



**MarineMaster® Fluoropolymer**

**Composite Hose Type 1171GGF, 4171SGF and 4174SSF**

**Applications:** This type is recommended for heavy duty marine transfer service where a chemical resistance of PTFE lining is required. It is designed to handle liquid chemicals and acids not compatible with standard heavy duty polypropylene hoses and is suitable for dock, barge and ship transfer applications. A stainless steel outer wire is available for applications that need to withstand corrosive environments of petrochemical vapors and rigorous handling as used on a maritime vessel.

**Construction:**

|               |   |
|---------------|---|
| Color/Cover:  | 1171GGF Black/2x PVC coated Nylon, Abrasion, UV and Ozone resistant<br>4171SGF Black white stripe/2xPVC coated Nylon, Abrasion and Ozone resistant<br>4174SSF Black yellow stripe/2x PVC coated Nylon, Abrasion and Ozone resistant |
| Inner Wire:   | 1171GGF Galvanized Steel<br>4174SGF, 4174SSF T316 Stainless Steel   |
| Inner lining: | PTFE, PFA, FEP or ETFE  |
| Carcass:      | Polypropylene fabrics, films and Polypropylene/nylon seamless tubes   |
| Outer Wire:   | 1171GGF, 4171SGF Galvanized Steel<br>4174SSF 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<br>≤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.

| TECHNICAL DATA: TYPE 1171GGF, 4171SGF AND 4174SSF |     |                  |           |                  |     |               |      |                |        |
|---|-----|------------------|-----------|------------------|-----|---------------|------|----------------|--------|
| Inside Diameter                                   |     | Working Pressure |           | Min. Bend Radius |     | Approx Weight |      | Maximum Length |        |
| Inches  | mm  | PSI              | Bar       | Inches           | mm  | lb/ft         | kg/m | Feet           | Meters |
| 4   | 100 | <b>200</b>       | <b>14</b> | 16               | 400 | 4.4           | 6.5  | 100            | 30     |
| 6   | 150 | <b>200</b>       | <b>14</b> | 20               | 500 | 7             | 10.5 | 100            | 30     |
| 8   | 200 | <b>200</b>       | <b>14</b> | 29               | 740 | 12            | 18   | 100            | 30     |
| 10  | 250 | <b>200</b>       | <b>14</b> | 36               | 920 | 15            | 23   | 50             | 15     |

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)