2.5" FRP Membrane Housing Contents

1. Explanation Model
   02
2. Specification
   02
3. Components
   02
4. Quality Assurance
   03
5. Certificates
   04
6. Projects
   04
7. Addendum Drawings
   05

7 – 1 W25E300 FRP membrane housing drawing..................05
7 – 2 W25E1000 FRP membrane housing drawing..................05
2.5” FRP Membrane Housing

☆ Composite Construction.
☆ Unique Mirror Finish ID.
☆ Quick Locking System.
☆ Smooth Inner Wall Surface.
☆ Brightly Colored Baking Process.
☆ Adapters, Interconnectors & Mounting Clamps Available.
☆ Certified by ASME, ISO9001, ISO14001 and GB/T2800.

Technical Specification

Material: Fiberglass and epoxy.
Working Pressure: 300–1000 PSI.
Operating Temperature: -10 °C–49 °C.
Connection Type: End port.
Operating pH Range: 3–11.
Cleaning pH Range: 2–12 (≤ 30 min).

Test

Burst Test: 6 times of its design pressure.
Cycle Test: 100000 times.
Hydraulic Test: 100% quality assurance test with 1.2 times stage elevation.
Barcol Hardness Test: Repeated once every 1.5 meters.
Test every membrane housing, not sampling.
**Explanation of Codes of Winder Membrane Pressure Vessels**

- **W**: Brand Name
- **25**: Membrane Housing Diameter: 2.5"
- **E**: Feed/Concentrate Port Type: End Port E
- **300**: Membrane Housing Max Operating Pressure: 300 PSI
- **-1**: Membrane of Element Inside

**Specification**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Design pressure (PSI)</th>
<th>Operating temperature</th>
<th>Feed port (inch)</th>
<th>Permeate port (inch)</th>
<th>Connection</th>
<th>Element length</th>
</tr>
</thead>
<tbody>
<tr>
<td>W2514E300</td>
<td>300</td>
<td>-10 °C–49 °C</td>
<td>1/4&quot; RC</td>
<td>1/4&quot; RC</td>
<td>End port</td>
<td>14&quot; × 1</td>
</tr>
<tr>
<td>W2521E300</td>
<td>300</td>
<td>-10 °C–49 °C</td>
<td>1/4&quot; RC</td>
<td>1/4&quot; RC</td>
<td>End port</td>
<td>21&quot; × 1</td>
</tr>
<tr>
<td>W2540E300</td>
<td>300</td>
<td>-10 °C–49 °C</td>
<td>1/4&quot; RC</td>
<td>1/4&quot; RC</td>
<td>End port</td>
<td>40&quot; × 1</td>
</tr>
<tr>
<td>W2514E1000</td>
<td>1000</td>
<td>-10 °C–49 °C</td>
<td>1/4&quot; RC</td>
<td>1/4&quot; RC</td>
<td>End port</td>
<td>14&quot; × 1</td>
</tr>
<tr>
<td>W2521E1000</td>
<td>1000</td>
<td>-10 °C–49 °C</td>
<td>1/4&quot; RC</td>
<td>1/4&quot; RC</td>
<td>End port</td>
<td>21&quot; × 1</td>
</tr>
<tr>
<td>W2540E1000</td>
<td>1000</td>
<td>-10 °C–49 °C</td>
<td>1/4&quot; RC</td>
<td>1/4&quot; RC</td>
<td>End port</td>
<td>40&quot; × 1</td>
</tr>
</tbody>
</table>

**Components**

- Components assembly diagram
- Components detail
<table>
<thead>
<tr>
<th>Serial-Number</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>Inner hexagonal head bolt</td>
<td>M5*1.5, 304</td>
</tr>
<tr>
<td>②</td>
<td>Crescent film</td>
<td>SA-213, 304</td>
</tr>
<tr>
<td>③</td>
<td>Pressure head</td>
<td>2205</td>
</tr>
<tr>
<td>④</td>
<td>Sealing rings</td>
<td>EPDM</td>
</tr>
</tbody>
</table>

**Quality Assurance**

- **Barcol hardness test:** repeated once every 1.5 meters.
- **Hydraulic test:** 100% quality assurance test with 1.2 times stage elevation. Keep pressure for 2 minutes to ensure no leakage.
- **Burst test:** 6 times of its design pressure.
- **Cycle test:** 100000 times.
Higher Technology, Cleaner Water!

CHENG DA
sales@membranehousing.org  TEL: +86-15030811699
www.membranehousing.org  WhatsApp: +86-15030811699 (Skype)

Certificates

- ASME
- CNAS28001
- ISO9001
- ISO14001

Projects

- Gansu chemical plant water process engineering. May 2014
- Biel Crystal water treatment engineering. May 2015
- Daya Bay Cnooc's refinery project. July 2016
- Qingdao wastewater reclamation project. Aug 2016
- Dalian Hengli petrochemical water treatment project. Nov 2017
Addendum Drawings

1. W25E300 FRP membrane housing drawing

2. W25E1000 FRP membrane housing drawing