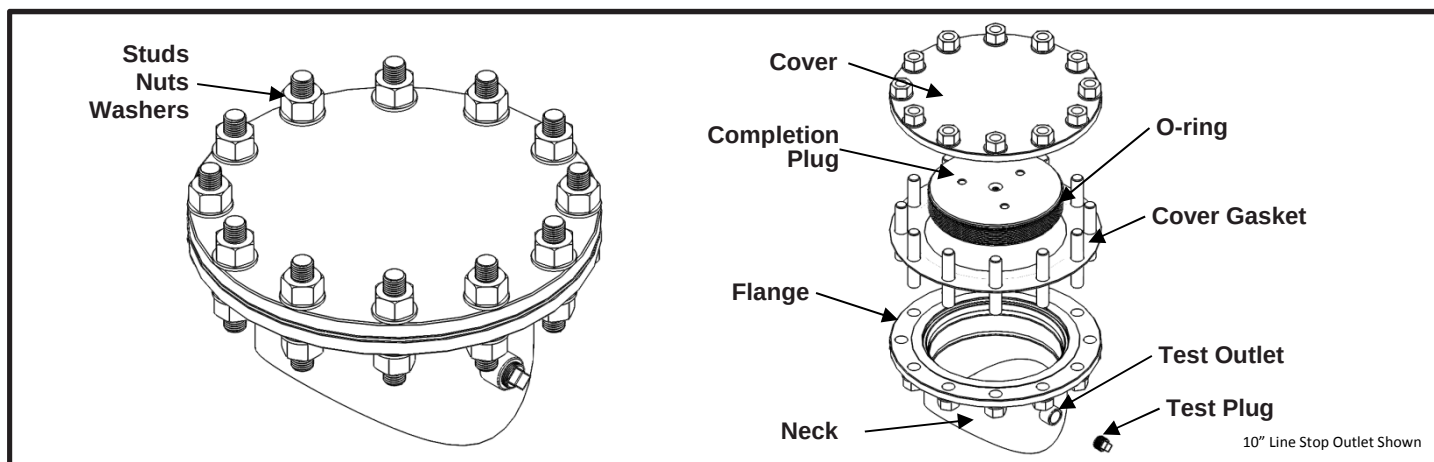


SPECIFICATION

LINE STOP OUTLET

MODEL 680



APPLICATIONS

- **Typical Uses**
 - Replaces flanged outlet on standard tapping sleeves for line stopping and plugging, to temporarily shut off flow in a live pipeline
- **Pipe Size**
 - 4" thru 16"
- **Outlet Size**
 - 4" to 12"
- **Type of Pipe (see notes)**
 - Carbon Steel, Stainless Steel, Cast Iron, Asbestos Cement, PVC, HDPE, Ductile Iron
- **Working Pressure / Test Pressure (see notes)**
 - 150 PSI / 225PSI or max pressure rating of tapping sleeve

MATERIALS

- **Completion Plug**
 - Cast using Ductile Iron per ASTM A536
 - Flexi-Coat[®] fusion bonded epoxy finish which meets application methods AWWA C213
 - Designed for use with Severn Trent / Hydra-Stop style equipment only (*see notes*)
- **Cover (customer to define cover application)**
 - Cover Plate
 - Carbon Steel per ASTM A283C
 - Implemented as a dust or debris deterrent only (not designed for pressure sealing applications)
 - Compatible with ANSI 125# and 150# bolt hole patterns
 - Pressure Flange
 - Carbon Steel per ASTM A36
 - Designed for pressure sealing applications
 - Compatible with ANSI 125# and 150# bolt hole patterns
- **Outlet Body**
 - Neck
 - Material: See applicable tapping sleeve design
 - Machined from extra heavy Sch. 80 pipe
 - Furnished with 3/4" NPT test outlet
 - See spec drawing for ID dimension

SPECIFICATION

LINE STOP OUTLET

MODEL 680

- **Flange**
 - o Material: See applicable tapping sleeve design
 - o ANSI 150# Raised Face (RF) Slip On
 - o Recessed for tapping valve alignment per MSS SP-60
- **Test Outlet**
 - o Material: See applicable tapping sleeve design
- **Welding**
 - o Welds accomplished using qualified welders
 - o GMAW weld process utilized
- **Gaskets**
 - **O-ring**
 - o Nitrile (Buna-N) per ASTM D2000
 - o Compounded to resist water, oil, acids, alkalies, most (aliphatic) hydrocarbon fluids, and many other chemicals
 - o Temperature range: -20°F to +180°F
 - **Cover Gasket**
 - o Styrene-Butadiene (SBR) “Red Rubber”
 - o Gasket Thickness: 0.125”
 - o Compounded to resist water, oil, acids, alkalies, most (aliphatic) hydrocarbon fluids, and many other chemicals
 - o Full face ANSI 150# bolt pattern
- **Hardware**
 - **Stud**
 - o Carbon Steel per ASTM A193 grade B7
 - o Size:
 - 4” outlet(s) = 5/8”-11UNC x 5” long, All Thread
 - 6”-8” outlet(s) = 3/4”-10UNC x 4” long, All Thread
 - 10”-12” outlet(s) = 7/8”-09UNC x 6” long, All Thread
 - o Rolled threads for improved physical characteristics, greater thread accuracy and smooth surface finish
 - **Nut**
 - o Carbon Steel per ASTM A194
 - o Size:
 - 4” outlet(s) = 5/8” Heavy Hex Semi-Finished
 - 6”-8” outlet(s) = 3/4” Heavy Hex Semi-Finished
 - 10”-12” outlet(s) = 7/8” Heavy Hex Semi-Finished
 - **Washer**
 - o Carbon Steel per ASTM F844
 - o Size:
 - 4” outlet = 5/8” Type A Plain
 - 6”-8” outlet = 3/4” Type A Plain
 - 10”-12” outlet = 7/8” Type A Plain
 - o Utilized to preserve corrosion resistance of epoxy coated surfaces and increase bearing surface



SPECIFICATION

LINE STOP OUTLET

MODEL 680

OPTIONS

- Other materials of construction for cover plate (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.)
- Certified to NSF/ANSI 61-G & 372
- Custom neck length

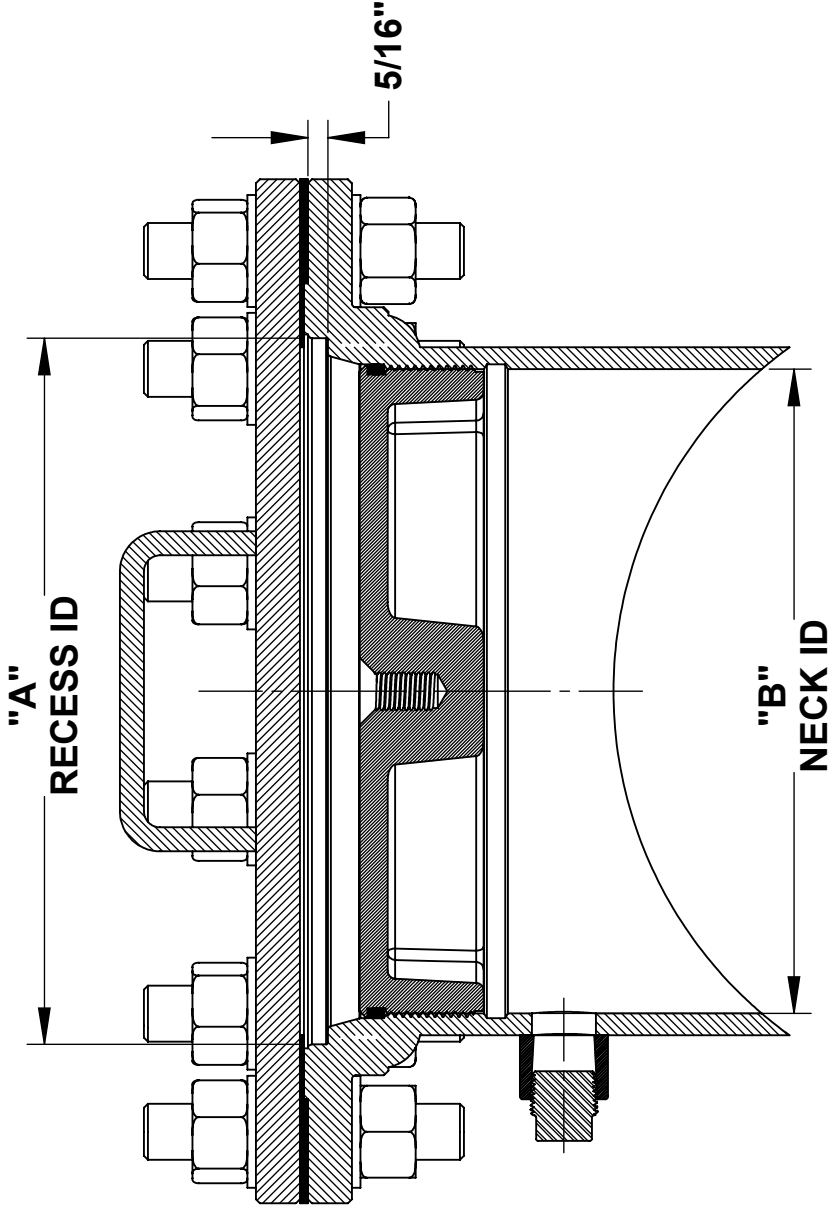
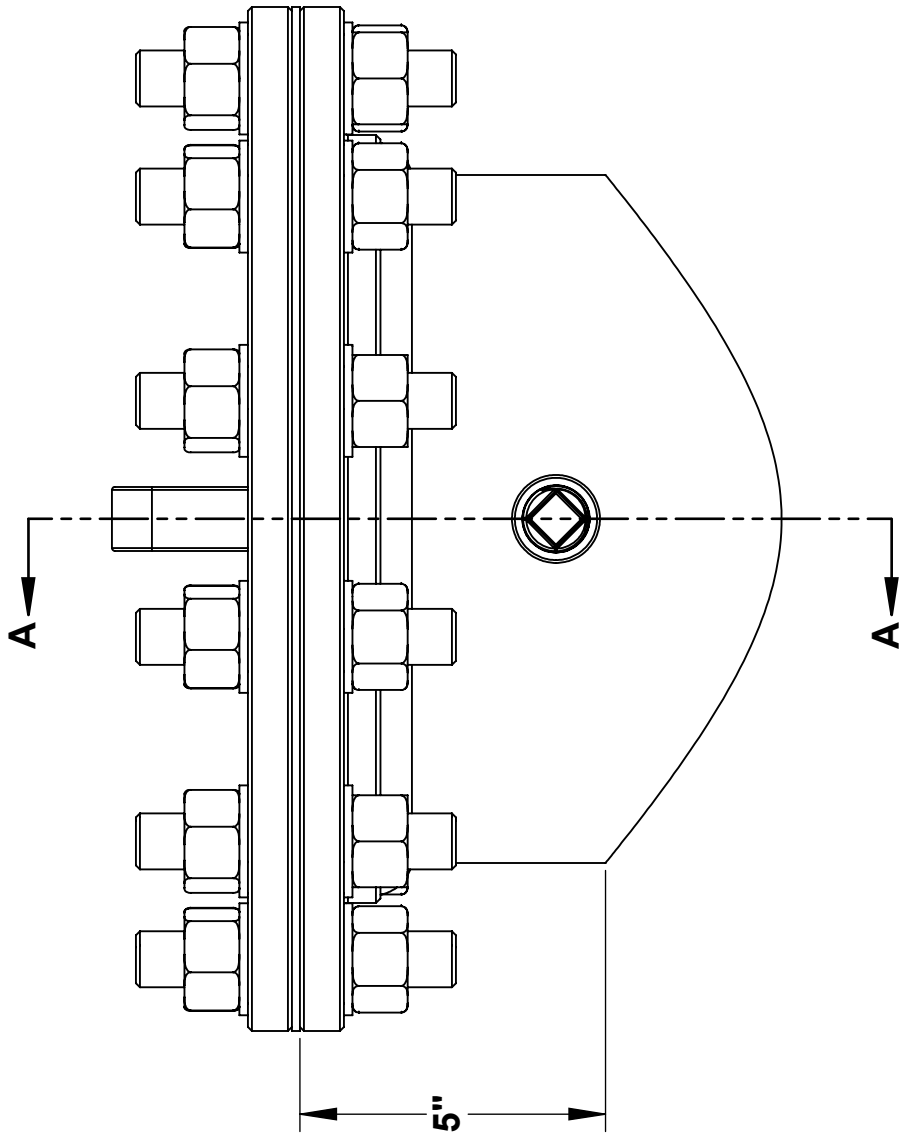
NOTES

- Valve adapter plates may be required for use with some sizes of Severn Trent / Hydra-Stop style equipment
- 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
- Reference applicable tapping sleeve model number specifications for more details and product warnings.
- **Part Number Series:**

LINE STOP MODEL	TAPPING SLEEVE BODY STYLE
682	662
683	663
684	664
685	665
687	622
689	625

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

WRENCH SIZE CHART			
5/8"-11UNC HH NUT	1-1/16"		
3/4"-10UNC HH NUT	1-1/4"		
7/8"-09UNC HH NUT	1-7/16"		
3/4" SQ. PLUG	5/8"		



SECTION A-A

- NOTES:
- SEE SMITH-BLAIR CATALOG FOR MORE DETAILS
 - 10" 150# FLG LINE STOP OUTLET SHOWN OTHER SIZES SIMILAR
 - FLANGE RECESS MEETS MSS SP-60 SPECIFICATIONS
 - REFERENCE APPLICABLE TAPPING SLEEVE MODEL NUMBER SPECIFICATIONS FOR MORE DETAILS

OUTLET SIZE	A	B	HARDWARE	
			QTY.	SIZE
4	5.06	3.94	8	5/8" x 5.00"
6	7.06	6.06	8	3/4" x 4.00"
8	9.06	8.06	8	3/4" x 4.00"
10	11.09	10.06	12	7/8" x 6.00"
12	13.09	12.06	12	7/8" x 6.00"

TOLERANCES U.N.O. XX= +.03 XXX= +.015 FRACTIONS= ANGLES=+1° MACH. FIN=	NOTES: REMOVE BURRS AND SHARP EDGES DO NOT SCALEDWG.	APP'D	DATE	
		CK'D	DATE	
	SCALE: N/A	DRN	CHD	DATE 1/20/15

TITLE	SPECIFICATION LINE STOP OUTLET MODEL 680			
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SMITH-BLAIR, Inc. TEXARKANA, ARKANSAS	P/N		N/A	
	SPEC_680.DRW		1 OF 1	5/5/16 SHEET REV.