FIG. 7010 Reducing Coupling

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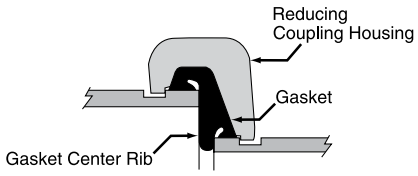
The Gruvlok® Figure 7010 Reducing Coupling makes it possible to directly connect two different pipe sizes, eliminating the need for two couplings and a reducing fitting. The specially designed reducing coupling gasket with a center rib assures proper positioning of the gasket and prevents the smaller pipe from telescoping into the larger during assembly. Working pressure ratings shown are for reference only and are based on Schedule 40 pipe. For the latest UL/ULC listed, LPCB, VdS and FM Approved pressure ratings versus pipe schedule, see www.anvilintl.com or contact your local Anvil Representative.



c UL us LISTED FM APPROVED LPCB VdS

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

– Available galvanized.

MATERIAL SPECIFICATIONS

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

ANSI BOLTS & HEAVY HEX 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.

METRIC BOLTS & HEAVY HEX NUTS:
Heat treated, zinc electroplated oval-neck track head bolts made of carbon steel with mechanical properties per ISO 898-1 Class 8.8. Hex nuts and bolts are zinc electroplated followed by a yellow chromate dip.

COATINGS:
☐ Rust inhibiting paint Color: ORANGE (standard)
☐ Hot Dipped Zinc Galvanized (optional)
☐ Other available options: Example: RAL3000 or RAL9000 Series
For other coating requirements contact an Anvil Representative.

LUBRICATION:
☐ Standard Gruvlok
☐ Gruvlok Xtreme™ required for dry pipe systems and freezer applications.

GASKETS: Materials
Properties as designated in accordance with ASTM D-2000.

☐ **Grade "E" EPDM** (Green color code)
-40°F to 230°F (Service Temperature Range)(-40°C to 110°C)
Recommended for water service, diluted acids, alkalies solutions, oil-free air and many chemical services.
NOT FOR USE IN PETROLEUM APPLICATIONS.

☐ **Grade "EP" EPDM** (Green and Red color code)
-40°F to 250°F (Service Temperature Range)(-40°C to 121°C)
Recommended for water service, diluted acids, alkalies solutions, oil-free air and many other chemical services.
NOT FOR USE IN PETROLEUM APPLICATIONS.

PROJECT INFORMATION	APPROVAL STAMP
Project:	☐ **Approved**
Address:	☐ **Approved as noted**
Contractor:	☐ **Not approved**
Engineer:	**Remarks:**
Submittal Date:	
Notes 1:	
Notes 2:	

FIG. 7010 Reducing Coupling

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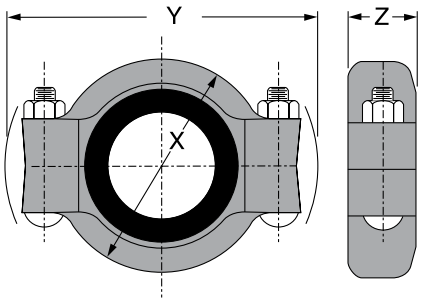

FIGURE 7010 REDUCING COUPLING

Nominal Size	Larger O.D.	Smaller O.D.	Max. Working Pressure▲	Max. End Load	Range of Pipe End Separation	Deflection From ℄		Coupling Dimensions			Coupling Bolts		Specified Torque §		Approx. Wt. Ea.
						Per Coupling	Pipe	X	Y	Z	Qty.	Size	Min.	Max.	
In./DN(mm)	*In./mm*	*In./mm*	*PSI/bar*	*Lbs./kN*	*In./mm*	*Degrees*	*In./Ft. - mm/m*	*In./mm*	*In./mm*	*In./mm*		*In./mm*	*Ft.-Lbs./N-m*		*Lbs./Kg*
2 x 1½	2.375	1.900	500	2,215	0-1/32	0° 45'	0.16	3⅝	5⅞	1⅞	2	½ x 2¾	80	100	2.0
50 x 40	*60.3*	*48.3*	*34.5*	*9.85*	*0-0.79*		*13.1*	*92*	*149*	*48*		*M12 x 76*	*110*	*150*	*0.9*
2½ x 2	2.875	2.375	500	3,246	0-1/32	0° 37'	0.13	4¼	6⅜	1⅞	2	½ x 2¾	80	100	3.5
65 x 50	*73.0*	*60.3*	*34.5*	*14.44*	*0-0.79*		*10.9*	*108*	*162*	*48*		*M12 x 76*	*110*	*150*	*1.6*
3 O.D. x 2	*2.858*	*2.262*	*500*	*2,115*	*0-⅛*	*0° 36'*	*0.12*	*4¼*	*5⅞*	*1⅞*	*2*	*½ x 2¾*	*80*	*100*	*3.4*
76.1 x 60.3	72	57	34.5	9.41	0-3.2		9.9	108	149	48		M12 x 76	110	150	1.5
3 x 2	3.500	2.375	500	4,811	0-1/32	0° 31'	0.11	4⅞	7⅛	1⅞	2	½ x 2¾	80	100	4.4
80 x 50	*88.9*	*60.3*	*34.5*	*21.40*	*0-0.79*		*8.9*	*124*	*181*	*48*		*M12 x 76*	*110*	*150*	*2.0*
3 x 2½	3.500	2.875	500	4,811	0-1/32	0° 31'	0.11	4⅞	7⅛	1⅞	2	½ x 2¾	80	100	4.1
80 x 65	*88.9*	*73.0*	*34.5*	*21.40*	*0-0.79*		*8.9*	*124*	*181*	*48*		*M12 x 76*	*110*	*150*	*1.9*
3 x 3 O.D.	*3.356*	*2.858*	*500*	*2,886*	*0-⅛*	*0° 31'*	*0.11*	*4¾*	*6⅛*	*1⅞*	*2*	*½ x 2¾*	*80*	*110*	*3.7*
88.9 X 76.1	85	73	34.5	12.84	0-3.2		8.9	120	169	48		M12 x 76	110	150	1.7
4 x 2	4.500	2.375	500	7,952	0-3/32	1° 12'	0.25	6¼	8⅞	2	2	⅝ x 3½	100	130	8.9
100 x 50	*114.3*	*60.3*	*34.5*	*35.37*	*0-2.38*		*20.8*	*159*	*225*	*51*		*M16 x 95*	*135*	*175*	*4.0*
4 x 2½	4.500	2.875	500	7,952	0-3/32	1° 12'	0.25	6¼	8⅞	2	2	⅝ x 3½	100	130	7.9
100 x 65	*114.3*	*73.0*	*34.5*	*35.37*	*0-2.38*		*20.8*	*159*	*225*	*51*		*M16 x 95*	*135*	*175*	*3.6*
4 x 3 O.D.	*4.350*	*2.858*	*500*	*4,771*	*0-3/16*	*1° 12'*	*0.25*	*6*	*8*	*2*	*2*	*⅝ x 3½*	*100*	*130*	*6.7*
114.3 X 76.1	110	73	34.5	21.22	0-4.8		20.8	152	203	51		M16 x 95	135	175	3.0
4 x 3	4.500	3.500	500	7,952	0-3/32	1° 12'	0.25	6¼	8⅞	2	2	⅝ x 3½	100	130	6.7
100 x 80	*114.3*	*88.9*	*34.5*	*35.37*	*0-2.38*		*20.8*	*159*	*225*	*51*		*M16 x 95*	*135*	*175*	*3.0*
5½ O.D. x 4	*5.350*	*4.350*	*500*	*7,128*	*0-3/16*	*1° 58'*	*0.20*	*7⅛*	*9⅛*	*2*	*2*	*¾ x 4½*	*130*	*180*	*9.8*
139.7 X 114.3	136	110	34.5	31.71	0-4.8		10.8	181	245	51		M20 x 115	175	245	4.4
5 x 3	5.563	3.500	500	7,292	0-¼	1° 58'	0.20	7¼	10⅝	2⅛	2	¾ x 4½	130	180	9.5
125 x 80	*141.3*	*88.9*	*34.5*	*32.44*	*0-6.4*		*16.8*	*184*	*270*	*54*		*M20 x 115*	*175*	*245*	*4.3*
5 x 4	5.563	4.500	500	12,153	0-3/32	1° 58'	0.20	7¼	10⅝	2⅛	2	¾ x 4½	130	180	11.4
125 x 100	*141.3*	*114.3*	*34.5*	*54.06*	*0-2.38*		*16.8*	*184*	*270*	*54*		*M20 x 115*	*175*	*245*	*5.2*
6½ O.D. x 3	*6.352*	*3.356*	*500*	*9,955*	*0-¼*	*1° 20'*	*0.26*	*8¼*	*10⅞*	*2*	*2*	*¾ x 4½*	*130*	*180*	*11.5*
165.1 X 88.9	161	85	34.5	44.28	0-6.4		18.2	210	275	51		M20 x 115	175	245	5.2
6½ O.D. x 4	*6.352*	*4.350*	*500*	*9,955*	*0-¼*	*1° 20'*	*0.26*	*8¼*	*10⅞*	*2*	*2*	*¾ x 4½*	*130*	*180*	*11.3*
165.1 X 114.3	161	110	34.5	44.28	0-6.4		18.2	210	275	51		M20 x 115	175	245	5.1
6 x 4	6.625	4.500	500	17,236	0-3/32	0° 49'	0.17	8¼	11⅝	2⅛	2	¾ x 4½	130	180	13.4
150 x 100	*168.3*	*114.3*	*34.5*	*76.67*	*0-2.38*		*14.1*	*210*	*295*	*54*		*M20 x 115*	*175*	*245*	*6.1*
6 x 5	6.625	5.562	500	17,236	0-3/32	0° 49'	0.17	8½	11⅝	2⅛	2	¾ x 4½	130	180	13.5
150 x 125	*168.3*	*141.3*	*34.5*	*76.67*	*0-2.38*		*14.1*	*216*	*295*	*54*		*M20 x 115*	*175*	*245*	*6.1*
8 x 6	8.625	6.625	500	29,213	0-3/32	0° 37'	0.13	10½	14	2¼	2	¾ x 4½	130	180	17.7
200 x 150	*219.1*	*168.3*	*34.5*	*129.95*	*0-2.38*		*10.9*	*267*	*356*	*57*		*M20 x 115*	*175*	*245*	*8.0*
8 x 6½ O.D.	*8.462*	*6.336*	*500*	*17,528*	*0-¼*	*0° 37'*	*0.13*	*10⅝*	*13⅛*	*2¼*	*2*	*¾ x 4½*	*130*	*180*	*17.0*
219.1 X 165.1	245	161	34.5	77.97	0-6.4		10.9	275	333	57		M20 x 115	175	245	7.7

Not for use in copper system.

Range of Pipe End Separation and Angular Deflection values are for roll grooved pipe and may be doubled for cut groove pipe.

§ – For additional Bolt Torque information see Technical Data Section.

▲ – Working Pressure Ratings are for reference only and based on Sch. 40 pipe. For the latest UL/ULC, FM, VdS and LPCB pressure ratings versus pipe schedule, please visit anvilintl.com or contact your local Anvil Representative.

Other sizes available, see Gruvlok Catalog or contact an Anvil Representative.

⚠ WARNING

For dry pipe systems and freezer applications lubrication of the gasket is required, Gruvlok® Xtreme™ Lubricant is required.