

Products

Available Membrane Pressure Vessel Products

Pressure	2.5" End port	4" End port	4" Side port	8" End port	8" Side port
150 psi				A	A
300 psi	A	A	A	A	A
450 psi		A	A	A	A
600 psi				A	A
1000 psi	A	A	A	A	A
1200 psi				A	A

A – Available pressure rating

Features

2.5 And 4 inches Membrane Pressure Vessels

- ✧ High strength, smooth inner surface and durable FRP shell.
- ✧ Length available:
 - ✧ Single element of 14", 21" and 40" to 2 element;
 - ✧ Single element of 21" and 40" up to 6 elements to 6 element
- ✧ SS 316 head locking baffle for simple and safe head assembling for 300 and 450 psi vessels. Three turns locking ring design for 1000 psi vessels
- ✧ Insert plastic permeate port material
- ✧ Polyurethane outermost coating provides extra protection to environment and good appearance.
- ✧ White color is as standard. Other colors are also available.



Side Port Type

- ✧ Feed/ concentrate port - 1" SS 316 mechanical coupling connection for 300 and 450 psi vessels, 1" duplex SS mechanical coupling for 1000 psi vessels.
- ✧ 1/2" NPT or BSP permeate port connection

End Port Type

- ✧ Insert plastic head material; EPDM O-ring seal
- ✧ Feed/ concentrate port connection
 - 4" vessels: 3/4" or 1/2" FNPT or BSP PVC for 300 and 450 psi vessels;
3/4" MNPT duplex steel for 1000 psi vessels;
 - 2.5" vessels: 1/4" or 3/8" FNPT or BSP PVC for 300 psi vessels;
1/4" or 3/8" FNPT or BSP duplex steel for 1000 psi vessels;
- ✧ Permeate port connection
 - 4" vessels: 1/2" NPT or BSP;
 - 2.5" vessels: 1/4" NPT or BSP

8 inches Membrane Pressure Vessels

- ✧ High strength and durable FRP shell
- ✧ ASME manufacture process,
- ✧ One piece molded lock thrust cone design reduces pressure drop with highest water flow. Cone shape design provides highest pressure tolerance up to 275 Kg/cm².
- ✧ SS 316 three turn spiral lock ring for easy and safe head assembly.
- ✧ assemble and disassemble
- ✧ ABS permeate adaptor. OD 1.125" is standard. Different ODs are available for retrofit membrane element with different permeate tube dimensions.
- ✧ Polyurethane outermost coating provides extra protection to environment and good appearance.
- ✧ Length available from 1 element through 8 elements
- ✧ White color is as standard. Other colors are also available.
- ✧ ASME Code stamp available upon request



Side Port Type

- ✧ Feed/conc port size available in 1.5" MC(standard), 2" MC and 2-1/2" MC, 3" MC(mechanical coupling connection)
- ✧ 2 side ports are offered as standard, multi-port with different clocking are available.
- ✧ 1" PVC pipe union Permeate connection is standard. Other custom permeate connectors are available on request.
- ✧ For seawater vessels, side port material standard is Duplex, Super Duplex (4%/6% Mo) available upon request.

End Port Type

- ✧ Feed/concentrate port size available in 1.5" MC (standard)
- ✧ 1" PVC pipe union Permeate connection is standard. Other custom permeate connectors are available on request

Permeate port options

Various options of permeate connections are provided to suit different installation requirement.

Option	Description
J	Socket Union Adaptor, PVC, 1.32" O.D. Pipe
H	Socket Union Adaptor, PVC, 32 mm O.D. Pipe
V	Mechanical Coupling 1"-PVC
S	Mechanical Coupling 1"-SS
M	Male thread NPT 1 ¹ / ₄ "
N	Male thread NPT 1 1/2"
F	Female thread NPT 1"
G	Female thread Rp 1"
UF	Connected to Victualic Fitting
W	Sanitary Connection 1"
K	Sanitary Connection 1.5"

(All the mechanical coupling connection is additional charged)