HENCO MULTILAYER PIPE

Your Connection to Perfection
HENCO with all the advantages of plastic and metal

- Butt welded aluminium pipe
- 100% oxygen-tight and water vapour diffusion tight
- Low coefficient of linear expansion, similar to metal pipe
- Entirely corrosion-resistant, also resistant against chemicals and electrochemicals
- Sound-insulation similar to entirely plastic pipe
- Electron beam crosslinked inner and outer pipe
- High resistance to pressure and temperature
- Smooth surface, less loss of pressure
- Light as plastic piping
- Flexible, easy to bend even at low temperatures, retains shape after bending

HENCO Multilayer Pipe PE-Xc/Aluminium/PE-Xc

- PE-Xc inner pipe: made of high quality HDPE, electron beam crosslinked, which meets the most stringent standards and is also highly resistant against aggressive substances
- Butt welded aluminium pipe: makes it 100% oxygen tight and helps to keep its shape
- High quality composite layer
- PE-Xc outer layer: made of high quality HDPE, electron beam crosslinked, which provides good protection on construction sites

Technical Profile Henco Multilayer Pipe

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>14  Rixc</th>
<th>16  Rixc</th>
<th>18  Rixc</th>
<th>20  Rixc</th>
<th>20  Rixc</th>
<th>26  Rixc</th>
<th>26  Rixc</th>
<th>32  Rixc</th>
<th>40  Rixc</th>
<th>50  Rixc</th>
<th>63  Rixc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner diameter (mm)</td>
<td>10</td>
<td>12</td>
<td>12</td>
<td>14</td>
<td>14</td>
<td>16</td>
<td>16</td>
<td>20</td>
<td>20</td>
<td>26</td>
<td>33</td>
</tr>
<tr>
<td>Wall thickness (mm)</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>3,5</td>
<td>4,0</td>
<td>4,5</td>
</tr>
<tr>
<td>Thickness aluminium (mm)</td>
<td>0.4</td>
<td>0.4</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.4</td>
<td>0.5</td>
<td>0.5</td>
<td>0.7</td>
<td>0.9</td>
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<tr>
<td>Max. working temperature (°C)</td>
<td>95</td>
<td>95</td>
<td>95</td>
<td>95</td>
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<td>95</td>
<td>95</td>
<td>95</td>
<td>95</td>
<td>95</td>
<td>95</td>
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<tr>
<td>Max. working pressure (bar)</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Thermal conduction (W/mK)</td>
<td>0.43</td>
<td>0.43</td>
<td>0.43</td>
<td>0.43</td>
<td>0.43</td>
<td>0.43</td>
<td>0.43</td>
<td>0.43</td>
<td>0.43</td>
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<tr>
<td>Linear expansion (mm/mK)</td>
<td>0.025</td>
<td>0.025</td>
<td>0.025</td>
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<td>0.025</td>
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<tr>
<td>Surface roughness of inner pipe (µ)</td>
<td>7</td>
<td>7</td>
<td>7</td>
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<tr>
<td>Oxygen diffusion (mg/l)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Min. bending radius manual / external spring (mm)</td>
<td>5xDu</td>
<td>5xDu</td>
<td>8xDu</td>
<td>5xDu</td>
<td>8xDu</td>
<td>5xDu</td>
<td>7xDu</td>
<td>5xDu</td>
<td>7xDu</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Min. bending radius with internal bending spring (mm)</td>
<td>3xDu</td>
<td>3xDu</td>
<td>8xDu</td>
<td>3xDu</td>
<td>8xDu</td>
<td>3xDu</td>
<td>5xDu</td>
<td>3xDu</td>
<td>5xDu</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Crosslinking / inner and outer pipe (%)</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
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<td>90</td>
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<td>90</td>
</tr>
<tr>
<td>Weight (kg/m)</td>
<td>0.108</td>
<td>0.125</td>
<td>0.132</td>
<td>0.132</td>
<td>0.138</td>
<td>0.147</td>
<td>0.129</td>
<td>0.261</td>
<td>0.252</td>
<td>0.39</td>
<td>0.528</td>
</tr>
<tr>
<td>Water volume (l/m)</td>
<td>0.072</td>
<td>0.113</td>
<td>0.135</td>
<td>0.154</td>
<td>0.201</td>
<td>0.201</td>
<td>0.314</td>
<td>0.314</td>
<td>0.53</td>
<td>0.803</td>
<td>1.32</td>
</tr>
<tr>
<td>Per coil (m)</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Straight lengths (m)</td>
<td>2.3-4.5</td>
<td>2.3-4.5</td>
<td>2.3-4.5</td>
<td>2.3-4.5</td>
<td>2.3-4.5</td>
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<td>2.3-4.5</td>
<td>2.3-4.5</td>
</tr>
</tbody>
</table>

* only use elbows
**Multilayer pipe and PVDF fittings: a corrosion free system**

Henco press fittings in PVDF\(^1\) (Ø14-63)

1. **CUT**

2. **CALIBRATE**

3. **PRESS**

A. PVDF body
B. Viewing window to check the pipe is fully inserted
C. Stainless steel shoulder to locate into the jaws of the press tool
D. Pressure sleeve of stainless steel
E. EPDM O-ring
F. DZR brass: dezincification resistant

Leak before press!!

Henco Vision push fittings in PVDF\(^1\) (Ø16-20-26)

A. PVDF body with EPDM O-rings
B. PVDF sleeve with Vision window
C. Stainless steel grab ring
D. Stainless steel support ring
E. PVDF tapered split ring
F. PVDF end cap with EPDM O-ring and demounting slots

Quickly demountable

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1. High quality synthetic material (Polyvinylidene fluoride)
2. Ø 14-26
Henco Vision manifolds in PVDF: a fully modular system

Practice

Henco Vision manifolds

Certificates all over the world confirm the HENCO top quality

Henco 10 year system guarantee