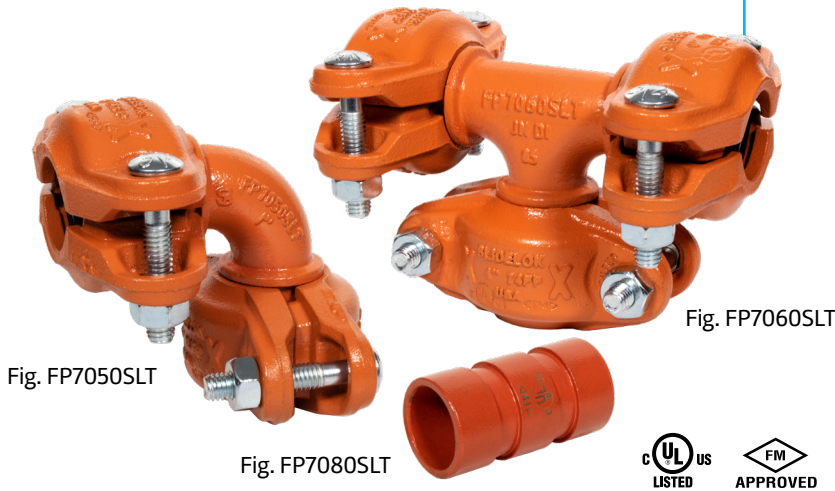


## 1" SLT Fittings

**Fig. FP7050SLT** SlideLOK Pre-Installed 90° Elbow & Coupling

**Fig. FP7060SLT** SlideLOK Pre-Installed Tee & Coupling

**Fig. FP7080SLT** Adapter Nipple (Groove x Groove)



ASC Engineered Solutions™ patented 1" SLT Fitting's geometry is combined with our patented SlideLOK® coupling to form Ready for Installation Fittings. SLT Technology is designed to reduce installation time by coming pre-assembled from the factory with no loose parts. Installation time for the 1" SLT Fittings is up to 50% less than similar industry grooved fittings.

The 1" SLT Fittings are designed to be used with standard roll, cut or swage grooved steel pipe, Gruvlok or SPF grooved end fittings and valves. The SLT Fittings are ideal for all types of applications where 1" grooved connections are required. They are painted to industry specification and are available galvanized for more corrosive environments.

These fittings are designed to provide quick connections with minimal pressure drop and uniform strength with all 1" grooved connections. All sizes are UL, ULC listed and FM approved (see table).

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

Additional Patents Pending

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

## 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

Nipple: 1" Carbon Steel, Schedule 40, Conforming to ASTM A53, Grade B

### 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 and

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

### Coatings

Rust inhibiting paint

Color: Orange (standard)

Hot Dipped Zinc Galvanized (optional)

### Gasket 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")

### 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:	

## SlideLOK® Pre-Installed 90° Elbow & Coupling, Tee & Coupling Fig. FP7050SLT, FP7060SLT

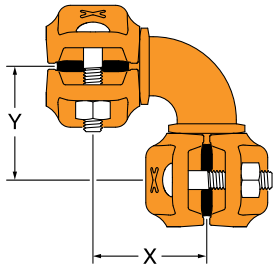


Fig. FP7050SLT

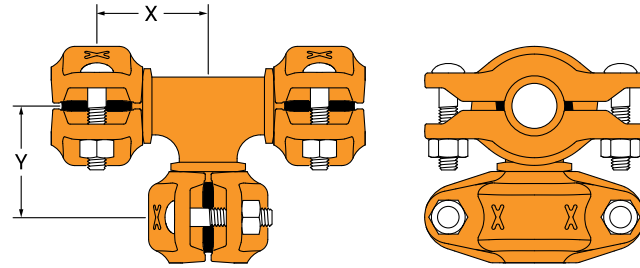


Fig. FP7060SLT

### FP7050SLT SlideLOK Pre-Installed 90° Elbow & Coupling

Nominal Size	Pipe O.D.	Max. Working 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	1.315	365	611	1/16	2 1/4	2 1/4	4	3/8 x 2 1/4 M10 x 57	3.57
25	33.4	25.2	2.72	1.6	57	57			1.6

### FP7060SLT SlideLOK Pre-Installed Tee & Coupling

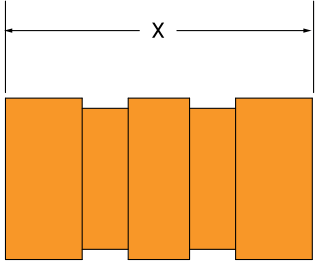
Nominal Size	Pipe O.D.	Max. Working Pressure	Max. End Load	Max. Separation	Assembly Dimensions		Coupling Bolts		Approx. Wt. Ea.
					X	Y	Qty.	Size	
In./DN(mm)	In./mm	PSI/bar	Lbs./kN	In./mm	In./mm	In./mm		In./mm	Lbs./kg
1	1.315	365	611	1/16	2 1/4	2 1/4	6	3/8 x 2 1/4 M10 x 57	5.52
25	33.4	25.2	2.72	1.6	57	57			2.5



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## Adapter Nipple (Groove x Groove) Fig. FP7080SLT



Nominal Size	Pipe O.D.	Max. Working Pressure	Max. End Load	Max. Separation	Dimensions E to E	Approx. Wt. Ea.
In./DN(mm)	In./mm	PSI/bar	Lbs./kN	In./mm	In./mm	Lbs./kg
1	1.315	365	611	1/16	2 1/4	0.9306
25	33.4	25.2	2.72	1.6	57	0.04



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## 1" SLT Fittings Fig. FP7050SLT, FP7060SLT, FP7080SLT

### Listings and Approvals

Manufacturer	Pipe	Groove	NPS Size Range	Pressure Rating	
				cULus	FM
			In./DN(mm)	PSI/bar	PSI/bar
Schedule 40*		Roll, Cut	1	365	365
			25	25.2	25.2
Schedule 10*		Roll	1	365	365
			25	25.2	25.2
Wheatland Tube	Mega-Thread	Roll	1	300	300
			25	20.7	20.7
	GL	Roll	1	300	300
			25	20.7	20.7
	MLT	Roll	1	300	300
			25	20.7	20.7
	WLS	Roll	1	300	NR
			25	20.7	—
Youngstown	EZ-Thread	Roll	1	300	300
			25	20.7	20.7
Bull Moose Tube	Eddy-Thread 40	Roll	1	300	300
			25	20.7	20.7

**Note:**

For the latest cULus pressure ratings, FM pressure ratings, and pipe approvals, please visit [asc-es.com](http://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. FP7050SLT, FP7060SLT, FP7080SLT 1" SLT Fittings**



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.

**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.

## 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 gasket compatibility chart.

SlideLOK pre-lubricated gasket does not require lubrication.

**Notice:** Gruvlok 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.

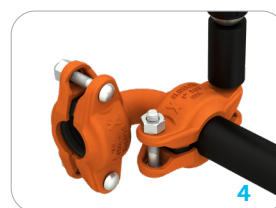
**Notice:** Uneven tightening may cause the gasket to pinch. Gasket should not be visible between segments after bolts are tightened.

**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



## 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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