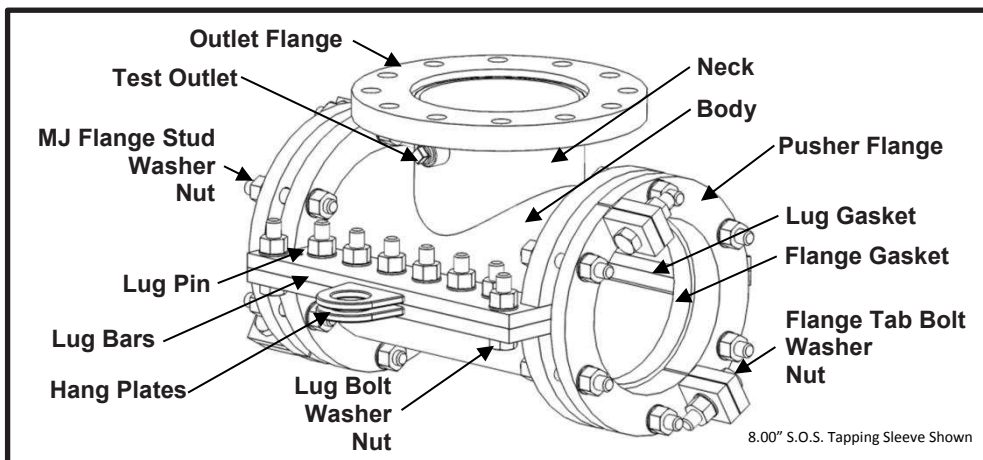


SPECIFICATION

MJ TAPPING SLEEVE - FABRICATED STEEL

MODEL 624



APPLICATIONS

- **Typical Uses**
 - Tapping out-of-round, high pressure, or non-standard diameter pipe(s)
 - Tapping size-on-size or 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
 - Special designs available for tapping pipe sizes down to 1/2" IPS
- **Standard Pipe Sizes**
 - 6" to 48" nominal
- **Standard Outlet Type and Size**
 - 4" to 48"
- **Type of Pipe**
 - Carbon Steel, Stainless Steel, Cast Iron, Asbestos Cement, PVC, Ductile Iron
- **Working Pressure**
 - 150 psi standard design (*higher working pressure available*)

MATERIALS

Materials listed represent typical designs. Smith-Blair reserves the right to make changes in materials at any time.

- **Body**
 - Carbon Steel per ASTM A283 Grade C or A513
 - Material thickness: 3/8" (both plates)
- **Neck**
 - Carbon Steel per ASTM A53, A513, A283C, or A36
 - Furnished with 3/4" NPT test outlet
 - Accepts full size cutters
- **Outlet Flange**
 - Carbon Steel per ASTM A36
 - Type AWWA C207 Class D flat face compatible with ANSI 125# and 150# bolt hole patterns
 - Recessed for tapping valve alignment per MSS SP-60

SPECIFICATION

MJ TAPPING SLEEVE - FABRICATED STEEL

MODEL 624

- **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
 - Certified to NSF/ANSI 61 and NSF/ANSI 372
 - 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
- **MJ Body Flange**
 - Carbon Steel per ASTM A36
 - Meets dimensional and tolerance requirements of AWWA C111
 - Flange split and fully welded to body
- **Pusher Flange**
 - Carbon Steel per ASTM A36
 - Meets dimensional and tolerance requirements of AWWA C111
 - Split design with joining flange tabs for rapid installation
- **Lug Bolt**
 - High Strength Low Alloy (HSLA) Steel per AWWA C111/A21.11
 - Fe/Zn coated per ASTM F1941-10
- **MJ Flange Stud**
 - HSLA Steel per AWWA C111/A21.11
 - Fe/Zn coated per ASTM F1941-10
 - Rolled threads for improved physical characteristics, greater thread accuracy, and smooth surface finish
- **Pusher Flange Tab Bolt**
 - HSLA Steel per AWWA C111/A21.11
 - Fe/Zn coated per ASTM F1941-10
- **Nuts**
 - HSLA 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 protect 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
- **Lug Pin**
 - Carbon Steel per ASTM A36
 - Utilized to align body for assembly
 - Protect lug gasket during handling



SPECIFICATION

MJ TAPPING SLEEVE - FABRICATED STEEL

MODEL 624

- **Hang Plate**
 - Carbon Steel per ASTM A283C
 - For handling and installation of fitting
- **Welding**
 - Welds accomplished using qualified welders
 - GMAW weld process utilized
- **Finish**
 - Flexi-Coat® fusion bonded epoxy
 - Certified to NSF/ANSI 61 and NSF/ANSI 372

LISTINGS/STANDARDS

- Meets applicable portions of AWWA C223
- Flexi-Coat® Fusion-Bonded Epoxy Coating meets requirements of AWWA C213

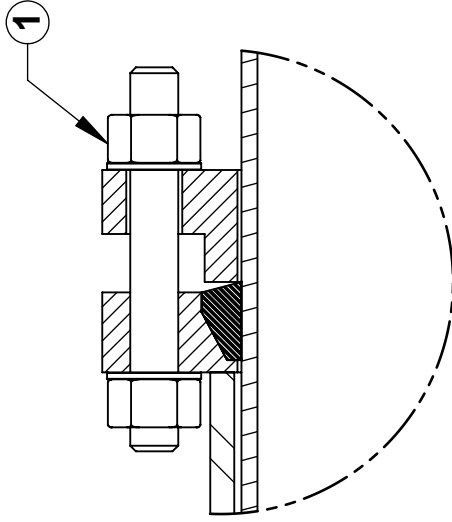
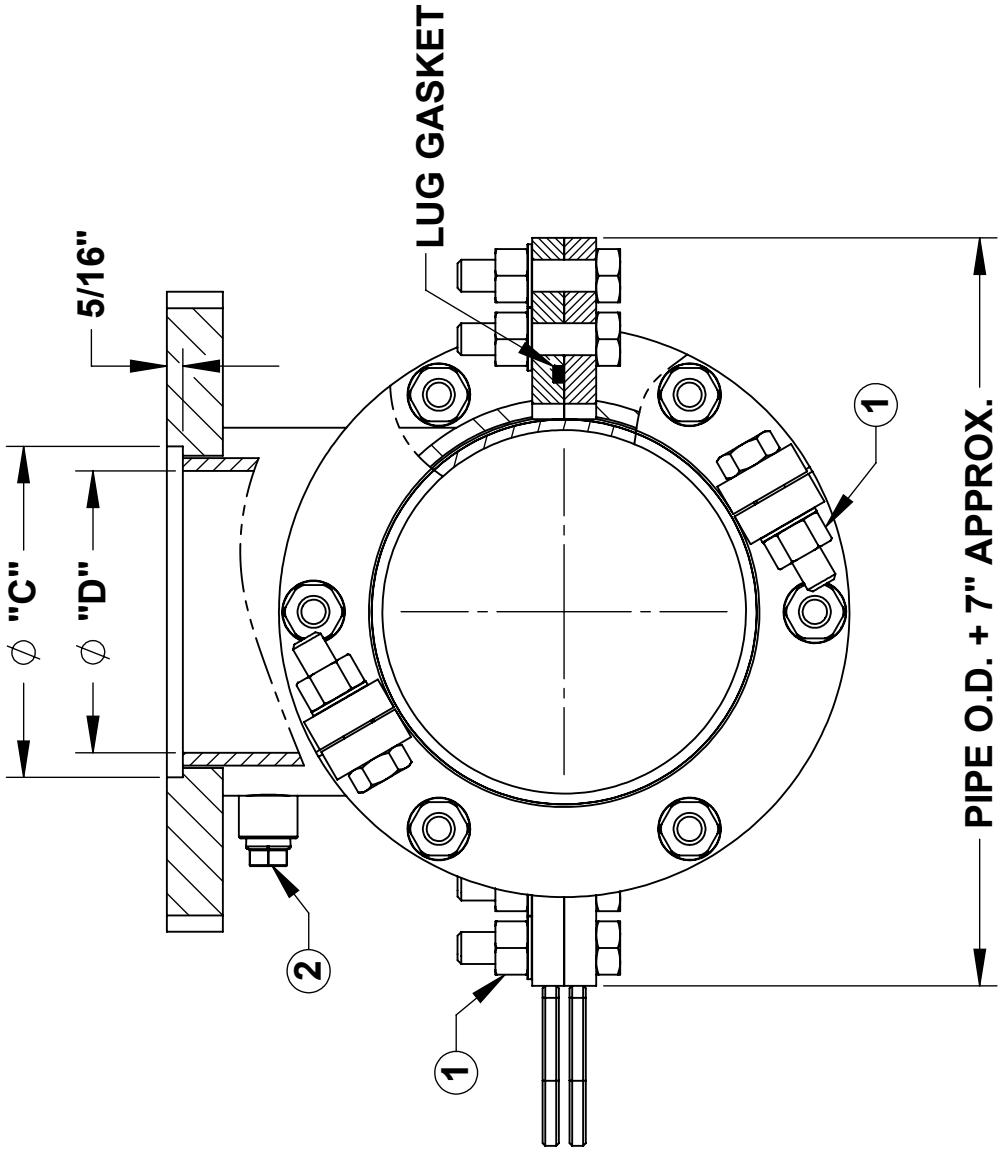
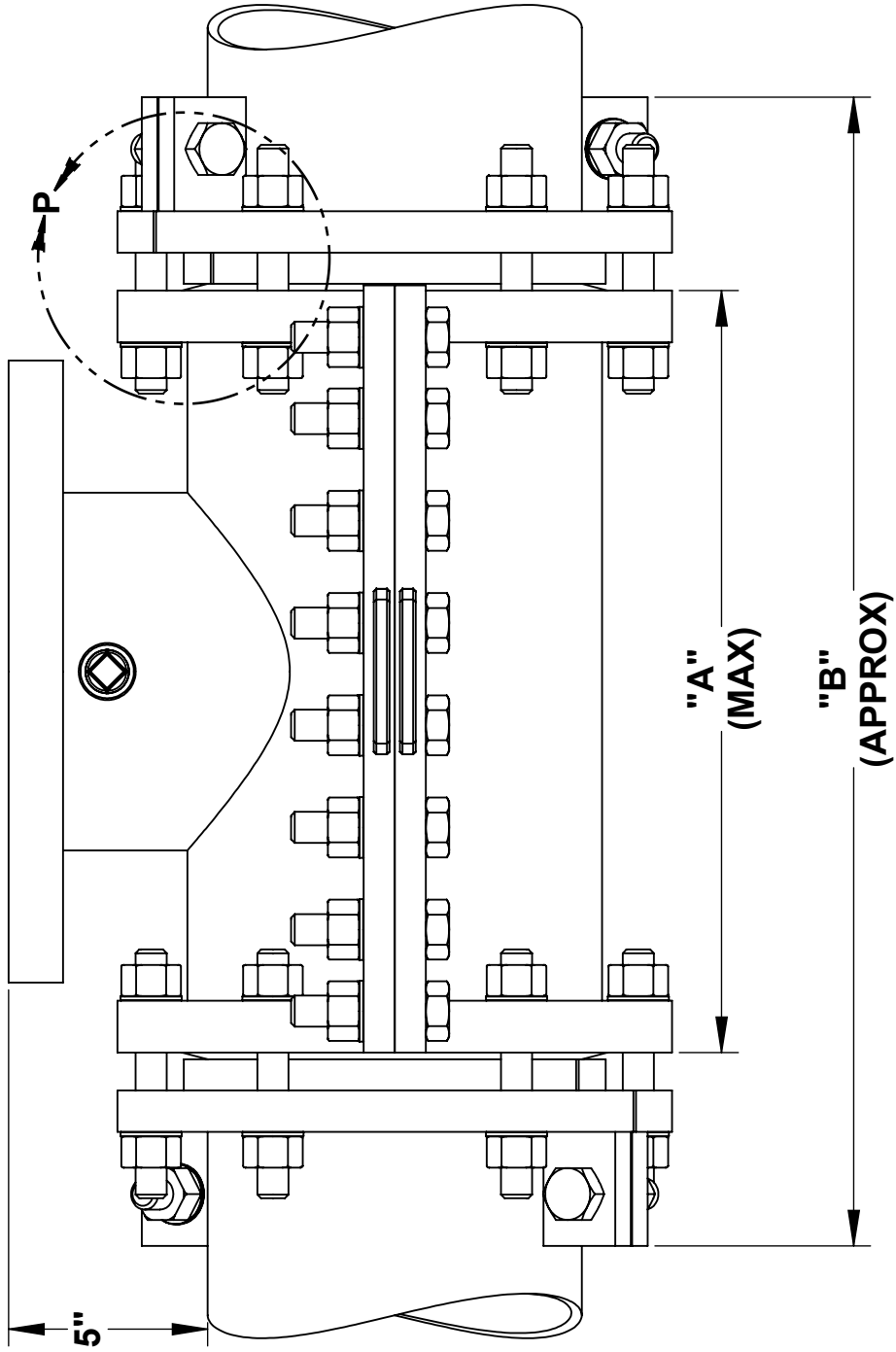
OPTIONS

- Type 304 Stainless Steel hardware with fluoropolymer coated nuts to prevent galling
- Type 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
- Line Stop outlet
- Any industry standard flange
- Higher working pressure design
- Larger diameter body and/or outlet
- Hybrid designs for larger diameters 60" and greater
- Replace bolts for studs at lug bar
- Fitting manufactured to fit out-of-round pipe

NOTES

- Pipe must be round to ANSI/AWWA C111 dimensional and tolerance requirements
- 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 Smith-Blair customer service for specific application and ordering information
- See the Smith-Blair website for warranty information
- See the Smith-Blair website for corrosion notice

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



SECTION DETAIL P

WRENCH SIZE CHART		
ITEM	NUT	SIZE
1	3/4"-10UNC HH	1-1/4"
2	3/4" SQ. PLUG	5/8"

NOTES:

1. SEE SMITH-BLAIR CUSTOMER SERVICE FOR SIZES NOT SHOWN
2. 6" - 24" PIPE X 4" - 12" OUTLET AT STD WORKING PRESSURE DESIGN SHOWN. OTHER SIZES SIMILAR

OUTLET SIZE	NOMINAL PIPE SIZE	LENGTH "A"	(O.A.L.) "B"	MSS SP-60 RECESS	
				"C"	"D"
4	6 - 24	19.24	30.24	5.06	4.59
6	6 - 24	19.24	30.24	7.06	6.13
8	8 - 24	21.24	32.24	9.06	8.50
10	10 - 24	27.24	38.24	11.09	10.25
12	12 - 24	27.24	38.24	13.09	12.25

TOLERANCES U.N.O. XX ± .03 XX ± .05 FRACTIONS= 5 ANGLES= ± 1° MACH. FIN=	NOTES: REMOVE BURRS AND SHARP EDGES DO NOT SCALE DWG.		APP'D	DATE	7/28/15
			CK'D	DATE	
	SCALE: N/A		DRN	CHD	

TITLE

SPECIFICATION
MJ TAPPING SLEEVE - FABRICATED STEEL
MODEL 624

SMITH-BLAIR, Inc. TEXARKANA, ARKANSAS	P/N	N/A	10/13/16 1 OF 1 SHEET REV.
	SPEC_624.DRW DWG. NO.		