SILICONE HOSE ASSEMBLIES

USP & FDA High Pressure, High-Purity Silicone Hose Assemblies

Our Silicone Hose Assemblies are USP Class VI & FDA approved as they are produced from High Purity Medical Grade materials and are fitted with our unique range of specialised 316 Stainless Steel ‘Safe-Lok’ hygienic swaged end fittings. We offer a range of Silicone Hose types to suit your needs from Braided Silicone to permit use in higher pressure applications, to Wire-Reinforced Silicone which features a Helical Stainless Steel wire that allows the bend radius of the hose to be decreased dramatically without causing the hose to kink. Silicone Hose Assemblies are suitable for CIP Cleaning, Steam Sterilisation and Autoclaving.

High Purity & High Pressure

- Puresil-Techniflex hoses can now be produced in continuous lengths of up to 7.24m (24ft).
- Sizes Range from 0.4mm to 200mm N.B.
- Working Pressure is 10Bar.
- Temperature range of -60°C to +160°C.

We can supply all Styles of fully machined hygienic connections including Males, Females and Tri-Clamp fittings.
We can also manufacture custom made ends to suit customer requirements, along with hygienically welded 45° or 90° radius elbows.

USP & FDA Silicone Colour Coded Hoses

USP & FDA silicone colour coded hose’s can be supplied to suit all types of hygienic process applications where individual or dedicated product transfer lines are required.

This range of high purity coloured hoses is available with a wide choice of colours. They have been designed to be highly and due to silicones low product adhesion are also easily cleaned both internally and externally.

Puresil-Techniflex Silicone Hose Assemblies are available with a wide variety of reusable Stainless Steel End Connections which offer a guaranteed surface finish of 0.25 Ra µm with full material certification and documentation.
Platinum Cured Silicone Rubber Vacuum & Delivery Process Hoses

Puresil-Techniflex Type PC-SSHW Hose Assemblies are USP Class VI & FDA approved as they are produced from Platinum Cured Silicone and are fitted with our unique range of specialised 316 Stainless Steel ‘Safe-Lok’ hygienic swaged end fittings with full material batch traceability.

Specifically designed for bulk transfer, high-pressure, and vacuum process applications. The only hose of its type to be manufactured in a Class 1000 clean room of medical-grade platinum-cured silicone throughout.

The PC-SSHW is a wire-reinforced Silicone hose which features a unique close-pitch Helical Stainless Steel reinforcing wire that allows the bend radius of the hose to be decreased dramatically without causing the hose to kink.

Its’ smooth outer surface ensures optimum clean-ability. Silicone Hose Assemblies are suitable for CIP Cleaning, Steam Sterilisation and Autoclaving.

Puresil-Techniflex PC-SSHW hoses can also be supplied with re-usable Sanitary and Hygienic end connections - Offering substantial cost savings on future hose replacements.

- Manufactured to suit hose lengths of up to 24 feet long (7.30m).
- Can be supplied in sizes from 6.0mm up to 200mm NB.
- Total Batch lot material traceability on all components of hose construction.
- Broad Temperature range from -50°C to +150°C.
- Pressure range from 8.0 to 14.0 Bar (depending on required NB size).
- Can be cleaned by SIP, CIP or autoclaved.

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>I/D (mm)</th>
<th>O/D (mm)</th>
<th>WALL THICKNESS (mm)</th>
<th>WORKING PRESSURE (Bar)</th>
<th>MINIMUM BEND RADIUS (mm)</th>
<th>VACUUM RATING (InHg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0500</td>
<td>12.7 (⅝”)</td>
<td>23.1</td>
<td>5.2</td>
<td>14.0 (203 psi)</td>
<td>76.0</td>
<td>30</td>
</tr>
<tr>
<td>0750</td>
<td>19.05 (¾”)</td>
<td>31.05</td>
<td>6.0</td>
<td>14.0 (203 psi)</td>
<td>127.0</td>
<td>30</td>
</tr>
<tr>
<td>1000</td>
<td>25.4 (1”)</td>
<td>37.8</td>
<td>6.2</td>
<td>10.0 (145 psi)</td>
<td>180.0</td>
<td>30</td>
</tr>
<tr>
<td>1500</td>
<td>38.1 (1½”)</td>
<td>50.1</td>
<td>6.0</td>
<td>10.0 (145 psi)</td>
<td>230.0</td>
<td>30</td>
</tr>
<tr>
<td>2000</td>
<td>50.8 (2”)</td>
<td>63.2</td>
<td>6.2</td>
<td>10.0 (145 psi)</td>
<td>280.0</td>
<td>30</td>
</tr>
<tr>
<td>2500</td>
<td>63.5 (2½”)</td>
<td>75.9</td>
<td>6.2</td>
<td>10.0 (145 psi)</td>
<td>300.0</td>
<td>30</td>
</tr>
<tr>
<td>3000</td>
<td>76.2 (3”)</td>
<td>90.2</td>
<td>7.0</td>
<td>10.0 (145 psi)</td>
<td>350.0</td>
<td>30</td>
</tr>
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<td>4000</td>
<td>101.6 (4”)</td>
<td>118.0</td>
<td>8.2</td>
<td>8.0 (116 psi)</td>
<td>450.0</td>
<td>30</td>
</tr>
</tbody>
</table>

NOTE: Unless otherwise stated, all tests were conducted at a temperature of 73°F (23°C).

Special high pressure hoses required for Increased working pressures and temperatures can be manufactured to order. Please contact Puresil-Techniflex for further information.