



Grinnell

by Tyco Fire Suppression & Building Products

Figure 772

Rigid Coupling

Ideal For:

- OEM
- Industrial
- Mining

Available in Sizes 1-1/4 to 24 Inches (DN32 to DN600)

The Figure 772 Rigid Coupling provides a rigid joint by firmly gripping along the circumference of the pipe grooves. This coupling offers a dependable method of joining pipe and is an economical alternative to welding, threading, or using flanges. The Figure 772 Rigid Coupling is UL Listed for grounding and bonding, and is suitable for bonding systems with a maximum service entrance capacity of 200 amps.

Additional Features

- Two-piece tongue-and-groove design allows for fast and easy installation
- Standard industry groove does not require special tools
- Backed by the industry's best 10-Year Limited Warranty



TECHNICAL DATA

Sizes

1-1/4 to 24 inches (DN32 to DN600)

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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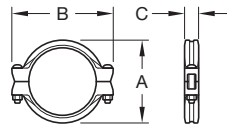


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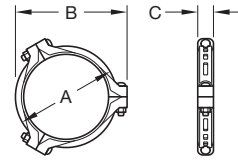
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Figure 772

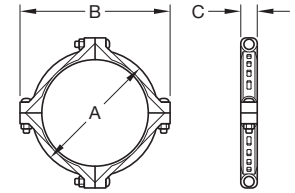
Rigid Coupling



Size 1-1/4" (DN40) - 14" (DN350)



Size 16" (DN400) - 18" (DN450)



Size 20" (DN500) - 24" (DN600)

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)	
1-1/4 DN32	1.660 (42,4)	750 (51,7)	1,623.2 (7,22)	0.06 (1,5)	2.75 (69,9)	4.38 (111,3)	1.81 (46,0)	2	3/8 x 2-1/4 M10 x 57	1.0 (0,5)
1-1/2 DN40	1.900 (48,3)	750 (51,7)	2,126.5 (9,46)	0.08 (2,0)	3.00 (76,2)	4.62 (117,3)	1.81 (46,0)	2	3/8 x 2-1/4 M10 x 57	1.0 (0,5)
2 DN50	2.375 (60,3)	750 (51,7)	3,322.6 (14,78)	0.13 (3,3)	3.41 (86,6)	5.12 (130,0)	1.88 (47,8)	2	3/8 x 2-1/4 M10 x 57	1.5 (0,7)
2-1/2 DN65	2.875 (73,0)	750 (51,7)	4,868.9 (21,66)	0.13 (3,3)	3.91 (99,3)	5.63 (143,0)	1.88 (47,8)	2	3/8 x 2-1/4 M10 x 57	2.5 (1,1)
- DN65	3.000 (76,1)	750 (51,7)	5,301.4 (23,58)	0.13 (3,3)	4.19 (106,4)	5.72 (145,3)	2.00 (50,8)	2	- M10 x 57	2.6 (1,2)
3 DN80	3.500 (88,9)	750 (51,7)	7,215.8 (32,10)	0.13 (3,3)	4.63 (117,6)	6.25 (158,8)	1.88 (47,8)	2	3/8 x 2-1/4 M10 x 57	2.6 (1,2)
4 DN100	4.500 (114,3)	750 (51,7)	11,928.2 (53,06)	0.19 (4,8)	5.81 (147,6)	7.50 (190,5)	1.97 (50,0)	2	3/8 x 2-1/4 M10 x 57	3.5 (1,6)
- DN125	5.500 (139,7)	750 (51,7)	17,818.7 (79,26)	0.19 (4,8)	7.02 (178,3)	9.72 (246,9)	2.06 (52,3)	2	- M16 x 83	7.5 (3,4)
5 DN125	5.563 (141,3)	750 (51,7)	18,229.3 (81,09)	0.19 (4,8)	7.09 (180,1)	9.71 (246,6)	2.04 (51,8)	2	5/8 x 3-1/4 M16 x 83	7.5 (3,4)
- DN150	6.500 (165,1)	700 (48,2)	23,228.2 (103,18)	0.19 (4,8)	8.09 (205,5)	10.53 (267,5)	2.13 (54,1)	2	- M16 x 83	7.6 (3,4)
6 DN150	6.625 (168,3)	700 (48,2)	24,130.1 (107,34)	0.19 (4,8)	8.09 (205,5)	10.53 (267,5)	2.13 (54,1)	2	5/8 x 3-1/4 M16 x 83	7.6 (3,4)
8 DN200	8.625 (219,1)	600 (41,4)	35,055.8 (155,94)	0.19 (4,8)	10.56 (268,2)	13.56 (344,4)	2.62 (66,5)	2	3/4 x 4-3/4 M20 x 121	18.0 (8,2)
10 DN250	10.750 (273,0)	500 (34,5)	45,381.3 (201,87)	0.13 (3,3)	12.84 (326,1)	16.41 (416,8)	2.62 (66,5)	2	1 x 6-1/2 M24 x 165	24.6 (11,2)
12 DN300	12.750 (323,9)	400 (27,6)	51,070.5 (227,17)	0.13 (3,3)	15.41 (391,4)	18.84 (478,5)	2.62 (66,5)	2	1 x 6-1/2 M24 x 165	42.0 (19,1)
14 DN350	14.000 (355,6)	300 (20,7)	46,181.4 (205,43)	0.13 (3,3)	16.68 (423,7)	20.38 (517,6)	2.93 (74,4)	2	1 x 5-1/2*	48.0 (21,7)
16 DN400	16.000 (406,4)	300 (20,7)	60,318.6 (268,31)	0.13 (3,3)	18.50 (469,9)	22.64 (575,1)	2.93 (74,4)	3	1 x 5-1/2*	52.1 (23,6)
18 DN450	18.000 (457,2)	300 (20,7)	76,340.7 (339,58)	0.25 (6,4)	21.31 (541,3)	25.12 (638,0)	3.06 (77,7)	3	1 x 5-1/2*	68.0 (30,8)
20 DN500	20.000 (508,0)	300 (20,7)	94,247.8 (419,23)	0.25 (6,4)	23.50 (596,9)	27.88 (708,2)	3.06 (77,7)	4	1-1/8 x 5-3/4*	89.0 (40,4)
24 DN600	24.000 (609,6)	250 (17,2)	113,097.3 (503,08)	0.25 (6,4)	27.63 (701,8)	32.00 (812,8)	3.19 (81,0)	4	1-1/8 x 5-3/4*	96.0 (43,5)

* 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 DN32 - DN300 couplings are available upon request.

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

• Only available in ANSI bolt sizes.

Refer to **Technical Data Sheet G140** on the Figure 772 Coupling for information on technical data, ordering procedures, installation and assembly instructions, and our limited warranty.



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