



Flexible Sprinkler Connection

FPSJ-4

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Technical Features

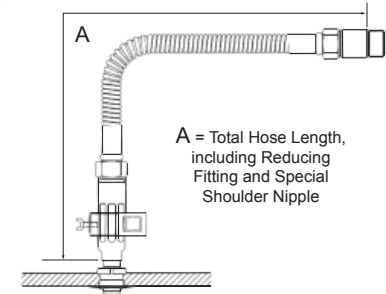
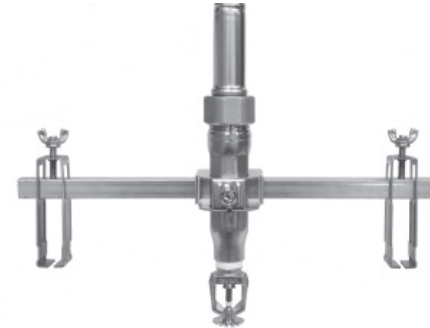
- **Sizes Available :** 38" (965mm) and 58" (1473mm) long.
1" Inlet. 1/2" or 3/4" outlet.
- **Temperature Data :** Maximum temperature : 300°F (149°C)
- **Pressure Data:**
 - **Maximum Working Pressure:** 200 PSI or 13.7 bar (14kgf/cm²)
 - **Test Pressure:** 1000 PSI / 70.3kgf/cm² (burst)
- **Connections:**
 - **Inlet:** 1" NPT male thread or DN25 BSP male thread.
 - **Outlet:** 1/2" NPT female thread or 3/4" NPT female thread

IMPORTANT TECHNICAL NOTES:

- **Minimum bend radius :** 3" (76 mm)
- **Maximum number of bends per hose :** 3
- **Friction Loss Data :**
 - Equivalent Length of DN25/1" Steel Pipe (including 3 bends)
 - FPSJ1000 = 34 ft. (10.4 meters)
 - FPSJ1500 = 43 ft. (13.1 meters)

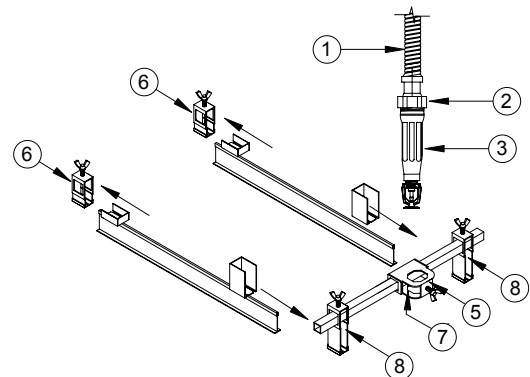
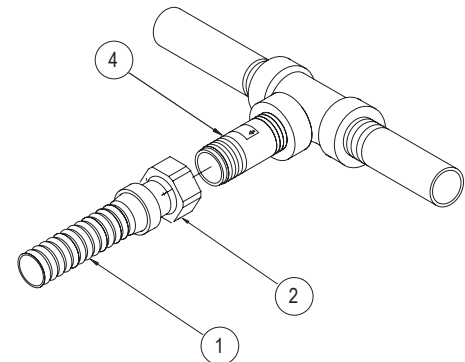


* UL Listing File Number Ex5290: Paradise Industry Co.Ltd.



Flexible Sprinkler Connection - FPSJ-4					Physical	
Nominal Size		Inlet Connection	Hose Length A (inch/mm)	Outlet Sprinkler Connection	Reference	Weight (lbs/kg)
inch	metric					
1"	DN25	1" NPT	38.0 / 965	1/2" NPT	FPSJ1000-50	2.5 / 1.13
				3/4" NPT	FPSJ1000-75	2.6 / 1.18
			58.0 / 1473	1/2" NPT	FPSJ1500-50	2.8 / 1.27
				3/4" NPT	FPSJ1500-75	2.9 / 1.32
		1" BSP	38.0 / 965	1/2" NPT	FPSJ1000B-50	2.5 / 1.13
				3/4" NPT	FPSJ1000B-75	2.6 / 1.18
			58.0 / 1473	1/2" NPT	FPSJ1500B-50	2.8 / 1.27
				3/4" NPT	FPSJ1500B-75	2.9 / 1.32

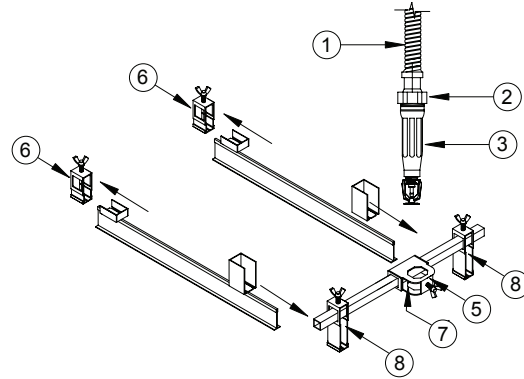
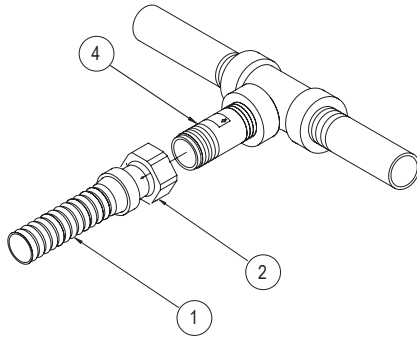
Flexible Sprinkler Connection - FPSJ-4			Materials	
Item	Description	Material	Specifications	
1	Flexible Hose	Corrugated Stainless Steel	AISI 316L / AISI 304	
2	Slip Nut	Brass	C3771BC	
3	Reducing Fitting (Outlet)	Zinc/Steel	SPPS	
4	Special Shoulder Nipple (Inlet)	Zinc/Steel	SPPS	
5	Reducing Nipple Clamp & Bolt	Galvanized Steel	SS41	
6	Bracket and Clip Assembly #1	Galvanized Steel	SS41	
7	Sprinkler Support and Cross Bar Assembly	Galvanized Steel	SS41	
8	Bracket and Clip Assembly #2	Galvanized Steel	SS41	





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Installation Instructions

Step 1: Insure the proper size hole has been cut into the ceiling tile at specified location. Install the special shoulder nipple into the line tee using the NPT threaded end. Make sure that the arrow and shoulder of the nipple are both pointing toward the direction of the sprinkler. Apply a non-hardening thread compound or Teflon tape to the male threads of the nipple. Make up the nipple with a pipe wrench for a leak-tight connection.

Step 2: Install the appropriate frame style sprinkler head to the special reducer fitting on the flexible sprinkler connection. (Note: Flush and Concealed sprinklers cannot be installed before the assembly is installed into the sprinkler support.) Apply a non-hardening thread compound or Teflon tape to the male threads of the sprinkler. Tighten the sprinkler to the special reducer end of the flexible sprinkler reducer with the appropriate sprinkler head wrench. Hand tighten slip nut to reducer.

Step 3: Connect the flexible sprinkler connection to the shoulder nipple - check for shoulder and arrow direction. Do not use any joint compound or thread compound on the fine threads of the shoulder nipple. Tighten the slip nut on the flexible connection to the shoulder nipple by hand (see cautions). The nipple and flexible connection are designed to seal in this fashion. Connect the sprinkler connection to the special reducer

Cautions :

- **Slip Nut must be tightened by hand.** Excessive force can damage the O-ring.
- Repeated bending of one portion of flexible connection before installation may cause breakage or loss of resisting pressure.
- Special shoulder nipple is composed of stainless hose and must not

fitting by hand. **Do not over tighten!**

Step 4: Attach the bracket and clip assembly, along with the sprinkler support and cross bar to the ceiling grid by hand using wing bolts provided. (Note: Bracket and Clip Assembly #6 is intended for use with pendent and recessed pendent frame style sprinklers. Bracket and Clip Assembly #8 is intended for use with Flush and Concealed style sprinklers.) Do not fully tighten wing bolts on the bracket and clip assembly until the sprinkler support is centered over the hole in the ceiling tile.

Step 5: Install the flexible sprinkler connection assembly including the frame style sprinkler into the sprinkler support and adjust the assembly until the proper sprinkler location below the ceiling is obtained. Tighten the wing bolt in the sprinkler support and recheck wing bolts on the bracket and clip assembly for tightness. **For Flush and Concealed sprinklers, do not install the sprinkler until after the drop has been inserted into the sprinkler support.**

Step 6 : Test the system for leaks per the Hydrostatic Test Procedure in the applicable Edition of NFPA 13.

Note : This product is designed to be installed in accordance with recognized installation standards, such as NFPA 13

be used as a ground for welding.

- When connecting the flexible connection assembly to the sprinkler piping, connect the nipple to the O-ring first; then connect it to the sprinkler reducer.
- For use in heated areas only.