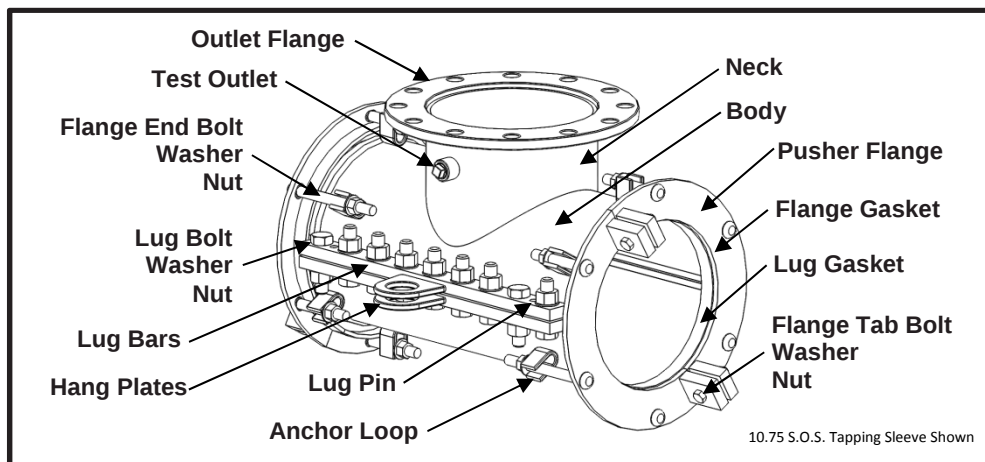


SPECIFICATION

TAPPING SLEEVE - FABRICATED STEEL

MODEL 623



APPLICATIONS

- **Typical Uses**
 - Tapping size-on-size branch connections on new or existing pipe
 - Tapping reducing branch connections on new or existing pipe
 - Installing valves and other miscellaneous service equipment
 - Typically utilized where the condition of the pipe at the tap will not accommodate a neck seal
- **Standard Pipe Sizes**
 - 4" to 30" nominal
- **Standard Outlet Type and Size**
 - 4" to 12"
- **Type of Pipe**
 - Carbon Steel, Stainless Steel, Cast Iron, Asbestos Cement, PVC, Ductile Iron
- **Working Pressure**
 - 175 psi depending on the type of flange, pipe diameter, service conditions, and installation workmanship

MATERIALS

- **Body**
 - Carbon Steel per ASTM A283 Grade C or A513
 - Material thickness: 3/8" (both plates)
 - Sections expanded and rim rolled for gasket sealing surface
- **Neck**
 - Carbon Steel per ASTM A53 or A513
 - Furnished with 3/4" NPT test outlet
 - Accepts full size cutters except size-on-size taps which require a 1/2" undersize shell cutter
- **Outlet Flange**
 - Carbon Steel per ASTM A36
 - Type AWWA C207 Class D steel ring flat face
 - Compatible with ANSI 125# and 150# bolt hole patterns
 - Recessed for tapping valve alignment per MSS SP-60

SPECIFICATION

TAPPING SLEEVE - FABRICATED STEEL

MODEL 623

- **Lug Bar**
 - Carbon Steel per ASTM A36
 - Material thickness: 0.75"
 - Recessed machined on sealing surface to retain gasket
- **Gaskets**
 - 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
 - Lug bar gasket fully cemented in machined recess
 - Seals 360° around the pipe in case the pipe breaks
- **Anchor Loop**
 - Carbon Steel per ASTM A36
 - Weld bead added to retain and locate hardware
 - Loops staggered on ends to accommodate lug hardware installation
- **Pusher Flange**
 - Carbon Steel per AISI C1020
 - Split design with joining flange tabs for rapid installation
 - Oval slots retain hardware's bolt neck design
- **Lug Bolt**
 - HSLA Carbon Steel per AWWA C111/A21.11
 - Fe/Zn coated per ASTM F1941-10
 - 3/4"-10UNC x 3.00" long, Hex Head
- **Pusher Flange End Bolt**
 - HSLA Carbon Steel per AWWA C111/A21.11
 - Fe/Zn coated per ASTM F1941-10
 - Size: Offset Anchor Loop = 5/8"-11UNC x 6.88" long, Oval Neck Track Head
Standard Anchor Loop = 5/8"-11UNC x 4.5" long, Oval Neck Track Head
 - Rolled threads for improved physical characteristics, greater thread accuracy, and smooth surface finish
- **Pusher Flange Tab Bolt**
 - HSLA Carbon Steel per AWWA C111/A21.11
 - Fe/Zn coated per ASTM F1941-10
 - Size: 6" - 12" nominal pipe sizes = 1/2"-13UNC x 2.50" long, Hex Head
14" - 30" nominal pipe sizes = 3/4"-10UNC x 3.00" long, Hex Head
- **Nuts**
 - HSLA Carbon Steel per AWWA C111/A21.11
 - Fe/Zn coated per ASTM F1941-10
 - Heavy Hex Semi-Finished sized to match mating bolt
- **Washers**
 - Carbon Steel per ASTM F844
 - Fe/Zn coated per ASTM F1941-10
 - Type A Plain sized to match mating bolt
 - Utilized to preserve corrosion resistance of epoxy coated surfaces and increase bearing surface
- **Test Outlet**
 - Carbon Steel 3/4" FNPT 3000# half coupling per ASTM A865
 - Carbon Steel 3/4" MNPT square head test plug



SPECIFICATION

TAPPING SLEEVE - FABRICATED STEEL

MODEL 623

- **Lug Pin**
 - Carbon Steel per ASTM A36
 - Utilized to align body for assembly
 - Protect lug gasket during handling
- **Welding**
 - Welds accomplished using qualified welders
 - GMAW weld process utilized
- **Finish**
 - Flexi-Coat® fusion bonded epoxy
 - Meets application methods AWWA C213

LISTINGS

- Meets applicable AWWA C223 standards

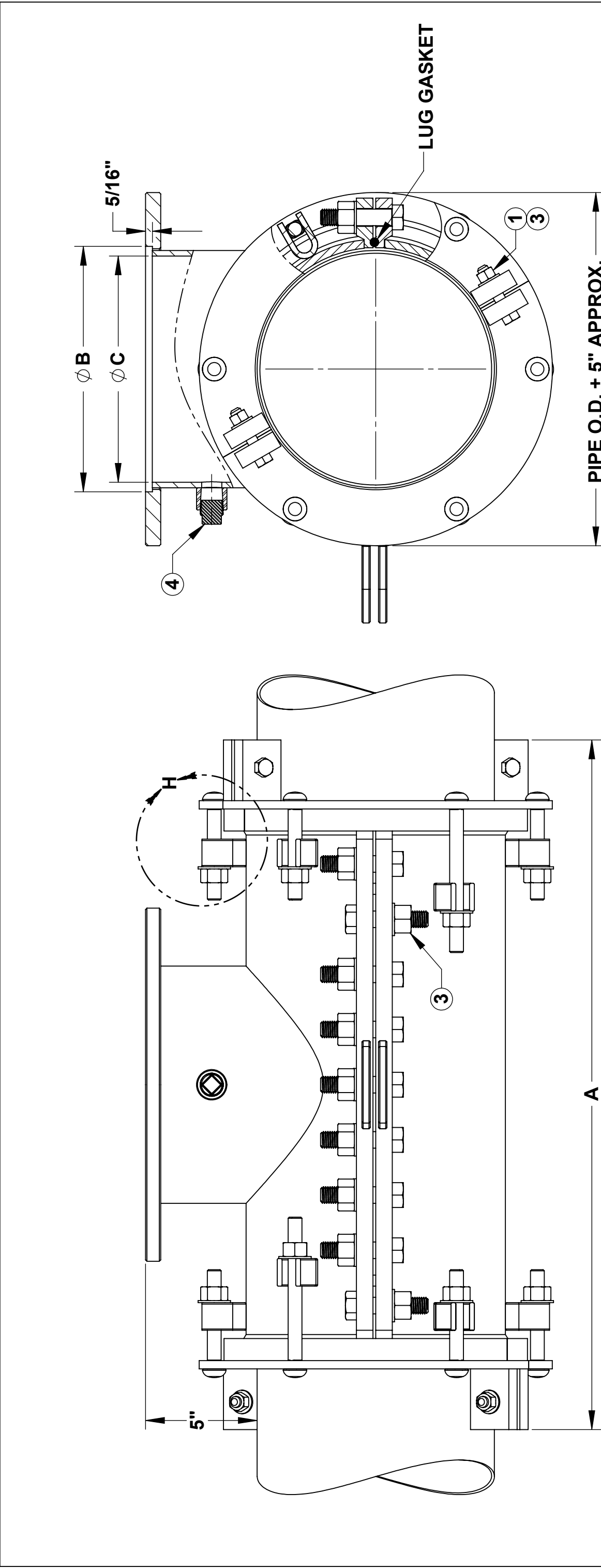
OPTIONS

- Type 304 Stainless Steel hardware with fluoropolymer coated nuts to prevent galling
- Type 304 Stainless Steel tapping sleeve construction
- Cross configuration
- Angled (Wye) pattern configuration
- Alternative gasket material (e.g. Viton, EPDM, etc.)
- Anode connector
- Threaded outlet 3/4" to 6" NPT
- MJ outlet
- Linestop outlet
- Coupling outlet (4")
- Any industry standard flange
- Higher working pressure design
- Larger diameter body and/or outlet

NOTES

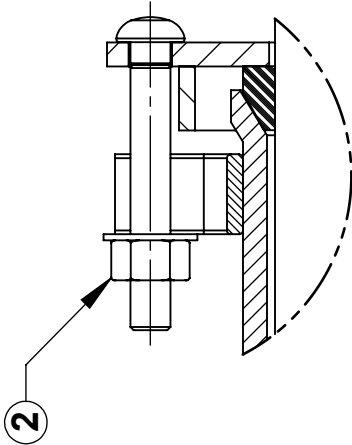
- These product specifications were correct at the time of publication and are subject to change without notice
- Flexi-Coat® is a registered trademark of Smith-Blair, Inc.
- See the Smith-Blair® web site for part numbers and ordering information
- See the Smith-Blair® web site for warranty information
- See the Smith-Blair® web site for corrosion warnings

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Toll-Free Numbers: Ph: 800-643-9705 • Fax: 800-648-6792



- NOTES:
- SEE SMITH-BLAIR CATALOG FOR SIZES NOT SHOWN
 - 10" S.O.S TAPPING SLEEVE SHOWN OTHER SIZES SIMILAR

OUTLET SIZE	NOMINAL PIPE SIZE	BODY LENGTH	BODYP LENGTH	(O.A.L.) A	MSS SP-60 RECESS	
					B	C
4	6-30	16.00	16.00	21.75	5.06	4.59
						6.13
6	8-30	16.00	16.00	21.75	7.06	6.50
						8.50
8	10-30	18.00	18.00	23.75	9.06	8.50
						10.25
10	12-30	24.00	24.00	29.75	11.09	10.50
						12.25
12	14-30	24.00	24.00	29.75	13.09	12.50
						12.50



SECTION DETAIL H

WRENCH SIZE CHART

ITEM	NUT	SIZE
1	1/2"-13UNC HH	7/8"
2	5/8"-11UNC HH	1-1/16"
3	3/4"-10UNC HH	1-1/4"
4	3/4" SQ. PLUG	5/8"

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		
	ALL DIMENSIONS ARE IN INCHES.		CHD	7/28/15

TITLE SPECIFICATION TAPPING SLEEVE - FABRICATED STEEL MODEL 623			
SMITH-BLAIR, Inc. TEXARKANA, ARKANSAS		P/N N/A	

SPEC_623.DRW		1 OF 1	3/16/16
DWG. NO.		SHEET	REV.