MarineMaster® Ship to Shore Transfer Hose
Composite Hose Type 1151GGP, 3161PGP and 3164PSP

Applications: This type is designed for use as a bulk hydrocarbon or chemical transfer hose from barges, ships, jetties or for heavy duty in-plant uses where high flexibility and resistance to kinking is required.

Construction:
- Color/Cover: 1151GGP Royal Blue/Double PVC coated Nylon, Abrasion, UV and Ozone resistant
- 3161PGP Grey/Double PVC coated Nylon, Abrasion, UV and Ozone resistant
- 3164PSP Grey yellow stripe/Double PVC coated nylon, Abrasion, UV and ozone resistant
- Inner Wire: 1151GGP Galvanized Steel
- 3161PGP, 3164PSP Black Polypropylene coated steel
- Inner lining: High Grade Polypropylene
- Carcass: Polypropylene fabrics, films and Polypropylene/and seamless tubes
- Outer Wire: 1151GGP, 3161PGP Galvanized Steel
- 3164PSP T316 Stainless Steel
- Logo: MarineMaster®

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 mmHg), 0.9 bar
- Electrical properties: Electrically Conductive
  - ≤1.0 ohm/m for size 2”

Standards:
- EN13765:2010, IMO, IBC, BS5842, USCG 33CFR 154.500

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 1151GGP, 3161PGP AND 3164PSP</th>
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<tbody>
<tr>
<td>Inside Diameter</td>
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<tr>
<td>Inches</td>
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<tr>
<td>4</td>
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<td>6</td>
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<tr>
<td>8</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)