PUSH-ON "READY TO INSTALL" RIGID COUPLING

Model 109



ARGCO's GROOVED PUSH-ON RIGID COUPLING is a truly rigid grooved pipe coupling which, unlike other grooved couplings, does not allow for any axial movement, angular movement and or rotational movement under normal service conditions.

ARGCO's Model 109 Coupling allows the pipe to move into the couplings directly without loosening components.

Support and hanging requirements correspond to ANSI B31.1, B31.9 and NFPA 13.

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DRY PIPE & FREEZER SERVICES

ARGCO recommends the use of GapSeal Grade E gaskets for dry pipe fire protection systems and freezer applications. The GapSeal gasket close off the gap between the pipes or gasket cavity.

This will prevent any remaining liquid from entering the cavities and freezing when the temperature drops.

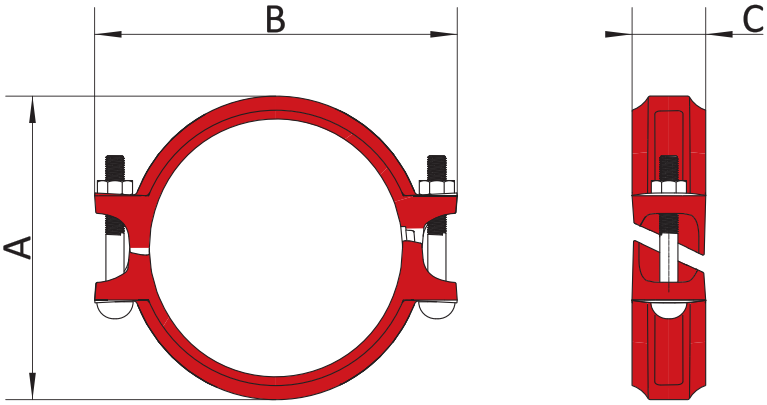
Applications:

- All piping including mechanical rooms where no angular or axial movement is desired
- Dry-System Fire Protection pipelines
- Hot Water Systems

Sizes available: 1-1/4"~8"

Working Pressure: 300 psi











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ITEM #	NOMINAL SIZE	PIPE O.D.	MAX. WORKING PRESSURE	MAX. END LOAD LBS.	AXIAL DISPLACEMENT	DIMENSIONS			BOLT SIZE
						A	B	C	
7010802	1-1/4"	1.669"	300 PSI	656	0-0.06	2.81"	4.41"	1.85"	3/8" x 2-3/8"
7010803	1-1/2"	1.9"	300 PSI	852	0-0.06	3.07"	4.61"	1.85"	3/8" x 2-3/8"
7010804	2"	2.375"	300 PSI	1327	0-0.06	3.54"	5.20"	1.89"	3/8" x 2-3/8"
7010805	2-1/2"	3"	300 PSI	2114	0-0.06	4.17"	5.91"	1.89"	3/8" x 2-3/4"
7010806	3"	3.5"	300 PSI	2885	0-1.7	4.76"	6.46"	1.93"	1/2" x 3"
7010807	4"	4.5"	300 PSI	4769	0-0.16	5.79"	7.48"	2.05"	1/2" x 3"
7010809	6"	6.5"	300 PSI	9950	0-0.16	8.27"	10.39"	2.05"	5/8" x 3-3/8"
7010810	8"	8.615"	300 PSI	17524	0-0.16	10.24"	12.6"	2.56"	5/8" x 4-3/4"

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	

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SPECIFICATIONS

ARGCO’s range of grooved-end fittings are available in a number of styles and configurations to support a variety of applications,and are designed to meet the ASTM F1548-01 and ANSI/ AWWA C606-04 requirements.

ANGLE PAD COUPLINGS

The bolt pads on angle-pad rigid couplings and butt-joint rigid couplings have been designed to meet metal to metal when properly installed. In addition as the bolts are tightened the bolt pads will slide against one another creating a slight off-set. This offset should be equal on each side and is your visual indication that the coupling has been installed properly for a rigid connection. Bolt pad gaps, regardless of their size, are not acceptable on angle-pad coupling. The listed values in the table below are guideline torque values listed by the coupling size. Please note these are only guidelines and that the actual torque value may be less than those listed to achieve a proper assembly.

BOLT TORQUES

ARGCO couplings are supplied complete with factory bolts and nuts. The bolt and nut torque is primarily a function of the bolt and nut size. The following table shows guidelines for bolt and nut torque and can be used when setting the torque on power drivers.

Design Bolt Torques:

COUPLING SIZE	LBS-FT
1-1/4”	45-50
1-1/2”	45-50
2”	45-50
2-1/2”	45-50
3”	65-75
4”	65-75
6”	145-170
8”	145-170

Do not exceed the design torque guidelines by more than 25%, as excessive torque could lead to joint failure. Always tighten nuts evenly and equally by alternating sides to prevent the gasket from being pinched and always check to make sure the coupling keys are fully engaged in the grooves.

HOUSING

The housing segments not only provide significant strength to the joint but they also compress and protect the gasket from exposure.

Ductile Iron: Standard coupling housings and fittings are made of ductile iron conforming to ASTM A536 Gr. 65-45-12. The properties of Grade 65-45-12 ductile iron are as follows; 65,000 psi tensile strength, 45,000 psi yield strength and 12% elongation.

GASKETS



STANDARD GASKET: EPDM

GRADE: E

COLOR CODE: Green Stripe

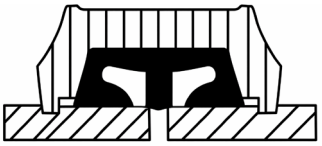
Max Temperature Range:

-29° F (3-34°C) to 230°F (110°C)

Recommended Services: Good for cold & hot water up to +230°F (+110°C). Also good for services for water with acid, water with chlorine, deionized water, seawater and waste water, dilute acids, oil-free air and many chemicals. Not recommended for petroleum oils, solvents and aromatic hydrocarbons. Other Gasket Material Available upon request.

All ARGCO EPDM gaskets are pre-lubricated, it allows the gaskets to be installed on the pipe without sparying lubricant. For other gaskets except EPDM, like silicon gasket, lubricant is recommended and to help prevent the gasket from being pinched. The lubricant is applied in a thin coat to the gasket exterior, the gasket lips and/or the housing interiors.

GAP-SEAL GASKET DESIGN



NUTS & BOLTS

ARGCO products utilize oval neck track bolts and heavy duty hex nuts, available in UNC threaded threaded. The oval neck track bolts mate into the oval holes in the housing segments to allow for easy tightening using only a single wrench/spanner. The UNC bolts and nuts are electro zinc plated in a silver chromate color.

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