	285.4
M, space of membranes	1032	2048	3064	4080	5096	6112	7128	8144
	40.6	80.6	120.6	160.6	200.6	240.6	280.6	320.6

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

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

H (Height of side port), mm./inch						
Side port dia.	1.5"	2"	2.5"	3"	4"	
300 (20.7)	166	166	166	166	175	
300 (20.7)	6.54	6.54	6.54	6.54	6.89	
450 (31)	166	166	166	166	175	
450 (31)	6.54	6.54	6.54	6.54	6.89	
600 (41.4)	171	171	171	171	180	
600 (41.4)	6.73	6.73	6.73	6.73	7.09	
1000 (69)	175	175	175	175	183	
1000 (69)	6.89	6.89	6.89	6.89	7.20	
1200 (82.7)	175	175	175	175	183	
1200 (82.7)	6.89	6.89	6.89	6.89	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:		DESIGN	DMG	04/05/2020
	BEL 8" Side Port RO PRESSURE VESSEL		CHECK	JME	04/05/2020
	DRAWING NO: BEL8-S-PV			APPR.	MAF
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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:

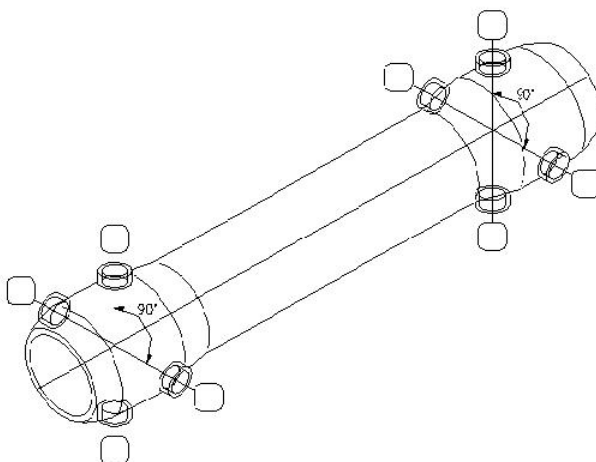
1. NEW SYSTEM / EXISTING SYSTEM or Replacement , please provide details:

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