# **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				Α	Α
300 psi	Α	Α	Α	Α	Α
450 psi		Α	Α	Α	Α
600 psi				Α	Α
1000 psi	Α	Α	Α	Α	Α
1200 psi				Α	Α

A – Available pressure rating

### **Features**

#### 2.5 And 4 inches Membrane Pressure Vessels

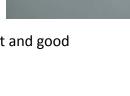
- → High strength, smooth inner surface and durable FRP shell.
- ♦ Length available:
  - ♦ Single element of 14",21" and 40" to 2 element;
  - ♦ Single element of 21" and 40" up 6 elements to 6 element
- ♦ SS 316 head locking baffle for simple and safe head assembling for 300 and 450 psi vessels. Three 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

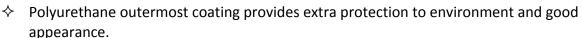
#### **End Port Type**

- ♦ 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/cm<sup>2</sup>.
- ♦ SS 316 three turn spiral lock ring for easy and safe head assembly.
- ♦ ABS permeate adaptor. OD 1.125" is standard. Different ODs are available for retrofit membrane element with different permeate tube dimensions.



- ♦ 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		
Н	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 NPT1 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)

