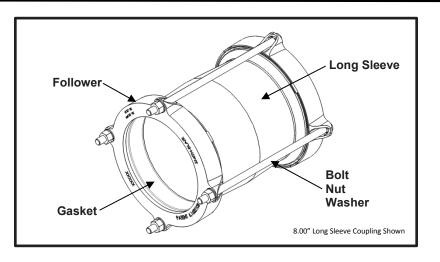


SPECIFICATION QUANTUM[®] WIDE RANGE CAST COUPLING – LONG SLEEVE MODEL 462



APPLICATIONS

- Typical Uses
 - Joining plain-end pipe of different outside diameters with same nominal size
 - Replace split or excessively damaged pipe
- Standard Pipe Sizes
 - 4" to 12" nominal
- Type of Pipe
 - Carbon Steel, Stainless Steel, Ductile Iron, Asbestos Cement, PVC, HDPE (see notes for thin wall PVC & HDPE applications)
- Working Pressure
 - 250 psi

MATERIALS

- Follower
 - Cast using Ductile Iron 65-45-12 per ASTM A536
 - Flexi-Coat[®] fusion bonded epoxy finish which meets application methods AWWA C213
 - Permanently marked with part number and pipe size range for proper selection
 - Integral bolt head pocket for one wrench installation
 - Designed to provide up to 1.65" of range with a single follower
 - Tabs cast in follower to center and concentrate sealing force uniformly over gasket
- Sleeve
 - Cast using Ductile Iron 65-45-12 per ASTM A536
 - Flexi-Coat[®] fusion bonded epoxy finish which meets application methods AWWA C213
 - Single sleeve design for each nominal pipe size reducing inventory
 - Longer body allows for increased size flexibility in pipe repairing and gap separation
- Gasket
 - Nitrile (Buna-N) per ASTM D2000
 - NSF/ANSI 61 and 372 certified
 - Compounded to resist water, oil, natural gas, acids, alkalies, most (aliphatic) hydrocarbon fluids, and many other chemicals
 - Temperature range: -20°F to +180°F
 - Leading edge of gasket has molded in ribs for maximum sealing against sleeve
 - Permanently marked with part number and pipe size range for proper selection



SPECIFICATION QUANTUM[®] WIDE RANGE CAST COUPLING – LONG SLEEVE MODEL 462

Bolts

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- HSLA Carbon Steel per AWWA C111/A21.11
- Epoxy coated threads to prevent galling
- 5/8"-11UNC x 17.00" long, Oval Neck Track Head
- Rolled threads for improved physical characteristics, greater thread accuracy, and smooth surface finish
- Nut
 - HSLA Carbon Steel per AWWA C111/A21.11
 - Fluoropolymer coated to prevent galling
 - 5/8"-11UNC, Heavy Hex Semi-Finished
- Washer
 - Carbon Steel per ASTM F844
 - Fe/Zn coated per ASTM F1941-10
 - 5/8" Type A Plain
 - Utilized to preserve corrosion resistance of epoxy coated surfaces and increase bearing surface

LISTINGS

- UL certified to NSF/ANSI 61 and 372
- Meets applicable AWWA C219 standards

OPTIONS

- Type 304 Stainless Steel hardware with fluoropolymer coated nuts to prevent galling
- Type 316 Stainless Steel hardware with fluoropolymer coated nuts to prevent galling
- Alternative gasket material (e.g. Viton, EPDM, etc.)
- Protected gasket (brass spring molded into leading edge)
- Anode connector
- Insulating boot(s)

NOTES

- This product **does not** restrain the pipe from pulling out of the fitting
- Pipe stiffeners are required when this product is used on HDPE and thin wall PVC pipe
- Flexi-Coat[®] and Quantum[®] are registered trademarks of Smith-Blair, Inc.
- These product specifications were correct at the time of publication and are subject to change without notice
- See the Smith-Blair[®] web site for part numbers and ordering information
- See the Smith-Blair[®] web site for warranty information
- See the Smith-Blair[®] web site for corrosion warnings



SPECIFICATION QUANTUM[®] WIDE RANGE CAST COUPLING – LONG SLEEVE MODEL 462

Recommended Pipe to Pipe Centerline Gaps

Sleeve Length	Optimum Gaps		Maximum Can
	Straight Run	Deflected Joints	Maximum Gap
5"	1/2"	1"	2"
7"	1/2"	1-1/2"	3"
10"	1"	2-1/4"	4-1/2"
Longer Than 10"	1"	2-3/4"	"Sleeve Length" – 6"

Pipe gap to be centered in coupling sleeve.

Total Maximum Allowable Axial Pipe Movement per Coupling

Coupling Size	Allowable Movement		
3/4" to 2"	1/8"		
2-1/2" to 10"	1/4"		
10-3/4" and Larger	3/8"		

Pipe End Tolerances

Pipe OD	Minus Tolerance	Plus Tolerance	
1/2" up to 16"	-0.06	+0.06	
>16" up to 24"	-0.08	+0.08	
>24" up to 42"	-0.10	+0.10	
>42"	-0.06	+0.12	

Maximum Angular Deflection per Coupling

Nominal Pipe Size	Center Sleeve Length		
	5"	7"	10" and Larger
1/2" up to 2"	7°	7°	7°
>2" up to 12"	4°	4-1/2°	4-1/2°
>12" up to 24"	2-1/2°	4°	4-1/2°
>24" up to 36"	-	3-1/2°	4°
>36" up to 42"	-	3°	3-1/2°
>42" up to 60"	-	2-1/2°	3°
>60" up to 80"	-	-	2-1/2°
>80" up to 100"	-	-	2°
>100"	-	-	-

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