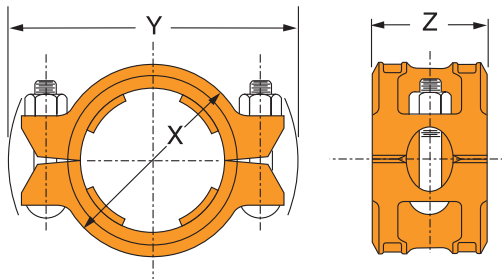


**FIG. 7005**  
Roughneck® Coupling



For Listings/Approval Details and Limitations, visit our website at [www.anvilintl.com](http://www.anvilintl.com) or contact an Anvil® Sales Representative.



The Fig. 7005 Roughneck Coupling is an effective and reliable way of joining plain-end or beveled end pipe. The Roughneck Coupling is ideal for use in a variety of applications including mining, process piping, manifold piping and oilfield services. The unique gripper action provides a positive pipe joint and allows for working pressure ratings up to 750 PSI (52 bar).

**MATERIAL SPECIFICATIONS**

**HOUSING:** Ductile Iron conforming to ASTM A 536, or Malleable Iron conforming to ASTM A 47, Grade 32510.

**BOLT & NUTS:** Heat treated, oval-neck track head bolts conforming to ASTM A 183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A 563 Grade A or Grade B, or J995 Grade 2. Bolts and nuts are provided zinc electroplated as standard.

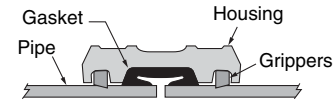
**GRIPPERS:** 2"-8" heat treated, electroplated carbon steel. 10"-16" heat treated stainless steel.

**COATINGS:** Rust inhibiting paint - Color: Orange Standard Hot dipped Zinc Galvanized (Optional) Other Colors Available (IE: RAL3000 and RAL9000). For other Coating requirements contact an Anvil Representative.

**GASKET:** Grade E (EPDM) or Grade T(Nitrile) Elastomers with properties as designed by ASTM D 2000 for each gasket grade.

**FIGURE 7005 ROUGHNECK® COUPLING**

Nominal Size	O.D.	Max. Wk. Pressure	Max. End Load	No. of Grippers	Coupling Dimensions			Coupling Bolts		Specified Torque §		Approx. Wt. Ea.
					X	Y	Z	Qty.	Size	Min.	Max	
In./DN(mm)	In./mm	PSI/bar	Lbs./kN		In./mm	In./mm	In./mm		In./mm	Ft.-Lbs./N-m	Ft.-Lbs./N-m	Lbs./Kg
2 50	2.375 60.3	750 51.7	3,323 14.78	8	3¾ 95	6¾ 162	3½ 89	2	5/8 x 3¼ -	150 203	190 257	6.6 3.0
2½ 65	2.875 73.0	600 41.4	3,895 17.33	8	4¼ 108	7½ 181	3½ 89	2	5/8 x 3¼ -	150 203	190 257	7.4 3.4
3 80	3.500 88.9	600 41.4	5,773 25.68	8	4¾ 124	8¾ 206	3½ 89	2	¾ x 4½ -	200 271	250 339	10.5 4.8
4 100	4.500 114.3	450 31.0	7,157 31.84	8	6¾ 162	9¾ 238	4¼ 105	2	¾ x 4½ -	200 271	250 339	16.4 7.4
5 125	5.563 141.3	350 24.1	8,507 37.84	8	7½ 191	11½ 283	4¾ 111	2	7/8 x 5 -	250 339	300 406	23.8 10.8
6 150	6.625 168.3	300 20.7	10,341 46.00	12	8¾ 222	12¾ 327	4¾ 111	2	1 x 6 -	250 339	300 406	31.7 14.4
8 200	8.625 219.1	300 20.7	17,528 77.97	12	10¾ 276	14½ 368	4½ 114	4	7/8 x 5 -	250 339	300 406	38.6 17.5
10 250	10.750 273.1	300 20.7	27,229 121.12	8	12¾ 321	18 457	5¾ 137	4	1 x 6½ -	500 678	600 814	40 18.1
12 300	12.750 323.9	250 17.2	31,919 141.98	12	14¾ 378	20¼ 514	5¾ 137	4	1 x 6½ -	550 746	700 949	56 25.4
14 350	14.000 355.6	200 13.8	30,788 136.95	12	16¾ 425	22¾ 562	6¼ 159	4	1 x 6½ -	550 746	700 949	88 39.9
16 400	16.000 406.4	150 10.3	30,159 134.15	12	18¾ 476	24 610	6¼ 159	4	1 x 6½ -	550 746	700 949	95 43.1



Working pressure and end load are based on a properly assembled Roughneck coupling with bolts fully torqued to the above specifications, on plain-end or beveled standard wall steel pipe and Gruvlok Plain- End Fittings.

Roughneck Couplings are designed to be used on plain-end pipe and Gruvlok Plain-End Fittings only. For externally coated pipe applications, contact a Gruvlok Representative.

Not recommended for use on steel pipe with a hardness greater than 150 Brinell, plastic, HDPE, cast iron or other brittle pipe.

\*Bolt torque ratings shown must be applied at installation.

See Coupling data chart notes on page 17.  
§ – For additional Bolt Torque information, see page 190.  
Not for use in copper or PVC systems.  
See Installation & Assembly directions on page 169.