

SlideLOK® Pre-Installed End of Line Fitting Fig. SE5-SLT



ASC Engineered Solutions™ patented SLT End of Line's geometry is combined with our patented SlideLOK® coupling to form the Industry's only Ready for Installation End of Line Fitting. SLT Technology is designed to reduce installation time by coming pre-assembled from the factory with no loose parts. Installation time for the SE5SLT is up to 50% less than similar industry grooved fittings.

The SE5SLT is designed to be used with standard roll, cut or swage grooved steel pipe, Gruvlok or SPF grooved-end fittings and valves.

SE5SLT ductile iron fittings are grooved on the large end and reduced size female NPT threaded on the small end. The SE5SLT fittings are ideal for all types of applications where transition from grooved to female thread is required. SE5SLT fittings allow for convenient connection of drains, vents, pressure gauges as well as direct connection of an end of line sprinkler head. All sizes are UL, ULC listed and FM approved for 450 PSI working pressure.

For Listings/Approval Details and Limitations, visit our website at www.asc-es.com or contact an ASC Engineered Solutions™ Sales Representative.

Patents: 9039046; 9168585; 9297484; 9534715; D680629; D680630; D696751

Additional Patents Pending

Material Specifications

Housing

Fitting: Ductile Iron conforming to ASTM A536, Grade 65-45-12

Coupling: Ductile Iron conforming to ASTM A536, Grade 65-45-12

Bolts

SAE J429, Grade 5, Zinc Electroplated (standard)

SAE J429, Grade 5, Thermo-Diffusion Coated (special order)

Heavy Hex Nuts

ASTM A563, Grade A, Zinc Electroplated (standard)

ASTM A563, Grade A, Thermo-Diffusion Coated (special order)

Hardware Kits

304 Stainless Steel (available in sizes up to 3/4")

Kit includes:

(2) Bolts per ASTM A193, Grade B8

(2) Heavy Hex Nuts per ASTM A194, Grade 8

Coatings

Rust inhibiting paint

Color: Orange (standard)

Hot Dipped Zinc Galvanized (optional)

Gasket Materials

Material properties as designated in accordance with ASTM D2000

Pre-Lubricated Grade "E" EPDM, Type A Gasket

(Violet color code)

-40°F to 150°F (Service Temperature Range)

(-40°C to 66°C)

Recommended for wet and dry (oil free air) pipe fire protection sprinkler systems. For dry pipe systems and freezer applications, Gruvlok Xtreme Lubricant is required.

Gasket Type

SlideLOK (1 1/4" - 3")

Lubrication

Gruvlok Xtreme (when required)



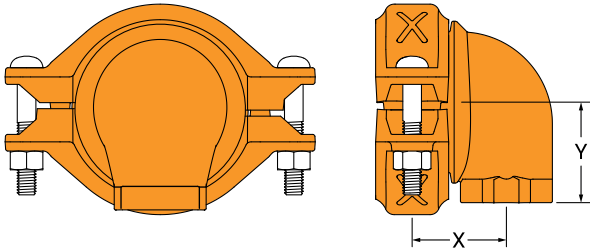
SlideLOK Pressure Responsive Gasket



GRUVLOK
An ASC Engineered Solution

PROJECT INFORMATION	APPROVAL STAMP
Project:	Approved
Address:	Approved as noted
Contractor:	Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

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Nominal Size	Pipe O.D.	Max. Wk. Pressure	Max. End Load	Max. Separation	Assembly Dimensions		Coupling Bolts		Approx. Wt. Ea.
					X	Y	Qty.	Size	
In./DN(mm)	In./mm	PSI/bar	Lbs./kN	In./mm	In./mm	In./mm		In./mm	Lbs./kg
1 ¼ x ½ 32 x 15	1.660 42.2	450 31.0	973 4.33	⅛ 1.6	1 ¾ 44	1 ⅜ 35	2	½ x 2 ½ M12 x 63	2.4 1.2
1 ¼ x ¾ 32 x 20	1.660 42.2	450 31.0	973 4.33	⅛ 1.6	1 ⅞ 48	1 ⅜ 35	2	½ x 2 ½ M12 x 63	2.4 1.2
1 ¼ x 1 32 x 25	1.660 42.2	450 31.0	973 4.33	⅛ 1.6	2 51	1 ½ 38	2	½ x 2 ½ M12 x 63	2.5 1.2
1 ½ x ½ 40 x 15	1.900 48.3	450 31.0	1,275 5.67	⅛ 1.6	1 ¾ 44	1 ⅜ 35	2	½ x 2 ½ M12 x 63	2.7 1.3
1 ½ x ¾ 40 x 20	1.900 48.3	450 31.0	1,275 5.67	⅛ 1.6	1 ⅞ 48	1 ⅜ 35	2	½ x 2 ½ M12 x 63	2.8 1.3
1 ½ x 1 40 x 25	1.900 48.3	450 31.0	1,275 5.67	⅛ 1.6	2 51	1 ½ 38	2	½ x 2 ½ M12 x 63	2.9 1.4
2 x ½ 50 x 15	2.375 60.3	450 31.0	1,993 8.87	⅛ 1.6	1 ¾ 44	1 ⅝ 41	2	½ x 2 ¾ M12 x 70	3.3 1.5
2 x ¾ 50 x 20	2.375 60.3	450 31.0	1,993 8.87	⅛ 1.6	1 ⅞ 48	1 ⅝ 41	2	½ x 2 ¾ M12 x 70	3.4 1.5
2 x 1 50 x 25	2.375 60.3	450 31.0	1,993 8.87	⅛ 1.6	2 51	1 ¾ 44	2	½ x 2 ¾ M12 x 70	3.5 1.6
2 ½ x ½ 65 x 15	2.875 73.0	450 31.0	2,921 12.99	⅛ 1.6	1 ¾ 44	1 ⅜ 46	2	½ x 2 ¾ M12 x 70	3.8 1.7
2 ½ x ¾ 65 x 20	2.875 73.0	450 31.0	2,921 12.99	⅛ 1.6	1 ⅞ 48	1 ⅜ 46	2	½ x 2 ¾ M12 x 70	3.9 1.8
2 ½ x 1 65 x 25	2.875 73.0	450 31.0	2,921 12.99	⅛ 1.6	2 51	1 ⅜ 49	2	½ x 2 ¾ M12 x 70	4.1 1.9
3 x ¾ 80 x 20	3.500 88.9	450 31.0	4,329 19.26	⅛ 1.6	2 ⅛ 52	2 ⅜ 60	2	½ x 3 M12 x 76	5.3 2.4
3 x 1 80 x 25	3.500 88.9	450 31.0	4,329 19.26	⅛ 3.2	2 ⅛ 52	2 ½ 64	2	½ x 3 M12 x 76	5.6 2.5

Note:

For coupling dimensions, see ASC Engineered Solutions™ Figure 74FP SlideLOK Ready for Installation Coupling.



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Listings and Approvals

Manufacturer	Pipe	Groove	NPS Size Range	Pressure Rating	
				cULus	FM
				In./DN(mm)	PSI/bar
Schedule 40*		Roll, Cut	1-4	450	450
			25-100	31.0	31.0
			5-6	300	300
			125-150	20.7	20.7
Schedule 30*		Roll	8	400	400
			200	27.6	27.6
Schedule 10*		Roll	1-4	365	365
			25-100	25.2	25.2
			5-6	300	300
			125-150	20.7	20.7
0.188 in. Wall		Roll	8	NR	400
			200	—	27.6
Wheatland Tube	Schedule 10	Swage	1¼-4	365	300
			32 - 100	25.2	20.7
	Mega-Flow	Swage	1¼-4	NR	300
			32 - 100	—	20.7
	Mega-Thread	Roll	1¼-4, 6	300	300
			32-100, 150	20.7	20.7
			1-2	300	300
			25-50	20.7	20.7
			1-2	300	300
			25-50	20.7	20.7
GL	Roll	1-2	300	300	
		25-50	20.7	20.7	
		1-2	300	300	
		25-50	20.7	20.7	
WLS	Roll	1-2	300	NR	
		25-50	20.7	—	
		1-2	300	300	
Youngstown	Fire-Flow	Roll	1½-4	300	300
			40-100	20.7	20.7
EZ-Thread	Roll	1-2	25-50	300	300
			25-50	20.7	20.7
Bull Moose Tube	Eddy-Flow	Roll	1¼-4	300	300
			32-100	20.7	20.7
			1-2	300	300
Eddy-Thread 40	Roll	1-2	25-50	300	300
			25-50	20.7	20.7

Note:

For the latest cULus pressure ratings, FM pressure ratings, and pipe approvals, please visit asc-es.com or contact your local ASC Engineered Solutions™ Representative.

* Schedule 40/30 pipe to ASTM A795/A53/ASME B36.10 in accordance with NFPA-13.

* Schedule 10 pipe to ASTM A135/A795/A53 in accordance with NFPA-13.



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Fig. SE5-SLT SlideLOK® Pre-Installed End of Line Fitting



Read and understand all instructions before use.

WARNING

Ensure system is drained and depressurized before installation or service.

Use appropriate personal protective equipment.



Failure to follow these instructions could result in serious personal injury and/or property damage.

1 Pipe Preparation

Pipe ends are to be cut, rolled or swage grooved according to ASC Engineered Solutions™ specifications. Not for use on "EG" grooved pipe ends. The pipe end must be smooth and free from metal burrs, sharp edges or projections.

2 Gasket Preparation

Ensure the gasket is suitable for the intended application by referring to the ASC Engineered Solutions gasket compatibility chart.

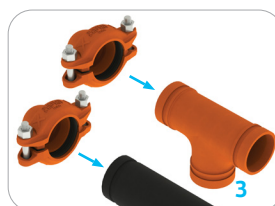
SlideLOK pre-lubricated gasket does not require lubrication.

Notice: Gruklok Xtreme Lubricant must be applied when used in dry pipe systems or freezer applications.

3 Assembly

SLT Cap and Fittings may be installed onto any standard cut, rolled or swage grooved pipe ends or onto any standard groove fitting.

- A. Slide the open coupling end onto the pipe until the fitting/pipe end butts against each other.
- B. Align the open coupling key with the mating groove. The bolts and nuts may be hand tightened to position the coupling in place.



4 Tighten Nuts

Securely tighten nuts alternately and equally, keeping the gaps at the bolt pads evenly spaced.

Notice: Uneven tightening may cause the gasket to pinch. Gasket should not be visible between segments after bolts are tightened.

Notice: Refer to Figure 74FP assembly instructions for replacement or disassembly of the coupling housing.

ANSI Specified Bolt Torque

Bolt Size	Wrench Size	Specified Bolt Torque*
In.	In.	Ft.-Lbs
3/8	11/16	40-50
1/2	7/8	80-100
5/8	1 1/16	100-130
3/4	1 1/4	130-180

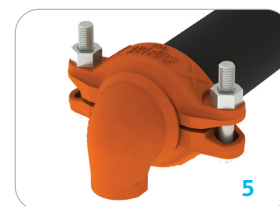
* Non-lubricated bolt torque

READY FOR INSTALLATION – RIGHT OUT OF THE BOX

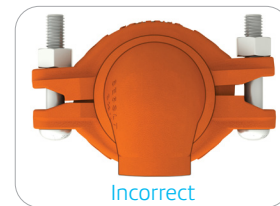
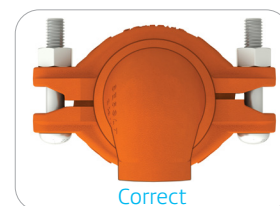
Do not disassemble the SlideLOK Coupling. The SLT Fitting is ready for installation. Do not remove the bolt or gasket.

5 Assembly is complete

Visually inspect the pipe joint to assure the coupling keys are fully engaged in the pipe grooves. The bolt pads are to have equal gaps on each side of the coupling.



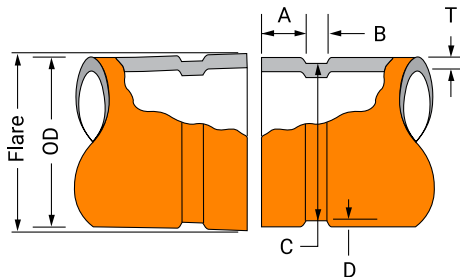
Notice: Visually inspect both sides of the coupling to ensure gaps between bolt pads are evenly spaced and are parallel. Any deviations must be corrected before placing coupling into service.



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Swage Groove Specification

-1-	-2-		-3-	-4-	-5-	-6-	-7-	-8-	
Nominal Pipe Size	O.D.		"A"	"B"	"C"	"C" Tol.	"D"	"T" Min. Allow.	Max. Flare
	Actual	Tolerance	$\pm 0.030 / \pm 0.76$	$\pm 0.030 / \pm 0.76$	Actual	+0.000	(Ref. Only)	Wall Thick	Diameter
In./DN(mm)	In./mm	+In./mm -In./mm	In./mm	In./mm	In./mm	-In./mm	In./mm	In./mm	In./mm
1¼ 32	1.660 42.2	+0.016 +0.41 -0.016 -0.41	0.625 15.88	0.281 7.14	1.535 38.99	-0.015 -0.38	0.063 1.60	0.065 1.7	1.770 45.0
1½ 40	1.900 48.3	+0.019 +0.48 -0.019 -0.48	0.625 15.88	0.281 7.14	1.775 45.09	-0.015 -0.38	0.063 1.60	0.065 1.7	2.010 51.1
2 50	2.375 60.3	+0.024 +0.61 -0.024 -0.61	0.625 15.88	0.344 8.74	2.250 57.15	-0.015 -0.38	0.063 1.60	0.065 1.7	2.480 63.0
2½ 65	2.875 73.0	+0.029 +0.74 -0.029 -0.74	0.625 15.88	0.344 8.74	2.720 69.09	-0.018 -0.46	0.078 1.98	0.083 2.1	2.980 75.7
3 80	3.500 88.9	+0.035 +0.89 -0.031 -0.79	0.625 15.88	0.344 8.74	3.344 84.94	-0.018 -0.46	0.078 1.98	0.083 2.1	3.600 91.4
4 100	4.500 114.3	+0.045 +1.14 -0.031 -0.79	0.625 15.88	0.344 8.74	4.334 110.08	-0.020 -0.51	0.083 2.11	0.083 2.1	4.600 116.8

Note:

COLUMN 1 – Nominal IPS Pipe size.

COLUMN 2 – IPS outside diameter.

COLUMN 3 – Gasket seat must be free from scores, seams, chips, rust or scale which may interfere with proper sealing of the gasket. Gasket seat width (Dimension A) is to be measured from the pipe end to the vertical flank in the groove wall.

COLUMN 4 – Groove width (Dimension B) is to be measured between vertical flank of the groove size walls.

COLUMN 5 – The groove must be of uniform depth around the entire pipe circumference. (See column 6).

COLUMN 6 – Groove depth: for reference only. Groove must conform to the groove diameter "C" listed in column 5.

COLUMN 7 – Minimum allowable wall thickness which may be roll grooved.

COLUMN 8 – Maximum allowable pipe end flare diameter. Measured at the most extreme pipe end diameter of the gasket seat area.

Out of roundness: Difference between maximum O.D. and minimum O.D. measured at 90° must not exceed total O.D. tolerance listed (reference column 2).

For IPS pipe, the maximum allowable tolerance from square cut ends is 0.03" for 1" thru 3½"; and 0.045" for 4".

Weld Seams must be ground flush with the pipe O.D. and ID prior to roll grooving. Failure to do so may result in damage to the roll grooving machine and unacceptable roll grooves may be produced.

▼ "A" tolerance +0.030" / -0.060" (+0.77 / -1.54 mm)



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