ANNIL

FIG. 7001-2

Flexible Coupling

Gruvlok® introduces new 2-piece large diameter standard groove couplings in both rigid and flexible styles

- Uses standard grooves (conforming to AWWA C-606)
- No special grooves or grooving tools needed
- Pressures to 350 P.S.I. on cut or roll grooved pipe with a wall thickness of 0.250" or greater
- No special fittings needed
- No special valves needed
- Up to 23% less weight than competitive models
- Sizes: 14" through 24" in Flexible: Figure 7001-2



MATERIAL SPECIFICATIONS

BOLTS:

SAE J429, Grade 5, Zinc Electroplated

HEAVY HEX NUTS:

ASTM A563, Grade A, Zinc Electroplated

STAINLESS STEEL BOLTS & NUTS:

304SS bolts and nuts are available as a standard option. (316SS are available for special order).

HOUSING:

Ductile Iron conforming to ASTM A 536, 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 Anvil Representative.

GASKETS: Materials

Properties as designated in accordance with ASTM D 2000

☐ Grade "E" EPDM (Green color code)
-40°F to 230°F (Service Temperature Range)(-40°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

GASKET TYPE:

Flush Gap (14" - 24")

LUBRICATION:

- Standard
- Gruvlok XtremeTM

WORKING PRESSURE, END LOAD, PIPE END SEPARATION & DEFLECTION FROM CENTER LINE:

Based on standard wall steel pipe with cut or roll grooves in accordance with Gruvlok specifications. See technical data section for design factors.

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



FIG. 7001-2

Flexible Coupling

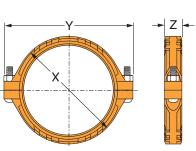


	FIGURE 7001-2 FLEXIBLE COUPLING														
	ominal	0.D.	Max. Work.	Max. End	Range of Pipe End			Coupling Dimensions			Bolt Dimensions*		Specified Torque §		Approx.
-	Size		Pressure		Separation	Per Coupling	of Pipe	Х	Υ	Z	Qty.	Size	Min.	Max.	Wt. Ea.
In.	/DN(mm)	In./mm	PSI/bar	Lbs./kN	In./mm	Degrees(')-Minutes(')	In./ft-mm/m	In./mm	In./mm	In./mm		In./mm	FtLb	s/N-m	Lbs./kg
	14	14.000	350	53,878	0-3/32	0° 23'	0.08	16½	193/4	3	2	⁷ / ₈ x 5 ¹ / ₂	180	220	36.0
	350	355.6	24.1	239.66	0-2.38		6.7	413	502	76		_	245	300	16.3
	16	16.000	350	70,372	0-3/32	0° 20'	0.07	18 ⁵ ⁄16	22	3	2	1 x 5½	250	300	45.0
	400	406.4	24.1	313.03	0-2.38		5.9	465	558	76		-	340	408	20.4
	18	18.000	350	89,064	0-3/32	0° 18'	0.06	203/4	241/4	31//8	2	1 x 5½	250	300	60.0
	450	457.2	24.1	396.18	0-2.38		5.2	527	615	79		_	340	408	27.2
	20	20.000	350	109,956	0-3/32	0° 16'	0.06	23	271/8	31//8	2	11/8 x 51/2	375	425	72.5
	500	508.0	24.1	489.11	0-2.38		4.7	582	691	79		_	510	578	32.9
	24	24.000	350	158,336	0-3/32	0° 13'	0.05	271/4	31½	33/16	2	1 1/8 x 5 1/2	375	425	90.0
L	600	609.6	24.1	704.31	0-2.38		3.9	688	791	81		-	510	578	40.8

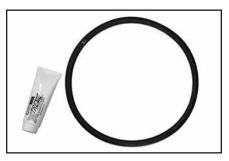
Range of Pipe End Separation and Angular Deflection values are for roll grooved pipe and may be doubled for cut groove pipe. See Installation & Assembly directions on next page.



FIG. 7001-2 & FIG. 7401-2

2-Piece Large Diameter Groove Couplings

- 7001-2 & 7401-2 bolts must be lightly coated with Gruvlok Xtreme™ lube before installation. See chart for torque requirements.
- Minimum wall pipe suitable for 14" 24": 7001-2 & 7401-2 roll grooved installation is 0.250" wall thickness
- Pipe preparation Grooved dimensions must conform to the Gruvlok Roll/Cut groove specification



CHECK & LUBRICATE GASKET— Check gasket to be sure it is compatible for the intended service. Apply a thin coat of Gruvlok lubricant to the exterior surface and sealing lips of the gasket. Be careful that foreign particles do not adhere to lubricated surfaces.



2 GASKET INSTALLATION— Slip the gasket over the pipe end, making sure the gasket lip does not overhang the pipe end.



ALIGNMENT— After aligning the two pipe ends together, pull the gasket into position, centering it between the grooves on each pipe. Gasket should not extend into the groove on either pipe.

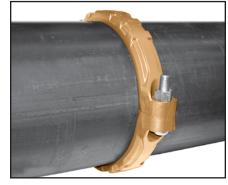


HOUSING— Place each housing half on the pipe and into each groove making sure that the gasket does not slip out of position in between the pipe ends or groove.



BOLTS— Apply a thin coat of Xtreme lube to the bolt threads. Tighten the nuts alternately and equally to the specified bolt torque.

CAUTION: Uneven tightening may cause the gasket to pinch.



FINAL ASSEMBLY— Visually inspect the pipe joint to assure the coupling keys are fully engaged in the pipe grooves, the bolt pads are in firm even metal-to-metal contact on both sides of the coupling, and gasket is not visible.

ANSI SPECIFIED BOLT TORQUE							
Pipe Sizes	Bolt Size	Specified Bolt Torque	Lubrication				
In.	In.	FtLbs	=				
14	7/8	180 - 220					
16	1	250 - 300					
18	1	250 - 300	Gruvlok Xtreme™ Lubricant				
20	1½	375 - 425	Lubricant				
24	11//8	375 - 425					

CAUTION: When using an impact wrench, verify that the torque output on the impact wrench is within the required torque range.