

FRP PRESSURE VESSEL DATASHEET-4 INCH SIDE ENTRY

F40-450S

ASME-certified, NSF-approved and CE-compliant models available

General Description

The First Line 40S Series is an 4-inch diameter pressure vessel with an side-entry design, engineered for commercial, municipal, and industrial reverse osmosis (RO) applications.

*Standard element length = 40"

Technical Specifications

- Operating Pressure Options: 300 psi, 450 psi, 600 psi, 1000 psi, and 1200 psi.
- Construction: High-strength epoxy-glass composite for superior durability in continuous RO operations
- Compatibility: Designed to accommodate all standard* 4" membrane elements.

Unique Advantages

- Robust construction ensures long-term reliability in demanding environments.
- Various pressure ratings accommodate different water treatment needs.
- Universal compatibility with industry-standard components.

TECHNICAL SPECIFICATIONS

MODEL NUMBER	MAX. OPERATION PRESSURE	MAX. OPERATION TEMPERATURE	HYDROTEST PRESSURE	ELEMENT NUMBER
F40-450S	450 PSI / 31 bar	120 °F / 49 °C	495PSI / 34bar	1-6

* Specifications are subjected to change without prior notice (for more details refer model specific engineering drawings)

Assembly Explosion View with Detailed Components



DRG REG	QTY	DESCRIPTION	MATERIAL	PART NUMBER
1	1	Shell	Epoxy FRP	As Required
2	2	Feed/Conc. Port	316LSST	20000491
3	4	O-ring , F/C Port	EPDM	20000326
4	2	Retaining Ring	304SST	20000392
5	2	O-ring , PWT	EPDM	20002478
6	2	O-ring , Head	EPDM	20000319
7	2	End Plate	ABS	20000032
8	4	Locking Crescent	304SST	20003425
9	4	Locking Crescent Screw	304SST	20003574
10	1	O-ring , Plug	EPDM	20002813
11	1	Plug	ABS	20000075