



Cam-Lock™

for Ductile Iron and Carbon Steel Pipe

COLOR CODED BLACK FOR DUCTILE IRON AND CARBON STEEL

Patents US 7484775, US 7748100, CA 2511782

111

IMPORTANT LINKS

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UL Listed in 3"-24" joining 3"-24" UL Listed Ductile Iron (D.I.) fittings to UL Listed Class 350 (3"-16") Class 250 (18" & 24"), or Class 200 (20") D.I. pipe.



FM Approved for sizes 4"-12" on Ductile Iron pipe at 175 psi.



Description:

Cam-Locks are wedges in a pivoting linkage used to lock a fitting onto a piece of pipe.

As wedges are tightened down in the installation, specially designed "breakaway" nuts twist off, leaving the restraint permanently engaged with the pipe.

Application:

Restraining pipe ends in mechanical joints fittings. A mechanical joint joins pipes or fittings together by the use of lugs and bolts.

Key Features:

- Fewer wedges for time-saving installations
- Breakaway nuts twist off at approximately 45-60 ft.-lbs., leaving cam engaged with pipe.
- Lower torque requirement to fully actuate bolts
- Multi-Seal MJ Gasket available in 4"-12" Steel
- Corrosion resistant
- Secondary hex shank for easy removal and re-installation

Materials Specifications (subject to change):

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® Epoxy per ANSI/AWWA C213. Wedges and Actuating Bolts are E-coated Epoxy

Kit Specifications:

GASKET: Standard Mechanical Joint. ANSI/AWWA C213 SBR, Multi-Seal Gasket, or MJ Transition gasket for Steel ODs

T-BOLTS: High strength, low alloy, per ANSI/AWWA C111/A21.11. *Optional: 304 Stainless Steel, flouropolymer coated.*

Pipe Applications: Ductile Iron or Carbon Steel

Sizes (in inches): 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 30, 36, 42, 48

Pressure Ratings:

350 PSI on sizes 3"-16" Ductile Iron

250 PSI on sizes 18"-48" Ductile Iron

250 PSI on sizes 3"-12" Carbon Steel (Sch. 20, 40, or 80)

Deflection: 3° on 3", 5° on 4"-12", 2° on 14"-16", 1½° on 18"-24", 1° on 30"-48"



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For MJ fittings on Ductile Iron Pipe and Carbon Steel (3"-12")

NOMINAL SIZE INCHES	PIPE O.D. INCHES	NO. OF WEDGES	WITH D.I. GASKETS, BOLTS, AND NUTS		WT. EACH LBS.	RESTRAINT ONLY		WT. EACH LBS.
			CATALOG NUMBER BOXED FOR DI PIPE SIZES	CATALOG NUMBER BOXED FOR STEEL PIPE SIZE		CATALOG NUMBER UN-BOXED	CATALOG NUMBER BOXED	
3	3.96	2	111-03960000-000	111-03960000-001	10.5	111-03960001-900	111-03960001-000	6.5
4	4.8	2	111-04800000-000	111-04800000-001	11.8	111-04800001-900	111-04800001-000	7.1
6	6.9	3	111-06900000-000	111-06900000-001	17.8	111-06900001-900	111-06900001-000	11.2
8	9.05	3	111-09050000-000	111-09050000-001	20.3	111-09050001-900	111-09050001-000	13.1
10	11.1	6	111-11100000-000	111-11100000-001	32.5	111-11100001-900	111-11100001-000	26
12	13.2	8	111-13200000-000	111-13200000-001	40.4	111-13200001-900	111-13200001-000	31.5
14	15.3	10	111-15300000-000		53.6	111-15300001-900		43.3
16	17.4	12	111-17400000-000		66.3	111-17400001-900		54.1
18	19.5	12	111-19500000-000		72.2	111-19500001-900		59.8
20	21.6	14	111-21600000-000		83.8	111-21600001-900		69.8
24	25.8	16	111-25800000-000		106.9	111-25800001-900		90.4
30	32	20	111-32000000-000		287.9			
36	38.3	24	111-38300000-000		366.3			
42	44.5	28	111-44500000-000		585.1			
48	50.8	32	111-50800000-000		679.5			

PRESSURE RATING (PSI) FOR 111 CAM-LOCKS™ ON CARBON STEEL	
Schedule 20, 40, 80	
Use Transition Gasket	
3"-12"	250 PSI

PRESSURE RATINGS (PSI) FOR 111 CAM-LOCKS™ ON DUCTILE IRON	
ANSI/AWWA - C151 DI OD	
3"-16"	350 PSI
18"-48"	250 PSI