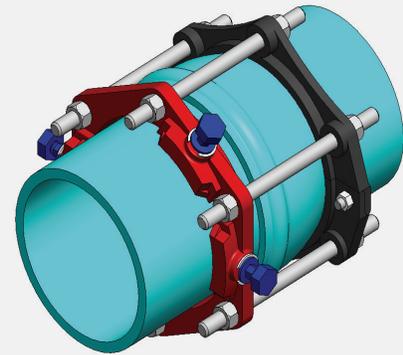
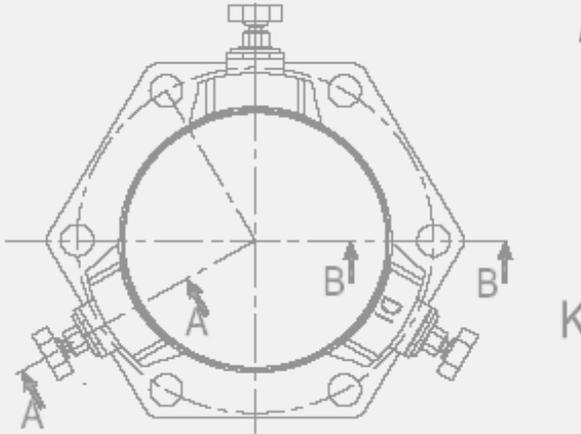


ONE-LOK™ Series SLCEH Harness for PVC Pipe



Features & Advantages:

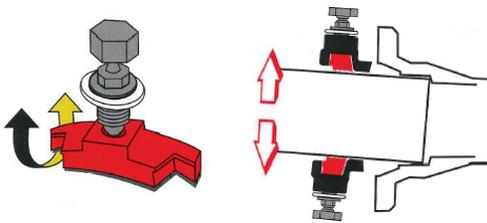
1) The SIGMA ONE-LOK Series SLCEH is a mechanical joint restraining gland that implements a series of individually activated wedges into the mechanical joint follower gland. When the wedge segment is engaged by the actuating bolt, the primary contact edges of each wedge segment lock onto the pipe wall. 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.

2) ONE-LOK SLCEH'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.

3) ONE-LOK SLCEH'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 SLCEH 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.

4) ONE-LOK SLCEH 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 SLCEH is used to restrain pipes meeting AWWA C900, the spacer is left intact on the actuating bolt.

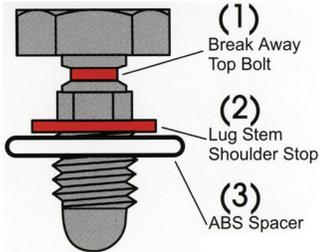
5) The SIGMA ONE-LOK Series SLCEH is a mechanical joint restraining gland that implements a series of individually activated wedges into the mechanical joint follower gland. When the wedge segment is engaged by the actuating bolt, the primary contact edges of each wedge segment lock onto the pipe wall. 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'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.

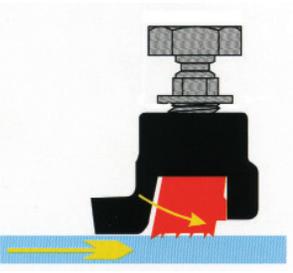


ONE-LOK™ Series SLCEH Harness for PVC Pipe



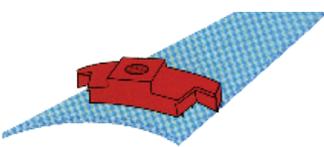
Sample Specification:

New PVC push-on pipe bell joints shall be restrained using a wedge-action restraining gland on the PVC pipe spigot and connected to a two-piece back-up ring located against the pipe bell using restraining rods and nuts. The wedge-action restraining gland, wedge segments, break-off top actuating bolts and two-piece back-up ring shall be manufactured of high strength ductile iron in accordance with ASTM A536, Grade 65-45-12. Breakaway tops shall be incorporated in the design of the actuating bolts to visually ensure proper torque. The manufacturer 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. Restraining all-thread rods and nuts shall be manufactured of high strength, low alloy steel in accordance with ASTM/ANSI A21.11/C111. The pressure rating capacity of the restraining harness must be equal to the water working pressure rating of the PVC pipe joints upon which they are installed. Restrained joint harness assembly shall be SIGMA Corporation Model SLCEH or approved equal.



Material:

- Gland body, brackets, wedge segments & actuating bolts ASTM A536 65-45-12 ductile iron.
- Restraining Rods & Nuts: High strength, low alloy steel meeting AWWA/ANSI C111/A21.11 with minimum 65,000 psi tensile strength and 45,000 psi yield strength.
- Side Clamping Bolts & Hex Nuts: ASTM A449 high strength steel.



Dimensions in Inches, Weights in Pounds

Size	Item No.	Pressure Rating	No. Rods	Rod Length	Rod Diameter	Minimum Rod Clearance	Weight of SG+One-Lok SLCE+Rod
3	SLCEH3	235	4	17	5/8	5.45	13.61
4	SLCEH4	235	4	17	3/4	6.75	19.18
6	SLCEH6	235	6	18	3/4	8.75	29.76
8	SLCEH8	235	6	18	3/4	11.00	36.84
10	SLCEH10	235	8	24	3/4	13.25	50.40
12	SLCEH12	235	8	24	3/4	15.50	73.62

NOTE: For more information about ONE-LOK SLCEH refer to ONE-LOK Series SLCE for PVC Pipe catalog



ONE-LOK™ Series SLCEH Harness for PVC Pipe

Nominal Pipe Size	Item #	Pressure Rating					
		C900			ASTM D2241		
		DR14	DR18	DR25	SDR17	SDR21	SDR26
3	SLCEH3	-	-	-	250	200	160
4	SLCEH4	305	235	165	250	200	160
6	SLCEH6	305	235	165	250	200	160
8	SLCEH8	305	235	165	250	200	160
10	SLCEH10	305	235	165	250	200	160
12	SLCEH12	305	235	165	250	200	160

Installation Instructions:

1. Install the two-piece back-up ring behind the PVC pipe bell tightening the assembly bolts to 90-ft lbs.
2. Slide the ONE-LOK wedge-action restraining gland onto the pipe spigot with the frontal lip facing the pipe end. Insert the PVC pipe spigot into the pipe bell per the pipe manufacturer's recommendation. Insert the all-thread restraining rods and nuts in the corresponding bolt holes from the wedge-action gland to the back-up ring. Tighten the restraining nuts until there are exposed threads on the backside of both bolts.
3. Pull the wedge-action restraining gland on the spigot pipe away from the pipe bell until the back-up ring seats evenly against the pipe bell slope. Hand-tighten the break-off top actuating bolts until contact is made between each wedge segment and the PVC pipe wall.
4. Alternately tighten the break-off top bolts in a star pattern until the heads fracture, locking the wedge restraining gland against the pipe wall. Snug both restraining nuts to ensure a sound assembly.

LOCATIONS

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Terms and Conditions of Sales available at our website.

AWWA Ductile Iron Fittings



- 2-64" C153 Ductile Iron Mechanical Joint Class 350
- 2-48" C110 Full Body Mechanical Joint
- 2-64" C110 Cast Iron/Ductile Iron Flanged Fittings
- 3-24" C153 TRIM TYTON® Compact Push On Fittings
- 4-24" C110 Full Body 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
- Snap-on multi-purpose gasket for ductile iron or PVC pressure pipes
- 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
- 3-12" 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 PVPF Restraint for PVC fitting to PVC pipe
- 4-12" PV-LOK PWH PVC bell joint harness
- 2-12" PV-LOK PVM Restraint for MJ Fitting 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

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