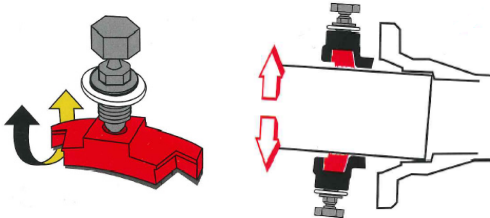
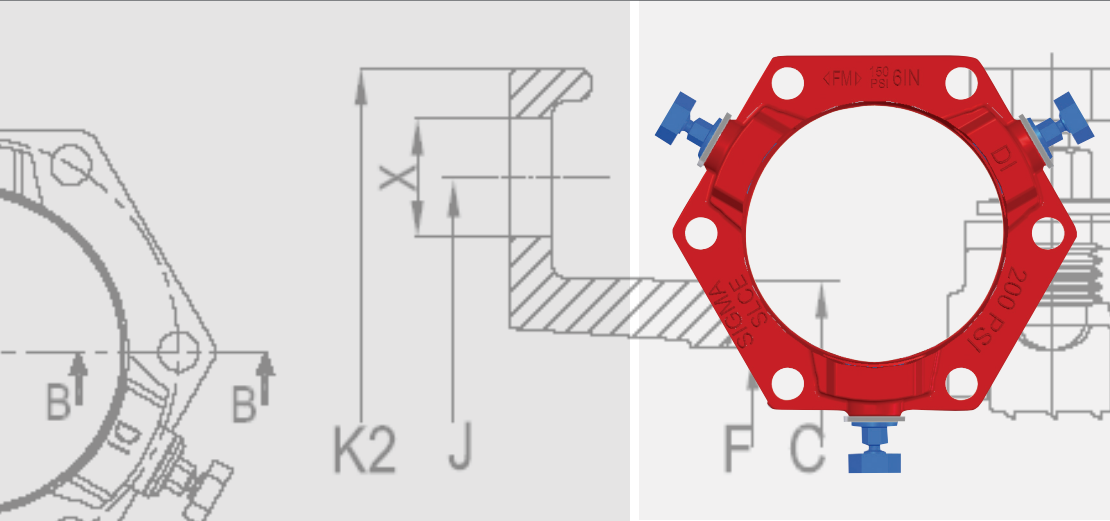


ONE-LOK™ Series SLCE for PVC Pipe



ONE-LOK's unique **CAM ACTION** allows the restraining lugs to “rock” and grip the PVC pipe wall more securely as thrust force increases, and allows for subsidence, seismic or other forces after installation, up to the maximum allowed deflection



The SIGMA ONE-LOK Series SLCE is a mechanical joint restraining gland that implements a series of individually activated wedges into the mechanical joint follower gland. When the wedge segment is engaged by the actuating bolt, the primary contact edges of each wedge segment lock onto the pipe wall. This action causes the primary contact edges to grip the pipe and effectively restrain all classifications of both AWWA C900/C905 and ASTM D2241 IPS size PVC pipe.

ONE-LOK SLCE's precision contoured wedges provide proper contact and support of the PVC pipe wall. Each wedge is manufactured with an elongated contour that evenly matches the outside circumference of each nominal diameter of PVC pipe.

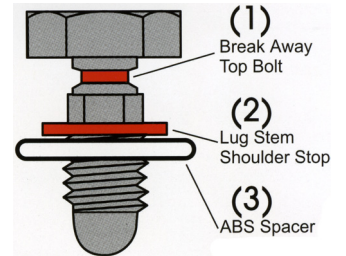
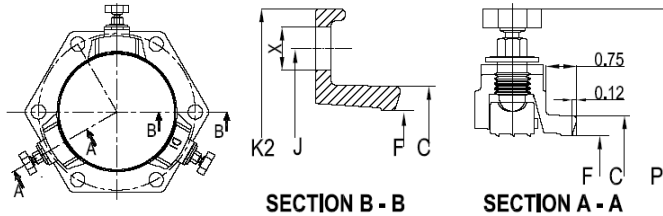
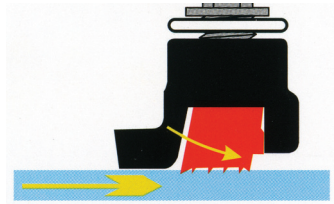
ONE-LOK SLCE's wedge actuating bolt provides the installer with two visual torque indicators. The breakaway top and secondary shoulder stop ensure proper engagement of the wedge segment at the time of installation. Unlike other actuating bolts, the ONE-LOK SLCE is manufactured with a proprietary quality control system that ensures the breakaway tops will activate at the correct torque. The breakaway top is sized to match the same dimensions of the bolts and nuts used to assemble the mechanical joint fitting and follower gland, eliminating the need for special installation tools. Once engaged, the actuating bolt leaves a residual hex-head shank, allowing post-installation disassembly of the restrained joint, if necessary.

ONE-LOK SLCE also features a non-corrosive, two-piece ABS plastic spacer that is removed when using the product to restrain IPS sized pipes meeting ASTM D2241. The two-piece design of this spacer allows it to be removed without requiring disassembly of the product. When the ONE-LOK SLCE is used to restrain pipes meeting AWWA C900, the spacer is left intact on the actuating bolt.

ONE-LOK™ Series SLCE for PVC Pipe

ONE-LOK SLCE's unique wedge segment and actuating bolt design allows the two components to interface using a cam action principle, allowing the wedge segments to rock and increase their grip on the pipe wall as thrust on the assembled joint increases. This also allows improved resistance to subsidence, seismic forces, and other movement within the maximum deflection limitations of the mechanical joint under applicable AWWA standards.

SIGMA ONE-LOK SLCE's can be used on all pressure classes and thicknesses of PVC pipe.



Dimensions in Inches, Weights in Pounds

| Size | Item # | Weight (lbs) | PVC Pipe DI OD | IPS Pipe OD | Dimensions | | | | | | | | Bolts and Inserts | | |
|------|--------|--------------|----------------|-------------|------------|-------|-------|------|-------|-------|-------|-------|-------------------|------|--------|
| | | | | | C | F | K2 | T | P | P* | X | J | No | Size | Torque |
| 3 | SLCE3 | 6.21 | | 3.50 | 4.76 | 3.60 | 7.18 | 0.60 | 9.42 | 8.50 | 0.750 | 6.14 | 2 | 7/8 | 45-55 |
| 4 | SLCE4 | 6.78 | 4.80 | 4.50 | 5.92 | 4.90 | 7.92 | 0.60 | 10.22 | 9.30 | 0.875 | 7.50 | 2 | 7/8 | 50-60 |
| 6 | SLCE6 | 10.28 | 6.90 | 6.63 | 8.01 | 7.00 | 10.00 | 0.60 | 12.87 | 11.95 | 0.875 | 9.50 | 3 | 7/8 | 50-60 |
| 8 | SLCE8 | 14.48 | 9.05 | 8.63 | 10.17 | 9.15 | 12.18 | 0.75 | 14.37 | 13.45 | 0.875 | 11.75 | 4 | 7/8 | 50-60 |
| 10 | SLCE10 | 21.40 | 11.10 | 10.75 | 12.22 | 11.20 | 14.60 | 0.85 | 16.68 | 15.76 | 0.875 | 14.00 | 6 | 7/8 | 50-60 |
| 12 | SLCE12 | 26.96 | 13.20 | 12.75 | 14.32 | 13.30 | 16.64 | 0.85 | 18.58 | 17.66 | 0.875 | 16.25 | 8 | 7/8 | 50-60 |
| 14 | SLCE14 | 33.67 | 15.30 | | 16.40 | 15.44 | 20.25 | 1.20 | 21.68 | 19.98 | 0.875 | 18.75 | 10 | 7/8 | 55-65 |
| 16 | SLCE16 | 41.67 | 17.40 | | 18.50 | 17.54 | 22.45 | 1.21 | 23.65 | 21.95 | 0.875 | 21.00 | 12 | 7/8 | 55-65 |
| 18 | SLCE18 | 49.50 | 19.50 | | 20.60 | 19.64 | 24.75 | 1.25 | 25.79 | 24.09 | 0.875 | 23.25 | 12 | 7/8 | 55-65 |
| 20 | SLCE20 | 61.17 | 21.60 | | 22.70 | 21.74 | 27.00 | 1.34 | 28.16 | 26.46 | 0.875 | 25.50 | 14 | 7/8 | 55-65 |
| 24 | SLCE24 | 79.33 | 25.80 | | 26.90 | 25.94 | 31.50 | 1.46 | 32.70 | 31.00 | 0.875 | 30.00 | 16 | 7/8 | 55-65 |
| 30 | SLCE30 | 198.00 | 32.00 | | 33.29 | 32.17 | 38.42 | 2.00 | 41.92 | 39.92 | 1.125 | 36.88 | 20 | 1.00 | 65-75 |
| 36 | SLCE36 | 248.00 | 38.30 | | 39.59 | 38.47 | 46.00 | 2.00 | 48.78 | 46.78 | 1.125 | 43.75 | 24 | 1.00 | 65-75 |

ONE-LOK SLCE was previously referred to as model SLC P* Dim shows OD after head is broken/removed.

| Nominal Pipe Size | Item # | Pressure Rating | | | | | | | | | | | |
|-------------------|--------|-----------------|------|------|------------|-------|-------|------|------|------|--------|------|------|
| | | C900 | | | ASTM D2241 | | | C905 | | | | | |
| | | DR14 | DR18 | DR25 | SDR17 | SDR21 | SDR26 | DR18 | DR21 | DR25 | DR32.5 | DR41 | DR51 |
| 3 | SLCE3 | - | - | - | 250 | 200 | 160 | - | - | - | - | - | - |
| 4 | SLCE4 | 305 | 235 | 165 | 250 | 200 | 160 | - | - | - | - | - | - |
| 6 | SLCE6 | 305 | 235 | 165 | 250 | 200 | 160 | - | - | - | - | - | - |
| 8 | SLCE8 | 305 | 235 | 165 | 250 | 200 | 160 | - | - | - | - | - | - |
| 10 | SLCE10 | 305 | 235 | 165 | 250 | 200 | 160 | - | - | - | - | - | - |
| 12 | SLCE12 | 305 | 235 | 165 | 250 | 200 | 160 | - | - | - | - | - | - |
| 14 | SLCE14 | - | - | - | - | - | - | 235 | 200 | 165 | 125 | 100 | - |
| 16 | SLCE16 | - | - | - | - | - | - | 235 | 200 | 165 | 125 | 100 | - |
| 18 | SLCE18 | - | - | - | - | - | - | 235 | 200 | 165 | 125 | 100 | 80 |
| 20 | SLCE20 | - | - | - | - | - | - | 235 | 200 | 165 | 125 | 100 | 80 |
| 24 | SLCE24 | - | - | - | - | - | - | 235 | 200 | 165 | 125 | 100 | 80 |
| 30 | SLCE30 | - | - | - | - | - | - | - | - | 165 | 125 | 100 | 80 |
| 36 | SLCE36 | - | - | - | - | - | - | - | - | 165 | 125 | 100 | 80 |



Sizes 4" - 12" are UL approved
 Sizes 4" - 12" are FM approved for 150 psi on AWWA C900 pipe and have been tested in accordance with ASTM F1674.

Sample Specification

Restraint for standard mechanical joint fittings shall be incorporated in the design of the follower gland and shall utilize multiple wedge segments that act against the pipe, increasing their resistance as the line pressure increases. The assembled joint shall maintain the maximum flexibility and deflection of all nominal pipe sizes after burial. Restraining gland, wedge segments, and actuating bolts shall be manufactured of high strength ductile iron conforming to the requirements of ASTM A536, Grade 65-45-12. Dimensions shall be compatible with standardized mechanical joints conforming to the requirements AWWA C111/ANSI A21.11 and AWWA C153/ANSI 21.53 through 24" (latest revision). Breakaway tops shall be incorporated in the design of the actuating bolts to visually ensure proper torque. The manufacturing of the actuating bolt must incorporate a quality control procedure that is deemed acceptable by the specifier and positively assures precise and consistent operating torque of the breakaway top. The mechanical joint restraining devices shall have a working pressure rating of 200psi (235psi for sizes 14-36") minimum and provide no less than a safety factor of 2:1. Restraint shall be FM approved in applicable sizes. Restraining device shall be SIGMA ONE-LOK™ or approved equal.

Installation Instructions

Note: This product is not designed to be used on plain end fittings.

1. Clean fitting socket and pipe end. Lubricate gasket and pipe end with soapy water (or approved pipe lubricant meeting AWWA C111). Install ONE-LOK™ restrainer on the pipe with the lip extension facing the pipe end, followed by the gasket, tapered side toward end of pipe. Insert pipe into fitting outlet and seat the gasket firmly and evenly into the gasket cavity. Maintain a straight joint during assembly.

NOTE: SIGMASEAL Gasket is recommended for ONE-LOK 30-36". When installing SIGMASEAL gasket, the tapered edges of the gasket must face away from the pipe wall.

2. Push the ONE-LOK gland toward the fitting and center it around the pipe with the lip evenly against the gasket. Insert the T-bolts and hand-tighten the nuts. If deflection is required, make up after joint assembly but before tightening T-bolts.

3. Tighten T-bolts in an alternating manner maintaining an even gap between the gland and the fitting face at all points around the socket. Repeat until all the T-bolts are within the recommended torque value of AWWA C111/C600.

4. For installation on IPS O.D. PVC Pipe, twist, break, and remove the ABS spacers from the actuating bolts. DO NOT REMOVE SPACERS when installing product on C900 PVC. Hand tighten all actuating bolt until complete contact of all wedge segments is made with the pipe.

5. Tighten each actuating in a clockwise direction, alternating between the bolts in a star pattern until the break-off tops have been removed. Never tighten an actuating bolt more than 180 degrees before moving to the next bolt.

LOCATIONS

North Region

Cream Ridge, New Jersey (HQ)

Phone (800) 999-2550
 Fax (609) 758-1158
 crm-sales@sigmaco.com

Sauk Village, Illinois

Phone (888) 999-0420
 Fax (708) 758-6790
 chi-sales@sigmaco.com

South Region

Alexander City, Alabama

Phone (800) 824-4513
 Fax (256) 234-4956
 rps-sales@sigmaco.com

Houston, Texas

Phone (800) 999-0109
 Fax (281) 987-0200
 htn-sales@sigmaco.com

West Region & Canada

Ontario, California

Phone (800) 688-6230
 Fax (909) 391-2033
 ont-sales@sigmaco.com

Auburn, Washington

Phone (800) 688- 6230
 Fax (909) 391-2033
 ont-sales@sigmaco.com

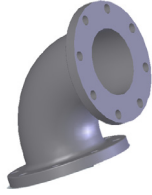
Victoriaville, Quebec, Canada

Phone (888) 744-6262
 Fax (819) 758-1153
 crm-sales@sigmaco.com

Innisfil, Ontario, Canada

Phone (877) 436-3800
 Fax (705) 436-6338
 crm-sales@sigmaco.com

AWWA Ductile Iron Fittings



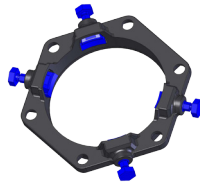
- 2-48" mechanical joint fittings (AWWA C153 & C110)
- 2-48" C110 / 54-64" C153 flanged fittings (cast iron also available)
- 3-48" MJ and 3-48" Flanged AWWA Fittings, Domestic Manufacture
- 4-24" TRIM TYTON® C153 / 14-24" TYTON® push on fittings
- 4-24" C110 push on fittings
- C116 fusion bonded epoxy lining available
- PROTECTO 401® ceramic epoxy lining available

Mechanical Joint Accessories



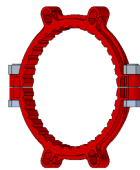
- Prepackaged and loose mechanical joint accessories
- SIGMASEAL™ improved mechanical joint gasket
- Ductile iron set screw retainer glands
- OMNI-SLEEVE™ improved wall penetration sleeve
- Specialty bolts and nuts for mechanical joint assemblies

ONE-LOK™ Wedge Action Restraints



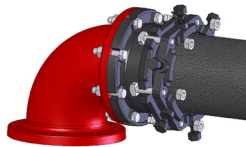
- 3-48" ONE-LOK SLDE restraint for ductile iron pipe (import or domestic)
- 3-36" ONE-LOK SLCE restraint for PVC pipe (import or domestic)
- 3-36" ONE-LOK SLDEH bell joint harness for ductile iron pipe
- 4-12" / 20" ONE-LOK SLDM restraint for oversized cast iron pipe
- 4-36" ONE-LOK SSLD split restraint for existing ductile iron pipe
- 4-36" ONE-LOK SSLDH split restraint harness for existing ductile iron pipe
- 4-12" ONE-LOK SLCEH bell joint harness for PVC pipe

PV-LOK™ Serration Lock Restraints



- 4-48" PV-LOK PWM Restraint for MJ Fitting to PVC pipe
- 4-48" PV-LOK PWP Restraint for PVC bell joint restraint
- 4-48" PV-LOK PWPF Restraint for PVC fitting to PVC pipe
- 4-12" PV-LOK PWH PVC bell joint harness
- 2-12" PV-LOK PVM Restraint for MJ Fittings to IPS PVC pipe
- 2-12" PV-LOK PVP Restraint for IPS PVC pipe bell joint
- 4-8" PV-LOK PVPF Restraints for IPS PVC pressure fitting

Flange Adapters



- 3-36" SIGMAFLANGE SFA flange adapter sleeve for PVC and DIP
- 2-48" ZIP FLANGE set screw style flange adapter

Municipal Construction Castings



- Manhole Rings and Covers
- Curb and Meter Boxes
- Frames and Grates
- Storm Inlets
- Valve Boxes, Risers, and Extensions

Products for the Ductile Iron Fabricator



- 3-64" High Hub Threaded Flanges
- 3-48" Tapped High Hub Threaded Flanges
- 3-36" Extra Heavy 250lb Drilled Threaded Flanges
- 3-48" Threaded MJ Bell Adapters
- 3-48" MJ x PE Bell adapter (2ft)
- 3-48" Anchor Flanges
- 3-16" Filler Flanges

Extended Range Products



- FLANGE-PAK™ prepackaged flange accessory sets
- Polyethylene encasement for ductile iron pipe
- Copper tubing products
- Tracer wire & detectable/non-detectable marking tape
- Pipe joint lubricant & hydraulic cement
- Socket clamps and tie rod accessories
- BOXLOK Valve Box Alignment Device
- Cast Iron Companion Flanges