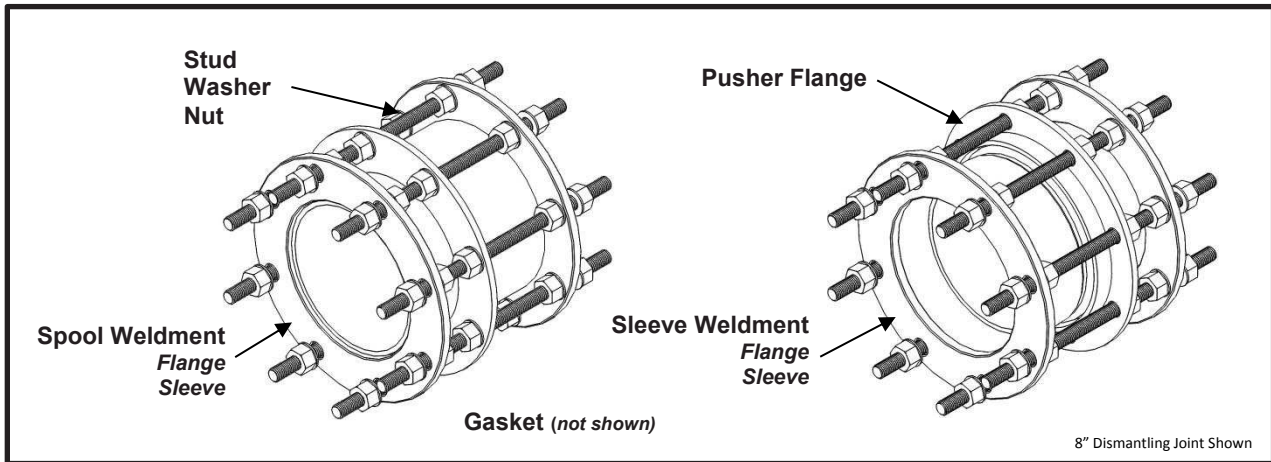


SPECIFICATION

HEAVY DUTY DISMANTLING JOINT (RESTRAINED)

MODEL 972



APPLICATIONS

- **Typical Uses**
 - Joining and restraining flanged fittings, pumps, meters, valves, or other miscellaneous flanged service equipment
 - Ideal for connecting butterfly/wafer valves or pumps requiring service for maintenance
- **Standard Pipe Sizes**
 - 3" & Larger
- **Type of Pipe**
 - Any flanged pipe or fittings
- **Working Pressure**
 - 3" – 12" nominal pipe size(s) = 175 psi
 - 14" and greater nominal pipe size(s) = 150 psi
 - *See options for higher working pressure design*

MATERIALS

- **Pusher Flange**
 - Carbon Steel per ASTM A36 and/or A283C
 - Flexi-Coat[®] fusion bonded epoxy finish
 - Bolt hole pattern matches AWWA C207 150# drilling
- **Sleeve Weldment**
 - **Sleeve**
 - Material: 3 - 5" nominal pipe size(s) = Carbon Steel per ASTM A513 or A53
 - 6" and larger nominal pipe size = Carbon Steel per ASTM A283C
 - Flexi-Coat[®] fusion bonded epoxy finish
 - Larger O.D. sleeves provided with hanging ring(s) for ease of installation
 - **Flange**
 - Carbon Steel per ASTM A36
 - AWWA C207 Class D 150#
- **Spool Weldment**
 - **Sleeve**
 - Material: 3 - 6" nominal pipe size(s) = Carbon Steel per ASTM A513 or A53
 - 8" and larger nominal pipe size(s) = Carbon Steel per ASTM A283C
 - Flexi-Coat[®] fusion bonded epoxy finish



SPECIFICATION

HEAVY DUTY DISMANTLING JOINT (RESTRAINED)

MODEL 972

-
- Nominal sizes 18"-24" spool weldment sleeve are expanded larger than through-bore at flange end only. All other sizes are through-bore design.
 - Telescoping design allows spool weldment to travel through sleeve weldment
 - **Flange**
 - Carbon Steel per ASTM A36
 - AWWA C207 Class D 150#
 - **Gasket**
 - 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
 - **Studs**
 - Carbon Steel per ASTM A193 B7
 - Size: 3" – 5" nominal pipe size(s) = 5/8"-11UNC, 14.00", All Thread
 - 6" – 8" nominal pipe size(s) = 3/4"-10UNC, 16.00", All Thread
 - 10" – 12" nominal pipe size(s) = 7/8"-9UNC, 17.00", All Thread
 - 14" – 16" nominal pipe size(s) = 1"-8UNC, 20.00", All Thread
 - 18" – 20" nominal pipe size(s) = 1-1/8"-8UN, 20.00", All Thread
 - 24" – 30" nominal pipe size(s) = 1-1/4"-8UN, 22.00", All Thread
 - 36" – 42" nominal pipe size(s) = 1-1/2"-UN, 23.00", All Thread
 - 48" nominal pipe size = 1-1/2"-8UN, 26.00", All Thread
 - 54" nominal pipe size = 1-3/4"-8UN, 26.00", All Thread
 - 60" nominal pipe size = 1-3/4"-8UN, 30.00", All Thread
 - 66" – 72" nominal pipe size(s) = 1-3/4"-8UN, 33.00", All Thread
 - Rolled threads for improved physical characteristics, greater thread accuracy, and smooth surface finish
 - **Nut**
 - Carbon Steel per ASTM A194
 - Sized to mating stud
 - Heavy Hex Semi-Finished
 - **Washer**
 - Carbon Steel per ASTM F844
 - Fe/Zn coated per ASTM F1941-10
 - Sized to mating stud
 - Type A Plain
 - Utilized to preserve corrosion resistance of epoxy coated surfaces and increase bearing surface



SPECIFICATION

HEAVY DUTY DISMANTLING JOINT (RESTRAINED)

MODEL 972

LISTINGS

- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Meets applicable portions of AWWA C219
- Fusion-Bonded Epoxy Coating meets requirements of AWWA C213

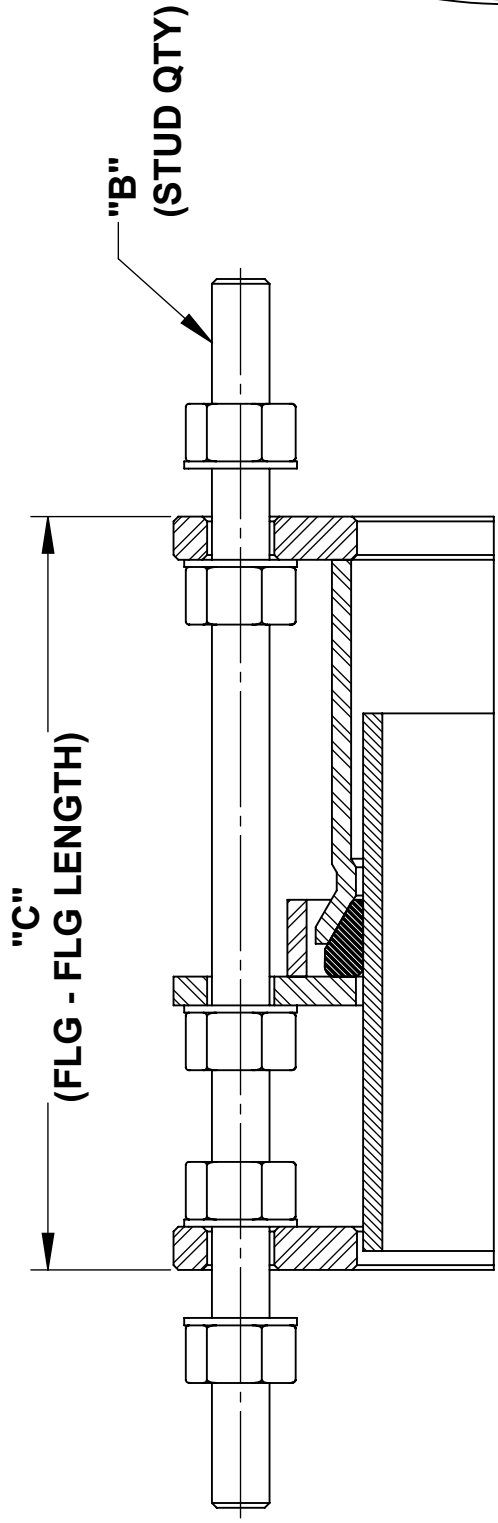
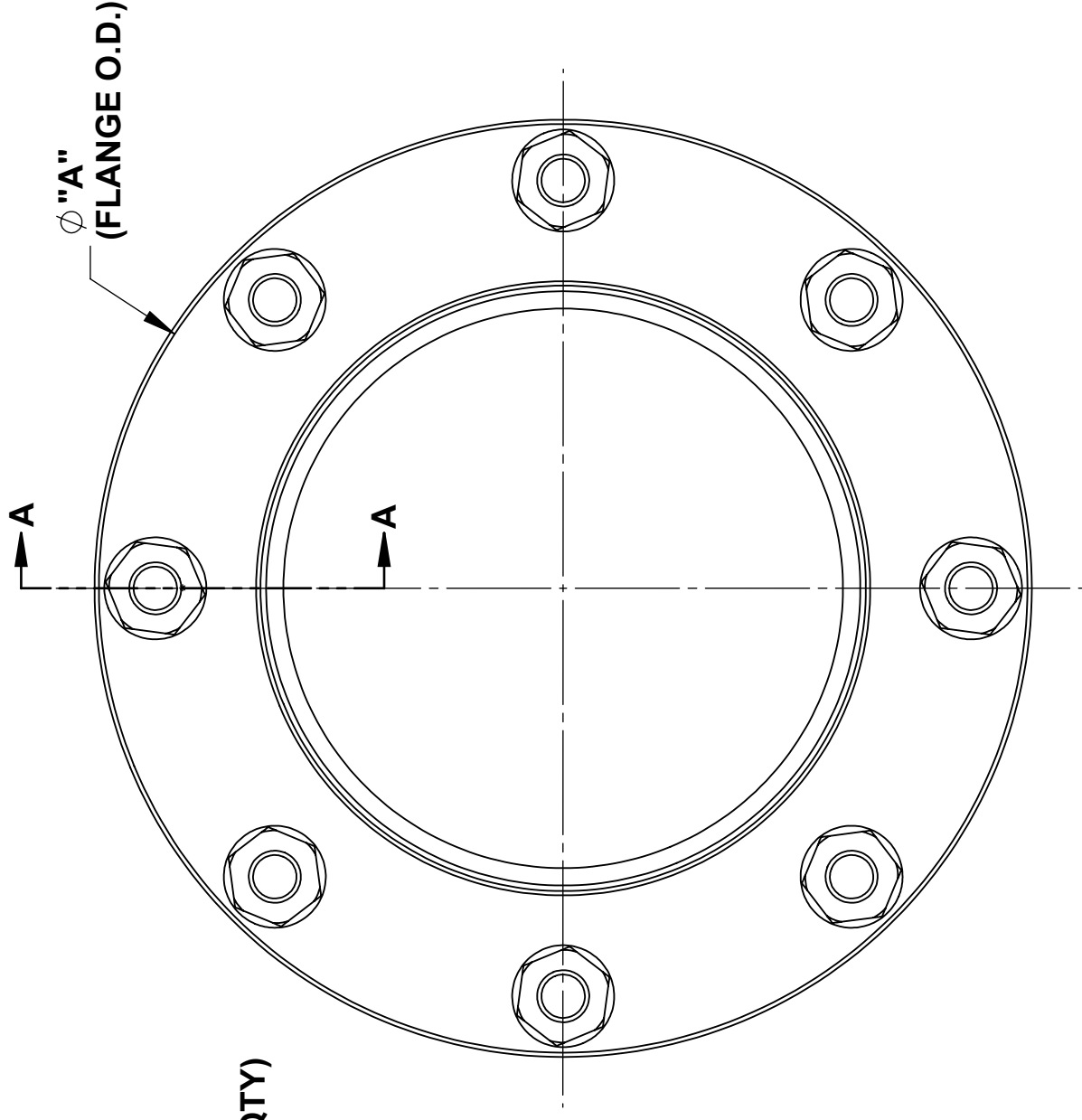
OPTIONS

- 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.)
- Anode connector
- Higher working pressure design
- Custom flange to flange lengths
- Any industry standard flange
- Reducing joints

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 website for part numbers and ordering information
- See the Smith-Blair website for warranty information
- See the Smith-Blair website for corrosion notice

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SECTION A-A

NOTES:

1. SEE SMITH-BLAIR CATALOG FOR ADDITIONAL DETAILS
2. 8" STANDARD LENGTH DISMANTLING JOINT SHOWN OTHER SIZES SIMILAR
3. NOMINAL SIZES 18"-24" SPOOL WELDMENT SLEEVE ARE EXPANDED LARGER THAN THROUGH-BORE AT FLANGE END ONLY. ALL OTHER SIZES ARE THROUGH-BORE DESIGN AS SHOWN.

NOM. PIPE SIZE	APPROX. WEIGHT (LBS)	C		
		MINIMUM	NOMINAL	MAXIMUM
3	50			
4	55	8.00	9.00	10.00
6	84			
8	105			
10	117	9.00	10.00	11.00
12	158			
14	235			
16	302			
18	352			
20	426	11.00	12.00	13.00
24	531			
30	771			
36	1156			
42	1521	12.00	13.00	14.00
48	1886			
54	2936	12.00	13.00	14.00
60	3733	15.00	16.00	17.00
66	4168			
72	5780	17.00	18.00	19.00

WRENCH SIZE CHART	
NUT	SIZE
5/8"-11UNC HH	1-1/16"
3/4"-10UNC HH	1-1/4"
7/8"-9UNC HH	1-7/16"
1"-8UNC HH	1-5/8"
1-1/8"-8UNC HH	1-13/16"
1-1/4"-8UNC HH	2"
1-1/2"-8UNC HH	3-3/8"
1-3/4"-8UNC HH	2-3/4"

TOLERANCES U.N.O. XX= ±.03 XXX= ±.015 FRACTIONS= ±.01 ANGLES= ±1° MACH. FIN=	NOTES: REMOVE BURRS AND SHARP EDGES DO NOT SCALE DWG.	APP'D CK'D DRN	DATE DATE DATE	SCALE: N/A	CHD DATE 11/16/15
TITLE SPECIFICATION HEAVY DUTY DISMANTLING JOINT (RESTRAINED) MODEL 972					
SMITH-BLAIR, Inc. TEXARKANA, ARKANSAS			P/N N/A	DWG. NO. SPEC_972.DRW 1 OF 1 SHEET 9/21/16 REV.	