**DWG REF** | **QTY** | **PART NUMBER** | **DESCRIPTION** | **MATERIAL**
--- | --- | --- | --- | ---
1 | 1 | SHELL | SHELL | Filament Wound Epoxy/Grass composites - Head locking grooves integrally wound in place.
2 | A/R | F/C Port | CF3M* | Ethylene Propylene
3 | A/R | F/C Port Seal | Ethylene Propylene
4 | 2 | 96244 | Elliptical Head Assy. | Engineering Thermoplastic
5 | 2 | 96000 | Head Seal | Ethylene Propylene - O-Ring
6 | 2 | 47336 | Quick Release Spiral Ring | 316 Stainless Steel
7 | 2 | 52169 | Saddles | Engineering Thermoplastic
8 | 2 | 45042 | Strap Assy. | 304 Stainless Steel-PVC Cushion
9 | 4 | 46325 | Strap screw | 5-16-18 UNC, 18-8 Stainless Steel
10 | 2 | A/R | Adapter | Engineering Thermoplastic
11 | 2 | 52245 | Adapter seal | Ethylene Propylene - O-Ring
12 | 4 | A/R | PWT Seal | Ethylene Propylene - O-Ring
13 | 1 | 97014 | Thrust Cone | Engineering Thermoplastic

**NOTE:**
- **MASS PER UNIT LENGTH:**

**SECTION THROUGH END CLOSURE**
DO...read, understand and follow all instructions; failure to take every precaution will void warranty and may result in vessel failure.

DO...mount the shell on horizontal members at span “S” using compliant vessel supports furnished; Shim saddles if required. Tighten hold down straps just snug.

DO...align and center side ports with the manifold header. Correct, causes of misalignment in a row of vessels connected to the same header.

DO...use flexible type IPS grooved-end pipe couplings, at side ports; allow full, 0.125 inch gap between port and piping, and position piping to maximize flexibility of connection.

DO...provide flexibility in, and support for piping manifolds so that vessel can grow in length under pressure without undue restraint; provide additional flexible joints in large pipes leading to manifold header.

DO...provide overpressure protection for vessel set at not more than 105% of design pressure.

DO...inspect end closures regularly; replace components that have deteriorated and correct causes of corrosion.

DO...Lubricate seals sparingly, using nonpetroleum Based lubricants, i.e. Parker Super O-lube®, Glycerin or suitable silicone based lubricants.

DO NOT...work on any component until first verifying that pressure is relieved from vessel.

DO NOT...make rigid piping connections to ports or clamp vessel in any way that resists growth of fiberglass shell under pressure; ***DL = 0.2 in. (6mm) for a length code -8 vessel.

DO NOT...hang piping manifolds from ports or use vessel in any way to support other components.

DO NOT...tighten Permeate Port connection more than one turn past hand tight.

DO NOT...operate vessel without connecting both Permeate Ports internally to complete set of elements or otherwise plug ports internally to complete set of elements or otherwise plug ports internally so that external piping connection is not subjected to feed pressure.

DO NOT...install Spacer on downstream end of vessel.

DO NOT...operate vessel without Thrust Cone installed downstream.

DO NOT...pressurize vessel until double-checking to verify that the Locking Ring is in place and fully seated.

DO NOT...operate vessel at pressure and temperature in excess of its rating.

DO NOT...operate vessel with permeate pressure in excess of 125 psi at 190°F (0.86 MPa at 88°C).

DO NOT...tolerate leaks or allow end closures to be routinely wetted in any way.

DO NOT...operate outside the pH range 3-11.

PRECAUTIONS:

QUALIFIED PRESSURE................600 PSI (-17°C)

CERTIFICATION REQUIRED

MEMBRANE BRAND AND MODEL

Please supply adapters for the following membrane brand and specific model

Brand_________________________ Model_________________________

ADAPTER KITS

UP STREAM DOWN STREAM

FEED/CONCENTRATE PORT SELECTION

Material of Construction

Standard SS304
Optional SS316L

Serial number end

Opposite end

PORT SIZE CODE

D 1½” GROOVED END
E 2” GROOVED END
F 2½” GROOVED END

PORT LOCATION CODE

Serial Number end

CODELINE BODY LABELS ARE PLACED AT 90° TO SERIAL NUMBER END AND AT 270° ON THE OPPOSITE SIDE END

SPECIFICATIONS

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ORDERING:

Using the chart below, please check the features you require

VESSEL LENGTH CODE – please check one

MODEL 80S60 Non Coded □ -1 □ -2 □ -3 □ -4 □ -5 □ -6 □ -7 □ -8

PERMEATE PORT CONFIGURATION:

Standard. 1” FNPT & 1.5” IPS GROOVED NORYL HEAD

Optional .1” BSP F/H S F Parallel Thread & 1.5” IPS GROOVED NORYL HEAD.

STAND ALONE:

Standard CF3M
Optional Duplex SS (CD3MN)
Optional Super Duplex SS (CD3MWCuN)

Configuration...Standard - CF3M 1D5D

Optional – Multi ports ( Refer SPEC.SHEET/PM/1.5”-3”for Multi port selection)

2.5” Ports not available in 90° Configuration.

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