



**ROUGHNECK® Polypropylene**  
**Composite Hose Type 1181GGP and 3181PGP**

**Applications:** This type is designed for use as a Frac or Pump hose, User friendly to make tight effortless connections easier in a confined area. Unlike stiff rubber frac/pump hose Roughneck® is ozone resistant and remains flexible in all conditions, even subzero.

**Construction:**

Color/Cover:	1181GGP Blue/PVC coated Nylon, Abrasion, UV and Ozone resistant 3181PGP Blue black stripe/PVC coated Nylon, Abrasion and Ozone resistant
Inner Wire:	1181GGP Galvanized Steel 3181PGP Black Polypropylene coated steel
Inner lining:	High Grade Polypropylene
Carcass:	Polypropylene fabrics, films and seamless tubes
Outer Wire:	Galvanized Steel
Logo:	Roughneck®
Extra:	Special Color Coding and branding

**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 ≤2.5 ohm/m for sizes less than 2" ≤1.0 ohm/m for size 2" and above

**Standards:** EN13765:2010, IMO, IBC, BS5842, NAHAD-600:2005

**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 1181GGP AND 3181PGP**

Inside Diameter		Working Pressure		Min. Bend Radius		Approx Weight		Maximum Length	
Inches	mm	PSI	Bar	Inches	mm	lb/ft	kg/m	Feet	Meters
3	80	<b>200</b>	<b>14</b>	11	280	2.5	3.7	100	30
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	7.0	10.5	100	30
8	200	<b>200</b>	<b>14</b>	29	740	12.0	18.0	100	30
10	250	<b>200</b>	<b>14</b>	36	920	15.0	23.0	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)