



Pipe-Lock™

470 Series Components Chart

Gasket

| NOMINAL PIPE SIZE INCHES | DUCTILE IRON | | IPS | | MULTI-SEAL | |
|--------------------------|--------------|------------------|-------|------------------|-------------|------------------|
| | OD | CATALOG NUMBER | OD | CATALOG NUMBER | OD | CATALOG NUMBER |
| 3 | 3.96 | 000-00038572-060 | 3.50 | 000-00038573-060 | - | - |
| 4 | 4.80 | 000-00036142-060 | 4.50 | 000-00038517-060 | 4.50-4.80 | 000-00036735-060 |
| 6 | 6.90 | 000-00036143-060 | 6.63 | 000-00038518-060 | 6.63-6.90 | 000-00036736-060 |
| 8 | 9.05 | 000-00036144-060 | 8.63 | 000-00038519-060 | 8.63-9.05 | 000-00036737-060 |
| 10 | 11.10 | 000-00036145-060 | 10.75 | 000-00038520-060 | 10.75-12.75 | 000-00036738-060 |
| 12 | 13.20 | 000-00036146-060 | 12.75 | 000-00038521-060 | 12.75-13.20 | 000-00036739-060 |
| 14 | 15.30 | 000-00038496-060 | | | | |
| 16 | 17.40 | 000-00038497-060 | | | | |
| 18 | 19.50 | 000-00038498-060 | | | | |
| 20 | 21.60 | 000-00038499-060 | | | | |
| 24 | 25.80 | 000-00038500-060 | | | | |

Studs for 7" Sleeve

| NOMINAL PIPE SIZE INCHES | STUD CATALOG NUMBER | DESCRIPTION | NUT CATALOG NUMBER | DESCRIPTION |
|--------------------------|---------------------|---|--------------------|---------------------|
| 3 | 000-00090225-005 | 5/8" x 16" All-Thread Alloy | 000-000100025-005 | 5/8" Hex Head Alloy |
| 4-24 | 101-00090241-005 | 3/4" x 18" All-Thread Alloy Set Includes 1 Stud & 2 Nuts | | |

Studs for 10" Sleeve

| NOMINAL PIPE SIZE INCHES | STUD SET CATALOG NUMBER | DESCRIPTION |
|--------------------------|-------------------------|---|
| 6-24 | 101-00090218-005 | 3/4" x 20" All-Thread Alloy. Set Includes 1 Stud & 2 Nuts. |
| 30-36 | 101-00090840-005 | 1" x 24" All-Thread Alloy. Set includes 1 Stud & 2 Nuts. |
| 42-48 | 101-00090842-005 | 1 1/4" x 24" All-Thread Alloy. Set includes 1 Stud & 2 Nuts. |

Number of Studs Required

| NOMINAL PIPE SIZE INCHES | STUD QUANTITY |
|--------------------------|---------------|
| 3 | 4 |
| 4 | 4 |
| 6 | 6 |
| 8 | 6 |
| 10 | 8 |
| 12 | 8 |
| 14 | 10 |
| 16 | 12 |
| 18 | 12 |
| 20 | 14 |
| 24 | 16 |
| 30 | 20 |
| 36 | 24 |
| 42 | 28 |
| 48 | 32 |

Studs for 16" Sleeve

| NOMINAL PIPE SIZE INCHES | STUD SET CATALOG NUMBER | DESCRIPTION |
|--------------------------|-------------------------|---|
| 30-36 | 101-00090841-005 | 1" x 30" All-Thread Alloy. Set includes 1 Stud & 2 Nuts. |
| 42-48 | 101-00090843-005 | 1 1/4" x 30" All-Thread Alloy. Set includes 1 Stud & 2 Nuts. |



Pipe-Lock™

Fabricated Steel Restraint Coupling

FOR PVC x DUCTILE IRON OR PVC x STEEL

Patents US 7484775, US 7748100, CA 2511782

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IMPORTANT LINKS

Click appropriate words to go to:

- Standard Limited Warranty
- Sales Terms & Conditions
- Freight Policy
- Returns Policy
- Corrosion & Product Selection Notice



Description: This is a fabricated Steel restraint coupling.

Application: Joins and restrains a straight transition plain end PVC to plain end Ductile Iron or plain end PVC to plain end Steel.

Materials Specifications (subject to change):

SLEEVE: ASTM A283 Gr. C or Carbon Steel having a minimum yield of 30,000 PSI

FINISH: Flexi-Coat® Fusion-Bonded Epoxy

Key Features:

- Mechanical restraint shall be an integral part of the follower gland utilizing multiple single tooth wedges
- Comes as a complete unit (sleeve, 2 Cam-Locks, 2 gaskets and appropriate number of studs) or as a sleeve only to use with your existing inventory
- Use with the Multi-Seal Gasket for more flexibility — mixing IPS and D.I. O.D. PVC
- Breakaway nut torque per wedge is 45 to 60 ft. lbs
- Coupling is rated at the working pressure shown on the next page
- Longer sleeves available

Cam-Lock™ Specifications:

GLAND: 65-45-12 Ductile Iron (ASTM A536)

WEDGES: Single Tooth, Ductile Iron, heat treated for Ductile Iron pipe applications

ACTUATING BOLTS: 60-40-18 Ductile Iron (ASTM A536)

BREAKAWAY NUTS: Carbon Steel or Cast Iron

FINISH: Gland is Flexi-Coat® Fusion-Bonded Epoxy, per AWWA C213; Wedges and actuating bolts are E-coated Epoxy

Kit Specifications:

GASKET: SBR Standard Mechanical Joint. ANSI/AWWA C111/A21.11 SBR or Multi-Seal Gasket

STUDS/NUTS: High strength, low alloy, per AWWA C111; *Optional: 304 Stainless Steel fluoropolymer-coated nuts*

Pipe Applications: PVC x Ductile Iron or PVC x Steel

Sizes (in inches):

PVC: 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 30, 36

DUCTILE IRON: 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 30, 36, 42, 48

STEEL: 3, 4, 6, 8, 10, 12

Working Pressure: See Pressure Chart on next page.

Deflection: Assembled joints into each follower gland through 12" shall allow for three degree deflection on 3", five degrees on 4"-12", two degrees 14"-24", 1.5 degrees 18"-24", one degree 30"-48".



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Fabricated Steel Restraint Coupling

FOR PVC x DUCTILE IRON OR PVC x STEEL

Patents US 7484775, US 7748100, CA 2511782

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Pipe Type and Pressure Rating (PSI)

| NOM. SIZE | PVC | DUCTILE IRON | STEEL | |
|-----------|---|--------------|-------|---|
| 3" | Rated at the pressure rating of the PVC pipe on which it is installed. See PVC pressure rating chart. | 350 | 250 | |
| 4" | | 350 | 250 | |
| 6" | | 350 | 250 | |
| 8" | | 350 | 250 | |
| 10" | | 350 | 250 | |
| 12" | | 350 | 250 | |
| 14" | | 350 | - | |
| 16" | | 350 | - | |
| 20" | | 250 | - | |
| 24" | | 250 | - | |
| 30" | | 150 | 250 | - |
| 36" | | 125 | 250 | - |
| 42" | - | 250 | - | |
| 48" | - | 250 | - | |

Pressure Ratings (PSI) for Cam-Locks™ on PVC Pipe

| ANSI/AWWA C900 D.I. OD | | ANSI/AWWA C905 D.I. OD | | ASTM D2241 IPS / STEEL OD | |
|---------------------------|-----|---------------------------|------|------------------------------|-----|
| DR 14 | 305 | DR 18 | 235 | SDR 17 | 250 |
| DR 18 | 235 | DR 25 | 165* | SDR 21 | 200 |
| DR 25 | 165 | | | SDR 26 | 160 |

*ANSI/AWWA C905 DI OD- 30":150 PSI. 36":125 PSI.

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

Examples:

- If joining 24" DI to 24" DR18 C905 PVC, the working pressure would be 235 PSI.
- If joining 8" DI to 8" Steel, the working pressure would be 250 PSI.
- If joining 36" DR25 C905 PVC to 48" DI, the working pressure would be 125 PSI.
- If joining 10" Steel to 10" SDR21 PVC pipe, the working pressure would be 200 PSI.

Straight – PVC x Ductile Iron or PVC x Steel

| NOMINAL PIPE SIZE INCHES | PIPE O.D. INCHES | | CATALOG NUMBER | SLEEVE THK. X LGTH. IN. | | STUDS | | | APPROX. SHIP WT. LBS. |
|--------------------------------|------------------|-------|------------------|-------------------------|----|-------|----------|-----------|-----------------------------|
| | PVC | DI | | A | B | NO. | DIA. IN. | LGTH. IN. | |
| 3 | 3.50 | 3.96 | 473-03500396-203 | 0.25 | 7 | 4 | 0.63 | 16 | 29 |
| 4 | *4.50-4.80 | 4.80 | 473-04800480-243 | 0.25 | 7 | 4 | 0.75 | 18 | 36 |
| 4 | 4.50 | 4.80 | 473-04500480-203 | 0.25 | 7 | 4 | 0.75 | 18 | 36 |
| 4 | 4.80 | 4.80 | 473-04800480-203 | 0.25 | 7 | 4 | 0.75 | 18 | 36 |
| 6 | *6.63-6.90 | 6.90 | 473-06900690-243 | 0.25 | 7 | 6 | 0.75 | 18 | 52 |
| 6 | *6.63-6.90 | 6.90 | 473-06900690-343 | 0.25 | 10 | 6 | 0.75 | 20 | 60 |
| 6 | 6.63 | 6.90 | 473-06630690-203 | 0.25 | 7 | 6 | 0.75 | 18 | 52 |
| 6 | 6.90 | 6.90 | 473-06900690-303 | 0.25 | 10 | 6 | 0.75 | 20 | 60 |
| 8 | *8.63-9.05 | 9.05 | 473-09050905-243 | 0.25 | 7 | 6 | 0.75 | 18 | 61 |
| 8 | *8.63-9.05 | 9.05 | 473-09050905-343 | 0.25 | 10 | 6 | 0.75 | 20 | 70 |
| 8 | 8.63 | 9.05 | 473-08630905-203 | 0.25 | 7 | 6 | 0.75 | 18 | 61 |
| 8 | 9.05 | 9.05 | 473-09050905-303 | 0.25 | 10 | 6 | 0.75 | 20 | 70 |
| 10 | *10.75-11.10 | 11.10 | 473-11101110-243 | 0.25 | 7 | 8 | 0.75 | 18 | 90 |
| 10 | *10.75-11.10 | 11.10 | 473-11101110-343 | 0.25 | 10 | 8 | 0.75 | 20 | 101 |
| 10 | 10.75 | 11.10 | 473-10751110-203 | 0.25 | 7 | 8 | 0.75 | 18 | 90 |
| 10 | 10.75 | 11.10 | 473-10751110-303 | 0.25 | 10 | 8 | 0.75 | 20 | 101 |
| 10 | 11.10 | 11.10 | 473-11101110-203 | 0.25 | 7 | 8 | 0.75 | 18 | 90 |
| 10 | 11.10 | 11.10 | 473-11101110-303 | 0.25 | 10 | 8 | 0.75 | 20 | 101 |

A= Sleeve Thickness B=Sleeve Length
* Uses Multi-Seal Gasket

Straight – PVC x Ductile Iron or PVC x Steel Continued

| NOMINAL PIPE SIZE INCHES | PIPE O.D. INCHES | | CATALOG NUMBER | SLEEVE THK. X LGTH. IN. | | STUDS | | | APPROX. SHIP WT. LBS. |
|--------------------------|------------------|-------|------------------|-------------------------|----|-------|----------|----------|-----------------------|
| | PVC | DI | | A | B | NO. | DIA. IN. | LGTH. IN | |
| 12 | *12.75-13.20 | 13.20 | 473-13201320-243 | 0.25 | 7 | 8 | 0.75 | 18 | 111 |
| 12 | *12.75-13.20 | 13.20 | 473-13201320-343 | 0.25 | 10 | 8 | 0.75 | 20 | 123 |
| 12 | 12.75 | 13.20 | 473-12751320-203 | 0.25 | 7 | 8 | 0.75 | 18 | 111 |
| 12 | 12.75 | 13.20 | 473-12751320-303 | 0.25 | 10 | 8 | 0.75 | 20 | 123 |
| 12 | 13.20 | 13.20 | 473-13201320-203 | 0.25 | 7 | 8 | 0.75 | 18 | 111 |
| 12 | 13.20 | 13.20 | 473-13201320-303 | 0.25 | 10 | 8 | 0.75 | 20 | 123 |
| 14 | 15.30 | 15.30 | 473-15301530-203 | 0.25 | 7 | 10 | 0.75 | 18 | 141 |
| 14 | 15.30 | 15.30 | 473-15301530-303 | 0.25 | 10 | 10 | 0.75 | 20 | 156 |
| 16 | 17.40 | 17.40 | 473-17401740-203 | 0.25 | 7 | 12 | 0.75 | 18 | 170 |
| 16 | 17.40 | 17.40 | 473-17401740-303 | 0.25 | 10 | 12 | 0.75 | 20 | 188 |
| 18 | 19.50 | 19.50 | 473-19501950-203 | 0.25 | 7 | 12 | 0.75 | 18 | 187 |
| 18 | 19.50 | 19.50 | 473-19501950-303 | 0.25 | 10 | 12 | 0.75 | 20 | 206 |
| 20 | 21.60 | 21.60 | 473-21602160-203 | 0.25 | 7 | 14 | 0.75 | 18 | 215 |
| 20 | 21.60 | 21.60 | 473-21602160-303 | 0.25 | 10 | 14 | 0.75 | 20 | 236 |
| 24 | 25.80 | 25.80 | 473-25802580-203 | 0.25 | 7 | 16 | 0.75 | 18 | 269 |
| 24 | 25.80 | 25.80 | 473-25802580-303 | 0.25 | 10 | 16 | 0.75 | 20 | 294 |
| 30+ | 32.00 | 32.00 | 473-32003200-303 | 0.25 | 10 | 20 | 1.00 | 24 | 647 |
| 30+ | 32.00 | 32.00 | 473-32003200-503 | 0.25 | 16 | 20 | 1.00 | 30 | 790 |
| 36+ | 38.30 | 38.30 | 473-38303830-203 | 0.25 | 10 | 24 | 1.00 | 24 | 817 |
| 36+ | 38.30 | 38.30 | 473-38303830-503 | 0.25 | 16 | 24 | 1.00 | 30 | 989 |

A= Sleeve Thickness B=Sleeve Length

* Uses Multi-Seal Gasket

+ Uses Smith-Blair MJ Gasket