

Flexible Sprinkler Hose complete with Residential Bracket



PIC. 1 Fesco© Flexible Sprinkler Hose complete with Adjustable Bracket

General Description

Fesco© Flexible Sprinkler Hose complete with Residential Bracket connects directly to the fire sprinkler. The flexible hose complete with adjustable bracket is FM approved and is a convenient alternative to fixed steel pipe sprinkler systems.

The new adjustable bracket is designed for confined ceiling spaces, allowing for easy adjustment for sprinkler height and fast and economical installation.

Technical Data

- Maximum Working Pressure: 1205kPa (175 PSI)
- Maximum Temperature: 149°C (300°F)
- Usable Sprinkler: 1/2 inch (k =5.6)
- Minimum Bend Radius: 305mm (12 inch)
- Equivalent length of 1 inch Sch 40 Steel Pipe (C= 120)

Flexi Hose

Model	Length	EQL (Max) ½ in.	Number of Bends
FDB281200RES	1090mm	54.4ft(16.6m)	2
FDB281500RES	1390mm	66.6ft (20.1)	3
FDB281800RES	1690mm	77.7ft (23.6)	4

Residential Bracket

Part	Length (mm)
Bracket	60, 100, 140
Elbow	60, 120

Benefits

Fesco© Flexible Sprinkler Hose complete with Residential Bracket provide many benefits for the installation or retrofit compared to fixed sprinkler.

1. Quick and Easy to install.
2. Improved performance and installation quality.
3. Precise location of sprinklers.
4. Flexible application for seismic application.
5. Corrosion resistant materials.
6. Few tools are required for installation.
7. 100% factory tested.
8. FM approved.

Fesco© Flexible Sprinkler hoses are a complete unit assembly including 28mm diameter corrugated stainless steel flexible hose with braided exterior for lowest friction loss in the industry. A residential bracket assembly is included to secure the complete flexible hose assembly to the typical pendant frame sprinklers with flat or recessed escutcheons in the required position.

Fesco© Flexible Sprinkler hoses are available in various lengths to minimise the number of installed bends and meet the minimum materials requirements of the installation, but it not intended for vertical orientation with no bend.

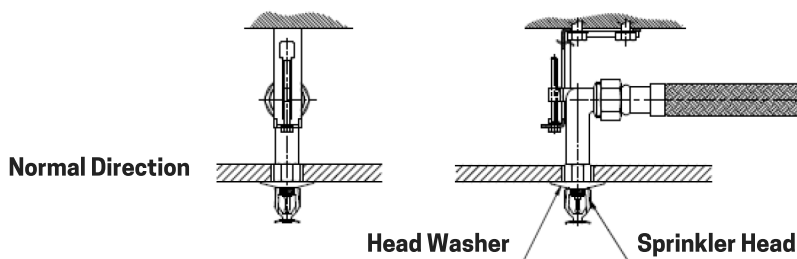


Fig. 1 Fesco© Flexible Sprinkler Hose complete with Adjustable Bracket - Example of Installation

Installation Instructions

1. Using the appropriate anchor bolt under the slab (on ceiling), place the residential bracket assembly to have the sprinkler head in the correct position.
2. Connect the elbow of the residential bracket assembly to the SP-Joint inlet. Screw by 8.5Nm (75 lb-in) torque.
3. Install the 1 inch male nipple into the line fitting using the BSP threaded end.
4. Connect the the SP-joint to the 1 inch male nipple on the piping line. Tighten carefully to to 8.5Nm (75 lb-in) without twisting. Do not over tighten. Use appropriate sealant.
5. Ensure proper length of flexible hose from the branch line connection to the sprinkler location. Insure that the maximum number of specific bends, with the minimum bend radius, are adhered to. A radius tool may provide the proper minimum bending radius of 305mm (12in). To minimise friction lost, a large bending radius is recommended. However it must be a smooth, Constant radius. Note that the radius of flexible hose must not fall in the non-corrugated ends.
6. On the longer length of the SP-Joint, it is recommended that the SP-Joint be secured to a fixed mountin location by every 600mm (24in.) in order to provide stable installation.
7. Usint the height adjustable bolt, check the sprinkler head is positioned correctly, as per previously outlined.
8. Attache the sprinkler head tot he elbow. Put a wrench on the elbow to counteract the tightening torque and prevent the Sp-Joint from twisting. Then tighten the sprinkler head in accordance with manufactureers installation instructions.

Cautions

1. When transporting and loading Fesco© Flexible Sprinkler hoses make sure that there is no piercing material on the ground in order to prevent damages onto products.
2. Products may be damaged if piles up higher than 5 Layers of boxes.
3. Repeated bending of one portion before the instillation will cause breaking or loss of resisting pressure.
4. Fesco© Flexible Sprinkler hose is composed of stainless grater, and must not be used as an earth for welding.
5. Check the thread of a pipe and nipple, if is is BSP or NPT. Must be used same as spec.
6. Connect the flexible hose to the nipple by hand-tightening assembly without pipe wrench.
7. To adjust height use hexagon box wrench or screwdriver on the bolt (200±50mm).

Part List

- ①Flexible Tube: STS304
- ②Braid: STS304
- ③Braid Ring(IN): STS304
- ④Braid Ring(OUT): STS304
- ⑤Slip Nut: S20C
- ⑥O-Ring:EPDM
- ⑦Nipple: SPPS
- ⑧Insulation Collar: Nylon66
- ⑨Reducing Nipple (90°): S20C
- ⑩Bracket: SPCC
- ⑪Setting Bolts & Snap Ring: SS40

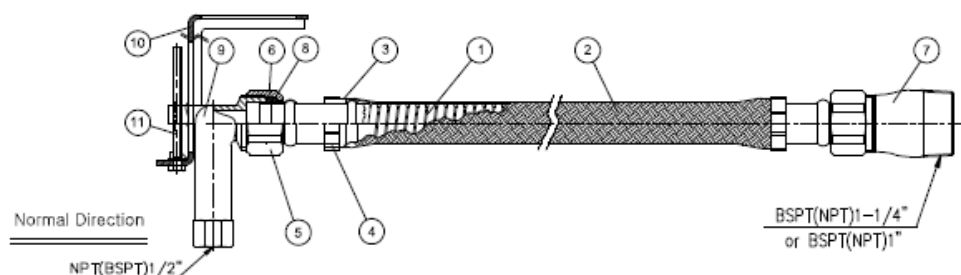


Fig. 2 Fesco© Flexible Sprinkler Hose complete with Adjustable Bracket