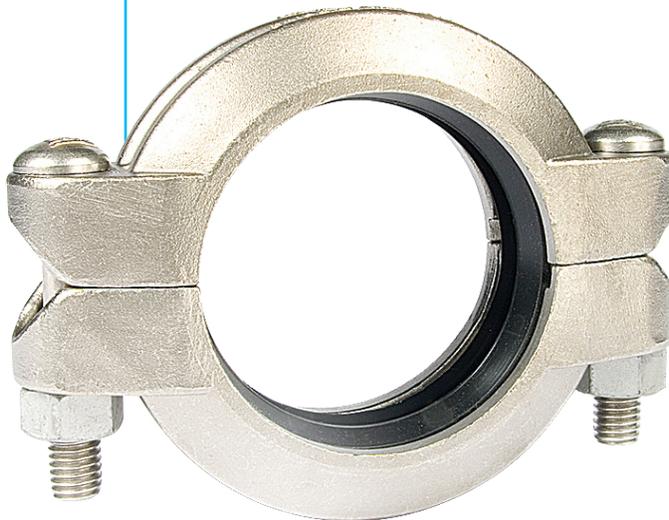


## Stainless Steel Rigid Coupling Fig. 472



The Figure 472 Rigid Coupling is a Stainless Steel coupling made of ASTM A743/A743M cast stainless steel which is the cast equivalent to 316 Stainless Steel. It is designed for installation on grooved Stainless Steel Schedules 10 and 40 pipe and grooved fittings. The stainless steel material is suitable for a variety of aggressive corrosive environments. The Figure 472 provides a rigid joint connection by firmly gripping along the circumference of the pipe grooves. It is capable of pressures up to 750 psi (41.4 bar) depending on pipe size and wall thickness.

### Material Specifications

#### Stainless Steel Bolts

Stainless steel bolts are metric track head bolts conforming to ASTM A 193M Class 2, Type 316 Grade B8M. Bolts are coated with an anti-galling agent.

#### Stainless Steel Nuts

Class 2 stainless steel nuts are heavy hex nuts conforming to ASTM A 194M, Type 316, Grade 8M.

### Material Specifications (continued)

#### Gasket Materials

Properties as designated in accordance with ASTM D2000

##### 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, alkalies solutions, oil-free air and many other chemical services.

NOT FOR USE IN PETROLEUM APPLICATIONS.

##### 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.

#### Gasket Type

Standard C Style (1¼ - 12")

Flush Gap (1¼ - 12")

#### Lubrication

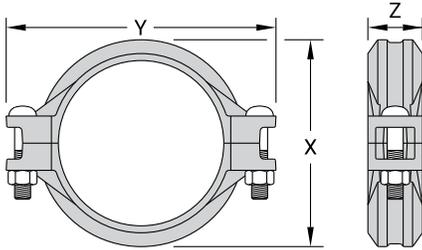
Standard Gruvlok

Gruvlok Xtreme (Do Not use with Grade "L")



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

## Stainless Steel Rigid Coupling Fig. 472



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	
1¼ 32	1.660 42.4	750 51.7	1.623 7.22	0.06 1.5	2.75 69.9	4.38 111.3	1.81 46.0	2 ¾ x 2¼ M10 x 57	1.0 0.5	
1½ 40	1.900 48.3	750 51.7	2.127 9.46	0.08 2.0	3.00 76.2	4.62 117.3	1.81 46.0	2 ¾ x 2¼ M10 x 57	1.0 0.5	
2 50	2.375 60.3	750 51.7	3.323 14.78	0.13 3.3	3.41 86.6	5.12 130.0	1.88 47.8	2 ¾ x 2¼ M10 x 57	1.5 0.7	
2½ 65	2.875 73.0	600 41.4	3.895 17.3	0.13 3.3	3.91 99.3	5.63 143.0	1.88 47.8	2 ¾ x 2¼ M10 x 57	2.5 1.1	
76.1mm 65	3.000 76.1	600 41.4	4.241 18.9	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 80	3.500 88.9	600 41.4	5.772 25.7	0.13 3.3	4.63 117.6	6.25 158.8	1.88 47.8	2 ½ x 3 M12 x 76	2.6 1.2	
4 100	4.500 114.3	600 41.4	9.542 42.4	0.19 4.8	5.81 147.6	7.50 190.5	1.97 50.0	2 ½ x 3 M12 x 76	3.5 1.6	
139.7mm 125	5.500 139.7	600 41.4	14.254 63.4	0.19 4.8	7.02 178.3	9.72 246.9	2.06 52.3	2 — M16 x 83	7.5 3.4	
5 125	5.563 141.3	600 41.4	14.583 64.9	0.19 4.8	7.09 180.1	9.71 246.6	2.04 51.8	2 ¾ x 3¼ M16 x 83	7.5 3.4	
6 150	6.625 168.3	600 41.4	20.682 92.0	0.19 4.8	8.09 205.5	10.53 267.5	2.13 54.1	2 ¾ x 3¼ M16 x 83	7.6 3.4	
8 200	8.625 219.1	600 41.4	35.054 156	0.19 4.8	10.56 268.2	13.56 344.4	2.62 66.5	2 ¾ x 4¾ M20 x 121	18.0 8.2	
10 250	10.750 273.0	600 41.4	54.455 242	0.13 3.3	12.84 326.1	16.41 416.8	2.62 66.5	2 1 x 6½ M24 x 165	24.6 11.2	
12 300	12.750 323.9	600 41.4	76.603 340	0.13 3.3	15.41 391.4	18.84 478.5	2.62 66.5	2 1 x 6½ M24 x 165	42.0 19.1	

### Notes:

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

† Maximum Pressure and End Load are total from all loads based on schedule 40 stainless steel pipe. Pressure ratings and end loads may differ for other pipe materials and/or wall thicknesses. Contact an ASC Engineering Solutions™ Sales Representative for details.

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



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