

# **CODELINE®** - 80E SERIES 8 INCH END ENTRY MEMBRANE HOUSING FOR RO APPLICATION

MEMBRANE HOUSING DATASHEET

ARTICLE CODE: 80E30, 80E45, 80E60, 80E100, 80E120

### **GENERAL INFORMATION**

Codeline 80E Series is membrane housing of 8" diameter with end entry design. This is used for commercial, municipal and industrial RO applications. Vessel models are available upto a maximum operating pressure of 300 PSI, 450 PSI & 600 PSI, 1000 PSI & 1200 PSI. These are made up of epoxy / glass composite to meet the demands of long term and continuous use in RO processes. Codeline 80E Series vessels can accommodate any standard\* 8" membrane element.

# \* Standard element length = 40 " long

### **UNIQUE FEATURES**

- Mirror Finish ID for easy & quick loading and unloading of membranes
- Quick lock head retention system for quick access to membranes
- Exteriors coated with high gloss polyurethane paint for UV resistance
- Head seal is captured, hence doesn't roll during head assembly fitment
- Compatible for using in all water type application
- Available in ASME certified & CE Marked models

### **CERTIFICATIONS**

- ASME code compliant
- CE certified

## **CODELINE 80E SERIES SPECIFICATION\***

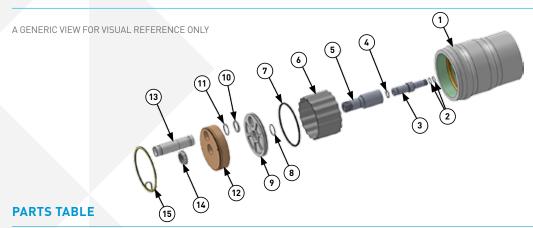
| MODEL NUMBER    | DRAWING NUMBER | MAX. OPERATING PRESSURE | MAX. OPERATING TEMPERATURE | QUALIFICATION<br>PRESSURE | ELEMENT LENGTH |
|-----------------|----------------|-------------------------|----------------------------|---------------------------|----------------|
| CODELINE 80E30  | 99111          | 300 PSI / 20 Bar        | 120 °F / 49 °C             | 1800 PSI / 124 Bar        | 1-8            |
| CODELINE 80E45  | 99112          | 450 PSI / 31 Bar        | 120 °F / 49 °C             | 2700 PSI / 186 Bar        | 1-8            |
| CODELINE 80E60  | 99109          | 600 PSI / 41 Bar        | 120 °F / 49 °C             | 3600 PSI / 248 Bar        | 1-8            |
| CODELINE 80E100 | 99108          | 1000 PSI / 68 Bar       | 120 °F / 49 °C             | 6000 PSI / 413 Bar        | 1-8            |
| CODELINE 80E120 | 99110          | 1200 PSI / 82 Bar       | 120 °F / 49 °C             | 7200 PSI / 496 Bar        | 1-8            |

<sup>\*</sup> Specifications are subjected to change without prior notice (for more details refer model specific engineering drawings)

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### **EXPLODED VIEW & DETAILS**



| DRG<br>REG | QTY | DESCRIPTION                 | MATERIAL   | 80E30         | 80E45         | 80E60         | 80E100        | 80E120        |
|------------|-----|-----------------------------|--|---------------|---------------|---------------|---------------|---------------|
|            | UIT |                             |  | PART NUMBER   |
| 1          | 1   | Shell                       | Filament Wound Epoxy / Glass<br>composites. Head Locking grooves<br>integrally wound in place. | Order section |
| 2          | 4   | PWT Seal                    | Ethylene Propylene - O Ring  | As required   |
| 3          | 2   | Adapter                     | Engineering Thermoplastic  | As required   |
| 4          | 2   | Adapter Seal                | Ethylene Propylene – O Ring  | 52245         | 52245         | 52245         | 52245         | 52245         |
| 5          | 2   | Permeate Port               | Engineering Thermoplastic  | 50608         | 50569         | 50569         | 50558         | 50558         |
| 6          | 1   | Thrust Ring                 | Engineering Thermoplastic  | 45069         | 45069         | 45069         | 45069         | 45069         |
| 7          | 2   | Head Seal                   | Ethylene Propylene - O Ring  | 96000         | 96000         | 96000         | 96000         | 96000         |
| 8          | 2   | Perm Port Seal              | Ethylene Propylene - O Ring  | 45312         | 45312         | 45312         | 45312         | 45312         |
| 9          | 2   | Sealing Plate               | Engineering Thermoplastic  | 96003         | 96003         | 96003         | 96003         | 96003         |
| 10         | 2   | Port Retainer / Set         | Stainless Steel / Two-piece Set  | 45247         | 45090         | 45090         | 45090         | 45090         |
| 11         | 2   | FC Port Seal                | Ethylene Propylene - O Ring  | 45312         | 45312         | 45312         | 45312         | 45312         |
| 12         | 2   | Bearing Plate               | 6061-T6 Aluminum Alloy -<br>Hard Anodized  | 51050         | 51051         | 51052         | 47317         | 47317         |
| 13         | 2   | Feed / Conc Port            | Stainless Steel 316L** /<br>Super Duplex Stainless Steel                                       | 50607**       | 50567**       | 50567**       | 50556         | 50556         |
| 14         | 2   | Port Retainer /<br>Port Nut | Stainless Steel / Engineering<br>Thermoplastic   | 45247         | 45066         | 45066         | 45066         | 45066         |
| 15         | 2   | Retaining Ring              | 316 Stainless Steel  | 47336         | 47336         | 47336         | 47336         | 47336         |
| 16*        | AR  | Saddle                      | Engineering Thermoplastic  | 52169         | 52169         | 52169         | 52169         | 52169         |
| 17*        | AR  | Strap Assembly              | 304 Stainless Steel - PVC Cushion  | 45042         | 45042         | 45042         | 45042         | 45042         |
| 18*        | AR  | Strap Screw                 | 5/16-18 UNC, 18-8 Stainless Steel  | 46265         | 46265         | 46265         | 46265         | 46265         |

Not shown in the exploded view Stainless Steel 316L material



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