



Series SLC for PVC Pipe

ONE



LOK



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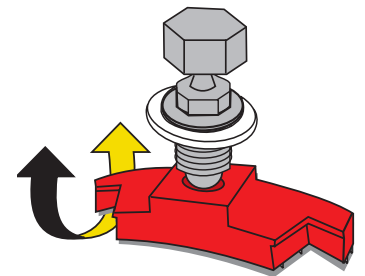
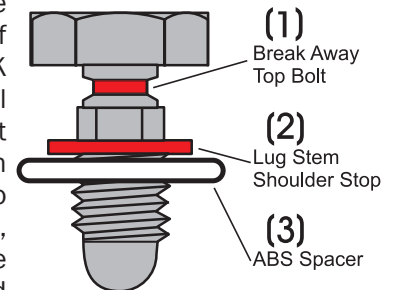
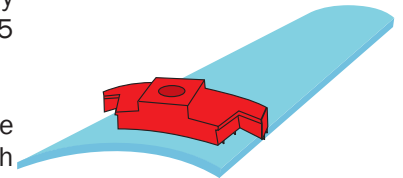
The SIGMA ONE-LOK™ Series SLC is a mechanical joint restraining gland that implements a series of individually activated wedges into the mechanical joint follower gland. When the wedge segment is engaged by the actuating bolt, the primary contact edges of each wedge segment lock onto the pipe wall. This 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 SLC'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 SLC'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 SLC 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 SLC 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 SLC is used to restrain pipes meeting AWWA C900, the spacer is left intact on the actuating bolt.

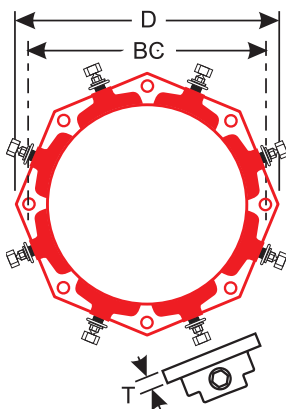
ONE-LOK SLC's unique wedge segment and actuating bolt design allows the two components to interface using a cam action principle, allowing the wedge segments to rock and increase their grip on the pipe wall as thrust on the assembled joint increases. This also allows improved resistance to subsidence,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



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Dimensions in Inches, Weights in Pounds

Size	Item No.	Wt.	CIOD	IPS	B.C.	D	T	Bolts & Inserts		
								No.	Size	Torque
3	SLC3	9	-	3.500	6.19	7.69	0.62	4	7/8	45-55
4	SLC4	11	4.80	4.500	7.50	9.12	0.75	4	7/8	45-55
6	SLC6	12	6.90	6.625	9.50	11.12	0.88	3	7/8	45-55
8	SLC8	19	9.05	8.625	11.75	13.37	1.00	6	7/8	45-55
10	SLC10	25	11.10	10.75	14.00	15.62	1.00	8	7/8	45-55
12	SLC12	30	13.20	12.78	16.25	17.88	1.00	8	7/8	45-55
14	SLC14	50	15.30	-	18.75	20.25	1.25	10	7/8	55-65
16	SLC16	56	17.40	-	21.00	22.50	1.31	12	7/8	55-65
18	SLC18	60	19.50	-	23.25	24.75	1.38	12	7/8	55-65
20	SLC20	75	21.60	-	25.50	27.00	1.44	14	7/8	55-65
24	SLC24	140	25.80	-	30.00	31.50	1.56	16	7/8	55-65
30	SLC30	198	32.00	-	36.88	39.12	2.00	20	1	70-80
36	SLC36	248	38.30	-	43.75	46.00	2.00	24	1	70-80



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



3-12" pressure rated at 200psi working pressure
 14-36" pressure rated at 235psi working pressure

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.

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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.
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 all the break-off tops have been removed. Never tighten an actuating bolt more than 180 degrees before moving to the next bolt.



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