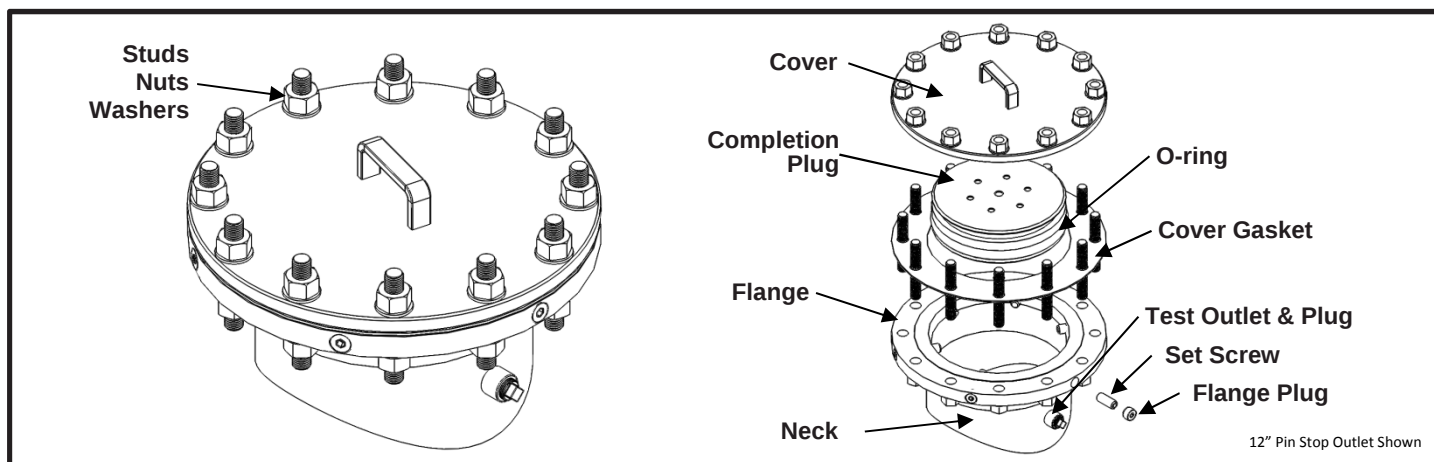


SPECIFICATION

PIN LINE STOP OUTLET

MODEL 687



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**
 - 12" and up
- **Outlet Size**
 - 12" to 24"
- **Type of Pipe (see notes)**
 - Carbon Steel, Stainless Steel, Cast Iron, Asbestos Cement, PVC, Ductile Iron, PCCP
- **Working Pressure / Test Pressure (see notes)**
 - 150 PSI / 225 PSI or max pressure rating of tapping sleeve

MATERIALS

- **Completion Plug**
 - Carbon Steel per ASTM A36
 - Flexi-Coat[®] fusion bonded epoxy finish which meets application methods AWWA C213
- **Design Cover**
 - Carbon Steel per ASTM A36
 - Designed for pressure sealing applications
 - Compatible with ANSI 125# and 150# bolt hole patterns
 - Integral handle welded on for convenience during installation
- **Outlet Body**
 - **Neck**
 - o Material: See applicable tapping sleeve design
 - o Extra heavy 3/8" wall
 - o See spec drawing for ID dimension
 - **Flange**
 - o Material: See applicable tapping sleeve design
 - o ANSI 150# Raised Face (RF) Weld Neck

SPECIFICATION

PIN LINE STOP OUTLET

MODEL 687

- **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**
 - **Set Screw**
 - o HSLA Carbon Steel
 - o 3/4”-10UNC-2A x 2”, Socket Head Cup Point
 - o Engages and retains completion plug
 - **Flange Plug**
 - o Carbon Steel
 - o 3/4” NPT Socket Head
 - o Designed to seal flange pressure
 - **Stud**
 - o Carbon Steel per ASTM A193 grade B7
 - o Size:
 - 12” outlet(s) = 0.88”-09UNC x 6” long, All Thread
 - 14”-16” outlet(s) = 1.00”-08UNC x 6” long, All Thread
 - 18”-20” outlet(s) = 1.13”-08UN x 7” long, All Thread
 - 24” outlet(s) = 1.25”-08UN x 7” 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:
 - 12” outlet(s) = 0.88” Heavy Hex Semi-Finished
 - 14”-16” outlet(s) = 1.00” Heavy Hex Semi-Finished
 - 18”-20” outlet(s) = 1.13” Heavy Hex Semi-Finished
 - 24” outlet(s) = 1.25” Heavy Hex Semi-Finished
 - **Washer**
 - o Carbon Steel per ASTM F844
 - o Size:
 - 12” outlet(s) = 0.88” Type A Plain
 - 14”-16” outlet(s) = 1.00” Type A Plain
 - 18”-20” outlet(s) = 1.13” Type A Plain
 - 24” outlet(s) = 1.25” Type A Plain
 - o Utilized to preserve corrosion resistance of epoxy coated surfaces and increase bearing surface



SPECIFICATION

PIN LINE STOP OUTLET

MODEL 687

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
- High working pressure design

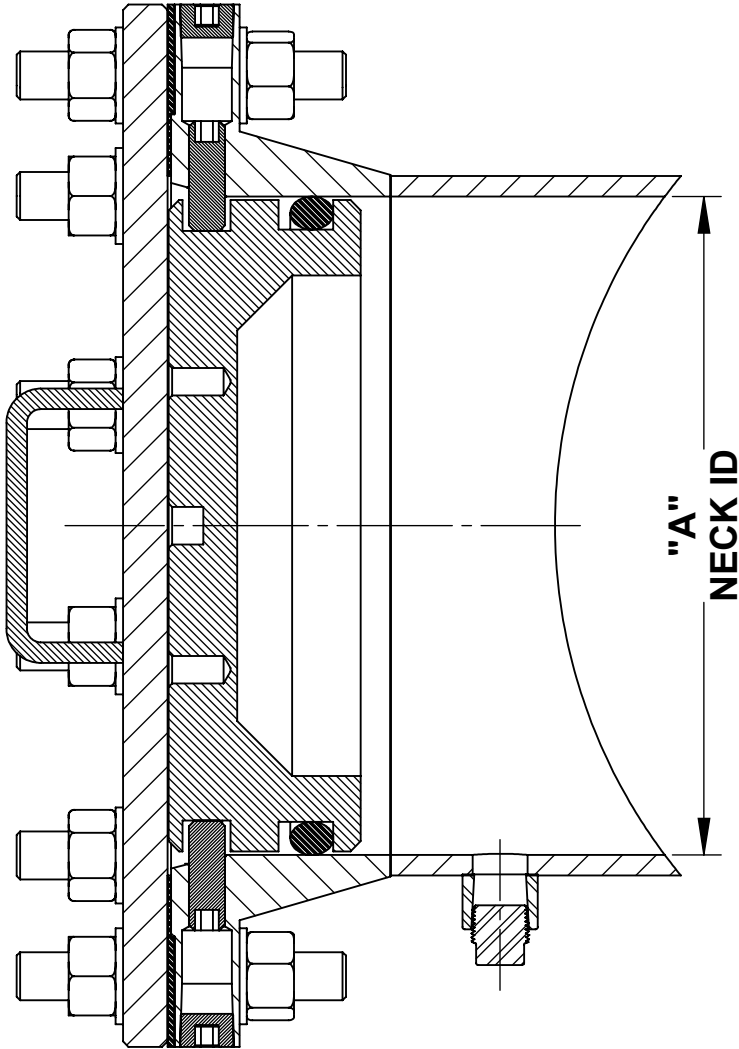
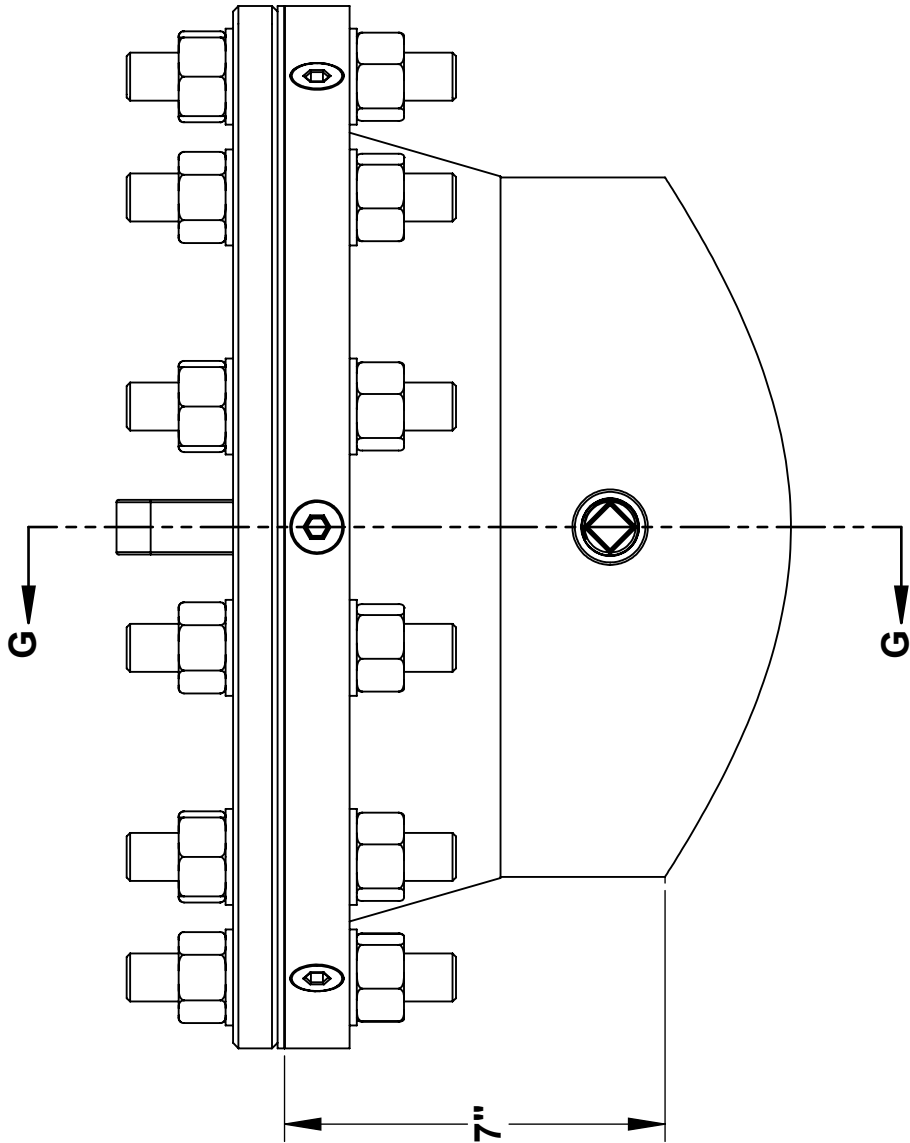
NOTES

- 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 warnings
- Reference applicable tapping sleeve model number specifications for more details and product warnings.
- **Part Number Series:**

LINE STOP MODEL	TAPPING SLEEVE BODY STYLE
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		
0.88"-09UNC HH NUT	1-7/16"	
1.00"-08UNC HH NUT	1-5/8"	
1.13"-08UN HH NUT	1-13/16"	
1.25"-08UN HH NUT	2"	
3/4" SQ. PLUG	5/8"	



SECTION G-G

OUTLET SIZE	A	HARDWARE	
		QTY.	SIZE
12	12.00	12	0.88" x 6.00"
14	13.25	12	1.00" x 6.00"
16	15.25	16	
18	17.25	16	1.13" x 7.00"
20	19.25	20	
24	23.25	20	1.25" x 7.00"

- NOTES:
- SEE SMITH-BLAIR CATALOG FOR MORE DETAILS
 - 12" 150# FLG PIN STOP OUTLET SHOWN OTHER SIZES SIMILAR
 - REFERENCE APPLICABLE TAPPING SLEEVE MODEL NUMBER SPECIFICATIONS FOR MORE DETAILS

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	DATE 1/20/15
TITLE SPECIFICATION PIN LINE STOP OUTLET MODEL 687				
SMITH-BLAIR, Inc. TEXARKANA, ARKANSAS		P/N		N/A
		SPEC_687.DRW DWG. NO.		1 OF 1 SHEET 5/5/16 REV.