



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 DUCTILE IRON OR STEEL PIPE Patents US 7484775, US 7748100, CA 211782

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IMPORTANT LINKS

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Description:

This is a fabricated Steel restraint coupling.

Application:

Joins and restrains a plain-end Ductile Iron pipe to plain-end Ductile Iron pipe or plain-end Steel pipe to plain-end Steel pipe with no other method of restraining pipe required.

Key Features:

- Mechanical restraint shall be an integral part of the follower gland utilizing multiple single tooth wedges
- Breakaway nut torque per wedge is 45 to 60 ft. lbs
- Longer sleeves available

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

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

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 per ANSI/AWWA C111/A21.11 SBR, Multi-Seal gasket, or MJ transition gasket for Steel/IPS ODs. 30"-48" sizes supplied with Smith-Blair® MJ gasket, all other sizes use standard MJ gaskets

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

Pipe Applications: Ductile Iron, Carbon Steel

Sizes (in inches):

3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 30, 36, 42, 48 (Ductile Iron)

3, 4, 6, 8, 10, 12 (Carbon Steel)

Working Pressure: See 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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Pipe-Lock™

Fabricated Steel Restraint Coupling

FOR DUCTILE IRON OR STEEL PIPE

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 – Ductile Iron x Ductile Iron

NOMINAL PIPE SIZE INCHES	PIPE O.D. INCHES	CATALOG NUMBER	SLEEVE THK. X LGTH. IN.		STUDS			APPROX. SHIP WT. LBS.
			(A)	(B)	NO.	DIA. IN.	LGTH IN.	
3	3.96	471-00000396-203	0.25	7	4	0.63	16	29
4	4.80	471-00000480-203	0.25	7	4	0.75	18	35
6	6.90	471-00000690-203	0.25	7	6	0.75	18	52
6	6.90	471-00000690-303	0.25	10	6	0.75	20	60
8	9.05	471-00000905-203	0.25	7	6	0.75	18	61
8	9.05	471-00000905-303	0.25	10	6	0.75	20	70
10	11.10	471-00001110-203	0.25	7	8	0.75	18	90
10	11.10	471-00001110-303	0.25	10	8	0.75	20	102
12	13.20	471-00001320-203	0.25	7	8	0.75	18	110
12	13.20	471-00001320-303	0.25	10	8	0.75	20	122
14	15.30	471-00001530-203	0.25	7	10	0.75	18	139
14	15.30	471-00001530-303	0.25	10	10	0.75	20	154
16	17.40	471-00001740-203	0.25	7	12	0.75	18	168
16	17.40	471-00001740-303	0.25	10	12	0.75	20	186
18	19.50	471-00001950-203	0.25	7	12	0.75	18	184
18	19.50	471-00001950-303	0.25	10	12	0.75	20	203
20	21.60	471-00002160-203	0.25	7	14	0.75	18	212
20	21.60	471-00002160-303	0.25	10	14	0.75	20	233
24	25.80	471-00002580-203	0.25	7	16	0.75	18	266

A= Sleeve Thickness B=Sleeve Length
+ Uses Smith-Blair MJ Gasket

NOMINAL PIPE SIZE INCHES	PIPE O.D. INCHES	CATALOG NUMBER	SLEEVE THK. X LGTH. IN.		STUDS			APPROX. SHIP WT. LBS.
			(A)	(B)	NO.	DIA. IN.	LGTH IN.	
24	25.80	471-00002580-303	0.25	10	16	0.75	20	291
30+	32.00	471-00003200-303	0.25	10	20	1.00	24	644
30+	32.00	471-00003200-503	0.25	16	20	1.00	30	787
36+	38.30	471-00003830-303	0.25	10	24	1.00	24	813
36+	38.30	471-00003830-503	0.25	16	24	1.00	30	986
42+	44.50	471-00004450-303	0.25	10	28	1.25	24	1263
42+	44.50	471-00004450-503	0.25	16	28	1.25	30	1464
48+	50.80	471-00005080-303	0.25	10	32	1.25	24	1465
48+	50.80	471-00005080-503	0.25	16	32	1.25	30	1694

A= Sleeve Thickness B=Sleeve Length
 + Uses Smith-Blair MJ Gasket