



The C-4 Rigid Coupling is our standard coupling and is designed for rigid piping applications. The C-4 is specially designed to provide a rigid, locked-in pipe connection to meet the specific demands of rigid design steel 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.











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

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 SAE 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.

- ☐ Pre-Lubricated Grade "E" EPDM, Type A Gasket (Violet color code)
 - -40°F to 150°F (Service Temperature Range)(-40°C to 65°C) Recommended for wet and dry (oil free air) pipe fire protection sprinkler systems. For dry pipe systems and freezer applications, Gruvlok Xtreme™ Lubricant is required.
- ☐ 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.

GASKET TYPE:

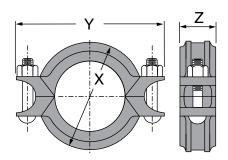
- Standard C Style
- ☐ Flush Gap

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

FIG. C-4 Rigid Coupling







C-4 RIGID COUPLING												
Nominal Size	Pipe	Max. Working Pressure▲	Max. End Load	Range of Pipe End Separation	Coupling Dimensions			Coupling Bolts		Specified Torque §		Approx.
	0.D.				X	Υ	Z	Qty.	Size	Min.	Max.	Wt. Ea.
In./DN(mm)	In./mm	PSI/bar	Lbs./kN	In./mm	In./mm	In./mm	In./mm		In./mm	FtLbs./N-m		Lbs./Kg
1	1.315	300	407	0-1/32	23/8	4	13/4	2	3/8 x 21/4	30	45	1.2
25	33.4	20.7	1.81	0-0.79	60	102	44		M10 x 57	40	60	0.5
11/4	1.660	300	649	0-1/32	23/4	45/8	11//8	2	3/8 x 2 ¹ / ₄	30	45	1.5
32	42.2	20.7	2.89	0-0.79	70	117	48		M10 x 57	40	60	0.7
1½	1.900	300	851	0-1/32	213/16	47//8	11//8	2	3/8 x 2 ¹ / ₄	30	45	1.7
40	48.3	20.7	3.78	0-0.79	71	124	48		M10 x 57	40	60	0.8
2	2.375	300	1,329	0-1/32	31/2	5%	2	2	3/8 x 2 ¹ / ₄	30	45	1.9
50	60.3	20.7	5.91	0-0.79	89	137	51		M10 x 57	40	60	0.9
21/2	2.875	300	1,948	0-1/32	4	6	2	2	3/8 x 21/2	30	45	1.9
65	73.0	20.7	8.66	0-0.79	102	152	51		M10 x 63	40	60	0.9
3 O.D.	2.996	300	2,115	0-1/32	41/8	61/8	17/8	2	3/8 x 2 ¹ /2	30	45	2.2
76.1	76.1	20.7	9.41	0-0.79	105	156	48		M10 x 63	40	60	1.0
3	3.500	300	2,886	0-1/32	43/4	65%	2	2	3/8 x 21/2	30	45	2.4
80	88.9	20.7	12.84	0-0.79	121	168	51		M10 x 63	40	60	1.1
4	4.500	300	4,771	0-3/32	51//8	73/4	21//8	2	3/8 x 21/2	30	45	3.2
100	114.3	20.7	21.22	0-2.38	149	197	54		M10 x 63	40	60	1.4
5½ O.D.	5.500	300	7,127	0-3/32	67/8	91/4	21/16	2	½ x 3	80	100	5
139.7	139.7	20.7	31.70	0-2.38	175	235	52		M12 x 76	110	150	2.2
5	5.563	300	7,292	0-3/32	615/16	91/16	21/16	2	½ x 3	80	100	4.5
125	141.3	20.7	32.44	0-2.38	176	230	52		M12 x 76	110	150	2.0
6½ O.D.	6.500	300	9,955	0-3/32	81/8	103/8	21/8	2	½ x 3	80	100	5.8
165.1	165.1	20.7	44.28	0-2.38	207	264	54		M12 x 76	110	150	2.6
6	6.625	300	10,341	0-3/32	81/4	10%	21/8	2	½ x 3¼	80	100	5.8
150	168.3	20.7	46.00	0-2.38	210	264	54		M12 x 82	110	150	2.6
8	8.625	300	17,528	0-3/32	10½	131/4	21/2	2	5⁄8 x 31∕2	100	130	10.8
200	219.1	20.7	77.97	0-2.38	267	337	64		M16 x 89	130	175	4.9
10	10.750	300	27,229	0-3/32	13	16¾	25/8	2	⅓ x 5	180	220	21.5
250	273.1	20.7	121.12	0-2.38	331	425	67		M22 x 125	245	298	9.8
12	12.750	300	38,303	0-3/32	15%	191/4	25//8	2	½ x 5½	180	220	27.4
300	323.9	20.7	170.38	0-2.38	391	489	67		M22 x 140	245	298	12.4

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

- 1. Working pressure and/or end load are total allowable, based on standard weight steel pipe, roll or cut grooved.
- 2. One time field test pressure may be increased to 1.5 times the figures listed above.
- $\$ 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, contact an Anvil Representative.



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