



**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.

TECHNICAL DATA: TYPE 1151GGP, 3161PGP AND 3164PSP									
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>250</b>	<b>17.5</b>	16	400	4.4	6.5	100	30
6	150	<b>250</b>	<b>17.5</b>	20	500	7	10.5	100	30
8	200	<b>250</b>	<b>17.5</b>	29	740	12	18	100	30
10	250	<b>100</b>	<b>14</b>	36	920	15	23	40	12

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)