

**Flexible Hose**

**Model: FIS - FH / FIS - FHB**

Version 1.01  
March 2026 release

## Flexible Hose Model: FIS-FH / FIS-FHB



### Flexible Sprinkler Drops Friction Loss Data

Model	Inlet/ Outlet Size (inches)	Assembly Length mm (inches)	K-Factor (Imperial) gpm/vpsi (l/min/vba)		Minimum Bend Radius Inch (mm)		Max Number of 90° bends		Equivalent Length of 1"Sch. 40 pipe (feet)		Rated Working Pressure (psi)			
			UL	FM	UL	FM	UL	FM	UL	FM	UL	FM		
FIS-FH	1 X 1/2	700 (28)	5.6 (80.6)	-	4.0 (102)	-	2	-	32	-	200	-		
		1000 (36)							55		200			
		1200 (48)							64		200			
		1500 (60)							75		200			
		1800 (72)							81		200			
	1 X 3/4	700 (28)	5.6 (80.6)	-	4.0 (102)	-	2	-	31	-	200	-		
		1000 (36)							50		200			
		1200 (48)							57		200			
		1500 (60)							68		200			
		1800 (72)							79		200			
FIS-FHB	1 X 1/2	700 (28)	5.6 (80.6)	5.6 (80.6)	3.0 (77)	9.0 (230)	3	1	18	22.9	200	200		
		1000 (36)							5	2	23	34.6	200	200
		1200 (48)							7	3	29	41	200	200
		1500 (60)							9	4	39	50.4	200	200
		1800 (72)							12	4	50	58.5	200	200
									12	4	50	58.5	200	200
	1 X 3/4	700 (28)	8.0 (115)	8.0 (115)	3.0 (77)	9.0 (230)	3	1	20	15.7	200	200		
		1000 (36)							5	2	24	26.9	200	200
		1200 (48)							7	3	31	34.3	200	200
		1500 (60)							9	4	40	43.8	200	200
									9	4	40	43.8	200	200
		1800 (72)							12	4	70	53.4	200	200
									12	4	70	53.4	200	200

### Dimensions Offered

Type	Unbraided	Braided	
Outer Diameter (mm)	25	28	32
Length (mm)	700	700	600 792
	1000	1000	915
	1200	1200	1220
	1500	1500	1525
	1800	1800	1830
Inlet Nipple	1" NPT or BSPT male thread		
Outlet Reducer	1/2", 3/4", 3/8" NPT or BSPT female thread		

### Materials Specifications

Flexible Hose	Stainless Steel 304
Gasket	EPDM, Silicone
Isolation Ring	Nylon
Nut & Nipple	Metal zinc plated
Reducer	SGP, zinc plated
Both braided and unbraided types are made from the same materials for each component.	

## Elbow Reducer

An elbow reducer simplifies pipe installation in tight spaces where the main pipe and ceiling are too close for a standard reducer.

## 90 DEG Long Reducer Elbow 152\*162 Model: FIS-RE4



Specification	
Size	162 X 152mm
Type	Standard

## 155mm Welded Reducer Elbow Model: FIS-RE3



Specification	
Length	140, 155mm
For tight ceiling	

## 90 DEG Short Reducer Elbow 82mm Model: FIS-RE2



Specification	
Length	42, 62, 82mm
Designed to fit with hook bracket	

## Adjustable Reducer Elbow Model: FIS-RE1



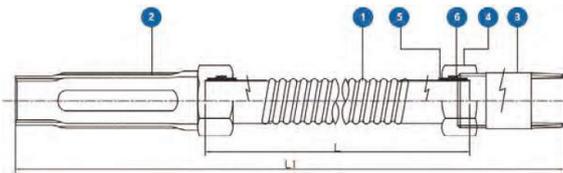
Specification	
Length	42, 62, 82mm
Adjustable after installation	
Less tools needed	

## Unbraided Flexible Hose With Fittings Model: FIS-FH

Designed for tight spaces and quick installations, the unbraided flexible sprinkler hose offers a corrugated design, secure inlet and outlet fittings, and a ceiling bracket for easy mounting.

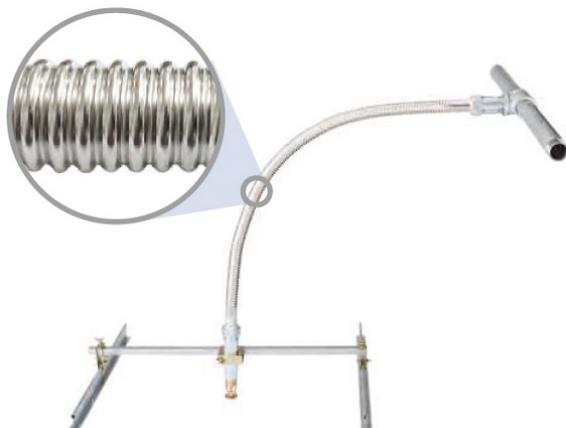
Ideal for efficient setups with fewer components, it ensures a streamlined installation process at a lower cost.

System components	
1	Flexible Tube
2	Reducer
3	Nipple
4	Slip Nut
5	Isolation Ring
6	Gasket



### Features

- Light weight
- Cost-Effective



Technical Data	
Hose diameter	OD 25.1mm ID 21.4mm
Max. Ambient Temperature	225°F / 107°C
Max. Working Pressure	200 psi / 1380 kPa
Min. Bend Radius	102mm / 4"

### Components

Each set consists of:

- 1 x unbraided flexible hose
- 1 x reducer
- 1 x nipple
- 1 x center bracket
- 1 x square bar
- 2 x end brackets

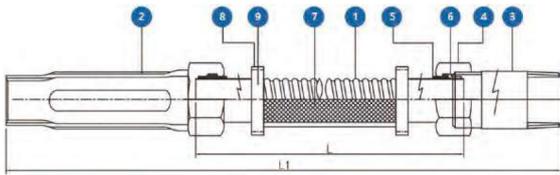


## Braided Flexible Hose With Fittings Model: FIS-FHB

Braided hoses are reinforced with stainless steel braiding for extra strength and resistance to damage, vibrations, and seismic activity.

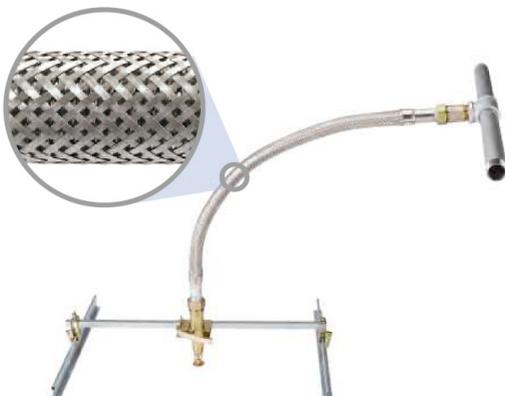
They feature an inlet fitting for easy branch line connection, an outlet fitting for sprinkler attachment, and a ceiling bracket for secure mounting. Perfect for installations demanding durability and flexibility.

System components	
1	Flexible Tube
2	Reducer
3	Nipple
4	Slip Nut
5	Isolation Ring
6	Gasket
7	Braided Flexible Hose



### Features

- Narrow pitch for flexibility
- High pressure resistance
- Less prone to kinking
- Enhanced flexibility



Technical Data	
Hose diameter	OD 28.0mm ID 27.4mm
Max. Ambient Temperature	225°F / 107°C
Max. Working Pressure	200 psi / 1380 kPa
Min. Bend Radius	76.2mm / 3"(UL) 230mm / 9" (FM)

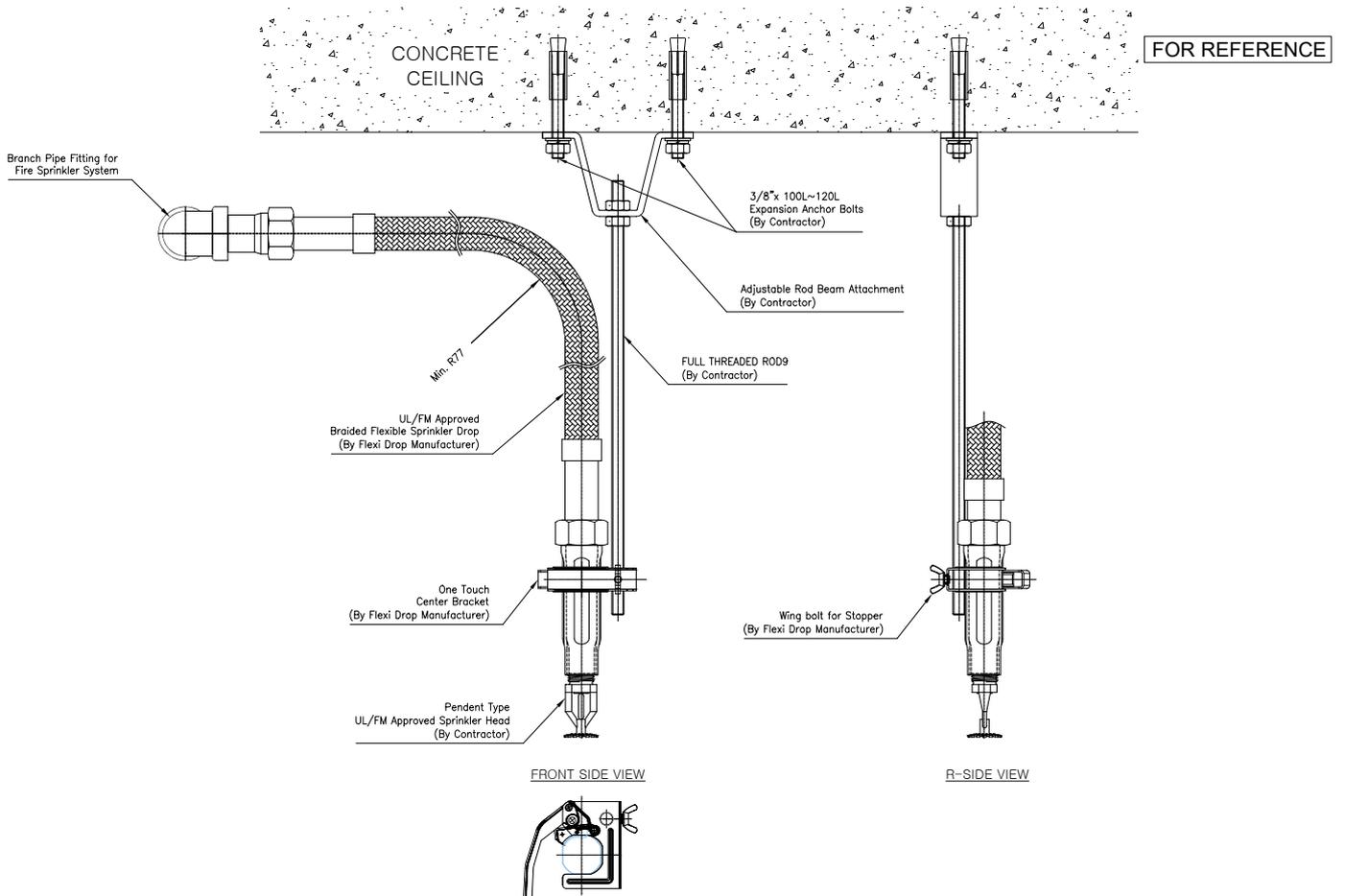
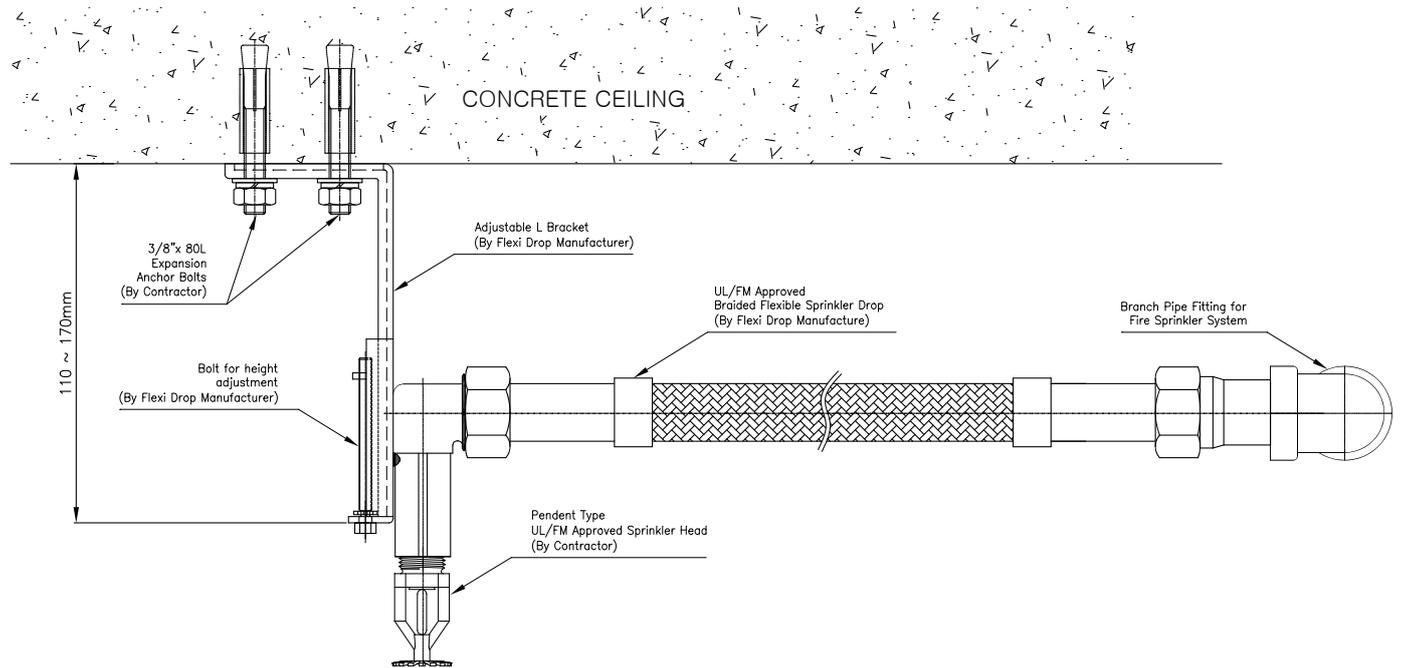
### Components

Each set consists of:

- 1 x braided flexible hose
- 1 x reducer
- 1 x nipple
- 1 x center bracket
- 1 x square bar
- 2 x end brackets



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