

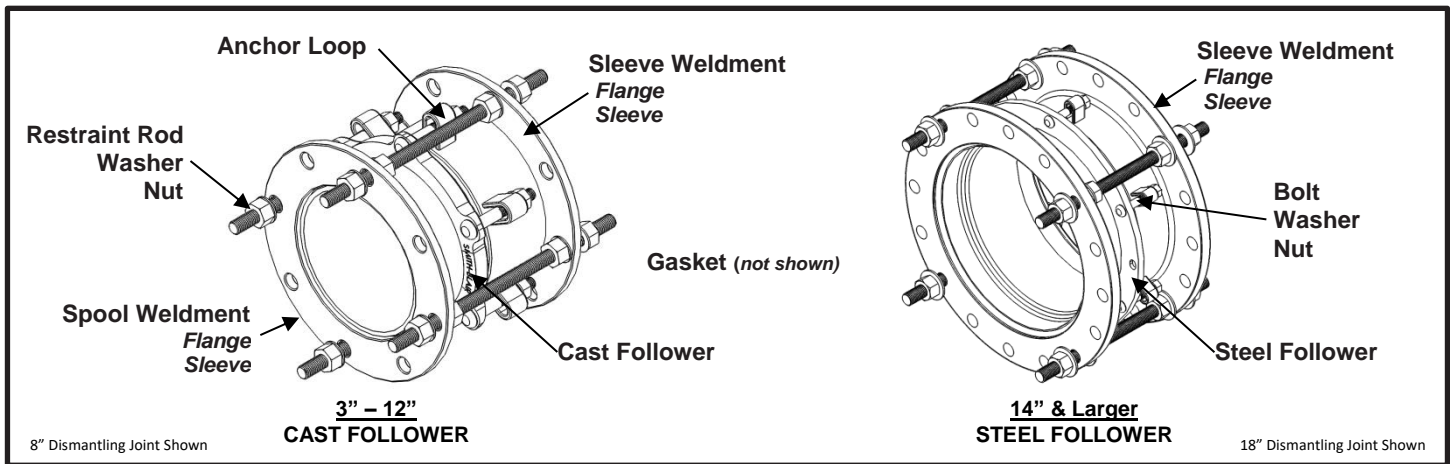


Smith-Blair
a xylem brand

SPECIFICATION

DISMANTLING JOINT (RESTRAINED)

MODEL 975



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

- **Followers**
 - **Cast Follower (3" – 12")**
 - Cast using Ductile Iron 65-45-12 per ASTM A536
 - Flexi-Coat® fusion bonded epoxy finish
 - Permanently marked with part number and pipe size range for proper selection
 - Integral bolt head pocket for one wrench installation
 - **Steel Follower (14" & Larger)**
 - Carbon Steel C1020 per ASTM A576 or A36 or A283C
 - Flexi-Coat® fusion bonded epoxy finish
 - Integral bolt head pocket for one wrench installation
- **Sleeve Weldment**
 - **Sleeve**
 - Material: 3 - 5" nominal pipe size(s) = Carbon Steel per ASTM A513 or A53
 - 6" and larger nominal pipe size(s) = 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#



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- **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
 - 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
- **Anchor Loop**
 - Carbon Steel per ASTM A36
- **Bolts**
 - High Strength Low Alloy (HSLA) Steel per AWWA C111/A21.11
 - 5/8"-11UNC, 4.50", Oval Neck Track Head
 - Rolled threads for improved physical characteristics, greater thread accuracy, and smooth surface finish
- **Restraint Rod**
 - HSLA Steel per ASTM A193 B7
 - Sizes: 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(s) = 1-1/2"-8UN, 26.00", All Thread
54" nominal pipe size(s) = 1-3/4"-8UN, 26.00", All Thread
60" nominal pipe size(s) = 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
- **Nuts**
 - HSLA Steel per ASTM A194 Grade 2H
 - Sized to mating bolt/restraint rod
 - Heavy Hex Semi-Finished
- **Washers**
 - Carbon Steel per ASTM F844
 - Fe/Zn coated per ASTM F1941-10
 - Sized to mating bolt/restraint rod
 - Utilized to preserve corrosion resistance of epoxy coated surfaces and increase bearing surface



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LISTINGS/STANDARDS

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

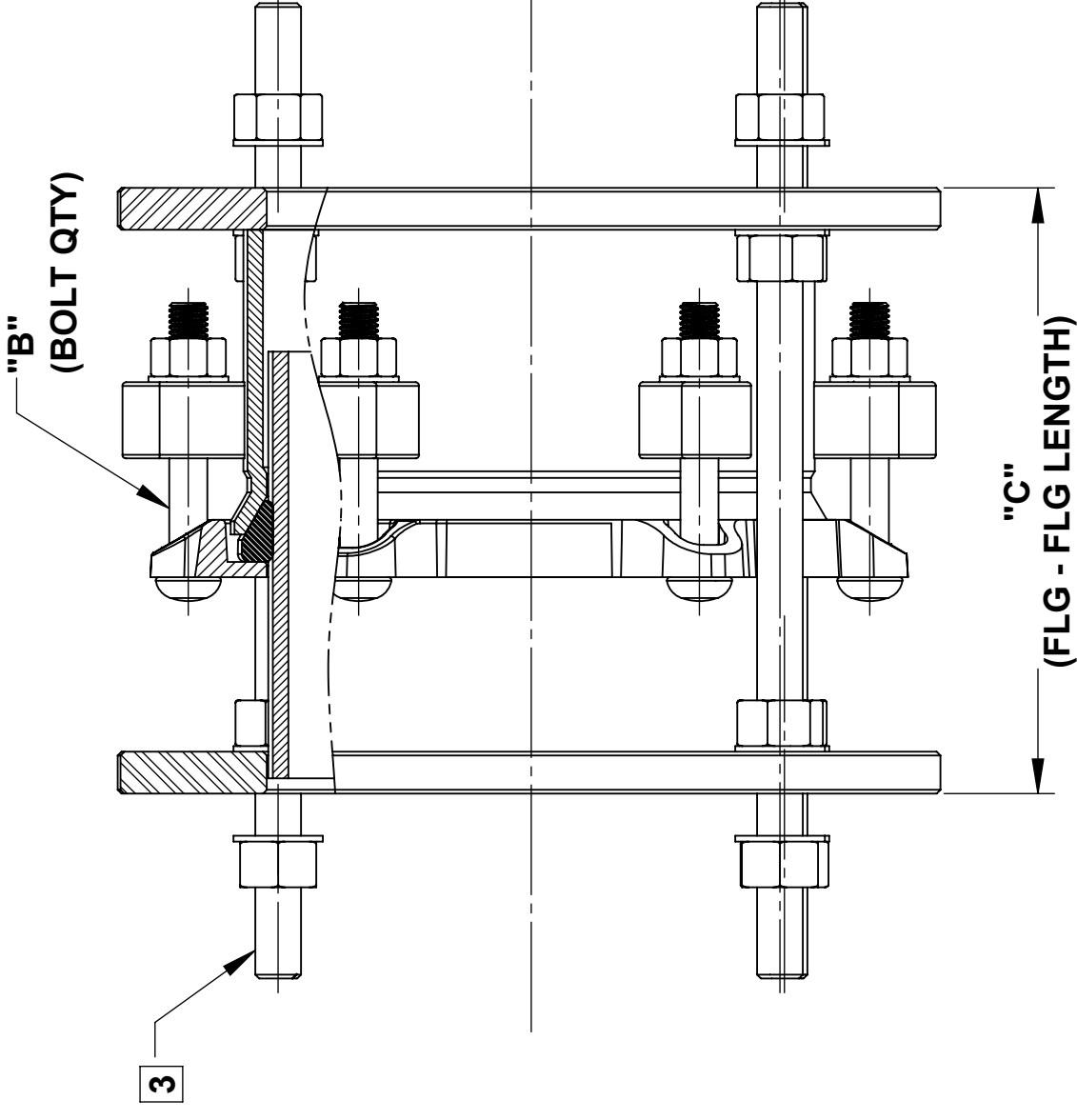
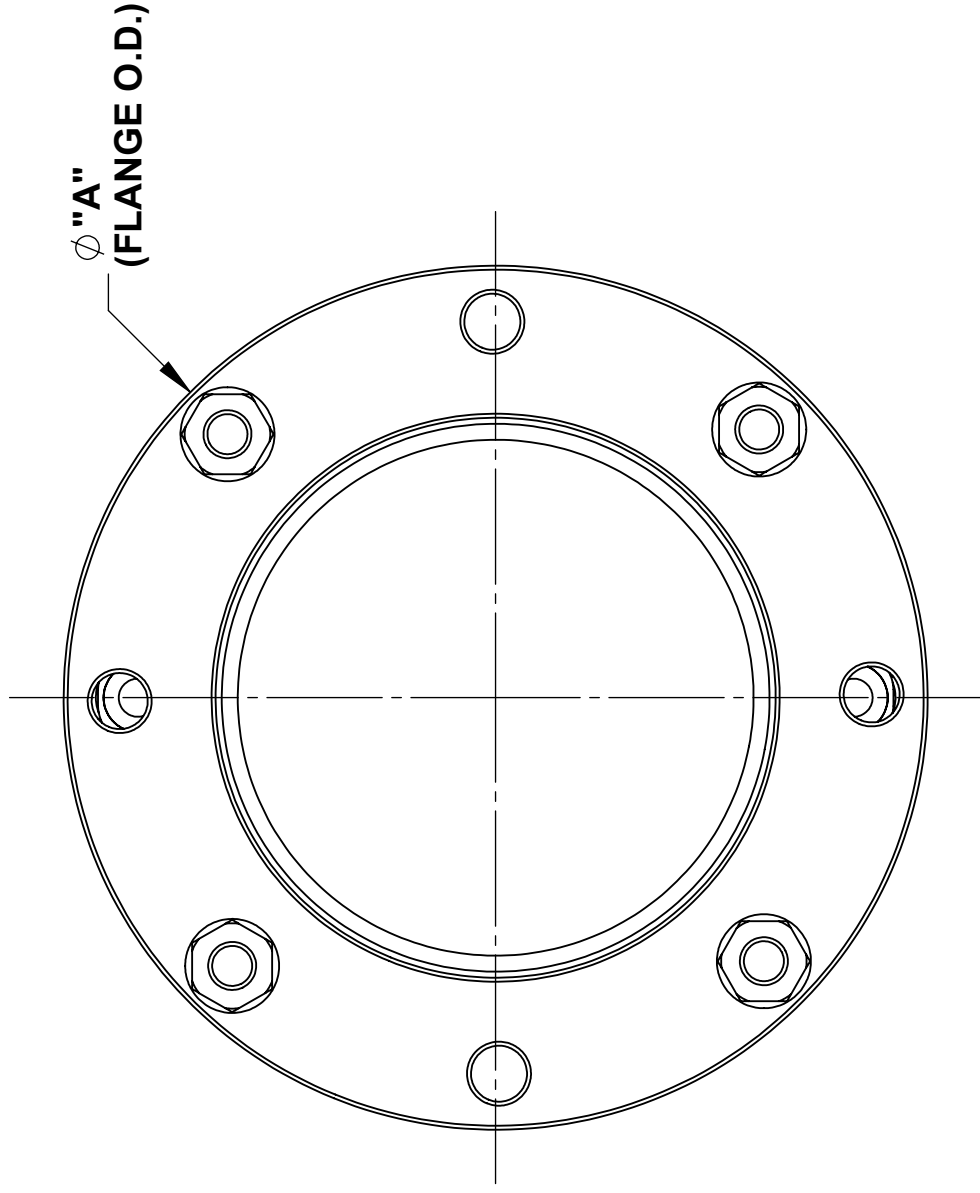
OPTIONS

- 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
- Pipe stops incorporated into sleeve
- 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

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



3" - 12" CAST FOLLOWER

NOTES:

1. SEE SMITH-BLAIR CATALOG FOR ADDITIONAL DETAILS
2. 8" STANDARD LENGTH DISMANTLING JOINT SHOWN OTHER SIZES SIMILAR
- 3 RESTRAINT ROD QTY BASED ON SYSTEM DESIGN WORKING PRESSURE

NOM. PIPE SIZE	APPROX. WEIGHT (LBS)	A	B	C		
				MINIMUM	NOMINAL	MAXIMUM
3	28	7.50	2	8.00	9.00	10.00
4	30	9.00	4			
6	48	11.00	6			
8	64	13.50	6			
10	79	16.00	8	9.00	10.00	11.00
12	116	19.00	8			

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"-8UN HH	1-13/16"

TOLERANCES U.N.O. XX= ±.03 XXX= ±.015 FRACTIONS= ±.01 ANGLES= ±1° MACH. FIN= ALL DIMENSIONS ARE IN INCHES.	NOTES: REMOVE BURRS AND SHARP EDGES DO NOT SCALE DWG.	APP'D CK'D DRN	DATE DATE DATE	CHD 11/16/15	
TITLE SPECIFICATION DISMANTLING JOINT (RESTRAINED) MODEL 975					
 a xylem brand			P/N N/A		
			SPEC_975.DRW <small>DWG. NO.</small>		1 OF 2 SHEET <small>REV.</small> 9/21/16

