

FRP PRESSURE VESSEL DATASHEET-8 INCH END ENTRY

F80-300E

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
F80-300E	300 PSI / 21 bar	120 °F / 49 °C	330 PSI / 23 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	20000364
6	4	O-ring , Adapter	EPDM	20000314
7	2	O-ring , Head	EPDM	20000901
8	2	Sealing Plate	ABS	20002336
9	4	O-ring , F/C Port	EPDM	20002432
10	2	Bearing Plate	Aluminum Alloy	20000401
11	2	Retaining Ring	304SST	20000383
12	2	Retaining Ring , F/C Port	304SST	20000383
13	2	Feed/Conc. Port	316LSST	20000423
14	6	Locking Kit Segment	304SST	20000006
15	6	Spring Pad	304SST	20000197
16	6	Locking Kit Screw	304SST	20000196
17	1	O-ring , Plug	EPDM	20000314
18	1	Plug	ABS	20000073