

SPECIFICATIONS

DURASHELL™ standard vessels

Model	Opening (top & Bottom)	Volume/Capacity (ltrs.)
1354	4" threaded	108
1465	4" threaded	151
1665	4" threaded	204
1865	4" threaded	251
2162	4" threaded	320
2472	4" threaded	480
2872	4" threaded	578
3072	4" threaded	710
3272	4" threaded	725
3672	4" threaded	995
4272	6" Flanged	1450
4872	6" Flanged	1860
4886	6" Flanged	2326
6367	6" Flanged	2645
6386	6" Flanged	3615
7179	6" Flanged	4267
7975	6" Flanged	4645

ROLINE™ pressure tubes

Available pressure rating (psi)	250/300/450/600/1000/1200	
Length (no. of elements)	1 to 7	
Shell Material	FRP	
Shell Colour	White	
Feed/ reject Port	Size	1.5" (End Port) 1.5"/2.0"/ 2.5" (Side Port)
	Connection	Groove
	Material	Ss316 (duplex SS for 1000psi and above)
Permeate Port	Size	1"
	Connection	Female NPT/ BSP
	Material	ABS
Head assembly	Retainer lock bars, cast aluminum bearing plates, ABS seal plate and lock nut, head seal, permeate port o-ring	
Adaptor	Standard 0.125" OD adaptor is included	
Straps & saddles	Depending on length	
Max. Operating Temperature	50° C (122° F)	

Note- All specifications mentioned above are subject to change without prior notice.

Available pressure rating (psi)	250/300/450/1000	
Length (no. of elements)	1 to 4	
Shell Material	FRP	
Shell Colour	White	
Feed/ reject Port	Size	0.5" / 0.75" (End Port) 0.5"/0.75"/1" (Side Port)
	Connection	Female NPT/ BSP (End Port) Groove (Side Port)
	Material	ABS (End Port) S304 (SS 316 for 1000 psi) (Side Port)
Permeate Port	Size	0.5"
	Connection	Female NPT/ BSP
	Material	ABS Standard (Stainless steel option)
Head assembly	Head assembly consists of half moon plates, ABS seal plate & lock nut, Head seal, permeate port O- ring	
Adaptor	0.75 OD standard adaptor is provided for side entry vessel	
Straps & saddles	Depending on length	
Packaging	PVC plastic wrapping with carton outer pack	
Max. Operating Temperature	50° C (122° F)	

Note- All specifications mentioned above are subject to change without prior notice.

GLOBALLY TRUSTED SOURCE FOR ENTIRE GAMUT OF FRP / GRP WATER TREATMENT / DESALINATION EQUIPMENT



Customized/standard
FRP pressure vessel
up to 2000 dia



FRP static
mixers up to
14500 m3/hr



Large diameter
FRP chemical storage
tanks up to 300 KL



FRP/GRP suction/Sea water
intake T, Y, Basket strainers for
flow rates up to 5750 m3/hr



7 element Reverse
Osmosis pressure tubes
up to 1500 PSI

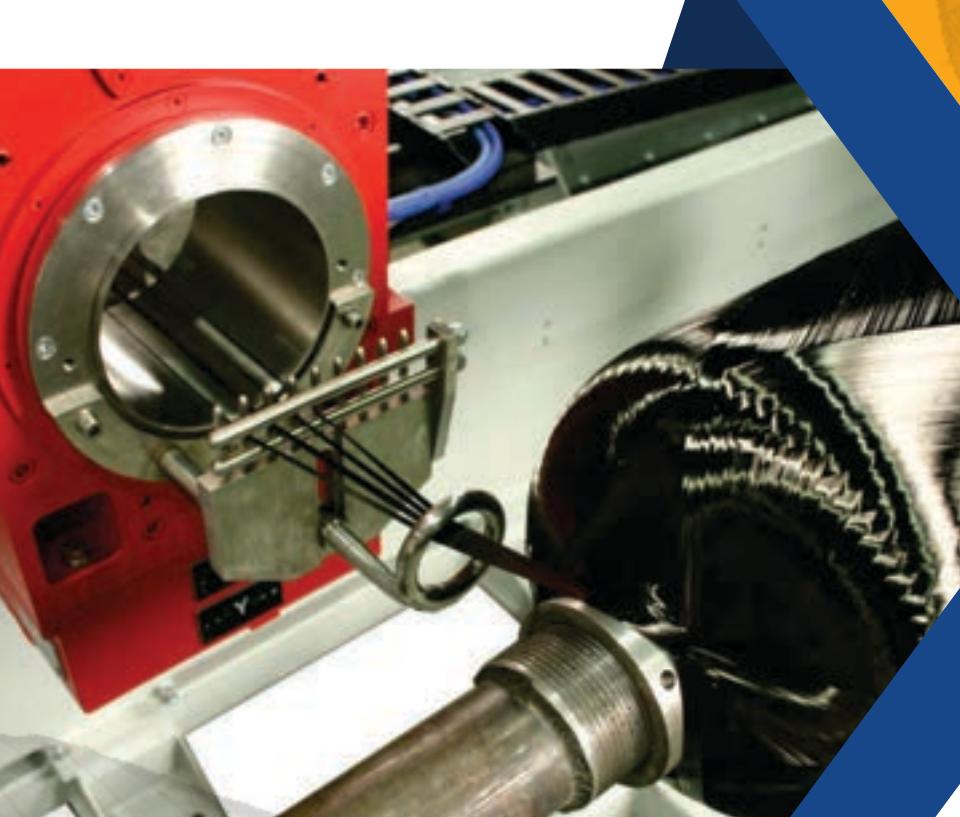
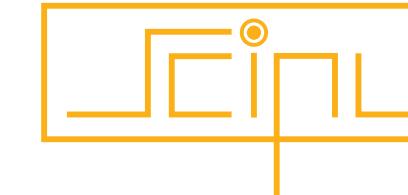


Fully automatic
Self-cleaning FRP/GRP
strainers up to 1000 m3/hr

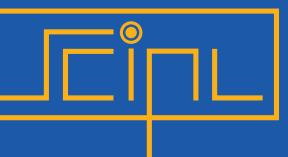


FRP/composites Micron
Cartridge Filter
housing up to 1000m3/hr

SHALIN COMPOSITES INDIA PVT LTD



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ISO 9001 / ISO 45001 Certified

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Shalin Composites
Made in India.
Made for the world.

Quality Composite Equipment for Water & Desalination industry

ABOUT US

What happens, when you do one thing for more than a decade... you get good at it.

Shalin composites India Pvt Ltd is an outcome of a decade old dream of our passionate promoter who wanted to set up a world class manufacturing facility for making high quality Composite Equipments for Water & Desalination industry. With a modest beginning through our parent company (D. M. Engineering Co.) in 2002, we are determined to be the game changer in the composite industry.

With a team of qualified and highly experienced professionals having sharp engineering acumen, we aim to offer more and more innovative products for water & desalination industry across the globe.

Our design, engineering knowledge & manufacturing expertise coupled with decades of experience in composite equipment, makes us a preferred global choice for all critical desalination equipment in FRP (Composite) and an essential collaborator beyond a simple supplier of equipment.

Our vast state of art manufacturing facilities with modern computerized machines enable us to manufacture high volume, best in class quality of Composite pressure vessels, RO membrane housings, FRP tanks, FRP cartridge filter housings, FRP static mixers, FRP blowers.

INFRASTRUCTURE AND MANUFACTURING FACILITIES



Covered Factory area: 32000 Sq. ft.

Factory height: 32.8 ft.

Total Plant area: 52000 Sq. ft.

Laboratory area: 1000 Sq. ft.

Office area: 3000 Sq. ft.

Location: Palghar
@19.7173923, 72.7735478

Manufacturing machinery

- CNC controlled 4 axis filament winding machine
- PLC controlled rotomoulding machine
- Infrared curing ovens
- Hydraulic extractors

Handling Equipments:

10 TON EOT

Power:

- Grid (LT connection): 150 KVA
- Back up: 100 KVA DG set



ROLINE™

(Reverse Osmosis Membrane Housing)



DURASHELL™

(Composite pressure vessels)



Shalin Composites offer wide range of FRP Composite pressure vessels for water, desalination & various other industries.

Our DURASHELL™ range of Composite pressure vessels are manufactured on highly sophisticated CNC controlled automatic machines promising same repeatability and precision quality over wide range of models.

Every DURASHELL™ vessel undergoes strict quality control checks and is hydro tested for rated pressure. With help of sophisticated software, our design and expertise enables us to offer Vessels with higher pressure rating as per requirements.

Salient features:

- Smooth inner surface finishing for easy loading & unloading of membrane elements
- End port and side port available
- Outer polyurethane paint for UV resistance
- Single head assembly to cut down spare part
- 100% hydro test at 1.5X operating pressure
- Burst pressure 4X



Shalin composites manufacture wide range of Reverse Osmosis Membrane housings which are extensively used in Industrial & institutional Reverse Osmosis plants as well as major Desalination plants.

Our ROLINE™ Range of pressure tubes are manufactured using high strength Glass Fiber in combination with high quality Epoxy resin which forms an extremely strong composite tube. The Pressure tubes are manufactured using Sophisticated CNC controlled filament winding machine. The computer controlled machine enables us

to manufacture high precision and very strong Membrane housings. Each ROLINE™ pressure tube is subjected to extensive post cure using infrared lamps ensuring complete post cure and optimum strength.

ROLINE™ Pressure tubes are offered in various options like side port & end port connections. ROLINE™ PRESSURE TUBES are available in different sizes like 4" & 8" diameter with lengths up to 7 mtr to accommodate 7 membranes in single housing and pressure rating from 300PSI up to 1500 PSI.



Salient Features

- High performance FRP filament wound outer shell
- Top and Side manhole for easy filling and removal of media and sight glass for inspection
- Inlet and outlet flanges are compatible with standard top distributors and bottom collectors
- Each vessel can be custom made for pressure rating, height, hand/man hole & sight glass
- 100% corrosion resistance
- Light weight and easy to install at site
- Each and every vessel is hydrotested at rated pressure
- unique identification number facilitates complete traceability for raw material & its authentication.

Applications

Water treatment and Desalination plants

Swimming pool filters

Custom made Mixed Bed vessels

Pulsation Damper with elastomeric bladder

Horizontal Pressure vessels for large flow rate filters and Package STP plants

Under carriage water storage tanks for railways and aircrafts

Non-pressure applications like storage tanks for corrosive chemicals.