



# JM RO Membrane Housing



DO NOT OPERATE  
THIS HOUSING  
WITHOUT TAKING  
EVERY SAFETY  
PRECAUTION  
LISTED IN THE  
USERS GUIDE

OPERATING TEMPRATURE RANGE  
20°F(-7°C) MINIMUM  
120°F(49°C) MAXIMUM

MODEL  
Production ID

**DANGER**  
PRESSURE

REVERSE OSMOSIS MEMBRANE HOUSING  
FOR WATER TREATMENT USE ONLY  
NOT FOR USE WITH COMPRESSED AIR

## FRP RO Membrane Housing

JM FRP RO Membrane Housing is used for Reverse Osmosis Membrane system for both commercial and industrial purpose. The products are designed to meet the demands of cost effective, continuous, long term use of any type of commercial and industrial water processing.

### Highlight Features

- Made up of epoxy glassfiber composites
- 4" and 8" size, fit 1-7 elements
- End entry & Side Entry
- Operating pressure range: 300psi, 450psi, 600psi, 1000psi, 1200psi

| Model                   | Membrane | Max Pressure   | Temperature                  | Element |
|-------------------------|----------|----------------|------------------------------|---------|
| 80S Series (Side Entry) |          |                |                              |         |
| JM-80S-300              | 8040     | 300psi/20 bar  | -10°C - 66°C<br>(14°F-150°F) | 1-7     |
| JM-80S-450              |          | 450psi/31 bar  |                              | 1-7     |
| JM-80S-600              |          | 600psi/41 bar  |                              | 1-7     |
| JM-80S-1000             |          | 1000psi/68 bar |                              | 1-7     |
| JM-80S-1200             |          | 1200psi/82 bar |                              | 1-7     |
| 80E Series (End Entry)  |          |                |                              |         |
| JM-80E-300              | 8040     | 300psi/20 bar  | -10°C - 66°C<br>(14°F-150°F) | 1-7     |
| JM-80E-450              |          | 450psi/31 bar  |                              | 1-7     |
| JM-80E-600              |          | 600psi/41 bar  |                              | 1-7     |
| JM-80E-1000             |          | 1000psi/68 bar |                              | 1-7     |
| JM-80E-1200             |          | 1200psi/82 bar |                              | 1-7     |
| 40S Series (Side Entry) |          |                |                              |         |
| JM-40S-300              | 4040     | 300psi/20 bar  | -10°C - 66°C<br>(14°F-150°F) | 1-5     |
| JM-40S-450              |          | 450psi/31 bar  |                              | 1-5     |
| JM-40S-600              |          | 600psi/41 bar  |                              | 1-5     |
| JM-40S-1000             |          | 1000psi/68 bar |                              | 1-5     |
| JM-40S-1200             |          | 1200psi/82 bar |                              | 1-5     |
| 40E Series (End Entry)  |          |                |                              |         |
| JM-40E-300              | 4040     | 300psi/20 bar  | -10°C - 66°C<br>(14°F-150°F) | 1-5     |
| JM-40E-450              |          | 450psi/31 bar  |                              | 1-5     |
| JM-40E-600              |          | 600psi/41 bar  |                              | 1-5     |
| JM-40E-1000             |          | 1000psi/68 bar |                              | 1-5     |
| JM-40E-1200             |          | 1200psi/82 bar |                              | 1-5     |

For special customization please contact us for details



80S

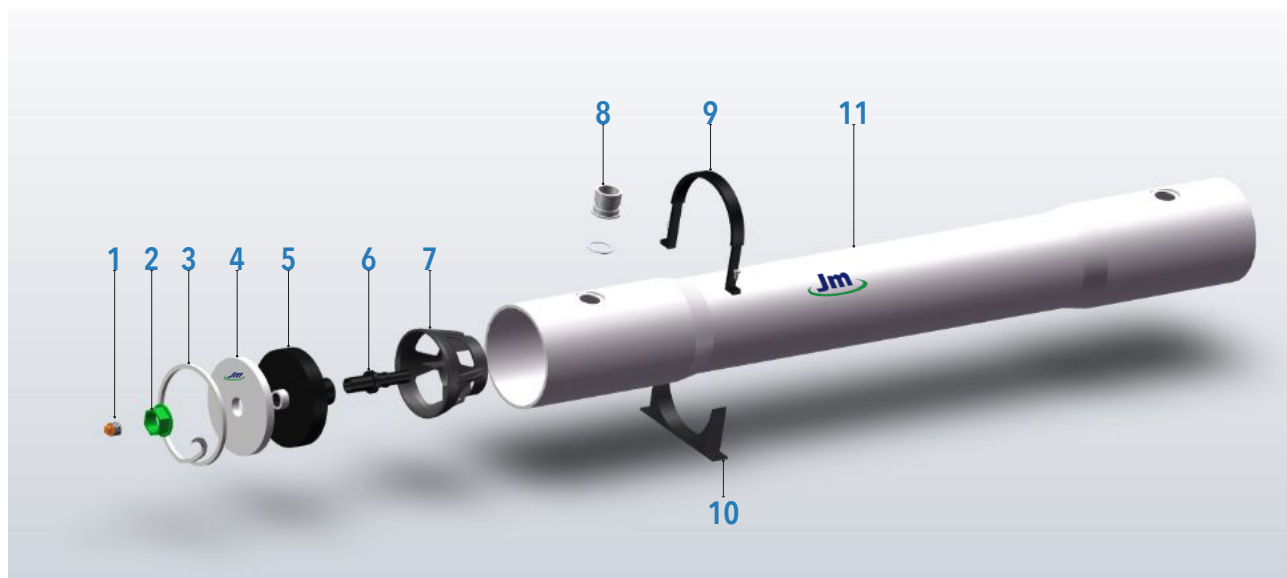


80E

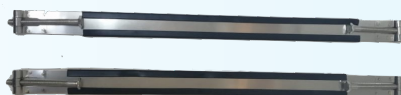


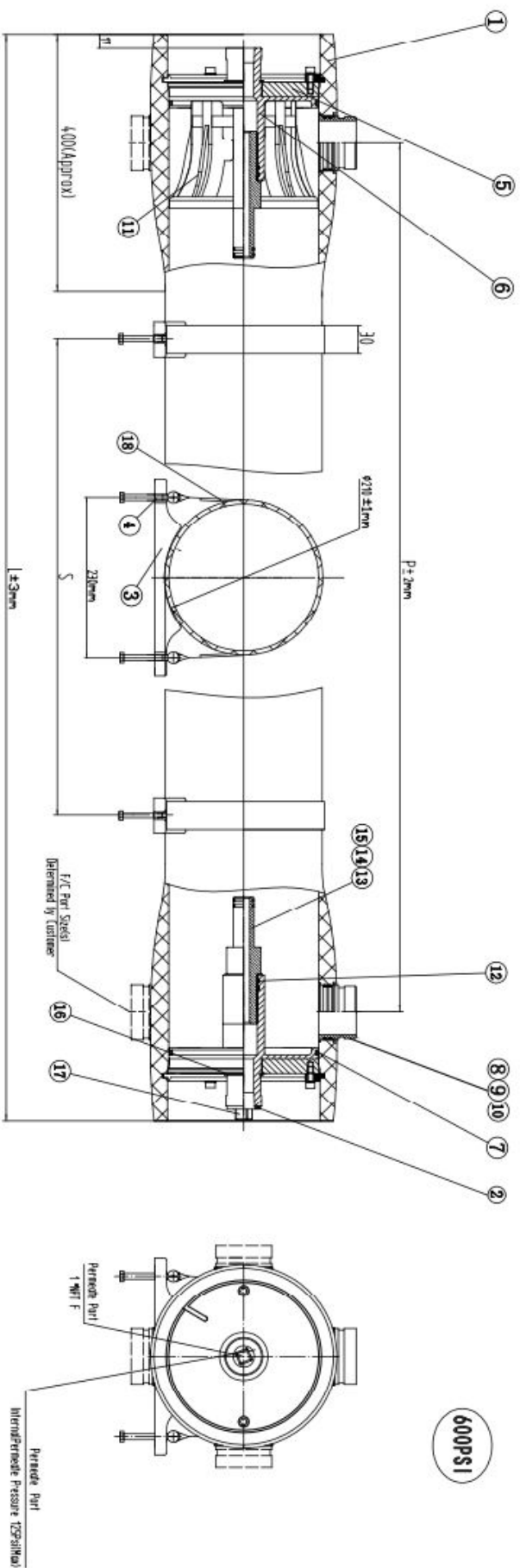
40S

## Housing Parts Breakdown



| Part No. | Part Name      | Part No. | Part Name        |
|----------|----------------|----------|------------------|
| 1        | PLUG           | 7        | THRUST RING      |
| 2        | PORT NUT       | 8        | FC PORT          |
| 3        | RETAINING RING | 9        | STRAP ASSEMBLY   |
| 4        | BEARING PLATE  | 10       | SADDLE           |
| 5        | SEALING PLATE  | 11       | PRESSURE HOUSING |
| 6        | ADAPTER        |          |                  |





#### Note:

1. Design pressure: 600PSI (41Bar)
2. Design temperature: 150° F (66° C)
3. Minimum temperature: 14° F (-10° C)
4. Working medium: Water, PH 3-11
5. Please operate in accordance with User Guide
6. Flexible piping should be used on permeate connection to mainfold
7. Side port misalignment can not exceed 0.7mm in any direction
8. Subject to change without prior notice

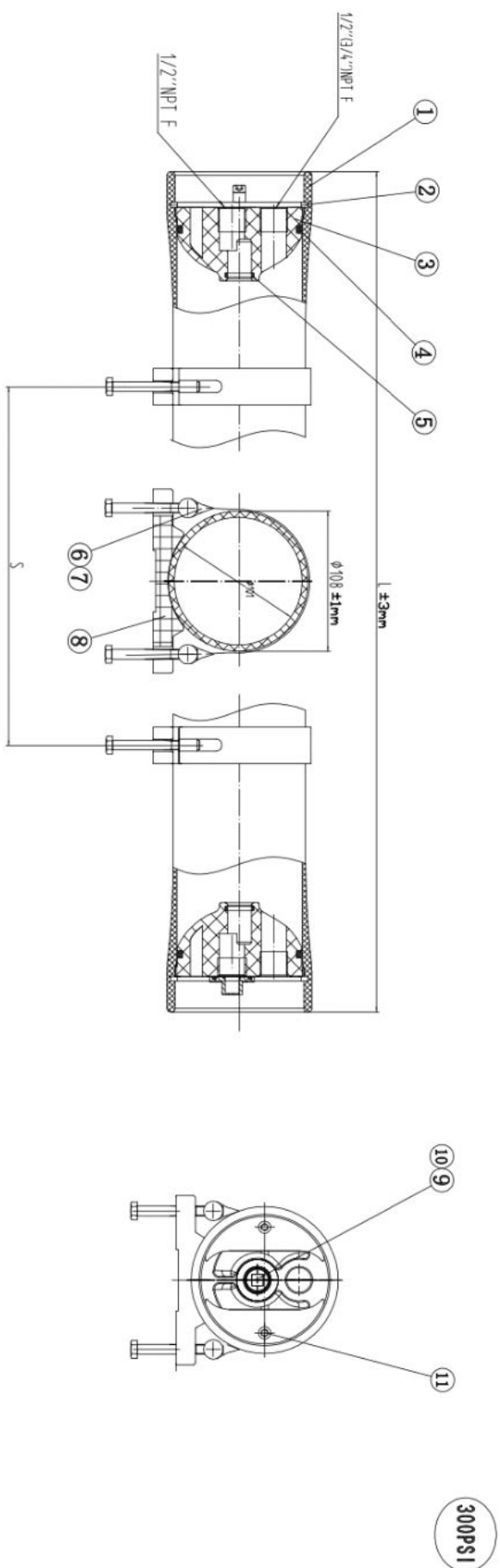
| Ref. | L (MM) | P (MM) | S (MM) |
|------|--------|--------|--------|
| 1    | 1580   | 1180   | 790    |
| 2    | 2550   | 2200   | 1460   |
| 3    | 3540   | 3200   | 2070   |
| 4    | 4590   | 4200   | 1650±2 |
| 5    | 5600   | 5255   | 2000±2 |
| 6    | 6610   | 6274   | 2300±2 |
| 7    | 7620   | 7260   | 2000±3 |

| Ref. | Size            | Material       | Remark    |
|------|-----------------|----------------|-----------|
| 1    | Plug            | 304SS+Rubber   |           |
| 2    | Retaining Ring  | 304SS          |           |
| 3    | 0-Ring          | EPDM           | 23.6x2.65 |
| 4    | Adapter         | ABS            |           |
| 5    | Adapter Part    | ABS            |           |
| 6    | 0-Ring          | EPDM           | 36.5x3.55 |
| 7    | Thin Ring       | ABS            |           |
| 8    | Retaining Ring  | 2-8 304SS      |           |
| 9    | Feed Conc. Port | 2-8 304SS      |           |
| 10   | 0-Ring          | EPDM           |           |
| 11   | Sealing Plate   | ABS            |           |
| 12   | Sealing Plate   | Aluminum Alloy |           |
| 13   | Screw           | 304SS          | M8*90     |
| 14   | Screw           | Rubber         | 36.5x3.55 |
| 15   | Pressure Shell  | FRPP           | White     |

Jieming International Trading FZCO



| Design   | Model                      |
|----------|----------------------------|
| Design   | JM-80S-600 Pressure Vessel |
| Review   | 0RG                        |
| Date     | JM-80S-600                 |
| Approved | Unit                       |
| Date     | REV. 2021                  |



| Elements | L (MM) | S (MM) |
|----------|--------|--------|
| 1        | 1180   | 610    |
| 2        | 2180   | 1350   |
| 3        | 3180   | 1960   |
| 4        | 4200   | 1580x2 |
| 5        | 5210   | 2100x2 |

- Note:
1. Design pressure: 300PSI(21Bar)
  2. Design temperature: 150°F(66°C)
  3. Minimum temperature: 14°F(-10°C)
  4. Working medium: Water, PH 3-11
  5. Please operate in accordance with User Guide
  6. Flexible piping should be used on permeate connection to mainfold

|     |                        |      |               |           |  |
|-----|------------------------|------|---------------|-----------|--|
| 11  | locking Crescent Screw | 4    | 304SST        | M6*14     |  |
| 10  | O-Ring                 | 4    | EPDM          | 23.6*3.55 |  |
| 9   | Plug                   | 1    | ABS           |           |  |
| 8   | Saddle                 | 2~3  | Rubber        |           |  |
| 7   | Strap Screw            | 4~6  | 304SST        | M8*70     |  |
| 6   | Strap                  | 2~3  | 304SST-Rubber |           |  |
| 5   | O-Ring                 | 2    | EPDM          | 19*2.65   |  |
| 4   | O-Ring                 | 2    | EPDM          | 90*5.3    |  |
| 3   | End Plate              | 2    | ABS           |           |  |
| 2   | locking Crescent       | 4    | 304SST        |           |  |
| 1   | Pressure Shell         | 1    | EPoxy FRP     | White     |  |
| NO. | Description            | Qty. | Material      | Remark    |  |

**Jieming International Trading FZCO**

|          |                            |
|----------|----------------------------|
| Design   | Model                      |
| Date     | JM-40E-300 Pressure Vessel |
| Review   | DRG                        |
| Date     | <b>JM-40E-300</b>          |
| Approval | Unit                       |
| Date     | mm                         |
|          | REV                        |
|          | 2021                       |

Please contact us for more drawing details.



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