



Grinnell

by Tyco Fire Suppression & Building Products

Figure 770 High Pressure Rigid Coupling

Ideal For:

- OEM
- Industrial
- Mining

Available in Sizes 2 to 12 Inches (DN50 to DN300)

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.

Additional Features

- Full 360° gripping of the groove circumference provides a strong rigid connection
- Tongue-and-groove design simplifies installation
- Backed by the industry's best 10-Year Limited Warranty



TECHNICAL DATA

Sizes

2 to 12 inches (DN50 to DN300)

Maximum Pressure

See table on back.

Housing

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

Finishes

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

Track Head Bolts

- ANSI – conforming to ASTM A 183, zinc plated; Minimum Tensile Strength 110,000 psi (760 MPa)
- Metric – conforming to ASTM F 568M

Gasket Materials

- Grade "E" EPDM, Green color code
-30°F to 230°F (-34°C to 110°C)
- Tri-seal Grade "E" EPDM, Green color code
-30°F to 230°F (-34°C to 110°C)
- Grade "T" Nitrile, Orange color code
-20°F to 180°F (-29°C to 82°C)
- Grade "O" Fluoroelastomer, Blue color code
+20°F to 300° (-7°C to 149°C)
- Grade "L" Silicone, Red gasket
-30°F to 350°F (-34°C to 177°C)



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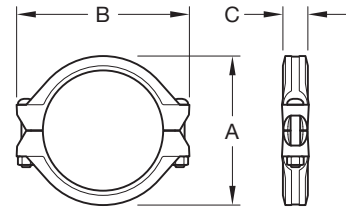


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Figure 770

High Pressure Rigid Coupling



NOMINAL DIMENSIONS

Pipe Size		Max.† Pressures psi (bar)	Max.† End Load Lbs. (kN)	Max.*‡ End Gap Inches (mm)	A Inches (mm)	B Inches (mm)	C Inches (mm)	Coupling Bolts		Approx. Weight Lbs. (kg)
ANSI Inches DN	O.D. Inches (mm)							Qty.	Size** Inches (mm)	
2 DN50	2.375 (60,3)	1000 (69,0)	4,430.1 (19,71)	0.14 (3,6)	3.53 (89,7)	5.72 (145,3)	1.88 (47,8)	2	5/8 x 2-3/4 M16 x 70	4.3 (2,0)
2½ DN65	2.875 (73,0)	1000 (69,0)	6,491.8 (28,88)	0.14 (3,6)	4.06 (103,1)	6.00 (152,4)	1.88 (47,8)	2	5/8 x 3-1/2 M16 x 89	5.0 (2,3)
3 DN80	3.500 (88,9)	1000 (69,0)	9,621.1 (42,79)	0.14 (3,6)	4.78 (121,4)	6.76 (171,7)	1.88 (47,8)	2	5/8 x 3-1/2 M16 x 89	5.3 (2,4)
4 DN100	4.500 (114,3)	1000 (69,0)	15,904.3 (70,74)	0.25 (6,4)	6.01 (152,7)	8.50 (215,9)	2.10 (53,3)	2	3/4 x 4-1/4 M20 x 108	7.7 (3,5)
6 DN150	6.625 (168,3)	1000 (69,0)	34,471.6 (153,33)	0.25 (6,4)	8.51 (216,2)	11.25 (285,8)	2.10 (53,3)	2	7/8 x 5-1/2 M22 x 140	16.2 (7,3)
8 DN200	8.625 (219,1)	800 (55,2)	46,741.0 (207,90)	0.25 (6,4)	10.93 (277,6)	13.75 (349,3)	2.60 (66,0)	2	1 x 5-1/2 M24 x 140	24.0 (10,9)
10 DN250	10.750 (273,0)	800 (55,1)	72,610.1 (322,97)	0.25 (6,4)	13.46 (341,9)	16.00 (406,4)	2.60 (66,0)	2	1 x 6-1/2 M24 x 165	32.0 (14,5)
12 DN300	12.750 (323,9)	800 (55,1)	102,141.0 (454,32)	0.25 (6,4)	15.52 (394,2)	18.00 (457,2)	2.60 (66,0)	2	1 x 6-1/2 M24 x 165	40.0 (18,1)

* 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 thickness. Contact GRINNELL Mechanical Products for details.

** Gold color coded metric bolt sizes for DN50 - DN300 couplings are available upon request.

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

Refer to **Technical Data Sheet G138** on the Figure 770 Coupling for information on technical data, ordering procedures, installation and assembly instructions, and our limited warranty.



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