

(14)

| DWG<br>REF        | QTY | PART<br>NUMBER | DESCRIPTION                                  | MATERIAL   |  |
|-------------------|-----|----------------|--|--|--|
|                   |     |                | SHELL  |  |  |
| 1                 | 1   | 99230          | SHELL  | Filament Wound Epoxy/Glass composite - Head locking grooves integrally wound in place. |  |
| 2                 | A/R | A/R            | F/C Port                                     | SA-351 CF3M  |  |
| 3                 | A/R | A/R            | F/C Port Seal                                | Ethylene Propylene.  |  |
|                   |     |                | HEAD   |  |  |
| 4                 | 2   | 194446         | Bearing Plate Assembly                       | -  |  |
| 4.1               | 1   | 96156          | Bearing Plate                                | SB-221 A96061-T6   |  |
| 4.2               | 1   | 97104          | Danger Label                                 | -  |  |
| 5                 | 2   | 96160          | Sealing Plate                                | Engineering Thermoplastic.   |  |
| 6                 | 2   | 96162          | Permeate Port                                | Engineering Thermoplastic.   |  |
| 7                 | 2   | 45066          | Port Nut Engineering Thermoplastic.          |  |  |
| 8                 | 2   | 96000          | Head Seal Ethylene Propylene - O - Ring      |  |  |
| 9                 | 2   | 45312          | Perm Port Seal Ethylene Propylene - O - Ring |  |  |
|                   |     |                | HEAD INTER                                   | LOCK   |  |
| 10                | 2   | 47336          | Quick Release Spiral Ring                    | SA-479 316   |  |
|                   |     |                | VESSEL SUP                                   | PORT   |  |
| 11                | 2+  | 52169          | Saddle                                       | Engineering Thermoplastic.   |  |
| 12                | 2+  | 45042          | Strap Assy.                                  | 304 Stainless Steel-PVC Cushion.   |  |
| 13                | 4** | 46265          | Strap screw.                                 | 5/16-18 UNC,2.5"-L, 18-8 Stainless Steel.  |  |
| ELEMENT INTERFACE |     |                |  |  |  |
| 14                | 2   | A/R            | Adapter                                      | Engineering Thermoplastic.   |  |
| 15                | 2   | 52245          | Adapter seal                                 | Ethylene Propylene - O - Ring  |  |
| 16                | 4   | A/R            | PWT Seal                                     | Ethylene Propylene - O - Ring  |  |
| 17                | 1   | 96163          | Thrust Cone                                  | Engineering Thermoplastic.   |  |
|                   |     |                | 3 & ++6 each furnished with I                | length code 4,5,6,7 & 8.   |  |

CENTER VESSEL ON 2 OR 3 SUPPORTS AT SPAN(S) "S" : 3 SUPPORTS REQUIRED FOR LENGTHS -4 AND ABOVE PORT SIZE CODE 11/2" GROOVED END 2" GROOVED END 2 1/2" GROOVED END WARNING 🗘 CAUTION: INCORRECT MANIFOLDING INTERNAL PORT PRESSURE WILL CAUSE SEVERE LOCAL STRESS NOT TO EXCEED 125 PSI # AROUND PORT AND MAY RESULT IN I FAKS AND PREMATURE FAILURE. TAKE EVERY PRECAUTION LISTED ON REVERSE, SEE INSTALLATION

| NO. OF PORTS   |    | PORT LOCATION |             |             | VESSEL QTY.                  |  |
|----------------|----|---------------|-------------|-------------|------------------------------|--|
|                |    |               |             |             |                              |  |
|                |    |               |             |             |                              |  |
| Dash<br>Length | IN | L<br>(MM)     | P<br>IN(MM) | S<br>IN(MM) | Approx<br>Weight<br>LB(KG)** |  |
| -1             | 5  | 9.15          | 47          | 23X1        | 55                           |  |
| ·              | (1 | 502)          | (1194)      | (584)       | (25)                         |  |
| -2             | 9  | 9.15          | 87          | 56X1        | 64                           |  |
| _              | (2 | 2518)         | (2210)      | (1422)      | (29)                         |  |
| -3             | 13 | 39.15         | 127         | 80X1        | 73                           |  |
|                | (3 | 3534)         | (3226)      | (2032)      | (33)                         |  |
| -4             | 17 | 79.15         | 167         | 64X2        | 82                           |  |
| 7              | (4 | 1550)         | (4242)      | (1626)      | (37)                         |  |
| -5             | 2  | 19.15         | 207         | 78X2        | 90                           |  |
|                | (5 | 5566)         | (5258)      | (1981)      | (41)                         |  |
| -6             | 2  | 59.15         | 247         | 92X2        | 99                           |  |
|                | (6 | 3582)         | (6274)      | (2337)      | (45)                         |  |
| -7             | 29 | 99.15         | 287         | 106X2       | 108                          |  |
|                | (7 | '598)         | (7290)      | (2692)      | (49)                         |  |
| -8             | 33 | 39.15         | 327         | 120X2       | 117                          |  |
| -0             | (8 | 8614)         | (8306)      | (3048)      | (53)                         |  |

# **GENERAL NOTES:**

- 1. MAX. ANGULAR VARIATION BETWEEN ANY PORT ±0.5°.
- 2. DIMENSION IN INCHES (MM APPROX.).
- 3. SHELL EXTERIOR COATED WITH WHITE RAL 9003, HIGH GLOSS POLYURETHANE PAINT.
- 4. ITEM 17 DOWNSTREAM ONLY.
- 5. NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED BY PENTAIR.
- # 150 PSI FOR METALLIC PERMEATE PORT. FOR OPTIONAL PART NUMBERS, REFER PAGE 3.
- \*\* WEIGHTS GIVEN IN THE TABLE ARE FOR HIGHEST CONFIGURATION AND WILL VARY WITH CHANGE IN CONFIGURATION.

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INSTRUCTIONS FOR FURTHER DETAILS

|   | PENTAIR  |
|---|----------|
| • | CODELINE |

VERNA, GOA INDIA

| RAWN BY:   | RA       | DRAWING DESCRIPTION:      | DRAWING DESCRIPTION: |        | : I    | REV.: |  |
|------------|----------|---------------------------|----------------------|--------|--------|-------|--|
| ATE:       | 15/09/21 | MODEL - 80S15 MEMBRANE HO | 99159                |        | W      |       |  |
| HECKED BY: | KPS      | CUSTOMER NAME:            | VESSEL MODEL:        |        |        |       |  |
| ATE:       | 15/09/21 | -                         | 80S15                |        |        |       |  |
| PROVED BY: | FF       | PROJECT NAME:             |                      |        | TOTAL  | ΩTY:  |  |
| TE:        | 15/09/21 | -                         |                      |        | -      |       |  |
| : .ON N    | 5761     | CUSTOMER P.O.#: SIZE:     |                      | SCALE: | PAGE N | 0.:   |  |
| TF:        | 09/12/21 | - A3                      |                      | NONE   | 01 OF  | 03    |  |

### **RATING:**

| DESIGN PRESSURE        | 150 PSIG            |
|------------------------|---------------------|
| MAX. OPERATING TEMP    | (1.0 MPa )<br>190°F |
| MIN. OPERATING TEMP    | (88°C)              |
| MIN. OPERATING TEMP    | 20°F<br>(-7°C)      |
| FACTORY TEST PRESSURE  |                     |
|                        | (1.6 MPa)(1.1MPa)   |
| QUALIFICATION PRESSURE | 900 PSI             |

#### INTENDED USE:

The CodeLine 80S15 Fiberglass RO Pressure Vessel is designed for continuous, long term use as housing for reverse osmosis membrane elements to desalt typical brackish waters at pressures up to 150 psi. Any make of eight-inch nominal diameter spiral-wound element is easily accommodated; the appropriate interfacing hardware for the element specified is furnished with the

The CodeLine 80S15 is designed in accordance with the engineering standards of the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers (ASME) as per Section X Edition 2021. F/C port, Bearing plate and Quick release spiral ring are designed as per ASME Section VIII Division I Edition 2021.

At small additional cost vessels can be inspected during construction by an ASME Authorized Inspector and ASME Code stamped.

The CodeLine 80S15 must be installed, operated and maintained in accordance with the listed precautions and good industrial practice to assure safe operation over a long service life.

The high performance Filament wound FRP shell must be allowed to expand under pressure; undue restraint at support points or piping connections can cause leaks to develop in the shell. This side-ported vessel requires special precautions in mounting and connection to piping so that the vessel will not be subjected to excessive stress due to bending moments acting at the side openings in the fiberglass shell. The end closure, incorporating close fitting, interlocking metal components, must be kept dry and free of corrosion; deterioration can lead to catastrophic mechanical failure of the head

Pentair will assist the purchaser in determining the suitability of this standard vessel for their specific operating conditions. The final determination however, including evaluation of the standard material of construction for compatibility with the specific corrosive environment, shall be the responsibility of the purchaser. Alternate materials with enhanced corrosion resistance are available on special order.

Specifications are subject to change without notice.

#### PRECAUTIONS:

- 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
- 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. Glycerin or suitable 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:
  - \*\*\* $\Delta DIA = 0.015$  in. (0.4mm) and
- \*\*\* $\Delta$ L = 0.2 in. (5mm) 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 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.

For complete information on proper use of the vessel Please refer to the 80S Series USER'S GUIDE 94182.

#### ORDERING:

Using the chart below, please check the features you require

### VESSEL LENGTH CODE - please check one

MODEL 80S15 □ -1 □ -2 □ -3 □ -4 □ -5 □ -6 □ -7 □ -8

### MEMBRANE BRAND AND MODEL

| _ | Please sup | oply adapters | for the fol | lowing m | embrane | brand | and | specif | ic mo | d |
|---|------------|---------------|-------------|----------|---------|-------|-----|--------|-------|---|
|   | Brand      |               |             | Mode     | el      |       |     |        |       |   |

### CERTIFICATION REQUIRED

- ☐ Hydro testing at 1.5 times the design pressure. ☐ CE Marked
- ☐ Hydro testing at 1.1 times the design pressure. ☐ ASME Stamped and National Board Registered.
- ☐ In compliance with the ASME Section X but not Code Stamped.

# ADAPTER KITS DOWN STREAM STREAM

## PERMEATE PORT SELECTION

## Serial Number End

Size of the Permeate Port \( \square 1\)" □ 1.25" □ 1.5"

Type of Connection □ FNPT □ MNPT □ BSPTM □ BSPTF □ IPS GROOVED □ TRI-CLOVER

Material of Construction ☐ Norvl ☐ SS316L ☐ Zeron 100

Non Serial Number End

Size of the Permeate Port \( \square\) 1" □ 1.25" □ 1.5"

□ FNPT □ MNPT □ BSPTM □ BSPTF □ IPS GROOVED □ TRI-CLOVER Type of Connection

Material of Construction □ Noryl □ SS316L □ Zeron 100

## Note:

- Standard offering is 1.0" FNPT in Noryl.
- 1.25" & 1.5" BSPTF, 1.25" & 1.5" FNPT and 1.25" TRI-CLOVER connections cannot be offered.
- TRI-CLOVER permeate port cannot be offered in Noryl.

# STRAP ASSEMBLY

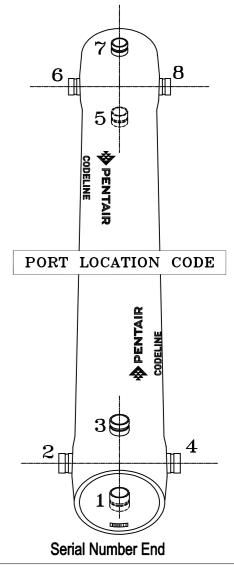
## FEED/CONCENTRATE PORT SELECTION

Material of Construction ☐ **CF3M** ☐ Duplex (CD3MN) ☐ Super Duplex (CD3MWCuN)

| Configuration     | ☐ CF3M 1D5D     |
|-------------------|-----------------|
|                   | ☐ Multi ports : |
| Serial number end |                 |
| Opposite end      |                 |

## BEARING PLATE MATERIAL

- ☐ A96061 T6 Aluminum
- ☐ Stainless Steel 316L



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

## **GENERAL NOTES:**

1. PLEASE REFER TO 99321 FOR TRICLOVER DETAILS AND REFER PAGE 03 FOR OPTIONAL PART

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|           |          | CODELINE                       | VERNA, GO<br>INDIA | A   |
|-----------|----------|--------------------------------|--------------------|-----|
| WN BY:    | RA       | DRAWING DESCRIPTION:           | DRAWING NO         |     |
| E:        | 15/09/21 | MODEL - 80S15 MEMBRANE HOUSING | 99159              | 9   |
| CKED BY:  | KPS      | CUSTOMER NAME:                 | VESSEL MOD         |     |
| E:        | 15/09/21 | -                              | 808                | S15 |
| ROVED BY: | FF       | PROJECT NAME:                  |                    | т   |

| DRAWN BY:<br>DATE:   | RA<br>15/09/21   | DRAWING DESCRIPTION: DRAWING MODEL - 80S15 MEMBRANE HOUSING |                        |                | DRAWING NO.:<br>99159 |   |
|----------------------|------------------|---|------------------------|----------------|-----------------------|---|
| CHECKED BY:<br>DATE: | KPS<br>15/09/21  | CUSTOMER NAME:  | VESSEL MODEL:<br>80S15 |                |                       |   |
| APPROVED BY:         | FF               | PROJECT NAME:   |                        | TOTAL          | QTY:                  |   |
| DATE:                | 15/09/21         | -   |                        |                |                       | - |
| ECN NO. :<br>DATE:   | 5761<br>09/12/21 | CUSTOMER P.O.#:   | SIZE:<br>A3            | SCALE:<br>NONE | PAGE<br>02 O          |   |

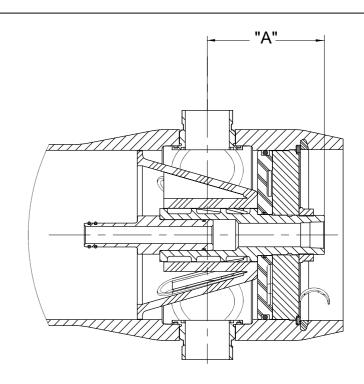
| BEARING PLATE PART NUMBERS |           |              |  |  |  |  |  |
|----------------------------|-----------|--------------|--|--|--|--|--|
| PERMEATE PORT SIZE         | ALUMINIUM | SS F316L ### |  |  |  |  |  |
| 1.0"/1.25"                 | 194446    | 194508       |  |  |  |  |  |
| 1.5"                       | 194477    | 194539       |  |  |  |  |  |

| SEALING PLATE PART NUMBERS           |  |  |  |  |  |
|--------------------------------------|--|--|--|--|--|
| Standard used for Aluminium BP 96160 |  |  |  |  |  |
| Optional used for SS F316L BP 96477  |  |  |  |  |  |

| PERM PORT RETAINER RING & PORT NUT PART NUMBERS |                       |                              |       |  |  |  |
|---|-----------------------|------------------------------|-------|--|--|--|
| 1.0" / 1.25"                                    | Standard<br>Port nut  | Engineering<br>Thermoplastic | 45066 |  |  |  |
| 1.5"  | Port Retainer<br>Ring | Stainless Steel              | 45247 |  |  |  |

| STRAP ASSEMBLY PART NUMBERS |                    |                    |  |  |  |  |
|-----------------------------|--------------------|--------------------|--|--|--|--|
| SS304                       | SS-316             | SS-316L            |  |  |  |  |
| 45042                       | 46926 <sup>+</sup> | 94371 <sup>+</sup> |  |  |  |  |

| F/C PORT & SEAL PART NUMBER |       |         |             |       |  |  |  |
|-----------------------------|-------|---------|-------------|-------|--|--|--|
| SIZE                        | *CF3M | **CD3MN | ***CD3MWCuN | SEAL  |  |  |  |
| 1.5"                        | 98024 | 97353   | 96507       | 96077 |  |  |  |
| 2.0"                        | 98025 | 97357   | 96643       | 96078 |  |  |  |
| 2.5"                        | 98026 | 97364   | 96556       | 96079 |  |  |  |



SECTION THROUGH END CLOSURE

| PERMEATE PORT PART NUMBERS & PERMPORT TO F/C PORT OFFSET DISTANCE |                        |        |         |        |         |        |         |        |         |             |         |
|---|------------------------|--------|---------|--------|---------|--------|---------|--------|---------|-------------|---------|
|   |                        | FNPT   |         | MNPT   |         | BSPTF  |         | BSPTM  |         | IPS GROOVED |         |
| SIZE  | MATERIAL               | PART   |         | PART   |         | PART   |         | PART   |         | PART        |         |
|   |                        | NUMBER | DIM "A" | NUMBER      | DIM "A" |
|   | NORYL                  | 96162  | 5.5     | 97659  | 6.5     | 96301  | 5.5     | 97660  | 6.5     | 97661       | 6.8     |
| 1.0"  | SS 316L # #            | 96752  | 5.5     | 97347  | 6.5     | 97351  | 5.5     | 97355  | 6.5     | 97322       | 6.8     |
|   | <sup>#</sup> ZERON 100 | 97349  | 5.5     | 97348  | 6.5     | 97352  | 5.5     | 97356  | 6.5     | 97293       | 6.8     |
|   | NORYL                  | NA     | NA      | 97655  | 6.5     | NA     | NA      | 97360  | 6.5     | 97662       | 6.8     |
| 1.25"   | SS 316L # #            | NA     | NA      | 96487  | 6.5     | NA     | NA      | 97362  | 6.5     | 97311       | 6.8     |
|   | <sup>#</sup> ZERON 100 | NA     | NA      | 97359  | 6.5     | NA     | NA      | 97363  | 6.5     | 97365       | 6.8     |
|   | NORYL                  | NA     | NA      | 97663  | 6.1     | NA     | NA      | 97369  | 6.1     | 97656       | 6.7     |
| 1.5"  | SS 316L # #            | NA     | NA      | 97368  | 6.1     | NA     | NA      | 97371  | 6.1     | 97449       | 6.7     |
|   | <sup>#</sup> ZERON 100 | NA     | NA      | 97292  | 6.1     | NA     | NA      | 97372  | 6.1     | 97374       | 6.7     |

## **GENERAL NOTES:**

- DIMENSIONS IN INCHES (MM APPROX.).
- \* GRADE SA-351 CF3M.
- \*\* GRADE SA-995 CD3MN (UNS J92205).
- \*\*\* GRADE SA-995 CD3MWCuN (UNS J93380)
- # GRADE SA-479 UNS S32760/S32750
- ## GRADE SA-479 316L
- ### GRADE SA-182 F316L
- + OPTIONAL STRAP ASSEMBLY WITH SS-316 & 316L SHALL BE SUPPLIED AS PER METRIC STANDARDS.

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| DRAWN BY:    | RA       | DRAWING DESCRIPTION:     | DRAWING NO.: |                    | REV.: |      |
| DATE:        | 15/09/21 | MODEL - 80S15 MEMBRANE H | DUSING       | 99159              |       | W    |
| CHECKED BY:  | KPS      | CUSTOMER NAME:           | VESSEL MOD   |                    |       |      |
| DATE:        | 15/09/21 | -                        |              | 808                | S15   |      |
| APPROVED BY: | FF       | PROJECT NAME:            |              |                    | TOTAL | QTY: |
| DATE:        | 15/09/21 | -                        |              |                    |       | -    |
| ECN NO.:     | 5761     | CUSTOMER P.O.#:          | SIZE:        | SCALE:             | PAGE  | NO.: |
| DATE:        | 09/12/21 | -                        | A3           | NONE               | 03 O  | F 03 |
|              |          |                          |              |                    |       |      |



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