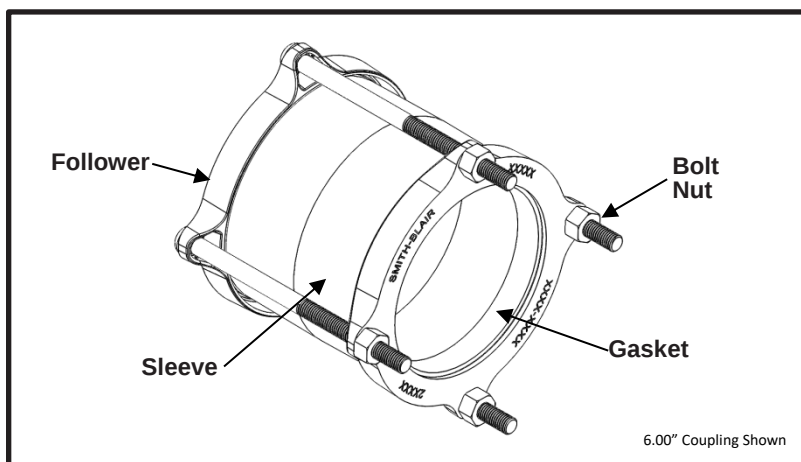


SPECIFICATION

OMNI™ CAST COUPLING – LONG SLEEVE

MODEL 442



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**
 - 4" 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 or 80-55-06 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



Smith-Blair
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▪ 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
- Xylem, Smith-Blair, SB stylized, Flexi-Coat, Top Bolt and Maxi-Grip are registered trademarks and Flange-Lock is a trademark of Xylem, Inc., or one of its subsidiaries.
- Omni™ is a trademark of Smith-Blair.
- 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 pull out. Failure to anchor or improper anchoring can result in dangerous pipe content escape, property damage, serious injury, and/or death. Read the product installation instructions prior to installing this product.



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MODEL 442

Recommended Pipe to Pipe Centerline Gaps

Sleeve Length	Optimum Gaps		Maximum Gap
	Straight Run	Deflected Joints	
7"	1"	1-1/2"	3"
12"	1"	2-3/4"	6"

Pipe gap to be centered in coupling sleeve.

Total Maximum Allowable Axial Pipe Movement per Coupling

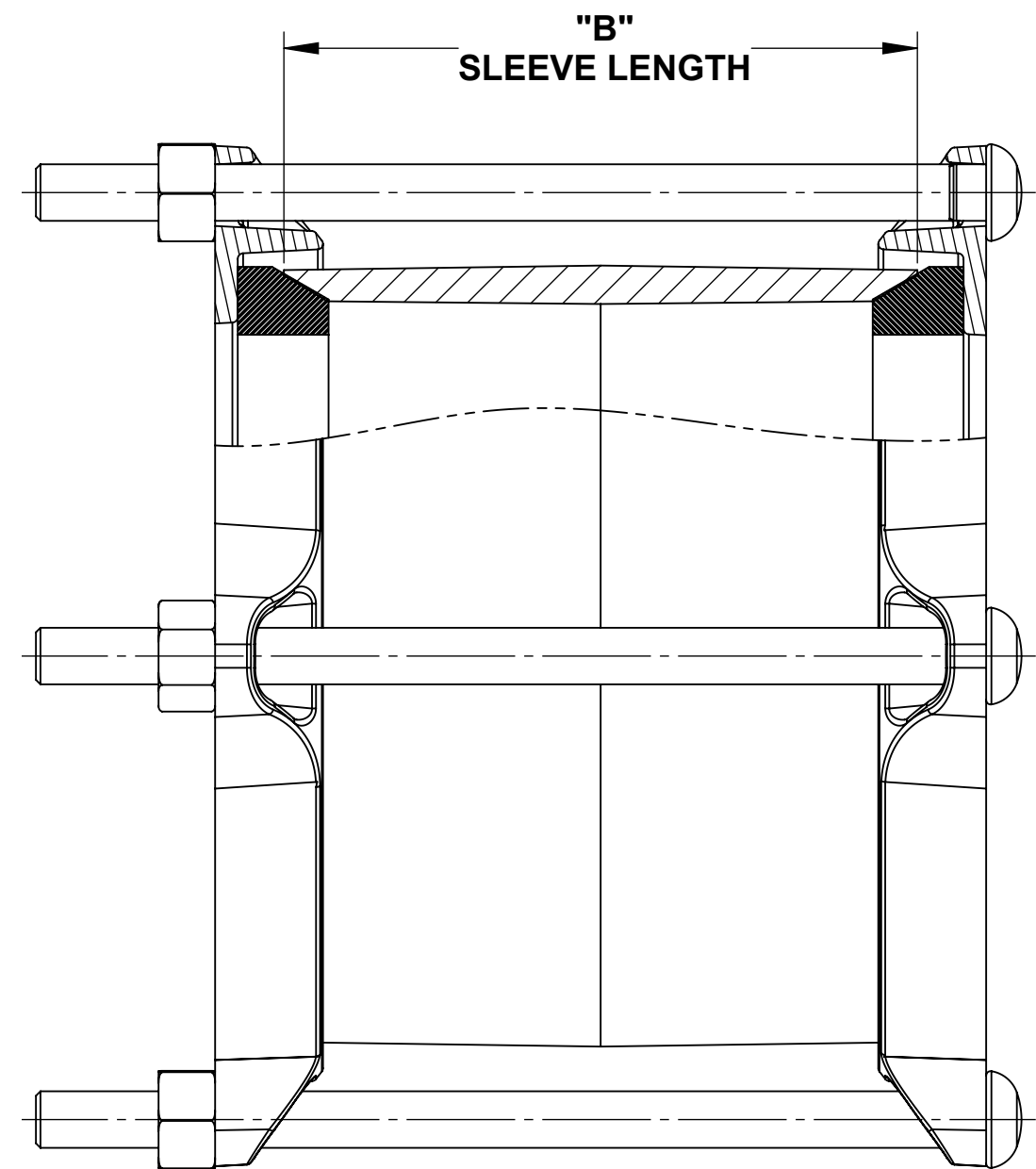
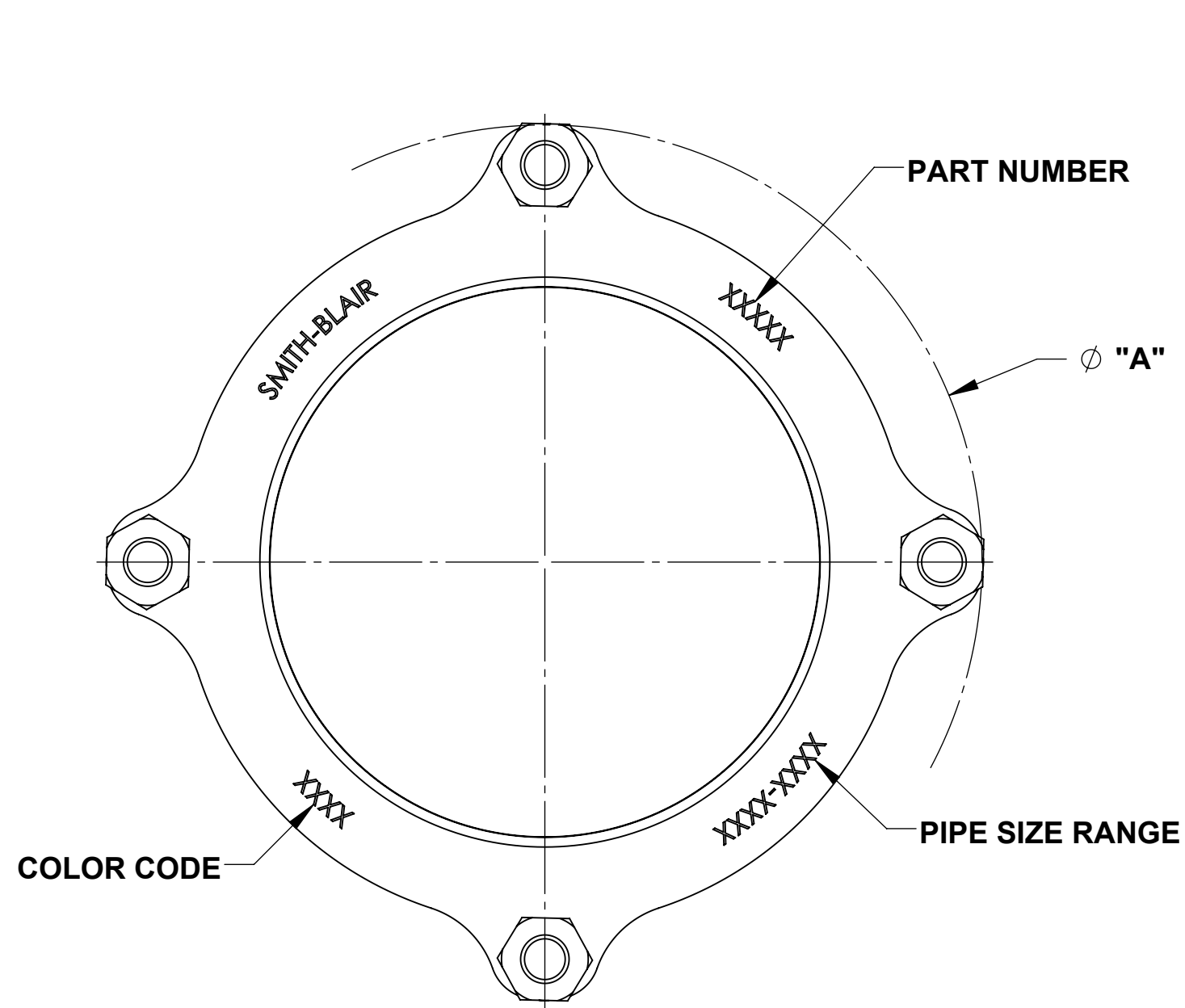
Nominal Pipe Size	Allowable Movement
4" to 10"	1/4"
12" to 16"	3/8"

Pipe End Tolerances

Nominal Pipe Size	Minus Tolerance	Plus Tolerance
4" to 16"	-0.06	+0.06

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

30 Globe Ave, Texarkana, AR 71854
Ph: 870-773-5127 • Fax: 870-773-5212
Toll-Free Numbers: Ph: 800-643-9705 • Fax: 800-648-6792



- NOTES:
1. SEE SMITH-BLAIR CATALOG FOR PIPE RANGE AVAILABILITY
2. 6" COUPLING SHOWN OTHER SIZES SIMILAR

NOM. PIPE SIZE	PIPE O.D. RANGE	A	B	HARDWARE		APPROX WEIGHT (LBS)
				QTY.	SIZE	
4	4.00 TO 5.45	9.01	12.00	4	5/8" X 15.00"	34
6	6.00 TO 7.65	11.28	12.00	4	5/8" X 15.00"	47
8	8.00 TO 9.85	13.48	12.00	6	5/8" X 15.00"	71
10	10.00 TO 12.20	15.83	12.00	6	5/8" X 17.00"	78
12	12.00 TO 14.40	18.30	12.00	8	5/8" X 15.00"	81
14	15.30 TO 16.90	20.55	12.00	8	5/8" X 15.00"	105
16	17.40 TO 19.20	22.93	12.00	10	5/8" X 17.00"	127

WRENCH SIZE CHART

NUT	SIZE
5/8"-11UNC HH	1-1/16"

TOLERANCES U.N.O. XX= ±.03 .XXX= ±.015 FRACTIONS= ANGLES=±1° MACH. FIN= ALL DIMENSIONS ARE IN INCHES.	NOTES: REMOVE BURRS AND SHARP EDGES DO NOT SCALE DWG.	APP'D		DATE	
		CK'D		DATE	
	SCALE: N/A	DRN	CHD	DATE	1/13/16
TITLE SPECIFICATION OMNI™ CAST COUPLING - LONG SLEEVE MODEL 442					
SMITH-BLAIR TEXARKANA, ARKANSAS			P/N N/A		
			DWG. NO. SPEC_442.DRW	4 OF 4 SHEET	3/20/25 REV.