# 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 and A36
    - 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#
**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**
  - Carbon 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”-8UN, 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**
  - Carbon 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
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
- 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
CAST Follower

3" - 12"

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

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<th>C</th>
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<tr>
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<td>1-1/8&quot;-8UNC HH</td>
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WRENCH SIZE CHART
14" & LARGER STEEL FOLLOWER

NOTES:
1. SEE SMITH-BLAIR CATALOG FOR ADDITIONAL DETAILS
2. 18" STANDARD LENGTH DISMANTLING JOINT SHOWN OTHER SIZES SIMILAR
3. RESTRAINT ROD QTY BASED ON SYSTEM DESIGN WORKING PRESSURE

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WRENCH SIZE CHART

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<tr>
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SMITH-BLAIR, Inc.
TEXARKANA, ARKANSAS

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DISMANTLING JOINT (RESTRAINED)
MODEL 975

TOLERANCES U.N.O. APPLIED TO HOLES AND Threads.
NOTES: ALL DIMENSIONS ARE IN INCHES.
.03 = .XX
.015 = .XXX
FRACTIONS =
ANGLES =
MACH. FIN =

REV. 1/16/15
SMITH-BLAIR, Inc.
SPEC_975.DRW
N/A
N/A
N/A
N/A
11/16/15
9/21/16
SKF