

FIG. 7005 Roughneck® Coupling

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 up to 750 PSI (52 bar).



For Listings/Approval Details and Limitations, visit our website at www.anvilintl.com or contact an Anvil® Sales Representative.

MATERIAL SPECIFICATIONS

HOUSING: Ductile Iron conforming to ASTM A 536, Grade 65-45-12 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.

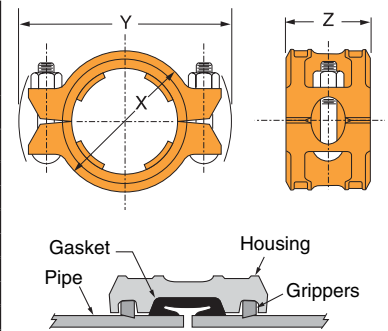
COATINGS:

- 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	½ 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	½ 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	8½ 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	4½ 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	22½ 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	

For additional details see "Coupling Data Chart Notes" on page 17.
 § - For additional Bolt Torque information, see page 200.
 See Installation & Assembly directions on page 178.
 Not for use in copper or PVC systems.



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 an Anvil Representative.

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

Not recommended for pipe schedule transitioning

Suitable for schedule 10 steel pipe, for pressure ratings contact an Anvil Representative.

*Bolt torque ratings shown must be applied at installation.

PROJECT INFORMATION

APPROVAL STAMP

Project:	<input type="checkbox"/> Approved
Address:	<input type="checkbox"/> Approved as noted
Contractor:	<input type="checkbox"/> Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	