



# National Fire Equipment Ltd.

## FIG. FP7074SLT SlideLOK® Pre-Installed Cap & Coupling

Anvil's patented SLT Cap's geometry is combined with our patented Slidelok® coupling to form the Industry's only Ready for Installation Cap. SLT Technology is designed to reduce installation time by coming pre-assembled from the factory with no loose parts. Installation time for the SLT Cap is up to 50% less than all other industry grooved caps. The SLT Cap is designed to be used with standard roll, cut or swage grooved steel pipe, Gruklok or SPF grooved-end fittings and valves. The SLT Cap allows for a maximum working pressure up to 450psi.



\* Patents: 9039046; 9168585; 9297484; 9534715;  
D680629; D680630; D696751  
Additional Patents Pending



SlideLOK Pressure  
Responsive Gasket



For Listings/Approval Details and Limitations,  
visit our website at [www.anvilintl.com](http://www.anvilintl.com) or  
contact an Anvil® Sales Representative.

### MATERIAL SPECIFICATIONS

#### HOUSING:

Cap: Ductile Iron conforming to ASTM A-536, Grade 65-45-12  
Coupling: Ductile Iron conforming to ASTM A-536, 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 and  
(2) Heavy Hex Nuts per ASTM A194, Grade 8.

#### LUBRICATION:

- Rust inhibiting paint Color: ORANGE (standard)
- Hot Dipped Zinc Galvanized (optional)

#### GASKETS: Materials

Properties as designated in accordance with ASTM D-2000.

#### 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,  
Gruklok Xtreme™ Lubricant is required.

#### GASKETS TYPE:

Properties as designated in accordance with ASTM D-2000.

- Grade "E" EPDM (Green color code)  
- 40°F to 230°F (Service Temperature Range)(-40°C to 110°C)  
Recommended for water service, diluted acids, alkalis solutions,  
oil-free air and many chemical services.  
NOT FOR USE IN PETROLEUM APPLICATIONS.

#### LUBRICATION:

Gruklok Xtreme™ (when required)



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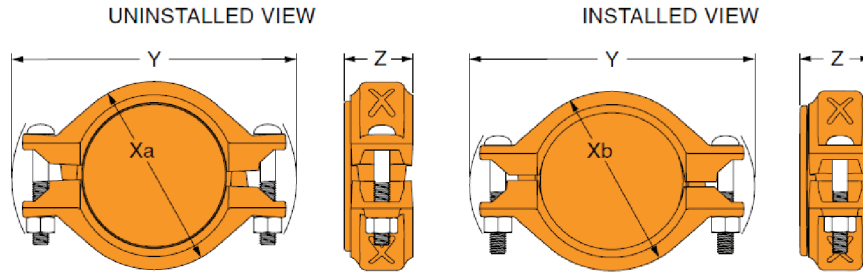
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**FIG. FP7074SLT SlideLOK® Pre-Installed Cap & Coupling**



FP7074SLT SLIDELOK PRE-INSTALLED CAP & COUPLING												
Nominal Size	Pipe O.D.	Max. Working Pressures	Max. End Load	Max. Separation	Coupling Dimensions				Coupling Bolts		Approx Wt. Ea.	
					Xa	Xb	Y	Z	Qty	Size		
In./DN(mm)	In./mm	PSI/bar	Lbs./Kg	In./mm	In./mm	In./mm	In./mm	In./mm		In./mm	Lbs./Kg	
1	1.315	450	611	1/16	2 11/16	2 1/2	5	2 1/8	2	3/8 x 2 1/4 M10 x 57	1.9	
25	33.4	31.0	2.72	1.6	68	64	127	54			0.9	
1 1/4	1.660	450	973	1/16	2 29/32	2 1/2	5 17/32	2 1/8	2	1/2 x 2 1/2 M12 x 63	2.4	
32	42.2	31.0	4.33	1.6	74	64	140	54			1.1	
1 1/2	1.900	450	1,275	1/16	3 5/32	2 3/4	5 11/16	2 1/8	2	1/2 x 2 1/2 M12 x 63	2.7	
40	48.3	31.0	5.67	1.6	80	70	144	54			1.2	
2	2.375	450	1,993	1/16	4 13/32	4	6 15/32	2 1/8	2	1/2 x 2 3/4 M12 x 70	3.3	
50	60.3	31.0	8.87	1.6	112	102	164	54			1.5	
2 1/2	2.875	450	2,921	1/16	4 3/16	3 11/16	6 11/16	2 1/8	2	1/2 x 2 3/4 M12 x 70	3.8	
65	73.0	31.0	12.99	1.6	106	94	170	54			1.7	
3	3.500	450	4,329	1/16	4 29/32	4 13/32	7 3/8	2 1/8	2	1/2 x 3 M12 x 76	4.8	
80	88.9	31.0	19.26	1.6	125	112	187	54			2.2	
4	4.500	450	6,361	1/8	5 31/32	5 13/32	8 11/16	2 1/4	2	1/2 x 3 1/2 M12 x 89	7.0	
100	114.3	31.0	28.30	3.2	152	137	221	57			3.2	



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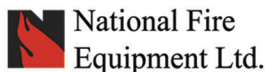
## FIG. FP7074SLT SlideLOK® Pre-Installed Cap & Coupling

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 - 4	450	450
			25 - 100	31.0	31.0
			5 - 6	300	300
			125 - 150	20.7	20.7
			8	400	400
			200	27.6	27.6
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
			8	400	NR
0.188 inch Wall		Roll	8	NR	400
			200	-	27.6
Wheatland Tube	Schedule 10	Swange	1 1/4 - 4	365	300
			32 - 100	25.2	20.7
	Mega-Flow	Swange	1 1/4 - 4	NR	300
			32 - 100	-	20.7
		Roll	1 1/4 - 4, 6	300	300
	32 - 100, 150		20.7	20.7	
	Mega-Thread	Roll	1 - 2	300	300
			25 - 50	20.7	20.7
	GL	Roll	1 - 2	300	300
			25 - 50	20.7	20.7
	MLT	Roll	1 - 2	300	300
			25 - 50	20.7	20.7
	WLS	Roll	1 - 2	300	NR
			25 - 50	20.7	-
Youngstown	Fire-Flow	Roll	1 1/2 - 4	300	300
			40 - 100	20.7	20.7
	EZ-Thread	Roll	1 - 2	300	300
			25 - 50	20.7	20.7
Bull Moose Tube	Eddy-Flow	Roll	1 1/4 - 4	300	300
			32 - 100	20.7	20.7
	Eddy-Thread 40	Roll	1 - 2	300	300
			25 - 50	20.7	20.7

For the latest cULus pressure ratings, FM pressure ratings, and pipe approvals, please visit [anvilintl.com](http://anvilintl.com) or contact your local Anvil 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. FP7074SLT SlideLOK® Pre-Installed Cap & Coupling

### WARNING



- Read and understand all instructions before use.
- Ensure system is drained and depressurized before installation or service.
- Use appropriate personal protective equipment.

## INSTALLATION INSTRUCTIONS

### 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 Anvil 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 Anvil gasket compatibility chart. SlideLOK pre-lubricated gasket does not require lubrication.

#### 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.

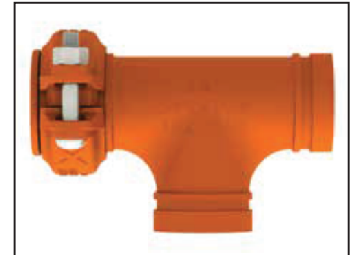
NOTICE: Gruvlok Xtreme Lubricant must be applied when used in dry pipe systems or freezer applications.

### STEP 3 – GROOVED PIPE ASSEMBLY



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

### STEP 3 – GROOVED FITTING ASSEMBLY



- A. Slide the open coupling end onto the grooved fitting end until the cap butts against the end of the fitting.  
 B. Align the open coupling key with the mating groove on the fitting. The bolts and nuts can 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.

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

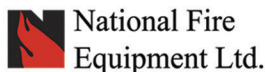
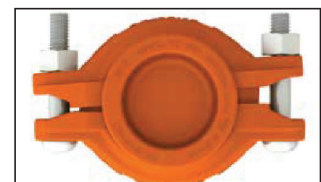
Visually inspect the pipe joint to assure the coupling keys are fully engaged in the pipe grooves. The bolt pads are to have equal gaps on each side of the coupling.

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.



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.



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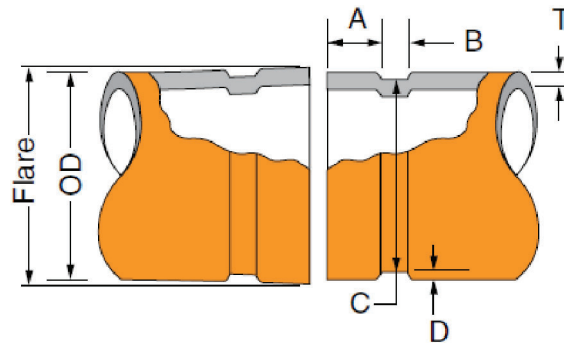
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**FIG. FP7074SLT SlideLOK® Pre-Installed Cap & Coupling**



FP7074SLT SLIDELOK PRE-INSTALLED CAP & COUPLING										
-1- Nominal Size	-2- O.D.			-3- "A" ±0.030/ ±0.76	-4- "B" ±0.030/ ±0.76	-5- "C" Actual	"C" Tol. +0.000	-6- "D" (Ref. Only)	-7- "T" Min. Allow. Wall Thick	-8- Max. Flare Dia.
	Actual	Tolerance								
In./DN(mm)	In./mm	+In./mm	-In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm
1 1/4 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
1 1/2 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
2 1/2 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

**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 3 1/2"; 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)