



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

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.



Description:

Cam-Locks are mechanical joint restraint glands with multiple independent single-tooth, cam-action wedges designed to restrain a fitting on a piece of pipe.

Application:

Restraining pipe ends in mechanical joint fittings.

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." Fits IPS or DI sized pipe.
- 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 C111 SBR, Multi-Seal Gasket, or MJ Transition gasket for Steel ODs

T-BOLTS: High strength, low alloy (HSLA), per ANSI/AWWA C111/A21.11. *Optional: 304 Stainless Steel, fluoropolymer 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 (3"-48") 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 SIZES | | 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-LOCK ON DUCTILE IRON | |
|---|---------|
| ANSI/AWWA - C151 DI OD | |
| 4"-16" | 350 PSI |
| 18"-48" | 250 PSI |