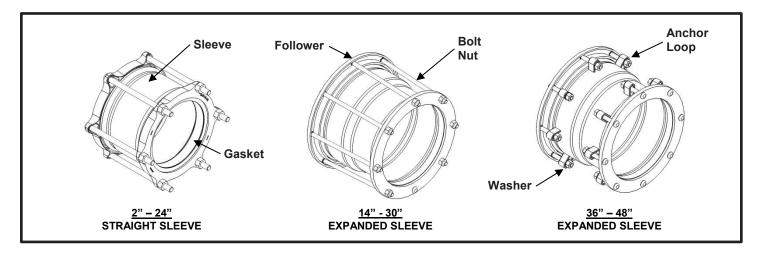


SPECIFICATION STEEL TRANSITION COUPLING MODEL 413



APPLICATIONS

- Typical Uses
 - Joining plain-end pipe of different outside diameters within the same nominal pipe size
- Standard Pipe Sizes
 - 2" to 48" nominal
- Type of Pipe
 - Carbon Steel, Stainless Steel, Ductile Iron, Asbestos Cement, PVC, HDPE (see notes for thin wall PVC & HDPE applications)
- Working Pressure
 - 150 psi (standard design)

MATERIALS

- Followers
 - Cast Follower (for sizes up to 12" nominal pipe size)
 - o Cast using Ductile Iron 65-45-12 per ASTM A536
 - o Flexi-Coat® fusion bonded epoxy finish which meets application methods AWWA C213
 - o Integral bolt head pocket for one wrench installation
 - Steel Follower(for sizes 14"-48" nominal pipe sizes)
 - o Carbon Steel C1020 per ASTM A576
 - o Flexi-Coat[®] fusion bonded epoxy finish which meets application methods AWWA C213
 - o Integral bolt head pocket for one wrench installation
- Sleeve
 - Material: 2" 5" nominal pipe size = Carbon Steel per ASTM A513 or A53 6" – 48" 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



SPECIFICATION STEEL TRANSITION COUPLING MODEL 413

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

Anchor Loop

- Carbon Steel per ASTM A36
- Welded to sleeve to secure each follower end independently allowing greater O.D. pipe transitions

Bolts

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

LISTINGS

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

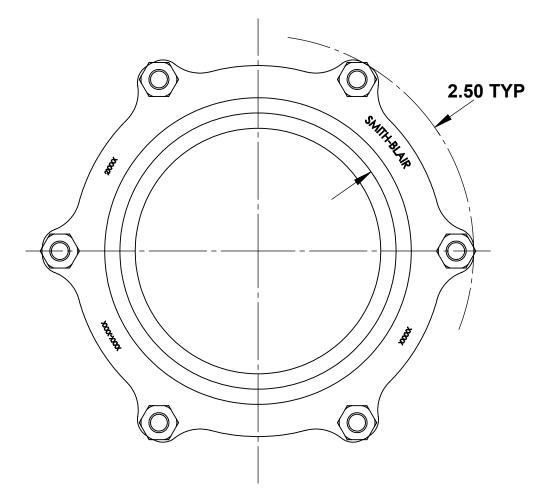
OPTIONS

- 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.)
- Protected gasket (brass spring molded into leading edge)
- Anode connector
- Insulating boot(s)
- Anchor studs
- Pipe stops incorporated into sleeve
- Higher working pressure design
- Custom sleeve length and thickness

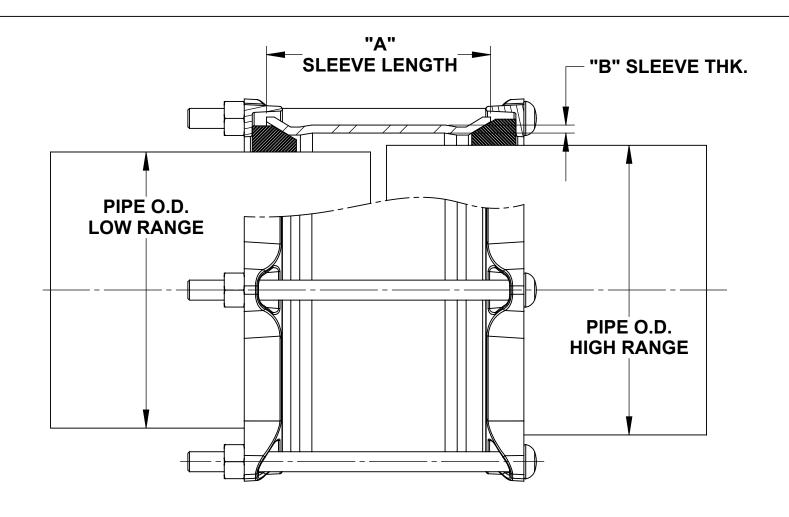
NOTES

- 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[®] 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 warnings

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



NOM. PIPE	MAX			HARDWARE		APPROX.
SIZE	COUPLING O.D. RANGE	Α	В	QTY.	SIZE	WEIGHT (LBS)
2	2.07 TO 2.81	5	0.261	2	5/8" X 8.00"	8.00
2-3	2.69 TO 3.88	5	0.227	2	5/8" X 8.00"	9.50
3-4	3.44 TO 4.68	5	0.258	3	5/8" X 8.00"	13.00
5-5	4.74 TO 5.84	5	0.280	4	5/8" X 8.00"	20.50
5-6	5.47 TO 6.99	5	0.301	5	5/8" X 8.00"	23.50
6	6.57 TO 7.26	5	0.322	5	5/8" X 8.00"	27.75
8	7.94 TO 8.75	5	0.342	6	5/8" X 8.00"	33.50
8	7.94 TO 9.25	5	0.375	6	5/8" X 8.00"	40.50
8	8.56 TO 9.45	5	0.375	6	5/8" X 8.00"	40.50
8-10	9.00 TO 10.38	5	0.375	7	5/8" X 8.00"	41.00
10	9.88 TO 10.84	5	0.250	8	5/8" X 8.00"	32.75
10	10.63 TO 11.50	5	0.375	7	5/8" X 8.00"	46.00
10-12	11.00 TO 12.06	5	0.375	7	5/8" X 8.00"	47.50
12	11.88 TO 13.10	5	0.375	8	5/8" X 8.00"	52.25
12	12.63 TO 13.70	5	0.375	8	5/8" X 8.00"	56.50
12-14	13.88 TO 14.50	5	0.375	6	5/8" X 8.00"	62.00
14	15.30 TO 15.65	7	0.375	8	5/8" X 11.00"	86.00
16	17.40 TO 17.80	7	0.375	8	5/8" X 11.00"	96.00
18	19.50 TO 19.92	7	0.375	10	5/8" X 11.00"	108.00
20	21.60 TO 22.06	7	0.375	10	5/8" X 11.00"	118.00
24	25.80 TO 26.32	7	0.375	12	5/8" X 11.00"	140.00



2" - 24" STRAIGHT SLEEVE TRANSITION COUPLING

CERTIFIED TO NSF/ANSI 61-G & 372

3/8/16

NOTES:

- 1. SEE SMITH-BLAIR CATALOG FOR ADDITIONAL DETAILS
- 2. 8.63" X 9.05" STD SLEEVE LENGTH COUPLING SHOWN. OTHER SIZES SIMILAR

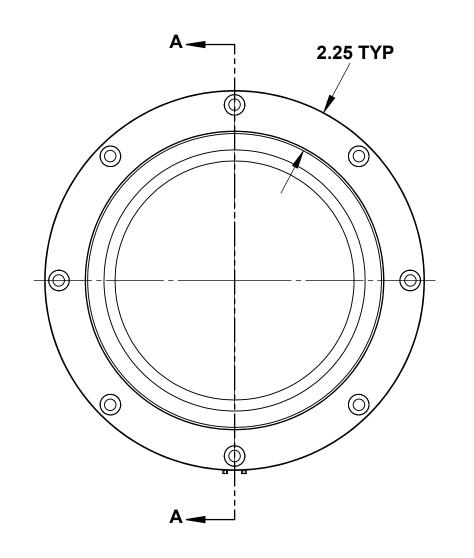
WRENCH SIZE CHART				
NUT	SIZE			
5/8"-11UNC HH	1-1/16"			

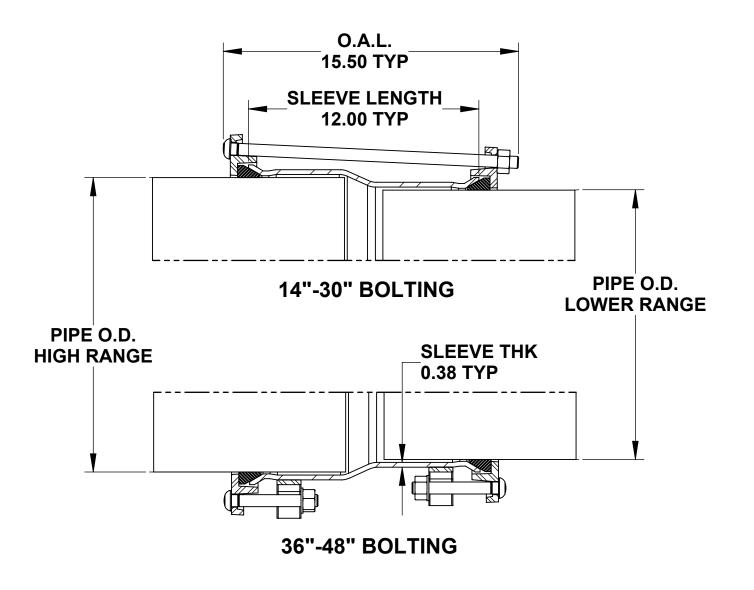
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FRACTIONS= ANGLES=±1° MACH. FIN=	DO NOT SCALE DWG.	CK'D		DATE	
TOLERANCES U.N.OXX= ±.03 .XXX= ±.015	NOTES: REMOVE BURRS AND SHARP FDGES	APP'D		DATE	

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SPECIFICATION STEEL TRANSITION COUPLING MODEL 413

SMITH-BLAIR, Inc.	P/N N/A
	SPEC_413.DRW
	DWG NO





SECTION A-A

NOTES:

- 1. SEE SMITH-BLAIR CATALOG FOR ADDITIONAL DETAILS
- 2. 8.63" X 9.05" STD SLEEVE LENGTH COUPLING SHOWN. OTHER SIZES SIMILAR

NOM. PIPE	MAX COUPLING	HA	ARDWARE	APPROX. WEIGHT (LBS)	
SIZE	O.D. RANGE	QTY.	SIZE		
14	14.00 TO 15.30	8	5/8" X 15.00"	110	
16	16.00 TO 17.40	8	5/8" X 15.00"	125	
18	18.00 TO 19.50	8	5/8" X 15.00"	145	
20	20.00 TO 21.60	10	5/8" X 15.00"	160	
24	24.00 TO 25.80	12	5/8" X 15.00"	180	
30	30.00 TO 32.00	14	5/8" X 15.00"	215	
36	36.00 TO 38.30	32	5/8" X 4.50"	260	
42	42.00 TO 44.50	36	5/8" X 4.50"	315	
48	48.00 TO 50.80	40	5/8" X 4.50"	350	

14" - 48" EXPANDED SLEEVE TRANSITION COUPLING

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

CERTIFIED TO NSF/ANSI 61-G & 372

TITLE	SDECIE!	$\sim \Lambda$	TION		
ALL DIMENSIONS ARE IN INCHES.	SCALE: N/A	DRN	CHD	DATE	10/6/15
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TOLERANCES U.N.OXX= ±.03 .XXX= ±.015	NOTES: REMOVE BURRS AND SHARP EDGES	APP'D		DATE	

SPECIFICATION
STEEL TRANSITION COUPLING
MODEL 413

SMITH-BLAIR, Inc. TEXARKANA, ARKANSAS

_	P/N N/A		
	SPEC_413.DRW	2 / OF 2	3/8/16
	DWG. NO.	SHEET	REV.