

FRP PRESSURE VESSEL DATASHEET-8 INCH END ENTRY

R80-1200E

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

| General Description                                                                                                                                                                                                            | Technical Specifications                                                                                                                                                                                                                                                                                                         | Unique Advantages                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>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.</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* 8" 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> |

| MODEL NUMBER | MAX. OPERATION PRESSURE | MAX. OPERATION TEMPERATURE | HYDROTEST PRESSURE | ELEMENT NUMBER |
|--------------|-------------------------|----------------------------|--------------------|----------------|
| R80-1200E    | 1200 PSI / 83 bar       | 120 °F / 49 °C             | 1320 PSI / 91.5bar | 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                | PPO             | 20002250       |
| 6       | 4   | O-ring , Adapter       | EPDM            | 20000314       |
| 7       | 2   | Permeate Port          | ABS             | 20002270       |
| 8       | 2   | O-ring , Head          | EPDM            | 20001074       |
| 9       | 2   | O-ring , Permeate Port | EPDM            | 20002432       |
| 10      | 4   | O-ring , F/C Port      | EPDM            | 20002432       |
| 11      | 2   | Sealing Plate          | ABS             | 20001183       |
| 12      | 4   | Retaining Ring         | 2507SST         | 20000658       |
| 13      | 2   | Feed/Conc. Port        | 2507SST         | 20000425       |
| 14      | 2   | Bearing Plate          | Aluminium Alloy | 20003119       |
| 15      | 6   | Locking Kit Segment    | 316SST          | 20000008/09/10 |
| 16      | 6   | Spring Pad             | 316SST          | 20001047       |
| 17      | 6   | Locking Kit Screw      | 316SST          | 20001045       |
| 18      | 2   | Nut                    | ABS             | 20000698       |
| 19      | 1   | O-ring ,Plug           | EPDM            | 20000314       |
| 20      | 1   | Plug                   | ABS             | 20000073       |