

FRP PRESSURE VESSEL DATASHEET-4 INCH END ENTRY

R40-600E

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

| General Description                                                                                                                                                                                                            | Technical Specifications                                                                                                                                                                                                                                                                                                         | Unique Advantages                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>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.</p> <p>*Standard element length = 40"</p> | <ul style="list-style-type: none"><li>Operating Pressure Options: 300 psi, 450 psi, 600 psi, 1000 psi, and 1200 psi.</li><li>Construction: High-strength epoxy/-glass composite for superior durability in continuous RO operations</li><li>Compatibility: Designed to accommodate all standard* 4" membrane elements.</li></ul> | <ul style="list-style-type: none"><li>Robust construction ensures long-term reliability in demanding environments.</li><li>Various pressure ratings accommodate different water treatment needs.</li><li>Universal compatibility with industry-standard components.</li></ul> |

| TECHNICAL SPECIFICATIONS |                         |                            |                    |                |
|--------------------------|-------------------------|----------------------------|--------------------|----------------|
| MODEL NUMBER             | MAX. OPERATION PRESSURE | MAX. OPERATION TEMPERATURE | HYDROTEST PRESSURE | ELEMENT NUMBER |
| R40-600E                 | 600 PSI / 41 bar        | 120 °F / 49 °C             | 660 PSI / 45 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       | 4   | O-ring , PWT           | EPDM            | 20002478       |
| 3       | 4   | O-ring , Head          | EPDM            | 20002659       |
| 4       | 2   | Sealing Plate          | ABS             | 20002842       |
| 5       | 4   | O-ring , F/C Port      | EPDM            | 20000324       |
| 6       | 4   | O-ring , Permeate Port | EPDM            | 20002430       |
| 7       | 2   | Permeate Port          | PPO             | 20002845       |
| 8       | 2   | Bearing Plate          | Aluminium Alloy | 20003479       |
| 9       | 4   | Connecting Bolt        | 304SST          | 20000439       |
| 10      | 4   | Retaining Ring         | 304SST          | 20000657       |
| 11      | 2   | Feed/Conc. Port        | 2507SST         | 20000428       |
| 12      | 6   | Locking Kit Segment    | 316SST          | 20000013/14/15 |
| 13      | 6   | Locking Kit Screw      | 304SST          | 20000205       |
| 14      | 1   | Plug                   | PPO             | 20003046       |