**MarineMaster® Polypropylene**

**Composite Hose Type 4161SGP and 4164SSP**

**Applications:** This type is designed for use as bulk chemical transfer hose from barges and ships, suitable for use with a wide variety of chemicals with maximum resistant polypropylene coated inner wire is required.

**Construction:**
- **Color/Cover:** 4161SGP Blue white stripe/2x PVC coated Nylon, Abrasion and Ozone resistant
  4164SSP Blue yellow stripe/2x PVC coated Nylon, Abrasion, and Ozone resistant
- **Inner Wire:** T316 Stainless Steel
- **Inner Lining:** High Grade Polypropylene
- **Carcass:** Polypropylene fabrics, films and Polypropylene/nylon seamless tubes
- **Outer Wire:** 4161SGP Galvanized Steel
  4164SSP 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 4161SGP AND 4164SSP</th>
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<tbody>
<tr>
<td>Inside Diameter</td>
</tr>
<tr>
<td>Inches</td>
</tr>
<tr>
<td>4</td>
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<tr>
<td>6</td>
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<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)