SAFEX
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DATASHEET

Braided Flexible dropper (FM approved)

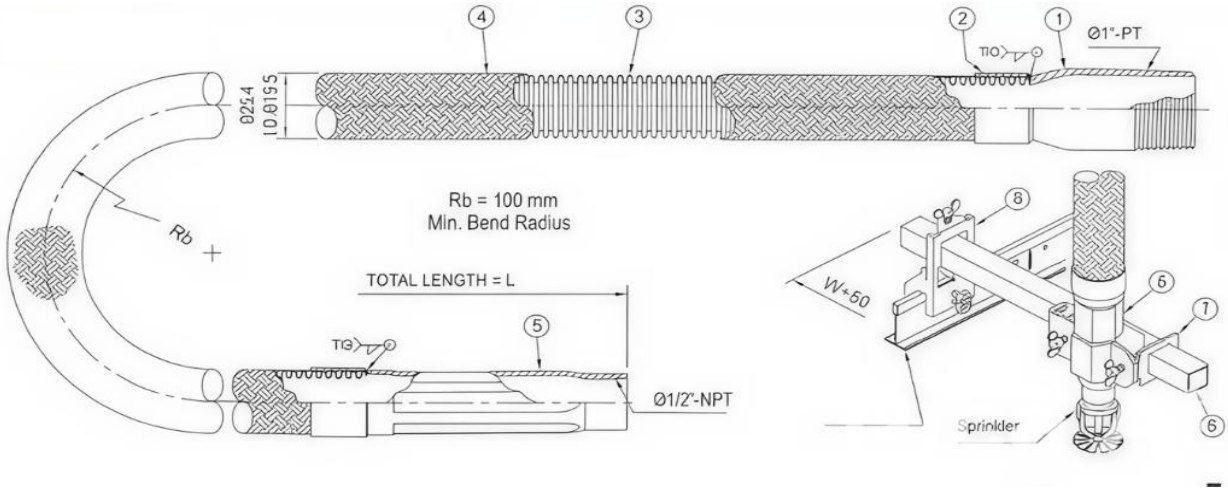
General description:

SAFEX SP joint (Flexible Sprinkler Hose Wih Fitings) to connect directly to fire sprinkler is designed to work on a returnable piping system into small space a wet system. It allows you to adjust any detailed dimension freely but is also economical since it reduces the time required for installation and that is fine finishes. In addition the SP joint is to be used to accordance with NFPA13, 13D AND 13R for limited flexibility applications.

Technical Data:

Rated Working Pressure	12.3kg (175 PSI)
Hydrostatic pressure	24.6 Kg/cm^2 (350 PSI)
Rated Working Temperature	40^{o}C to 200^{o}C
Useable Sprinkler	K5.6 for ½" and K8 for ¾"
Minimum Bend Radius	100mm (4")
Maximum ambient temperature	300^{o}F
Inlet by outlet	1" by ½"
Hose diameter	1" or ¾"

Model	Assembly Length	Number of maximum bends
SF SSI 700	700 mm	2
SF SSI 1000	1000 mm	3
SF SSI 1200	1200 mm	3
SF SSI 1500	1500 mm	3
SF SSI 1800	1800 mm	3



Material of Construction

Component	Material
Round nipple	SUS 304
Union	SS 400
Bellows	SUS 304
Adaptor	SUS 304
Square pipe	SPCC (GALVANIZED)
Adaptor holder	SPCC (GALVANIZED)
Pipe clamp	SPCC (GALVANIZED)
Flexible tube	SS 304
Slip nut	S20C
O ring	EPDM
Insulation collar	Nylon 66
Square bar	SS41
Fixing and wing bolts	SS41

FEATURES:

1. It can be installed into tiny space:
   If you use a SP joint you can install a returnable piping system even into such tiny space as beneath applications duct. A quick and accurate work can be performed through the configuration.

2. Quality and security of products:
   The bellows is made with thick SS, have good corrosion resistance and good shape features. One piece style structure. Preassembled and tested for pressure leaks in factory 100% before delivery.

3. Economical installation:
   Safex SP joint will help you meet dimensions easily and fast when installing returnable piping system. Thus you can reduce the cost.

INSTALLATION:

1. Check the appropriate place that the sprinkler head will be located.
2. The sprinkler head should be located close as possible to the centre of the distance between T bar grid.
3. Loosely insert the rectangular bar into the side brackets on both side to the T bar grid such that rectangular bar crosses the location where the sprinkler head will be installed.
4. Install the 1 male nipple into the line fitting using NPT threaded end. Make sure that the arrow and the shoulder of the nipple are both pointing towards the direction of sprinkler.
5. Correct SP joint to the 1 male nipple on the piping line. Tighten carefully to torque 8.5 Nm(lb-in) without twisting.
6. Bend the SP joint into a curve that locates nipple at the other end of SP joint. The SP joint arc should not be twisted and the arc should be large and smooth (The minimum bend radius of the arc is 100mm)
7. On the longer length of SP joint be secured to a fixed mounting location by every 600 mm, in order to provide more stable installation.

8. Push the angle pipe into the centre bracket to the rectangular bar. And verify if angle pipe is seated in the bracket and then precisely locate the sprinkler head in the right position vertically.
9. Tighten the fixing bolt of centre bracket by the torque of 8.5 Nm and tighten the fixing bolts on the two sides bracket for fixing the T bar grid and rectangular bar to maximum torque of 3.4 Nm.
10. After tightening all the fixing bolts verify that sprinkler head is still properly located in accordance with installation instruction.
11. Attach the sprinkler head to the angle pipe put a wrench on the angle pipe to counteract the tightening torque and prevent the SP joint from twisting, and then tighten the sprinkler head in all accordance with manufactures installation instruction.

Note: The ceiling structure for flexible sprinkler hose installation should follow intermediate duty system and heavy duty system in ASTM C635 and C636.

CAUTIOUS:

1. When transporting and loading SP joint, make sure that there is no piercing material on ground in order to prevent damage to the product.
2. Products may be damaged if piled up higher that 5 layers in the box.
3. Repeated bending of portion before the installation will cause breaking or loss of resisting pressure.
4. SP joint is composed of stainless grater, and must not be used as an earth for welding.
5. When connecting nipple and joint, connect nipple to O ring contact point (PF). If connected in opposite (PT) direction, a leakage may occur.
6. Check the thread of pipe and nipple, if it is PT or NPT.
7. Don’t use wrench when assembling.
8. When bending the flexible hose, check whether it meets product specifications by using a bending radius gauge.