

Rigidlok® Coupling



The Fig. 7401 Rigidlok Coupling is an ideal connector for service and applications that require a rigid connection.

The Fig. 7401 Rigidlok coupling utilizes a technologically advanced housing design that conforms to and grips the pipe.

Coupling installation is fast and easy, remove only one nut and swing the housing over the gasket and into the grooves. The exclusive Guidelok feature automatically separates the grooved pipe ends and guides the coupling into position as the bolts are tightened. Precisely sized and oriented tines in the housing key section firmly grip the pipe. The combination of these designed in features produce a secure, rigid pipe joint connection.

The Fig. 7401 Rigidlok Coupling is designed for use with roll grooved or cut grooved standard weight and roll grooved lightweight pipe, as well as with grooved-end fittings and valves. The Rigidlok Coupling provides a rigid pipe connection allowing pipe hanging practices per ASME B31 pipe codes.

The Fig. 7401 Rigidlok Coupling allows for a maximum working pressure of 750 psi (51.7 bar) when used on standard wall roll or cut grooved pipe.

## **Material Specifications**

## **Bolts**

SAE J429, Grade 5, Zinc Electroplated (standard)

## **Heavy Hex Nuts**

SAE A563, Grade A, Zinc Electroplated (standard)

## <u>H</u>ardware Kits

- 304 Stainless Steel (available in sizes up to ¾") Kit includes:
  - (2) Bolts per ASTM A193, Grade B8 and
- (2) Heavy Hex Nuts per ASTM A194, Grade 8.

# **Material Specifications (continued)**

### Hardware Kits (continued)

EcoGuard (available in sizes up to ¾")

Kit includes:

- Bolts per SAE J429, Grade 5, with EcoGuard corrosion-resistant zinc flake coating and
- (2) Heavy Hex Nuts per ASTM A563, Grade A, EcoGuard corrosion-resistant zinc flake coating.

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

☐ Rust inhibiting paint Color: Orange (standard)

☐ Hot Dipped Zinc Galvanized (optional)

Properties as designated in accordance with ASTM D2000

☐ Grade "EP" EPDM (Green and Red color code) -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.

For hot water applications the use of Gruvlok Xtreme Temperature lubricant is recommended. NSF-61.

☐ **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

☐ Grade "O" Fluoro-Elastomer (Blue color code) NOT FOR USE IN DRINKING WATER

Size Range: 1" - 12" (C style only) 20°F to 300°F (Service Temperature Range)

(-29°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)

NOT FOR USE IN DRINKING WATER Size Range: 1" - 8" (C style only)

-40°F to 350°F (Service Temperature Range) (-40°C to 177°C)

Recommended for dry, hot air and some high temperature chemical services.

- Gasket Type

  ☐ C Style (1" 24")
- ☐ Flush Gap (1" 24")

## Lubrication

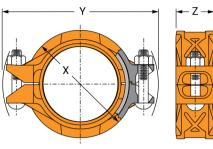
☐ Gruvlok Xtreme (Do Not use for Grade "L")

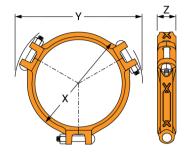


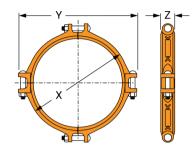
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Contractor:	lot approved		
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Notes 2:			



# Rigidlok® Coupling **Fig. 7401**







Sizes 11/2" - 14"

Size 16"

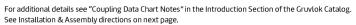
Sizes 18" - 24"

Nominal Size	Pipe O.D.	Max. Working Pressure†	Max. End Load	Range of Pipe End Separation	Coupling Dimensions			Coupling Bolts		Approx
					Χ	Υ	Z	Qty.	Size	Wt. Ea.
In./DN(mm)	In./mm	PSI/bar	Lbs./kN	In./mm	In./mm	In./mm	In./mm		In./mm	Lbs./k
11/2	1.900	750	2,126	0-1/32	3	5½	1 <sup>7</sup> /s	2	3/8 X 21/4	1.8
40	48.3	51.7	9.46	0-0.79	76	130	48		M10 x 57	0.8
2	2.375	750	3,323	0-1/32	31/2	55⁄8	1 <sup>7</sup> /8	2	3/8 X 21/2	2.4
50	60.3	51.7	14.78	0-0.79	89	143	48		M10 x 63	1.1
21/2	2.875	750	4,869	0-1/32	4	61/8	1 <sup>7</sup> /8	2	3/8 X 21/2	2.9
65	73.0	51.7	21.66	0-0.79	102	156	48		M10 x 63	1.3
3 O.D.	2.996	750	5,207	0-1/32	41/8	61/8	17/8	2	3/8 X 21/2	3.4
76.1	76.1	51.7	23.52	0-0.79	105	156	48		M10 x 63	1.5
3	3.500	750	7,216	0-1/32	43/4	71/4	17/8	2	1/₂ x 3	3.6
80	88.9	51.7	32.10	0-0.79	121	184	48		M12 x 76	1.6
4	4.500	750	11,928	0-3/32	57/8	83/8	21/8	2	1/2 X 3	5.0
100	114.3	51.7	53.06	0-2.38	149	213	54		M12 x 76	2.3
51/2 O.D.	5.500	750	17,819	0-3/32	7	93/4	21/8	2	5/8 X 3 1/2	6.9
139.7	139.7	51.7	79.26	0-2.38	178	248	54		M16 x 85	3.1
5	5.563	750	18,229	0-3/32	7	10	21/8	2	5/8 X 31/2	6.9
125	141.3	51.7	81.09	0-2.38	178	254	54		M16 x 85	3.1
6½ O.D.	6.500	750	24,887	0-3/32	8	11	21/8	2	5/8 X 31/2	7.6
165.1	165.1	51.7	110.70	0-2.38	203	279	54		M16 x 85	3.4
6	6.625	750	25,854	0-3/32	81/8	111/8	21/8	2	5/8 X 31/2	7.9
150	168.3	51.7	115.00	0-2.38	206	283	54		M16 x 85	3.6
8	8.625	600	35,056	0-3/32	101/2	141/8	25/8	2	3/4 X 41/2	15.
200	219.1	41.4	155.94	0-2.38	267	359	67		M20 x 110	7.2
10	10.750	500	45,381	0-3/32	127/8	171/2	25/8	2	1 x 6	25.
250	273.1	34.5	201.87	0-2.38	327	445	67		M24 x 150	11.
12 300	12.750 323.9	<b>400</b> 27.6	<b>51,070</b> 227.17	0-3/ <sub>32</sub> 0-2.38	<b>15</b> 381	<b>19½</b> 495	<b>25/8</b> 67	2	% x 6 M22 x 150	<b>30</b> . 13.
<b>14</b> 350	14.000 355.6	<b>300</b> 20.7	<b>46,181</b> 205.43	<b>0-3/<sub>32</sub></b> 0-2.38	<b>16⅓</b> 413	19¾ 502	<b>3</b> 76	2	7⁄8 x 51∕2 M22 x 140	<b>36</b> . 16.
16	16.000	300	60.319	0-2.30	181/8	221/4	3	3	7/8 X 51/2	42.
400	406.4	20.7	268.31	0-2.38	460	22 74 565	<b>3</b> 76	3	% X 3 ½ M22 x 140	42. 19.
18	18.000	300	76.341	0-3/32	201/2	24 <sup>3</sup> / <sub>8</sub>	31/8	4	1 x 4	51.
450	457.2	20.7	339.58	0-2.38	521	2498 619	3 7 <b>8</b> 79	4	M24 x 100	23.
20	20.000	300	94,248	0-3/32	23	26 <sup>7</sup> / <sub>8</sub>	31/8	4	1 x 4	68.
500	508.0	20.7	419.23	0-2.38	581	683	79	4	M24 x 100	31.
24	24.000	250	113.097	0-3/32	27½	30 <sup>7</sup> / <sub>8</sub>	31/8	4	1 x 4	89.
600	609.6	17.2	503.08	0-2.38	689	784	79	4	M24 x 100	40.

Range of Pipe End Seperation values are for roll grooved pipe and may be doubled for cut groove pipe.

† Maximum Working Pressure Rating is for schedule 40 steel pipe. For light wall, stainless steel, aluminum and ISO pipe pressure ratings, please refer to the technical data section.

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