

PUSH-ON STANDARD RIGID COUPLINGS

Model 109

ARGCO's 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 PUSH-ON Rigid 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.

Caution: Pipe ends must be cut square so that the pipe ends butt together.

Applications:

- All piping including mechanical rooms where no angular or axial movement is desired
- Dry-System Fire Protection pipelines
- Stainless steel piping for potable water and food industries (epoxy coated housings with NSF61 certified gasket and type 316 bolts and silicone bronze nuts)
- Hot Water Systems

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

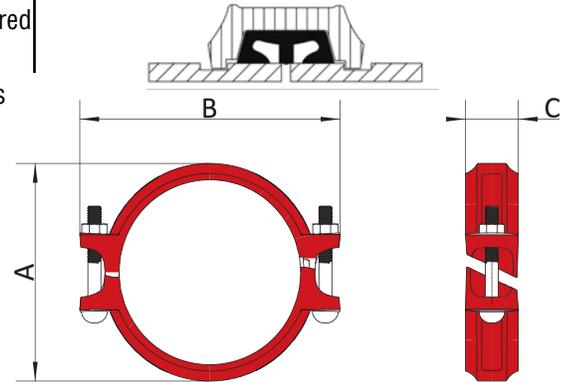
Working Pressure: 300 psi



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DRY PIPE AND 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.



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	65.6	0-0.06	2.81"	4.41"	1.85"	3/8" x 2-1/3"
7010803	1-1/2"	1.9"	300 PSI	85.2	0-0.06	3.07"	4.61"	1.85"	3/8" x 2-1/3"
7010804	2"	2.375"	300 PSI	13.27	0-0.06	3.54"	5.20"	1.89"	3/8" x 2-1/3"
7010805	2-1/2"	3"	300 PSI	21.14	0-0.06	4.17"	5.91"	1.89"	3/8" x 2-3/4"
7010806	3"	3.5"	300 PSI	28.85	0-1.7	4.76"	6.46"	1.93"	1/2" x 3"
7010807	4"	4.5"	300 PSI	4.68	0-0.16	5.79"	7.48"	2.05"	1/2" x 3"
7010809	6"	6.5"	300 PSI	99.50	0-0.16	8.09"	10.35"	2.05"	5/8" x 3-1/3"
7010810	8"	8.615"	300 PSI	175.24	0-0.16	32.60"	9.92"	2.56"	5/8" x 4-3/4"

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

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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.

Bolt Size in/ mm	N-m Lbs - ft	Bolt Size in/ mm	N-m Lbs - ft
5/16	25 - 30	3/4	270 - 300
M8	18 -22	M20	200 - 220
3/8	60 - 70	7/8	270 - 300
M10	45 - 50	M22	200 - 220
1/2	90 - 100	1	320 - 340
M12	65 - 75	M24	235 - 250
5/8	200 - 230		
M16	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.

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. Most fittings are provided in ductile iron conforming to ASTM A536 Gr. 65-45-12.

Fittings are painted orange or red, or as an option can be supplied hot-dip galvanized or epoxy coated. Pressure ratings conform to couplings and/or pipe being used.

PRE-LUBRICATED GASKETS

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.

System No.		Location	
Submitted By		Date	

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 assition 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 2 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.

Torque Guidelines for Angle-Pad Rigid Couplings

Size In	1512 N-m/Lbs-ft	GKS N-m/Lbs-ft	XGQT4 N-m/Lbs-ft
1	---	60-70	60-70
		45-50	45-50
1-1/4	60-70	60-70	60-70
	45-50	45-50	45-50
1-1/2	60-70	60-70	60-70
	45-50	45-50	45-50
2	60-70	60-70	60-70
	45-50	45-50	45-50
2-1/2	90-100	60-70	60-70
	65-75	45-50	45-50
3	90-100	60-70	90-100
	65-75	45-50	65-75
4	90-100	90-100	90-100
	65-75	65-75	65-75
5	200-230	90-100	90-100
	145-170	65-75	65-75
6	200-230	90-100	200-230
	145-170	65-75	145-170
8	270-300	200-230	200-230
	200-220	145-170	145-170



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GASKET SELECTION GUIDE

ARGCO utilizes the finest gasket materials available in our products. Over the past 50 year great advanced have been made in synthetic elastomer technologies, allowing us to offer a full range of synthetic rubber gasket materials for a wide variety of piping applications. ARGCO gaskets are engineered and designed to meet and exceed standards such as ASTM D2000, AWWA C606, NSF61 and IAPMO. Our own stringent internal laboratory testing confirms this. Our continual research, development and testing are designed to advance the elastomer field and to develop new and better solutions for our ever changing industry.

Chemical resistance is primarily determined by the grade and/or the compound of the gasket. The color coding identifies the gasket grade and or compound. Always verify that the gasket selected is correct for the intended service. Service temperature is controlled by factors including the gasket compound, fluid medium (air, water, oils, etc.), and continuity (continuous or intermittent) of service. Under no circumstances should gaskets be exposed to temperatures below their individual ratings. For additional information or specific applications contact ARGCO for recommendations.

Standard Gaskets

Compound	Grade	Color Code	Recommended Services	Maximum Temp. Range
EPDM	E	Green Stripe	Good for cold & hot water up to +230°F (+110°C). Also good for services for water with acid, water with chlorine, de-ionized water, seawater and waste water, dilute acids, oil-free air and many chemicals. Not recommended for petroleum oils, solvents and aromatic hydrocarbons.	-29°F (-34°C) to +230°F (+110°C)
Nitrile	T	Orange Stripe	Good for petroleum oils, mineral oils, vegetable oils, aromatic hydrocarbons, many acids and water ≤ +150°F (+65°C).	-20°F (-29°C) to +180°F (+82°C)
White Nitrile	A	White Gasket	Good for oily and greasy food products and processing, as well as pharmaceutical and cosmetics manufacturing. Compounded from FDA approved ingredients (CFR Title 21 Part 177.2600).	-20°F (-7°C) to +180°F (+82°C)
Silicone	L	Red Stripe	Good for dry, hot air without hydrocarbons and some high temperature chemical services. May also be used for fire protection dry systems.	-29°F (-34°C) to +350°F (+177°C)
Fluoro-elastomer (Viton)	Q	Blue Stripe	Good for many oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids and air with hydrocarbons to +300°F (+149°C).	-20°F (-7°C) to +300°F (+149°C)

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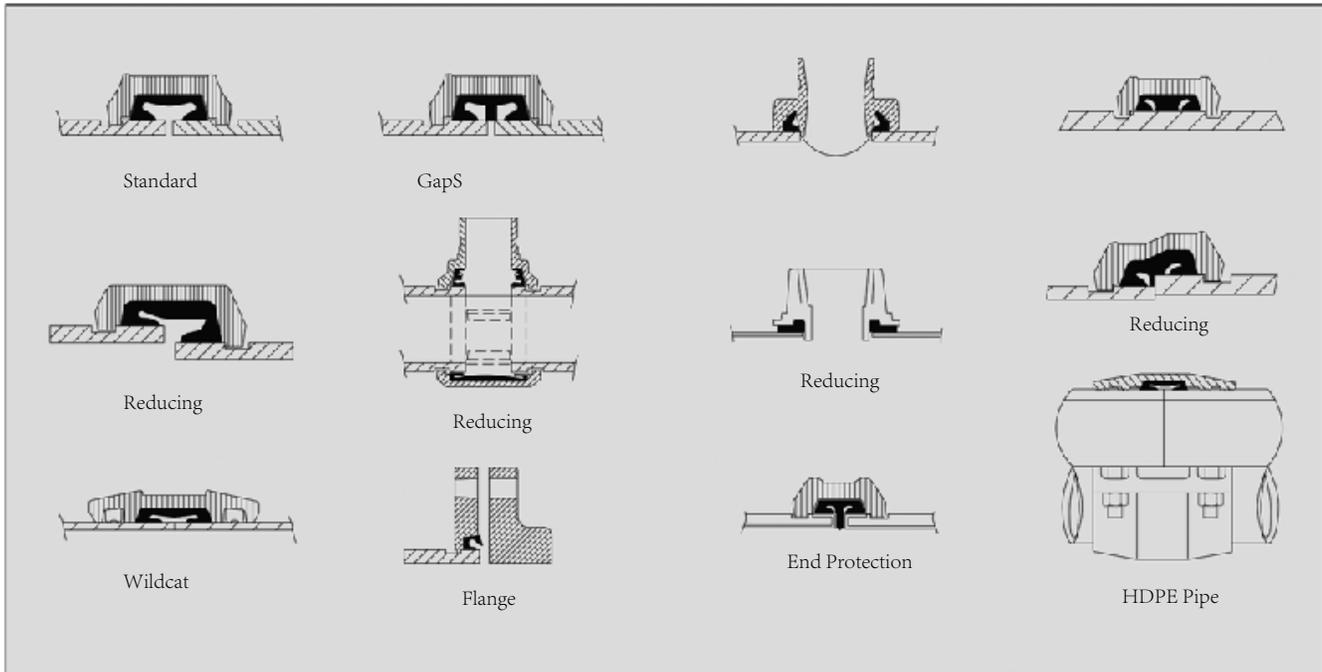


GASKET STYLES

Due to the number of ARGCO products offered and the variety of service applications, a wide variety of gaskets are available.

Even though the products and gaskets may look

different the sealing principles remain the same. The following are some of the most common gasket styles.



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