

FRP PRESSURE VESSEL DATASHEET-4 INCH SIDE ENTRY

F40-1000S

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
F40-1000S	1000 PSI / 69 bar	120 °F / 49 °C	1100PSI / 76bar	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	2507SST	20000493
3	4	O-ring , F/C Port	EPDM	20000326
4	2	Retaining Ring	304SST	20000392
5	4	O-ring , PWT	EPDM	20002478
6	2	Adapter	PPO	20002843
7	4	O-ring , Adapter	EPDM	20002429
8	4	O-ring , Head	EPDM	20002659
9	2	Sealing Plate	ABS	20002841
10	4	O-ring , Permeate Port	EPDM	20002430
11	2	Permeate Port	PPO	20002845
12	2	Bearing Plate	Aluminium Alloy	20003326
13	4	Connecting Bolt	304SST	20000439
14	6	Locking Kit Segment	316SST	20000013/14/15
15	6	Locking Kit Screw	304SST	20000205
16	1	Plug	PPO	20003046