SPECIFICATION
PIPE-LOCK™ STEEL RESTRAINT COUPLING
MODEL 473

APPLICATIONS

- Typical Uses
  - Transition and restrain plain-end PVC pipe end to plain-end D.I. pipe end
  - Transition and restrain plain-end PVC pipe end to plain-end Steel pipe end

- Standard Pipe Size
  - DI sized 4” - 36” nominal
  - IPS sized 3” - 12” nominal

- Type of Pipe
  - Ductile Iron, Carbon Steel
  - PVC

  Suitable applications for PVC are limited to SDR 26 or heavier wall pipe as defined by ASTM D2241

- Working Pressure
  - Ductile Iron or Carbon Steel
    - DI pipe sizes 4” - 16” = 350 psi, 18” - 36” = 250 psi
    - IPS pipe sizes 3” - 12” = 250 psi
  - PVC
    - Rated at pressure rating of the PVC pipe installed on
      - DI pipe sizes 4” - 24” = 235 psi, 30” = 150 psi, 36” = 125 psi
      - IPS pipe sizes 3” - 12” = 250 psi

  The pressure rating for Pipe-Lock will be the lower of the two pipes when coupling/restraining together pipes with different pressure ratings.

MATERIALS

- Sleeve Weldment
  - See 477 specification document

- Restrainer
  - See 111 and 120 specification document

- Gasket
  - Styrene Butadiene Rubber (SBR) per AWWA C111/A21.11
  - Compounded to resist water, oil, natural gas, acids, alkalis, most (aliphatic) hydrocarbon fluids and many other chemicals
  - Temperature range: -20°F to +180°F
  - Permanently marked with part number and pipe size range for proper selection
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- Stud
  - HSLA Carbon Steel per AWWA C111/A21.11 and/or ASTM A193 GRB7
  - Size: 3” nominal pipe size = 5/8” – 11 UNC
    4” – 24” nominal pipe size = 3/4” – 10 UNC
    30” – 36” nominal pipe size = 1-0” – 8 UNC
  - Rolled threads for improved physical characteristics, greater thread accuracy and smooth surface finish
- Washer
  - Carbon Steel per ASTM A108
  - Electro-galvanized with dichromate seal per ASTM B633 for improved corrosion resistance
  - Size: 3” nominal pipe size = 5/8” Type A Plain
    4” – 24” nominal pipe size = 3/4” Type A Plain
    30” – 36” nominal pipe size = 1-0” Type A Plain
  - 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
- Flexi-Coat® Fusion-Bonded Epoxy Coating meets requirements of AWWA C213

OPTIONS
- Type 304 Stainless Steel hardware with fluoropolymer coated nuts to prevent galling
- Type 316 Stainless Steel hardware with fluoropolymer coated nuts to prevent galling
- Multi-Seal Gasket 4” - 12”
- Alternative gasket material (e.g. Buna-N, EPDM, etc.)

NOTES
- These product specifications were correct at the time of publication and are subject to change without notice
- Pipe-Lock™ is a trademark of Smith-Blair Inc.
- 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 notice
NOTES:

1. SEE SMITH-BLAIR CATALOG FOR ADDITIONAL DETAILS
2. 6" COUPLING SHOWN OTHER SIZES SIMILAR
3. SEE MODEL 477, 111, AND 120 SPECIFICATIONS FOR ADDITIONAL DETAILS