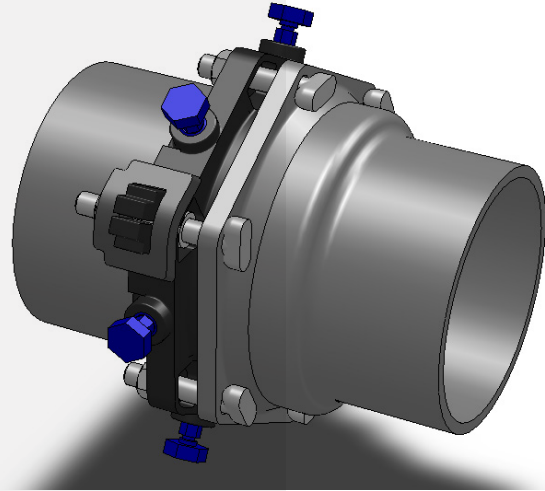
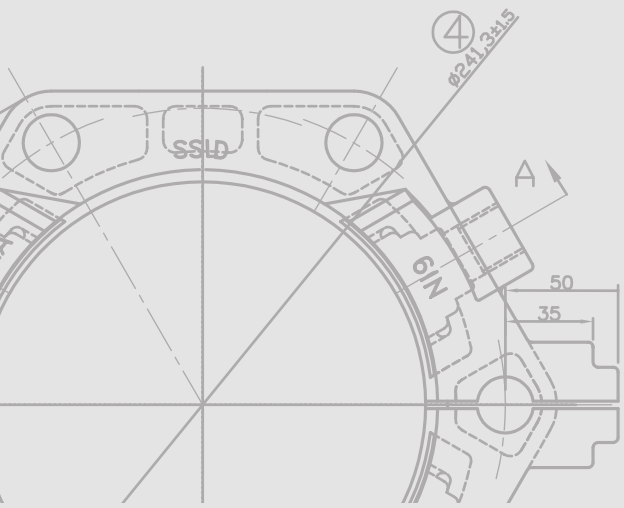


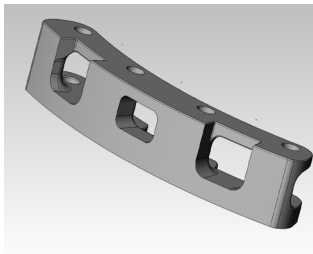
ONE-LOK™ Series SSLD Split Gland for DIP



The SIGMA ONE-LOK™ Series SSLD split mechanical joint, wedge-action restraining gland provides all the advantages of the ONE-LOK restraint system with a split gland design for use with existing installations of ductile iron pipe and fitting assemblies.

Sample Specification

Restraint for standard mechanical joint fittings over existing installations of ductile iron pipe shall be incorporated in the design of the split 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. Wedge segments shall be heat treated to a hardness of 370 BHN minimum. Dimensions shall be compatible with standardized mechanical joints conforming to the requirements AWWA C111/ANSI A21.11 and AWWA C153/ANSI 21.53. 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 350psi minimum and provide no less than a safety factor of 2:1. Restraining device shall be SIGMA ONE-LOK™ Series SSLD or approved equal.



ONE-LOK™ SSLD series split gland design includes c-clamp with extra long T-bolts for added safety.

Deflection Chart

Nominal Size	Item #	Deflection
4-12"	SSLD3-SSLD12	5 deg
14-16"	SSLD14-SSLD16	2 deg
18-24"	SSLD18-SSLD24	1.5 deg
30-36"	SSLD30-SSLD36	1 deg

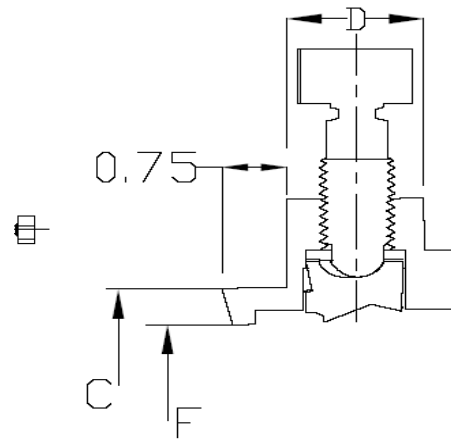
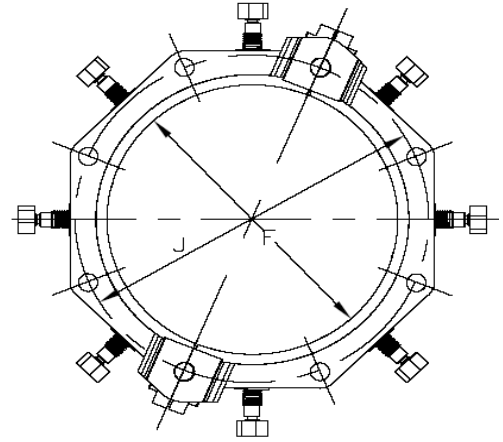
Materials:

- Gland body, brackets, wedge segments & actuating bolts: ASTM A536 65-45-12 ductile iron.
- Wedge segments are heat treated to a minimum hardness of 370BHN
- T-head bolts & nuts: High strength, low alloy steel meeting AWWA/ANSI C111/A21.11 with minimum 65,000psi tensile strength and 45,000psi yield strength.

ONE-LOK™ Series SSLD Split Gland for DIP

Installation Instructions for ONE-LOK™ SSLD

1. Disassemble the existing ductile iron pipe and fitting joint. Remove and clean any existing joint problems in the line.
2. If it is necessary to replace the existing gasket, remove and follow by thoroughly cleaning and lubricating the pipe wall and enclosed SIGMASEAL™ gasket with an approved pipe joint lubricant meeting AWWA/ANSI C111/A21.11. Field cut the gasket at a 45 degree angle and insert firmly into the fitting.
3. Remove the brackets from each side of the ONE-LOK SSLD restrainer gland. Position both halves of the gland around the pipe, making certain that the frontal lip faces the gasket and reinstall the brackets. Hand-tighten the T-head bolts and nuts, making sure to use the extra long bolts through the side bracket areas, connecting the ONE-LOK SSLD restrainer gland and pipe fitting. Beginning with one T-head bolt positioned adjacent to one of the connecting brackets, alternately and evenly tighten all T-bolts to the torques recommended by AWWA/ANSI C111/A21.11.
4. Hand tighten the ONE-LOK SSLD actuating bolts until all wedge segments have come in contact with the pipe, ensuring the pipe is properly centered in the fitting cavity.
5. Tighten all ONE-LOK SSLD actuating bolts alternately in a star pattern until each of the break off tops have been fractured.



Dimensions in Inches, Weights in Pounds

Nominal Pipe Size	Item #	Weight of SSLDP (lbs)	Pipe OD	Dimensions				Bolts and Size			Bolts	Pressure Rating (PSI)
				C	F	D	J	No	Size	Torque		
4	SSLD4	19.00	4.80	5.92	5.00	1.58	7.50	4	7/8	80-90	4	350
6	SSLD6	25.00	6.90	8.02	7.10	1.58	9.50	3	7/8	80-90	6	350
8	SSLD8	32.00	9.05	10.17	9.25	1.63	11.75	6	7/8	80-90	6	350
10	SSLD10	40.00	11.10	12.22	11.30	1.58	14.00	8	7/8	80-90	8	350
12	SSLD12	45.00	13.20	14.32	13.40	1.58	16.25	8	7/8	80-90	8	350
14	SSLD14	62.17	15.30	16.40	15.44	1.72	18.75	8	7/8	80-90	10	300
16	SSLD16	97.11	17.40	18.50	17.65	1.86	21.00	10	7/8	80-90	12	300
18	SSLD18	99.94	19.50	20.60	19.75	1.86	23.25	10	7/8	80-90	12	250
20	SSLD20	110.04	21.60	22.70	21.74	1.86	25.50	12	7/8	80-90	14	200
24	SSLD24	162.71	25.80	26.90	25.94	1.96	30.00	14	7/8	80-90	16	200
30	SSLD30	293.41	32.00	33.29	32.17	2.45	36.88	18	1.00	115-125	20	200
36	SSLD36	388.50	38.30	39.59	38.62	3.25	43.75	22	1.00	115-125	24	200