

## FRP PRESSURE VESSEL DATASHEET-8 INCH END ENTRY

### F80-600E

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

#### General Description

The First Line 80E Series is an 8-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\* 8" 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
F80-600E	600 PSI / 41 bar	120 °F / 49 °C	660 PSI / 45 bar	1-8

\* 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	1	Thrust Ring	ABS	20000420
3	4	O-ring , PWT	EPDM	20002423
4	2	Shim , Adapter	ABS	20000020
5	2	Adapter	ABS	20002250
6	4	O-ring , Adapter	EPDM	20000314
7	2	Permeate Port	ABS	20002270
8	2	O-ring , Head	EPDM	20001074
9	6	O-ring , Permeate Port	EPDM	20002432
10	2	Sealing Plate	ABS	20001183
11	2	Retaining Ring	304SST	20000658
12	2	Feed/Conc. Port	2507SST	20000425
13	2	Bearing Plate	Aluminium Alloy	20003197
14	6	Locking Kit Segment	316SST	20000008/09/10
15	6	Spring Pad	304SST	20000197
16	6	Locking Kit Screw	304SST	20000196
17	2	Nut	ABS	20000698
18	1	O-ring ,Plug	EPDM	20000314
19	1	Plug	ABS	20000073