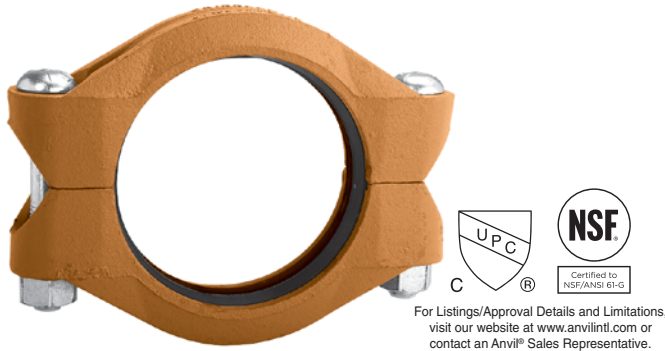


FIG. 770

Rigid Coupling



The Figure 770 Rigid Coupling provides a rigid joint by firmly gripping along the circumference of the pipe grooves. This coupling offers a dependable method for joining pipe and is an economical alternative to welding, threading, or using flanges. It is capable of pressures up to 1000 psi (68.9 bar) depending on pipe size and wall thickness.

Additional Features:

- Full 360° gripping of the groove circumference provides a strong rigid connection.
- Tongue-and-groove design simplifies installation.

MATERIAL SPECIFICATIONS

BOLTS/NUTS:

Track Head Bolts - conforming to ASTM A-183, Zinc Plated, (Min. Tensile = 110,000 psi/758,422 kPa) Metric - conforming to ASTM F568M

HOUSING:

Ductile iron conforming to ASTM A-536, Grade 65-45-12

PROTECTIVE COATINGS:

- ☐ Non-lead orange paint
- ☐ RAL red (optional) non-lead paint
- ☐ Hot dipped galvanized conforming to ASTM A-153

GASKETS: Materials

Properties as designated in accordance with ASTM D 2000

- ☐ **Grade "E" EPDM** (Green color code)
-30°F to 230°F (Service Temperature Range)(-34°C to 110°C)
Recommended for water service, diluted acids, alkalis solutions, oil-free air and many other chemical services.
NOT FOR USE IN PETROLEUM APPLICATIONS.

- ☐ **Tri-Seal Grade "E" EPDM** (Green color code)
-30°F to 230°F (Service Temperature Range)(-34°C to 110°C)
Recommended for use in low temperature and vacuum systems.
- ☐ **Grade "T" Nitrile** (Orange color code)
-20°F to 180°F (Service Temperature Range)(-29°C to 82°C)
Recommended for petroleum applications. air with oil vapors and vegetable and mineral oils.
NOT FOR USE IN HOT WATER OR HOT AIR
- ☐ **Grade "O" Fluoro-Elastomer** (Blue color code)
20°F to 300°F (Service Temperature Range)(-7°C to 149°C)
Recommended for high temperature resistance to oxidizing acids, petroleum oils, hydraulic fluids, halogenated hydrocarbons and lubricants.
- ☐ **Grade "L" Silicone** (Red color code)
-30°F to 350°F (Service Temperature Range)(-34°C to 177°C)
Recommended for dry, hot air and some high temperature chemical services. Contact an Anvil Representative for availability.

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

FIG. 770

Rigid Coupling

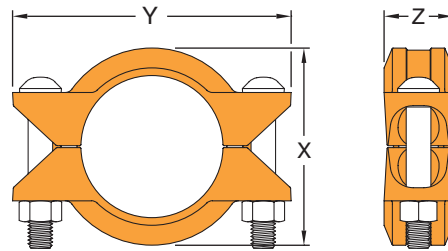


FIGURE 770 RIGID COUPLING

Nominal Size	O.D.	Max. Working Pressure [†]	Max. End Load [†]	Max. End Gap [‡]	Coupling Dimensions			Coupling Bolts		Approx. Wt. Ea.
					X	Y	Z	Qty.	Size	
In./DN(mm)	In./mm	PSI/bar	Lbs./kN	In./mm	In./mm	In./mm	In./mm		In./mm	Lbs./kg
2	2.375	1000	4,430	0.14	3.53	5.72	1.88	2	5/8 x 2 3/4	3.4
50	60.3	68.9	19.71	3.6	89.7	145.3	47.8		M16 x 70	1.5
2 1/2	2.875	1000	6,492	0.14	4.06	6.00	1.88	2	5/8 x 3 1/2	4.0
65	73.0	68.9	28.88	3.6	103.1	152.4	47.8		M16 x 89	1.8
3	3.500	1000	9,621	0.14	4.78	6.76	1.88	2	5/8 x 3 1/2	5.3
80	88.9	68.9	42.79	3.6	121.4	171.7	47.8		M16 x 89	2.4
4	4.500	1000	15,904	0.25	6.01	8.50	2.10	2	3/4 x 4 1/4	7.3
100	114.3	68.9	70.74	6.4	152.7	215.9	53.3		M20 x 108	3.3
6	6.625	1000	34,472	0.25	8.51	11.25	2.10	2	7/8 x 5 1/2	15.0
150	168.3	68.9	153.33	6.4	216.2	285.8	53.3		M22 x 140	6.8
8	8.625	800	46,741	0.25	10.93	13.75	2.60	2	1 x 5 1/2	25.0
200	219.1	55.2	207.90	6.4	277.6	349.3	66.0		M24 x 140	11.3
10	10.750	800	72,610	0.25	13.46	16.00	2.60	2	1 x 6 1/2	34.0
250	273.0	55.2	322.97	6.4	341.9	406.4	66.0		M24 x 165	15.4
12	12.750	800	102,141	0.25	15.52	18.00	2.60	2	1 x 6 1/2	40.0
300	323.9	55.2	454.32	6.4	394.2	457.2	66.0		M24 x 165	18.1

NOTES:

* Maximum available gap between pipe ends. Minimum gap = 0.

† Maximum Pressure and End Load are total from all loads based on standard weight steel pipe. Pressure ratings and end loads may differ for other pipe materials and/or wall thicknesses. Contact an Anvil Sales Representative for details.

‡ Max End Gap and Deflection is for cut grooved standard weight pipe. Values for roll grooved pipe will be half that of cut grooved.

For information on larger sizes, contact an Anvil Sales Representative.