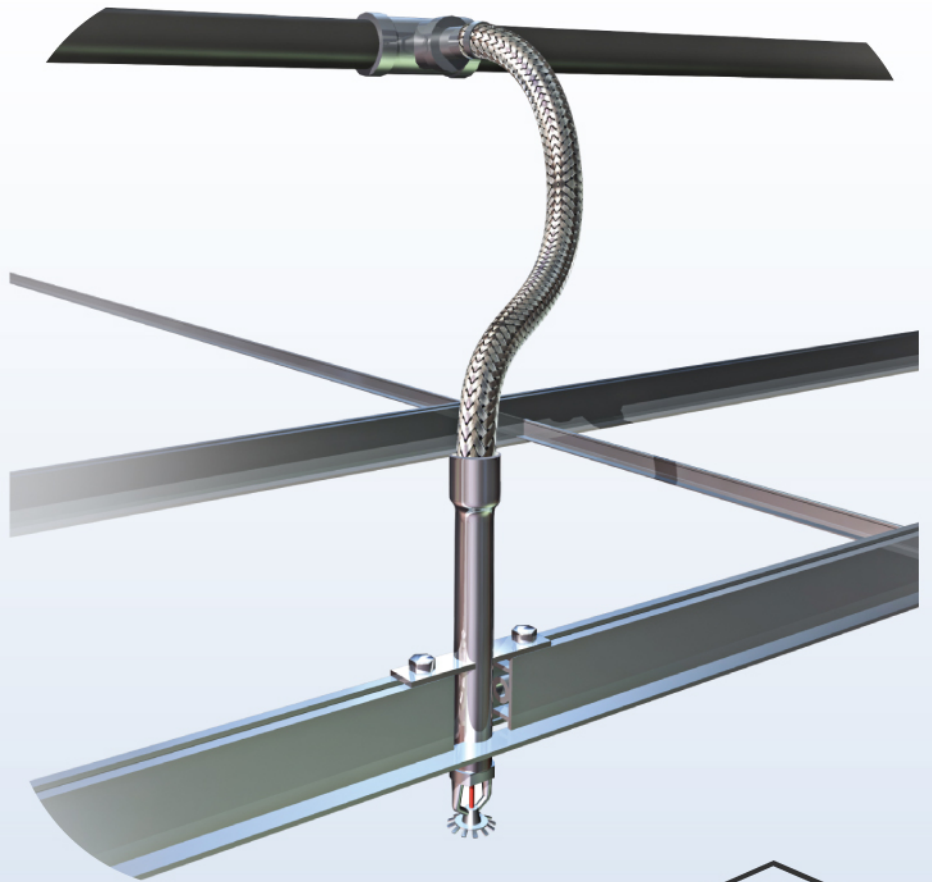


Cleanroom Ceiling Sprinkler Drop

*with one of the best
FM approved friction loss data*



Easyflex Cleanroom Ceiling Sprinkler Drop

** No welding needed for assembly. 100% factory leakage tested.*

Introduction

Since 1989, Easyflex sprinkler systems have been installed and protected cleanrooms throughout the world. Based on FM approved 1637 standards, Easyflex cleanroom sprinkler drop resulted in one of the best friction loss data. Our sprinkler system provides maximum protection against fire, and eliminates particles and contaminants. Designed to work with any major ceiling grid manufacturer's products, our ready-to-use sprinkler system comes complete with flexible stainless steel hose connected to one piece stainless steel sprinkler drop with O-Ring seal and grid attachment. Easyflex one-piece stainless system is 100% factory tested for leakage and pressure.

Easyflex cleanroom sprinkler system requires no in-field assembly and simply takes about 10 minutes of installation by connecting to the sprinkler main pipe and inserting one-piece stainless steel sprinkler drop with O-ring seal through the ceiling grid and securely fastening it down. The flexible connection between the sprinkler main and ceiling grid dissipates any vibration even during seismic activities.

Unlike traditional hard pipe method and installation, Easyflex sprinkler system reduces installation time significantly that cleanrooms can be certified and online faster. Unlike the alternative, relocation of Easyflex system can be done without shutting down and draining the entire fire sprinkler system.

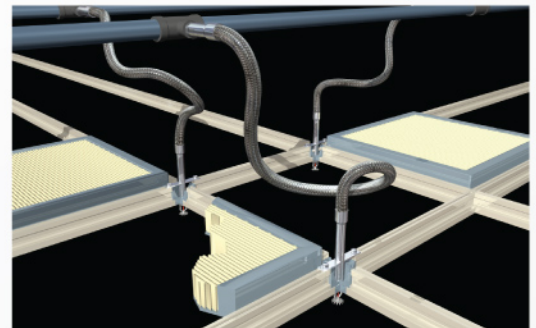
With one of the best FM approved friction loss data, Easyflex individually customizes cleanroom sprinkler drops based upon different manufacturer's ceiling grid system.

System Option

Braided flexible stainless steel hose in lengths:
2.5, 3.9, 5.6 ft.

Features and Benefits

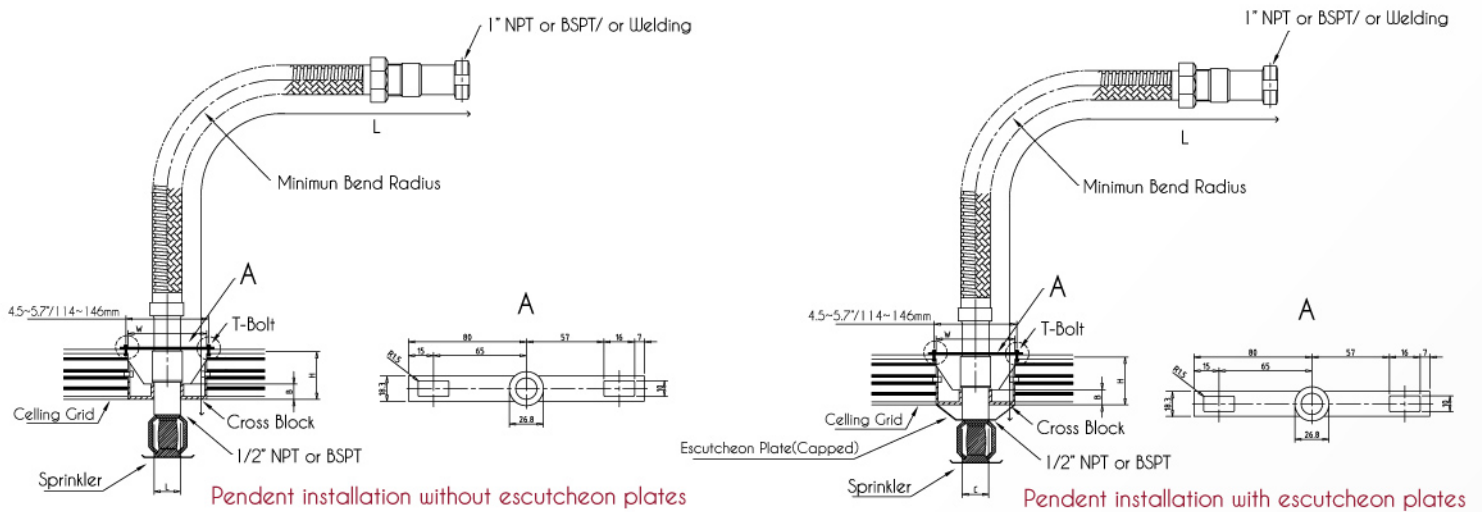
- FM approved right out of the box. Meets all insurance requirements
- Leak-tested assembly installs in a fraction of hard-pipe installation time – accelerating cleanroom certification and operational readiness
- Allows quick and easy relocation when floor plan changes due to reconfiguration of tool layout
- Allows for independent motion (sway) between ceiling grid and water main to accommodate filter vibration and during possible seismic activity – eliminating potential leaks and protecting gel seals
- Eliminates ceiling stress/leaks due to mis-aligned hard pipe installation
- Uniform sprinkler-head protrusion through grid and stainless steel construction eliminate the need for unsightly escutcheons.



Friction loss

Model#	Orifice Size	Hose Assembly Length ft(m)	Equivalent Length of 1" sch. 40 pipe ft(m)	Max. Rated Pressure psi (Kpa)
EFSPC-01A	1/2 in.	2.5 (0.75)	1.6 (0.5m)	175 psi (1205 Kpa)
EFSPC-02A	1/2 in.	3.9 (1.2)	9.5 (2.9)	175 psi (1205 Kpa)
EFSPC-03A	1/2 in.	5.6 (1.7)	13.6 (4.1)	175 psi (1205 Kpa)

Easyflex Cleanroom Ceiling Sprinkler Drop can be customized based on different manufacturer's ceiling grid systems.



Approval

FM (Factory Mutual) approved – File #3022507

Installation

1. Apply pipe joint compound or PTFE Tape to the male threads of the sprinkler. Install the sprinkler into the reducer following the sprinkler manufacturer's installation instructions.
2. Insert the assembled component into the pre-determined location in the cleanroom ceiling grid. Be careful not to damage the sprinkler during insertion. Make sure the bends in the stainless steel flexible hose comply with requirements in the Easyflex's installation instructions.
3. Align the holes in the fixing plate with the holes in the ceiling grid. Tighten the appropriate hardware completely to secure the fixing plate to the ceiling grid.
4. Install any ceiling grid face plates, sprinkler escutcheons, elastic decorative rings or covers, and other necessary accessories.
5. Test the system for leaks in accordance with NFPA guidelines.

Technical Data

Max. Working Pressure Rating	175 psi	Max. Bending Radius	8" by FM *DO NOT bend within 2.25" from connection nuts	
Max. Ambient Temp. Rating	225 °F			
Connection	Inlet	1" NPT	K-Factor	1/2" Outlet 5.6
	Outlet	1/2" NPT		

Feature & Material

HOSE		MATERIALS	
Length	2.5', 3.9' and 5.6'	Hose/Braid	Stainless Steel 304
Size	1/2" Outlet, 1" Inlet	Outlet Reducer, Inlet Nipple and Flanges	Stainless Steel 304
Type	Braided Hose With Flanges Welded to Outlet Reducer	O-ring Seal	EPDM

Model Number and Friction Data

Model#	Length	Outlet size	Max.# of 90° Bend	Equivalent Length of 1" Sch. 40 pipe in ft.(FM)
EFSPC-01A	2.5 ft.	1/2"	1	1.6
EFSPC-02A	3.9 ft.	1/2"	3	9.5
EFSPC-03A	5.6 ft.	1/2"	4	13.6

* Data on Max. number of bend is provided as recommendation by Easyflex and FM used Max. 4 bends for their test.





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