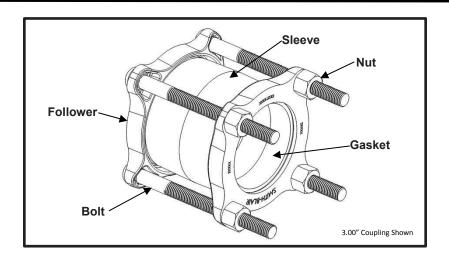


SPECIFICATION 800-225-4616 OMNITM CAST COUPLING – STD SLEEVE MODEL 441



APPLICATIONS

- Typical Uses
 - Joining plain-end pipe of same outside diameters
 - Joining plain-end pipe of different outside diameters with same nominal size
 - Replace split or excessively damaged pipe

Standard Pipe Sizes

2" to 16" nominal

Type of Pipe

• Carbon Steel, Stainless Steel, Ductile Iron, Asbestos Cement, PVC, HDPE (with stiffeners)

Working Pressure

250 psi

MATERIALS

- Follower
 - Cast using Ductile Iron 65-45-12 per ASTM A536
 - Flexi-Coat[®] fusion bonded epoxy finish
 - Flanges color coded for rapid and correct installation: Red for Iron pipe size, Blue for Ductile Iron pipe size, and Gray for Asbestos Cement
 - Permanently marked with part number and pipe size range for proper selection
 - Integral bolt head pocket for one wrench installation

Sleeve

- Cast using Ductile Iron 65-45-12 per ASTM A536
- Flexi-Coat[®] fusion bonded epoxy finish
- Single sleeve design for each nominal pipe size reducing inventory
- Designed to provide up to 2.40" of range with a single assembly

Gasket

- Nitrile (Buna-N) per ASTM D2000
- Compounded to resist water, oil, natural gas, acids, alkalies, most (aliphatic) hydrocarbon fluids, and many other chemicals
- Temperature range: -20°F to +180°F
- For Ductile Iron and Asbestos Cement pipe, the gaskets sealing surface has molded in ribs for maximum sealing on textured pipe
- Permanently marked with part number and pipe size range for proper selection



SPECIFICATION OMNI™ CAST COUPLING – STD SLEEVE MODEL 441

Bolts

- High Strength Low Alloy (HSLA) Steel per AWWA C111/A21.11
- 5/8"-11UNC, Track Head Oval Neck
- Rolled threads for improved physical characteristics, greater thread accuracy, and smooth surface finish

Nut

- HSLA Steel per AWWA C111/A21.11
- 5/8"-11UNC, Heavy Hex Semi-Finished

LISTINGS

- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Meets applicable portions of AWWA C219
- Flexi-Coat[®] Fusion-Bonded Epoxy Coating meets requirements of AWWA C213

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

NOTES

- Pipe stiffeners are required when this product is used on HDPE
- Flexi-Coat[®] is a registered trademark of Smith-Blair, Inc.
- OmniTM is a trademark 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 website for part numbers and ordering information
- See the Smith-Blair website for warranty information
- See the Smith-Blair website for corrosion notice



THIS PRODUCT DOES NOT RESTRAIN PIPE MOVEMENT. Proper anchoring is required to prevent pipe pullout. Failure to anchor or improper anchoring can result in dangerous pipe content escape, property damage, serious injury, or death. Read the product installation instructions prior to installing



this product.



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SPECIFICATION OMNI™ CAST COUPLING – STD SLEEVE MODEL 441

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

| Nominal Pipe Size | Minus Tolerance | Plus Tolerance |
|-------------------|-----------------|----------------|
| 1/2" up to 16" | -0.06 | +0.06 |

Maximum Angular Deflection per Coupling 4° (Pipe-to-Pipe) 2° (Pipe-to-Sleeve)



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