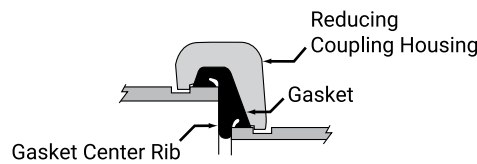


## Reducing Coupling Fig. 7010FP



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.asc-es.com](http://www.asc-es.com) or contact your local ASC Engineered Solutions™ Representative.

For Listings/Approval Details and Limitations, visit our website at [www.asc-es.com](http://www.asc-es.com) or contact an ASC Engineered Solutions™ Sales Representative.



## Material Specifications

### Housing

Ductile Iron conforming to ASTM A536, Grade 65-45-12

### ANSI Bolts & Heavy Hex Nuts

Heat treated, oval-neck track head bolts conforming to ASTM A183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A563 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 ASC Engineered Solutions Representative.

### Lubrication

Standard Gruvlok

Gruvlok Xtreme required for dry pipe systems and freezer applications

### Gasket Materials

Properties as designated in accordance with ASTM D2000.

#### 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, alkalis 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)

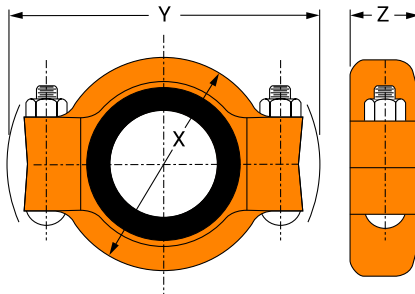
Recommended for water service, diluted acids, alkalis solutions, oil-free air and many other chemical services.

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:	

## Reducing Coupling Fig. 7010FP



Nominal Size	Larger O.D.	Smaller O.D.	Max. Working Pressure ▲	Max. End Load	Range of Pipe End Separation	Deflection From $\phi$ Per Coupling		Coupling Dimensions			Coupling Bolts		Specified Torque §		Approx. Wt. Ea.
						Degrees	In./Ft.-mm/m	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	Ft.-Lbs./N-m	Lbs./kg
2 x 1½ 50 x 40	2.375 60.3	1.900 48.3	500 34.5	2,215 9.85	0-1/32 0-0.79	0° 45'	0.16 13.1	3⅝ 92	5⅞ 149	1⅞ 48	2	½ x 2¾ M12 x 76	80 110	100 150	2.0 0.9
2½ x 2 65 x 50	2.875 73.0	2.375 60.3	500 34.5	3,246 14.44	0-1/32 0-0.79	0° 37'	0.13 10.9	4¼ 108	6⅜ 162	1⅞ 48	2	½ x 2¾ M12 x 76	80 110	100 150	3.5 1.6
3 O.D. x 2 76.1 x 60.3	2.858 72.0	2.262 57.0	500 34.5	2,115 9.41	0-1/8 0-3.20	0° 36'	0.12 9.9	4¼ 108	5⅞ 149	1⅞ 48	2	½ x 2¾ M12 x 76	80 110	100 150	3.4 1.5
3 x 2 80 x 50	3.500 88.9	2.375 60.3	500 34.5	4,811 21.40	0-1/32 0-0.79	0° 31'	0.11 8.9	4⅞ 124	7⅞ 181	1⅞ 48	2	½ x 2¾ M12 x 76	80 110	100 150	4.4 2.0
3 x 2½ 80 x 65	3.500 88.9	2.875 73.0	500 34.5	4,811 21.40	0-1/32 0-0.79	0° 31'	0.11 8.9	4⅞ 124	7⅞ 181	1⅞ 48	2	½ x 2¾ M12 x 76	80 110	100 150	4.1 1.9
3 x 3 O.D. 88.9 X 76.1	3.356 85.0	2.858 73.0	500 34.5	2,886 12.84	0-1/8 0-3.20	0° 31'	0.11 8.9	4¾ 120	6⅝ 169	1⅞ 48	2	½ x 2¾ M12 x 76	80 110	110 150	3.7 1.7
4 x 2 100 x 50	4.500 114.3	2.375 60.3	500 34.5	7,952 35.37	0-3/32 0-2.38	1° 12'	0.25 20.8	6¼ 159	8⅞ 225	2 51	2	⅝ x 3½ M16 x 95	100 135	130 175	8.9 4.0
4 x 2½ 100 x 65	4.500 114.3	2.875 73.0	500 34.5	7,952 35.37	0-3/32 0-2.38	1° 12'	0.25 20.8	6¼ 159	8⅞ 225	2 51	2	⅝ x 3½ M16 x 95	100 135	130 175	7.9 3.6
4 x 3 O.D. 114.3 X 76.1	4.350 110.0	2.858 73.0	500 34.5	4,771 21.22	0-3/16 0-4.80	1° 12'	0.25 20.8	6 152	8 203	2 51	2	⅝ x 3½ M16 x 95	100 135	130 175	6.7 3.0
4 x 3 100 x 80	4.500 114.3	3.500 88.9	500 34.5	7,952 35.37	0-3/32 0-2.38	1° 12'	0.25 20.8	6¼ 159	8⅞ 225	2 51	2	⅝ x 3½ M16 x 95	100 135	130 175	6.7 3.0

**Note:**

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 [www.asc-es.com](http://www.asc-es.com) or contact your local ASC Engineered Solutions™ Representative.

Other sizes available, see Gruvlok Catalog or contact an ASC Engineer Solutions Representative.

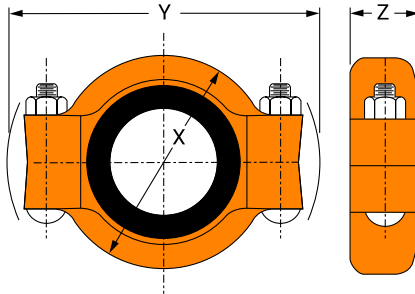
**Warning:** For dry pipe systems and freezer applications lubrication of the gasket is required, Gruvlok Xtreme Lubricant is required.



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## Reducing Coupling Fig. 7010FP



Nominal Size	Larger O.D.	Smaller O.D.	Max. Working Pressure ▲	Max. End Load	Range of Pipe End Separation	Deflection From $\zeta$		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	Ft.-Lbs./N-m	Lbs./kg
5½ O.D. x 4 139.7 X 114.3	5.350 136.0	4.350 110.0	500 34.5	7,128 31.71	0-3/16 0-4.80	1° 58'	0.20 10.8	7⅞ 181	9⅝ 245	2 51	2	¾ x 4½ M20 x 115	130 175	180 245	9.8 4.4
5 x 3 125 x 80	5.563 141.3	3.500 88.9	500 34.5	7,292 32.44	0-¼ 0-6.40	1° 58'	0.20 16.8	7¼ 184	10⅝ 270	2⅝ 54	2	¾ x 4½ M20 x 115	130 175	180 245	9.5 4.3
5 x 4 125 x 100	5.563 141.3	4.500 114.3	500 34.5	12,153 54.06	0-3/32 0-2.38	1° 58'	0.20 16.8	7¼ 184	10⅝ 270	2⅝ 54	2	¾ x 4½ M20 x 115	130 175	180 245	11.4 5.2
6½ O.D. x 3 165.1 X 88.9	6.352 161.0	3.356 85.0	500 34.5	9,955 44.28	0-¼ 0-6.40	1° 20'	0.26 18.2	8¼ 210	10⅞ 275	2 51	2	¾ x 4½ M20 x 115	130 175	180 245	11.5 5.2
6½ O.D. x 4 165.1 X 114.3	6.352 161.0	4.350 110.0	500 34.5	9,955 44.28	0-¼ 0-6.40	1° 20'	0.26 18.2	8¼ 210	10⅞ 275	2 51	2	¾ x 4½ M20 x 115	130 175	180 245	11.3 5.1
6 x 4 150 x 100	6.625 168.3	4.500 114.3	500 34.5	17,236 76.67	0-3/32 0-2.38	0° 49'	0.17 14.1	8¼ 210	11⅝ 295	2⅝ 54	2	¾ x 4½ M20 x 115	130 175	180 245	13.4 6.1
6 x 5 150 x 125	6.625 168.3	5.562 141.3	500 34.5	17,236 76.67	0-3/32 0-2.38	0° 49'	0.17 14.1	8½ 216	11⅝ 295	2⅝ 54	2	¾ x 4½ M20 x 115	130 175	180 245	13.5 6.1
8 x 6 200 x 150	8.625 219.1	6.625 168.3	500 34.5	29,213 129.95	0-3/32 0-2.38	0° 37'	0.13 10.9	10½ 267	14 356	2¼ 57	2	¾ x 4½ M20 x 115	130 175	180 245	17.7 8.0
8 x 6½ O.D. 219.1 X 165.1	8.462 245.0	6.336 161.0	500 34.5	17,528 77.97	0-¼ 0-6.40	0° 37'	0.13 10.9	10⅝ 275	13⅝ 333	2¼ 57	2	¾ x 4½ M20 x 115	130 175	180 245	17.0 7.7

**Note:**

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.

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