MarineMaster® Polypropylene

Vapor Composite Hose Type 1321GGP and 3351PGP

Applications: This type is designed for use as a marine ship-to-shore or vessel-to-vessel vapor recovery hose suitable for a large variety of hydrocarbon or chemical vapors. And durable to withstand rigorous handling on a marine or vessel.

Construction:
- Color/Cover: 1321GGP Yellow/2x PVC coated Nylon, Abrasion and Ozone resistant
  3351PGP Yellow black stripe/2x PVC coated Nylon, Abrasion, and Ozone resistant
- Inner Wire: 1321GGP Galvanized Steel
  3351PGP Black Polypropylene coated steel
- Inner lining: High Grade Polypropylene
- Carcass: Polypropylene fabrics, films and Polypropylene/nylon seamless tubes
- Outer Wire: Galvanized Steel
- USCG Markings: Red/Yellow/Red ID Color each end, 2” VAPOR logo and .625 pilot holes

Physical properties:
- Temperature Range: -22°F to +212°F (-30°C to +100°C)
- Maximum elongation: ≤10% on test pressure
- Vacuum range: 26 inHg (660 mmtg), 0.9 bar
- Electrical properties: Electrically Conductive
  ≤1.0 ohm/m for size 2”

Standards: EN13765:2010, IMO, IBC, BS55842, USCG 33CFR 154.800 Vapor Line

End Fittings: Specially designed end fittings have been developed for use with Willcox Composite hoses that have a unique leak-proof sealing face and specially machined helical spiral shank which engages into the corresponding internal helix wire when secured into the hose by either crimping or swaging the external ferrules. See page 28 for more information about end connections.

<table>
<thead>
<tr>
<th>TECHNICAL DATA: TYPE 1321GGP AND 3351PGP</th>
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<tbody>
<tr>
<td>Inside Diameter</td>
</tr>
<tr>
<td>Inches</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>8</td>
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<td>10</td>
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Pressure based on safety factor 4:1
Dimensions and weight are approximate and are subject to change
For additional technical data such as pressure drop, max. flow rates and tensile strength, please consult United Flexible engineering
Increased operating temperatures will reduce working pressure of the assemblies
Fitting pressure rating may limit or reduce the rated working pressure of the assembly
Rated working pressure is @ 70°F (21°C)