4" End Port Pressure Vessel 1000 psi (69.0 bar)

Working Pressure: 1000 psi  Working Temperature: -7º to 45ºC  pH Range: 3 - 10
Assembly Drawing: 1MNC 1384  Design Code: ASME X

Body of vessel is manufactured completely from glass reinforced epoxy resins. Pressure vessels can be produced to cover all leading manufacturers membranes regardless of length. Please advise membrane type and length when requesting further details. Please adhere to recommended support positions, if in doubt contact Phoenix Vessel Technology.

Feed and concentrate connections: 3/4" BSP or NPT.  Product connections: 1/2" BSP Parallel (Male)

<table>
<thead>
<tr>
<th>Order Reference</th>
<th>No of 40&quot; Elements</th>
<th>Port to Port Length +/-1mm</th>
<th>Max Support Position</th>
<th>Min Support Position</th>
<th>Max Dry Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4E1000X.(14)</td>
<td>14&quot;</td>
<td>635</td>
<td>360</td>
<td>150</td>
<td>9.5 kg</td>
</tr>
<tr>
<td>4E1000X.(21)</td>
<td>21&quot;</td>
<td>814</td>
<td>540</td>
<td>150</td>
<td>11 kg</td>
</tr>
<tr>
<td>4E1000X.1</td>
<td>1</td>
<td>1295</td>
<td>800</td>
<td>200</td>
<td>15 kg</td>
</tr>
<tr>
<td>4E1000X.2</td>
<td>2</td>
<td>2413</td>
<td>1810</td>
<td>620</td>
<td>24 kg</td>
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<tr>
<td>4E1000X.3</td>
<td>3</td>
<td>3429</td>
<td>2450</td>
<td>1310</td>
<td>33 kg</td>
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<tr>
<td>4E1000X.4</td>
<td>4</td>
<td>4445</td>
<td>2820</td>
<td>2280</td>
<td>41 kg</td>
</tr>
<tr>
<td>4E1000X.5</td>
<td>5</td>
<td>5461</td>
<td>4650 c</td>
<td>3320 c</td>
<td>49 kg</td>
</tr>
<tr>
<td>4E1000X.6</td>
<td>6</td>
<td>6477</td>
<td>5010 c</td>
<td>4340 c</td>
<td>57 kg</td>
</tr>
<tr>
<td>4E1000X.7</td>
<td>7</td>
<td>7747</td>
<td>5340 c</td>
<td>5340 c</td>
<td>65 kg</td>
</tr>
</tbody>
</table>

All dimensions in mm.  c = Central support required.
All dimensions and weights are nominal unless stated otherwise.

This data sheet supersedes all previous issues.

Product Code: 4E1000X  11/06
4" End Port Pressure Vessel 1000 psi (69.0 bar)

**NOTE**

- Tighten all bolts/nuts to 50% of the maximum torque figure.
- **DO NOT EXCEED THE MAXIMUM TORQUE.**

For lubricants and general assembly refer to the User Guide on our website.

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**Item** | **Description** | **Material** | **Part No.** | **No. off**
--- | --- | --- | --- | ---
1 | Vessel Body | Glass Fibre Epoxy Resin | BDY 1417 | 1
2 | Feed/Concentrate Port | Duplex Stainless Steel - 2507 | CMP 1418 | 2
3 | Product Port | Thermoplastic | CMP 2261.A | 2
4 | Backing Plate | St. Steel 316 | CMP 1654 | 2
5 | Retaining Ring Segment | St. Steel 316 | CMP 1104 | 2 Sets of 3
6 | 'O' Seal Product Port | EPDM Included in item 3 | BS215 | 2
7 | Retaining Ring (Feed Port) | St. Steel 316 | CMP 1299 | 2
8 | End Plate | Thermoplastic | CMP 1587.A | 2
9 | Hub | Thermoplastic | To suit membrane | 2
10 | Adaptor (2-7 element only) | Thermoplastic | To suit membrane | 2
11 | 'O' Seal Endplate | EPDM Included in item 8 | BS342 | 2
12 | 'O' Seal Feed Port | EPDM Included in item 8 | BS120 | 2
13 | 'O' Seal (Endplate/Hub) | EPDM Included in item 9 | BS121 | 4
14 | 'O' Seal (Hub/Membrane) | EPDM | To suit membrane | 2/4
15 | 'O' Seal (Adaptor) | EPDM | To suit membrane | 2/4
16 | Backnut 1/2" BSP | Thermoplastic | CMP 1423 | 2
17 | Cap Head Screw | St. Steel A4 Grade | CMP 1077 | 4
18 | Strap | St. Steel/PVC | CMP 3570.A | 2/3
19 | Saddle | Urethane | CMP 1115 | 2/3
20 | Shim Set | Thermoplastic (2-7 Element) | CMP 1728 | 6
21 | Nameplate | Aluminium or Vinyl | Not Available | 1

The company reserves the right to alter specifications without prior notice.

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