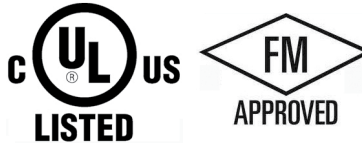


GROOVED COUPLINGS - STANDARD FLEXIBLE

Model 104



Available Sizes

- 1" through 12" (25 through 300 mm)

Pipe Material

- Carbon steel, Schedule 10, Schedule 40.
For use with alternative materials and wall thicknesses please contact ARGCO.

Maximum Working Pressure

- Up to 300 psi/2517 kPa.

Function

- Joins carbon steel pipe.
- Provides a rigid pipe joint designed to restrict axial or angular movement.

CERTIFICATIONS/LISTINGS

Underwriters Laboratories, Underwriters Laboratories Canada, Factory Mutual.

SPECIFICATIONS - MATERIAL

Housing Sections: Ductile Iron conforming to ASTM A 536, Grade 65-45-12.

Housing Coating:

Standard: Orange Enamel
Available: Hot Dipped Galvanized

Gasket:

Standard: Grade E EPDM (Type A)
ARGCO's products are listed by Underwriters Laboratories UL Canada and Approved by Factory Mutual for we and dry (oil free air) sprinkler services within the rated working pressure.

Bolts and Nuts

Standard: Carbon Steel oval neck track bolts meeting ASTM A449 and ISO 898-1. Carbon steel hex nuts meet ASTM A563 Grade B.

Nuts and Bolts are zinc electroplated per ASTM B633 NZ/FE5, finish Type III.

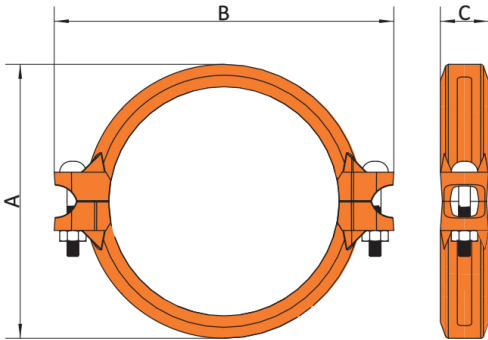
Available: Stainless Steel. Meets ASTM F593, Group 2 (316 stainless steel), condition CW.

Hex nuts meets ASTM F594, Group 2 (316 stainless steel), condition CW, with galling-resistant coating.

System No.		Location		Spec Section		Paragraph	
Submitted By		Date		Approved		Date	

GROOVED COUPLINGS - STANDARD FLEXIBLE

Model 104



ARGCO Grooved Couplings are suitable for fire protection systems, water supply systems, and other process systems of higher working pressure.

Item #	Nominal Size in/mm	Maximum Working Pressure psi/kPa	Maximum End Load lb/N	Axial Displacement in/mm	Angular Movement		Dimensions			Bolt inches mm	Torque Guidelines Lbs-Ft
					per coupling degrees	per pipe in/ft, mm/m	A inches mm	B inches mm	C inches mm		
7010015	1"	300	405	0.0625	5° - 30'	0.71	2.17	3.82	1.77	3/8" x 1-1/2"	45-50
	25	20	1.80	1.6			55	97	45		
7010016	1-1/4"	300	656	0.0625	4° - 20'	0.58	2.50	4.23	1.77	3/8" x 1-3/4"	45-50
	32	20	2.92	1.6			63.5	107.5	45		
7010017	1-1/2"	300	852	0.0625	3° - 48'	0.45	2.72	4.49	1.77	3/8" x 1-3/4"	45-50
	40	20	3.79	1.6			69	114	45		
7010018	2"	300	1327	0.0625	3° - 01'	0.4	3.29	4.88	1.81	3/8" x 2-1/8"	45-50
	50	20	5.91	1.6			33	83.6	124		
7010019	2-1/2"	300	1945	0.0625	2° - 30'	0.31	3.86	5.39	1.81	3/8" x 2-1/8"	45-50
	65	20	8.66	1.6			26	98	137		
7010020	3"	300	2885	0.0625	2° - 04'	0.21	4.49	6.14	1.81	3/8" x 2-1/8"	45-50
	80	20	12.84	1.6			18	114	156		
7010021	4"	300	4258	0.125	3° - 14'	0.34	5.43	7.32	1.97	1/2" x 2-5/8"	65-75
	100	20	18.94	3.2			28	138	186		
7010022	5"	300	6457	0.125	2° - 53'	0.27	6.46	8.39	1.97	1/2" x 2-5/8"	65-75
	125	20	28.73	3.2			23	164	213		
7010023	6"	300	9229	0.125	2° - 18'	0.23	7.56	9.61	1.97	1/2" x 2-5/8"	65-75
	150	20	41.06	3.2			19	192	244		
7010024	8"	300	17079	0.125	1° - 40'	0.18	10.00	13.39	2.44	3/4" x 3-1/2"	145-170
	200	20	75.99	3.2			15	254	340		
7010025	10"	300	26101	0.125	1° - 20'	0.14	12.32	15.75	2.52	3/4" x 3-1/2"	200-220
	250	20	116.13	3.2			12	313	400		
7010026	12"	300	37031	0.125	1° - 08'	0.12	14.49	18.27	2.52	7/8" x 4-1/3"	200-220
	300	20	164.76	3.2			10	368	464		

Note: Allowable Axial Displacement figures are for roll grooved standard steel pipe. Values for cut grooved pipe will be double that of roll grooved. These values are maximums; for design and installation purposes these figures should be reduced by: 50% for 3/4" - 3 1/2"; 25% for 4" and larger to compensate for jobsite conditions.

- Working Pressure and End Load are total, from all internal and external loads, based on standard weight (ANSI) steel pipe, standard roll or cut grooved in accordance with ARGCO specifications.
- When assembling ARGCO couplings onto end caps, take additional care to make certain the end cap is fully seated against the gasket end stop.

The NFPA 13 defines a flexible coupling as;

"a listed coupling or fitting that allows axial displacement, rotation, and at least 1 degree of angular movement of the pipe without inducing harm on the pipe. For pipe diameters of 8 in. and larger, the angular movement shall be permitted to be less than 1 degree but not less than 0.5 degrees." (NFPA 13- 2007 3.5.4)

For sprinkler systems, NFPA 13 specifies the use of flexible couplings to protect the system against damage from earthquakes and sets some specific examples of how and where they should be used. Designers and installers should design their fire protection systems in compliance with this standard.

System No.		Location		Spec Section		Paragraph	
Submitted By		Date		Approved		Date	