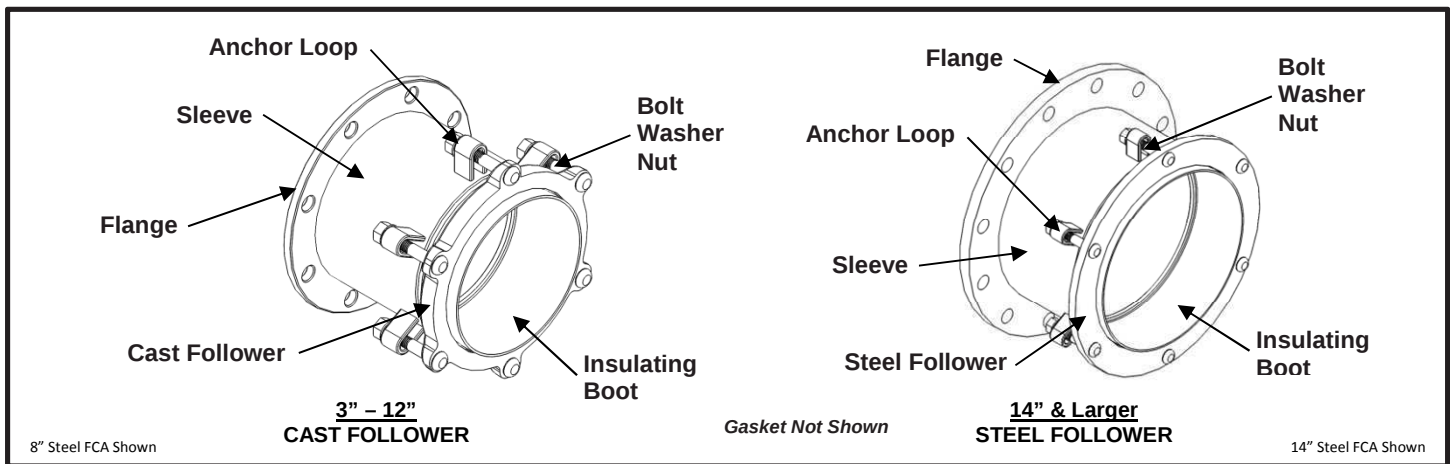


SPECIFICATION

STEEL INSULATING FLANGED COUPLING ADAPTER

MODEL 933



APPLICATIONS

- **Typical Uses**
 - Joining and insulating plain-end pipe to flanged fittings, meters, valves, or other miscellaneous flanged service equipment
 - Replace cracked pipe or spooled flanges while insulating
 - Ideal for connecting butterfly or wafer valves while insulating
- **Standard Pipe Sizes**
 - 3" & Larger
- **Type of Pipe**
 - Carbon Steel, Stainless Steel, Ductile Iron, Cast Iron
- **Working Pressure**
 - 3" – 12" nominal pipe size = 175 psi
14" and greater nominal pipe size = 150 psi
See options for higher working pressure design

MATERIALS

- **Followers**
 - **Cast Follower (3" – 12")**
 - 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
 - **Steel Follower (14" & Larger)**
 - Carbon Steel C1020 per ASTM A576
 - Flexi-Coat® fusion bonded epoxy finish which meets application methods AWWA C213
 - Integral bolt head pocket for one wrench installation
- **Sleeve**
 - Material: 3 - 5" nominal pipe size = Carbon Steel per ASTM A513 or A53
6" – 24" nominal pipe size = Carbon Steel per ASTM A283C
 - Flexi-Coat® fusion bonded epoxy finish which meets application methods AWWA C213
 - Larger O.D. sleeves provided with hanging ring(s) for ease of installation
 - Total angular deflection up to 1-1/2° per joint

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- **Flange**
 - Carbon Steel per ASTM A36
 - Type: 3" - 5" nominal pipe size = ANSI 150# Flat Face
6" & larger nominal pipe size = AWWA C207 Class D 150#
- **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
 - For ductile iron and asbestos cement pipe sizes, 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
- **Insulating Boot**
 - 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
 - Positive stop molded into boot for pipe end
- **Anchor Loop**
 - Carbon Steel per ASTM A36
- **Bolts**
 - HSLA Carbon Steel per AWWA C111/A21.11
 - 5/8"-11UNC, 4.50", 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
 - 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 & 372
- Meets applicable AWWA C219 standards

OPTIONS

- Other materials of construction (e.g. 304SS, 316SS, etc.)
- 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.)
- Anode connector
- Anchor studs (Pipe Restraint)
- Pipe stops incorporated into sleeve
- Higher working pressure design
- Custom sleeve length and thickness
- Any industry standard flange
- Transition gasket for undersized pipe

SPECIFICATION

STEEL INSULATING FLANGED COUPLING ADAPTER

MODEL 933

NOTES

- Flexi-Coat® is a registered 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 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 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.

Minimum 3" pipe insertion required

Total Maximum Allowable Axial Pipe Movement per Coupling

Coupling Size	Allowable Movement
3/4" to 2"	1/16"
2-1/2" to 10"	1/8"
10-3/4" and Larger	3/16"

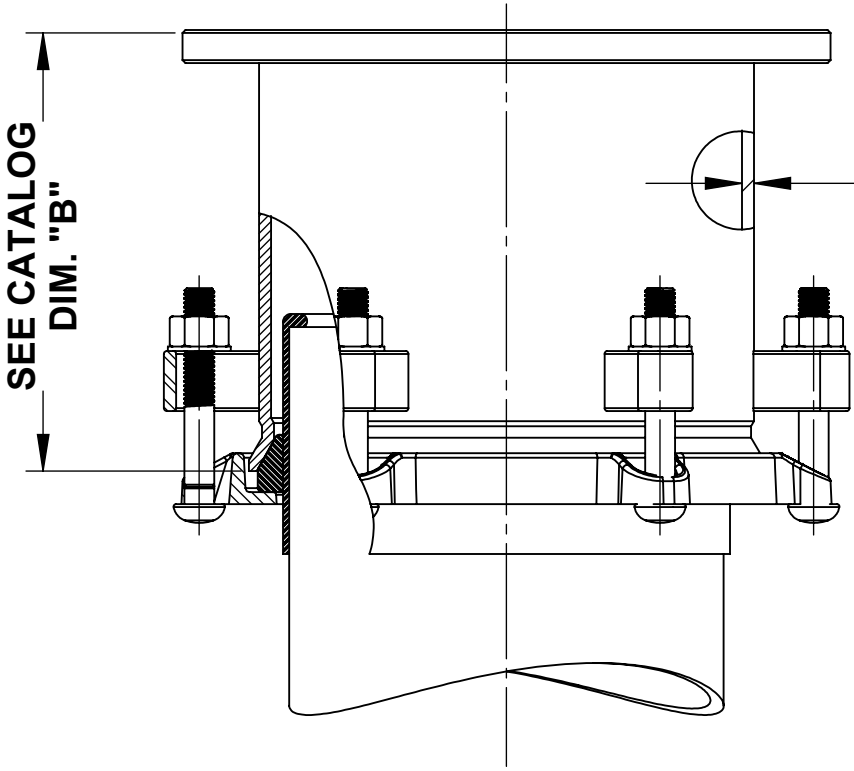
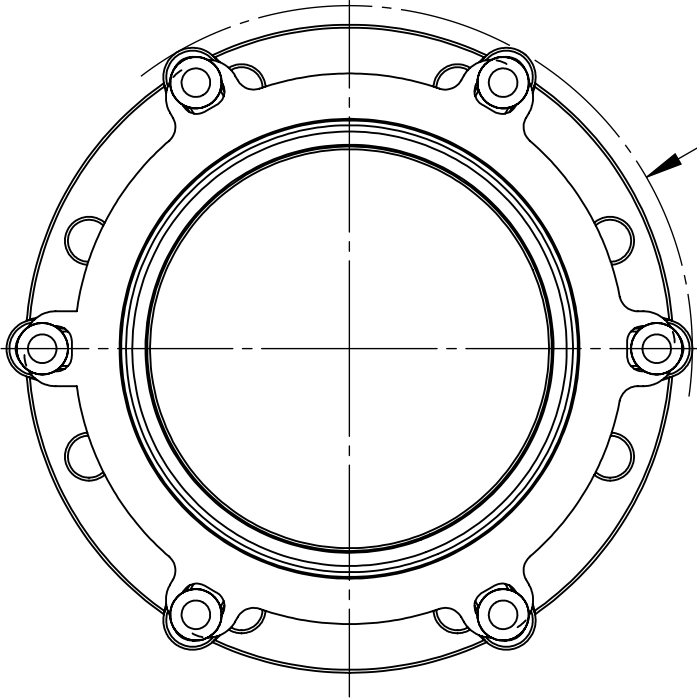
Pipe End Tolerances

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"	3-1/2°	3-1/2°	3-1/2°
>2" up to 12"	2°	2-1/4°	2-1/4°
>12" up to 24"	3/4°	1°	1-1/8°
>24" up to 36"	-	1-3/4°	2°
>36" up to 42"	-	1-1/2°	1-3/4°
>42" up to 60"	-	1-1/4°	1-1/2°
>60" up to 80"	-	-	1-1/4°
>80" up to 100"	-	-	1°
>100"	-	-	-

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



SEE CATALOG DIM. "E"

SEE CATALOG DIM. "A"

3" - 12" CAST FOLLOWER

CERTIFIED TO NSF/ANSI 61-G & 372

NOTES:
1. SEE SMITH-BLAIR CATALOG MODEL 913 FOR FLANGE O.D., BOLT QTY & SLEEVE THICKNESS/LENGTH DESIGN CALLOUTS
2. 8" STANDARD SLEEVE LENGTH COUPLING SHOWN OTHER SIZES SIMILAR

WRENCH SIZE CHART

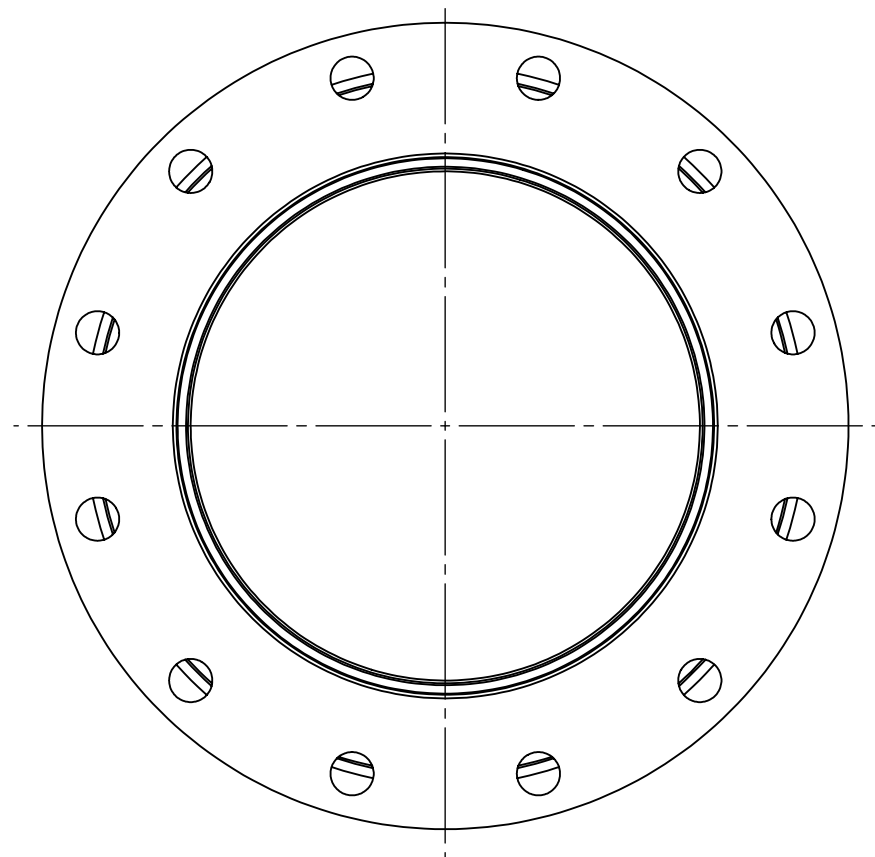
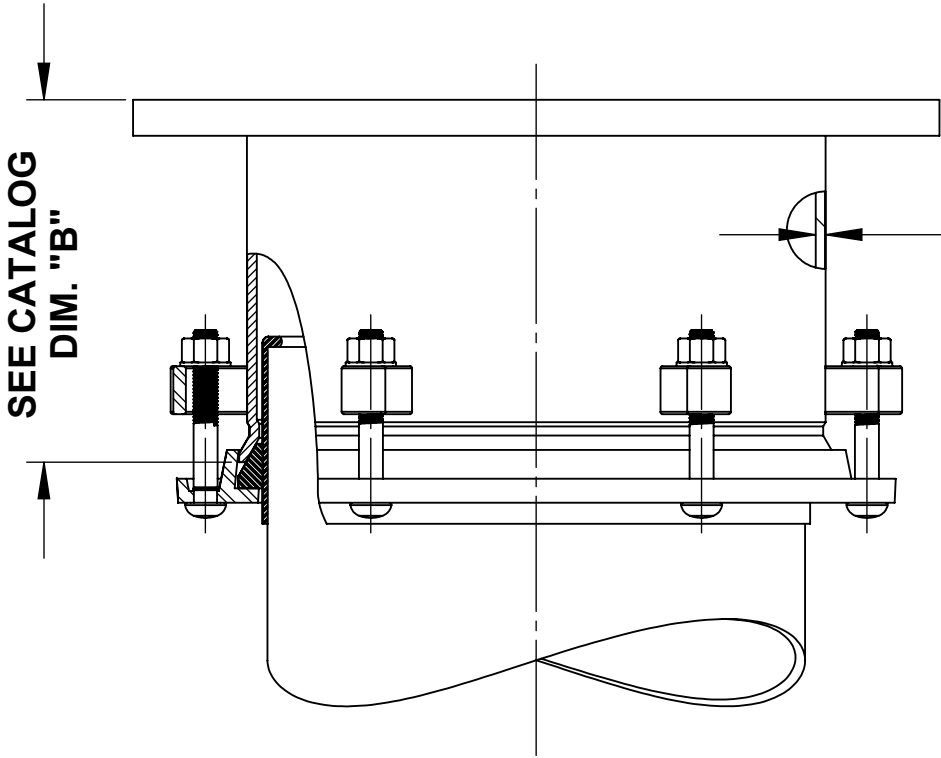
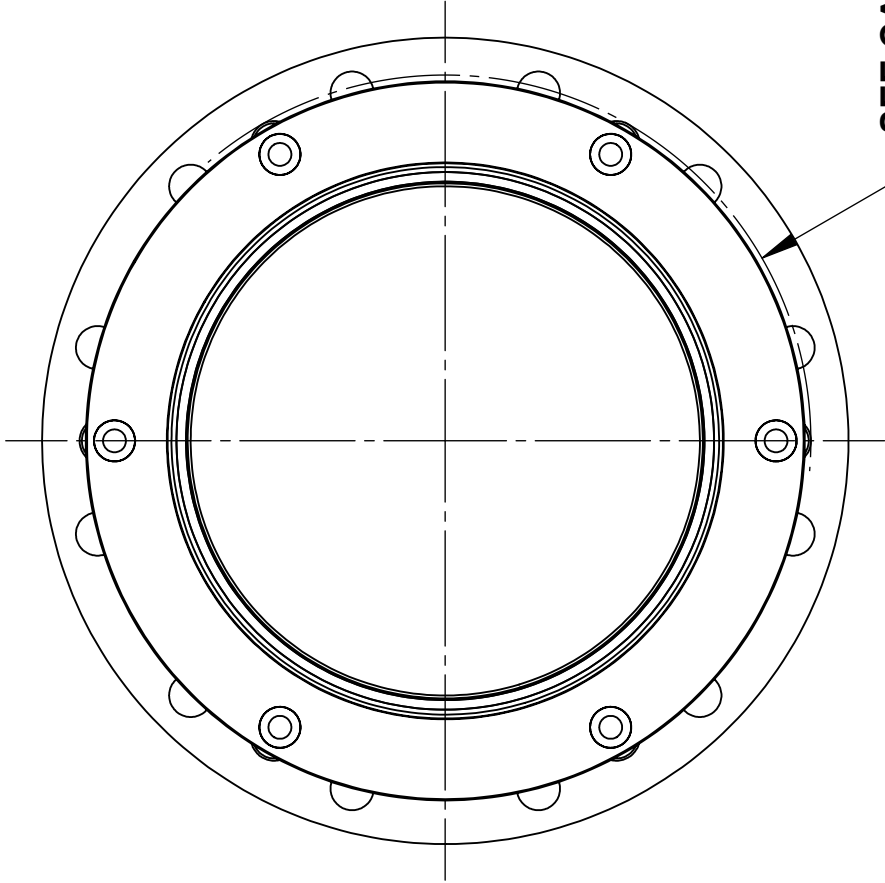
NUT	SIZE
5/8"-11UNC HH	1-1/16"

TOLERANCES U.N.O. XX= +.03 XXX= +.015 FRACTIONS= ANGLES=+1° MACH. FIN=	NOTES: REMOVE BURRS AND SHARP EDGES DO NOT SCALE DWG.	APP'D	DATE
		CK'D	DATE
	SCALE: N/A	DRN	CHD
ALL DIMENSIONS ARE IN INCHES.			DATE

1/13/16

TITLE	
SPECIFICATION	
STEEL INSULATING FLANGED COUPLING ADAPTER	
MODEL 933	

P/N		N/A	
SMITH-BLAIR, Inc.		SPEC_933.DRW	
TEXARKANA, ARKANSAS		1 OF 2	
		SHEET	
		7/1/16	
		REV.	



14" & LARGER STEEL FOLLOWER

CERTIFIED TO NSF/ANSI 61-G & 372

- NOTES:
- SEE SMITH-BLAIR CATALOG MODEL 913 FOR FLANGE O.D., BOLT QTY & SLEEVE THICKNESS/LENGTH DESIGN CALLOUTS
 - 14" STANDARD SLEEVE LENGTH COUPLING SHOWN OTHER SIZES SIMILAR

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=	NOTES: REMOVE BURRS AND SHARP EDGES DO NOT SCALE DWG.	APP'D	DATE
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SMITH-BLAIR, Inc. TEXARKANA, ARKANSAS	P/N N/A	
	SPEC_933.DRW	2 OF 2
DWG. NO.		7/1/16 REV.