



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

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

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.

\* 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)

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
	60.08	100.08	140.08	180.08	220.08	260.08	300.08	340.08
300 code (20.7)	1542	2558	3574	4590	5606	6622	7638	8654
	60.71	100.71	140.71	180.71	220.71	260.71	300.71	340.71
450 (31)	1542	2558	3574	4590	5606	6622	7638	8654
	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
	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
	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
	65.04	105.04	145.04	185.04	225.04	265.04	305.04	345.04

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	29	117	214	229
300 Code (20.7)	0.08	1.14	4.61	8.43	9.02
450 (31)	9	36	118	216	229
	0.35	1.42	4.61	8.43	9.02
600 (41.4)	21	48	120	220	229
	0.83	1.89	4.72	8.66	9.02
1000 (69)	45	72	122.5	225	236
	1.77	2.83	4.82	8.86	9.29
1200 (82.7)	65	92	124.5	229	236
	2.56	3.62	4.90	9.02	9.29

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).

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

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

<b>BEL</b>	TITLE: BEL 8" Side Port RO PRESSURE VESSEL	DESIGN: DMG	DATE: 04/05/2020
	DRAWING NO: BEL8-S-PV	CHECK: JME	DATE: 04/05/2020
APPR. MAF		DATE: 04/05/2020	REV.: 14

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