G1 Aqua
R-Tech Systems & Services

2026 edition

Plant components

Pressure vessels, multiport valves, flow meters, dosing pumps and membrane housings.



FRP Pressure Vessel



Multiport Valve (PVC)



Digital Water Flow Meter (SS, 4–6 inch)



Electronic Dosing Pump (up to 5 LPH)

Made in Lucknow since 2004
ISO 9001:2015

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FRP Pressure Vessel

Fibreglass-reinforced (FRP) pressure vessels for sand filters, carbon filters, softeners and iron removal filters. Light, rust-free and quick to install, in sizes from small home filters to large plant vessels.

- A polyethylene liner wound with fibreglass and resin: it cannot rust and weighs a fraction of a steel vessel.
- Rated for 150 psi (about 10 bar) working pressure, the standard for water filter vessels.

Material	**FRP, PE liner**	Working pressure	**150 psi (10 bar)**
Size	**8–48 inch dia.**	Construction	**Polyester or vinylester**
Connection	**2.5 or 4 inch top; top and bottom on large sizes**	Max water temperature	**49 °C**

Photos and details
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Multiport Valve (PVC)

Multiport valves that let one handle run a filter or softener through service, backwash and rinse. Manual and automatic models, top-mount and side-mount, in several sizes.

- One handle replaces a set of separate valves, so backwashing is a simple turn.
- Corrosion-resistant body and tight seals that do not leak under normal filter pressure.

Material	**PVC**	Operation	**Manual or automatic**
Size	**1, 1.5 and 2 inch**	Mounting	**Top mount or side mount**
Valve positions	**Service, backwash, rinse, drain, closed**	Working pressure	**Up to about 6 bar**

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Digital Water Flow Meter (SS, 4-6 inch)

Stainless steel positive displacement flow meters with a digital display, for 4–6 inch lines. They measure flow accurately even when it pulses or changes, which makes them a good fit for batching and plant monitoring.

- Positive displacement measurement: accurate and repeatable across the whole range.
- Handles up to 25 bar and is not thrown off by pulsating flow.

Size	**4–6 inch**	Material	**Stainless steel**
Display	**Digital**	Measuring principle	**Positive displacement**
Working pressure	**Up to 25 bar**	Signal output	**Pulse output on request**

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Electronic Dosing Pump (up to 5 LPH)

Electronic diaphragm dosing pumps that add a small, steady amount of chemical to a water line: anti-scalant before RO membranes, chlorine for disinfection, or acid and alkali for pH correction. Up to 5 litres an hour.

- Doses up to 5 litres an hour, adjustable down to a small fraction of that.
- The same volume with every stroke, so the chemical strength in your water stays steady.

Flow rate	**Up to 5 LPH**	Working pressure	**Up to 7 bar**
Power supply	**230 V**	Technology	**Solenoid diaphragm**
Dose adjustment	**Stroke rate, 0–100%**	Material	**Mild steel body, PP pump head**

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RO Membrane Housing (SS)

Stainless steel housings that hold the RO membrane in small commercial plants up to about 100 litres an hour. Rated for 200 psi working pressure, with separate outlets for clean water and reject.

- Stainless steel body, rated for up to 200 psi working pressure.
- Leak-proof end caps and seals that hold the membrane firmly in place.

Working pressure	**Up to 200 psi**	Material	**Stainless steel**
Capacity	**Up to 100 LPH**	Membrane size	**2.5 or 4 inch (2521, 2540, 4021)**

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