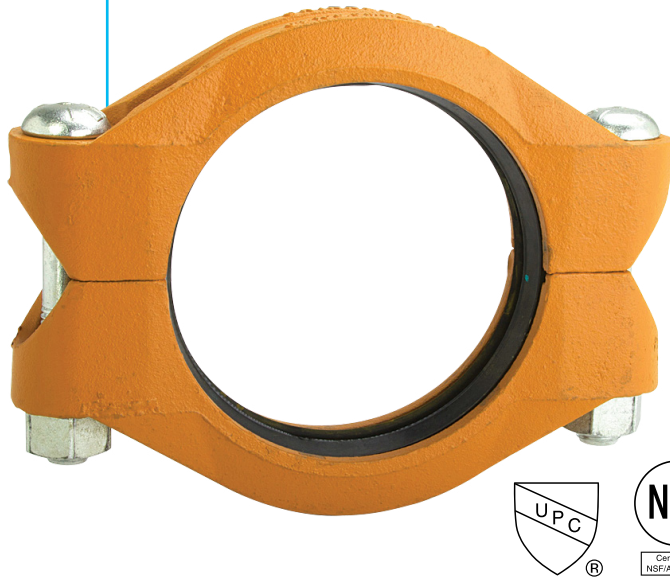


**Rigid Coupling
Fig. 770**



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.

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

Material Specifications

Bolts

SAE J429, Grade 5, Zinc Electroplated (standard)

Heavy Hex Nuts

SAE A563, Grade A, Zinc Electroplated (standard)

Hardware Kits

304 Stainless Steel (available in sizes up to ¾")

Kit includes:

- (2) Bolts per ASTM A193, Grade B8
- (2) Heavy Hex Nuts per ASTM A194, Grade 8

Material Specifications (continued)

Housing

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

Coatings

- Rust inhibiting paint
- Color: Orange (standard)
- Hot Dipped Zinc Galvanized (optional)
- Other Colors Available (IE: RAL3000 and RAL9000)

For other Coating requirements contact an ASC Representative

Gaskets

Properties as designated in accordance with ASTM D2000

Grade "EP" EPDM (Green and Red color code)
Not available with 3"

-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.
NSF-61 Certified.

Grade "T" Nitrile (Orange color code)
NOT FOR USE IN DRINKING WATER

-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

Gasket Type

Standard C Style (2" - 8")

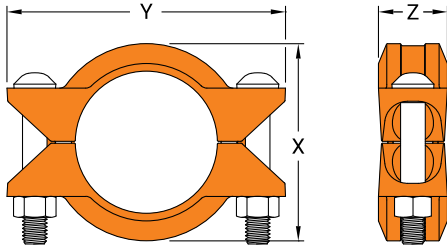
Lubrication

- Standard
- Gruvlok Xtreme



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

Rigid Coupling Fig. 770



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

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 ASC Engineered Solutions™ 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.



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