

FRP PRESSURE VESSEL DATASHEET-8 INCH SIDE ENTRY

R80-1000S

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

General Description	Technical Specifications	Unique Advantages
The First Line 80S Series is an 8-inch diameter pressure vessel with an side-entry design, engineered for commercial, municipal, and industrial reverse osmosis (RO) applications.	- 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 accomodate all standard* 8" membrane elements.	- Robust construction ensures long-term reliability in demanding environments. - Various pressure ratings accommodate different water treatment needs. - Universal compatibility with industry-standard components.

*Standard element length = 40"

MODEL NUMBER	MAX. OPERATION PRESSURE	MAX. OPERATION TEMPERATURE	HYDROTEST PRESSURE	ELEMENT NUMBER
R80-1000S	1000 PSI / 69 bar	120 °F / 49 °C	1100 PSI / 76 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	2	Feed/Conc. Port	2507SST	20003411
3	2	O-ring , F/C Port	EPDM	20002424
3.1	2	O-ring , F/C Port	EPDM	20003652
4	2	Locknut , F/C Port	316SSST	20002779
5	1	Thrust Ring	ABS	20000418
6	4	O-ring , PWT	EPDM	20002423
7	2	Shim , Adapter	ABS	20000020
8	2	Adapter	PPO	20002250
9	4	O-ring , Adapter	EPDM	20000314
10	2	Permeate Port	ABS	20002270
11	2	O-ring , Head	EPDM	20001074
12	2	O-ring , Permeate Port	EPDM	20002432
13	2	Sealing Plate	ABS	20001809
14	2	Bearing Plate	Aluminium Alloy	20003050
15	6	Locking Kit Segment	316SSST	20000008/09/10
16	6	Spring Pad	316SSST	20001047
17	6	Locking Kit Screw	316SSST	20001045
18	2	Nut	ABS	20000698
19	1	O-ring , Plug	EPDM	20000314
20	1	Plug	ABS	20000073