

FRP PRESSURE VESSEL DATASHEET-4 INCH END ENTRY

F40-450E

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

General Description

The First Line 40E Series is an 4-inch diameter pressure vessel with an end-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
F40-450E	450 PSI / 31 bar	120 °F / 49 °C	495 PSI / 34 bar	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	O-ring , PWT	EPDM	20002478
3	2	O-ring , Head	EPDM	20000319
4	2	End Plate	ABS	20000025
5	4	Locking Crescent	304SST	20003425
6	4	Locking Crescent Screw	304SST	20003574
7	1	O-ring , Plug	EPDM	20002813
8	1	Plug	ABS	20000075