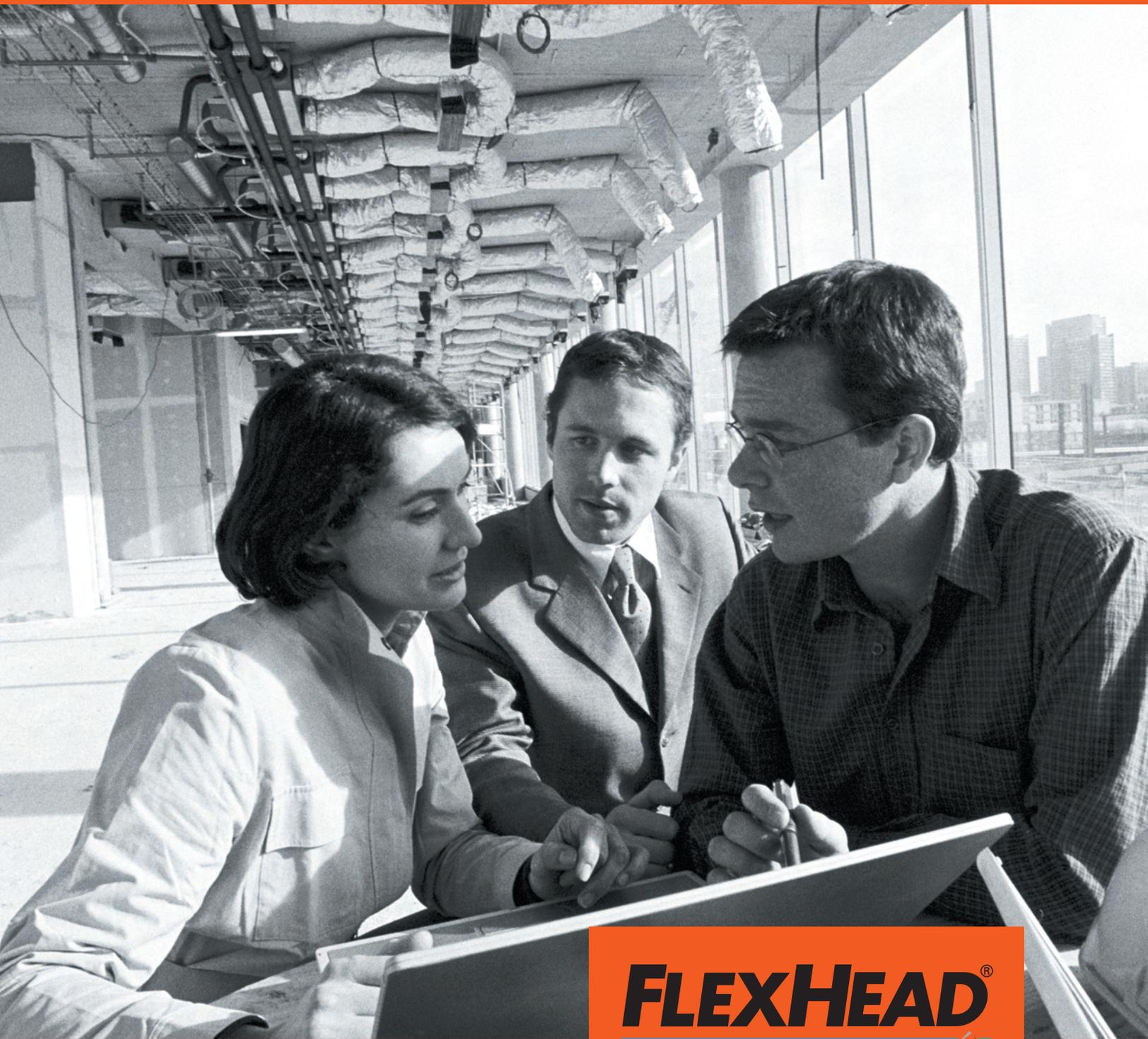


# FlexHead commercial fire sprinkler connections



**Your connection to  
higher productivity.  
And lower costs.**

**FLEXHEAD<sup>®</sup>**

INDUSTRIES 

*The pioneers in flexible fire protection*



N.Y.C. MEA #261-99-E  
CA: OPA-0672

# Friction Loss Data and Specifications

F R I C T I O N L O S S	FlexHead Model #	Outlet (orifice) Size in(cm)	Hose Assembly Length ft(m)	Maximum Number of 90-Degree Bends (3 in. Bending Radius)	Maximum Equivalent Length of Schedule 40, Nominal 1 in. Diameter Pipe, ft		Maximum Ambient Temperature Rating F(C)	Maximum Rated Pressure	Maximum K-factor
					FM	UL		H-Series psi (kPa)/psi (kPa)	
	2024, 2024H	1/2(1.27)	2(0.6)	3	3.5, 11	11	300°(148°)	175(1205)/300(2068)	5.62
	2036, 2036H	1/2(1.27)	3(0.9)	3	4.8, 19	16	300°(148°)	175(1205)/300(2068)	5.62
	2048, 2048H	1/2(1.27)	4(1.2)	4	6.8, 21	24	300°(148°)	175(1205)/300(2068)	5.62
	2060, 2060H	1/2(1.27)	5(1.5)	4	8.5, 24	29	300°(148°)	175(1205)/300(2068)	5.62
	2072, 2072H	1/2(1.27)	6(1.8)	4	8.9, 27.5	35	300°(148°)	175(1205)/300(2068)	5.62
	2024 75, 2024H 75	3/4(1.90)	2(0.6)	3	7.8, 15.3	12	300°(148°)	175(1205)/300(2068)	14.0
	2036 75, 2036H 75	3/4(1.90)	3(0.9)	3	8.1, 22.3	18	300°(148°)	175(1205)/300(2068)	14.0
	2048 75, 2048H 75	3/4(1.90)	4(1.2)	4	17.9, 32.1	23	300°(148°)	175(1205)/300(2068)	14.0
	2060 75, 2060H 75	3/4(1.90)	5(1.5)	4	19.9, 35.4	29	300°(148°)	175(1205)/300(2068)	14.0
	2072 75, 2072H 75	3/4(1.90)	6(1.8)	4	24.3, 42.9	32	300°(148°)	175(1205)/300(2068)	14.0
	2024E, 2024HE	1/2(1.27)	2(0.6)	3	5.5, 13	19	300°(148°)	175(1205)/300(2068)	5.62
	2036E, 2036HE	1/2(1.27)	3(0.9)	3	6.8, 21	23	300°(148°)	175(1205)/300(2068)	5.62
	2048E, 2048HE	1/2(1.27)	4(1.2)	4	8.8, 23	27	300°(148°)	175(1205)/300(2068)	5.62
	2060E, 2060HE	1/2(1.27)	5(1.5)	4	10.5, 26	32	300°(148°)	175(1205)/300(2068)	5.62
	2072E, 2072HE	1/2(1.27)	6(1.8)	4	10.9, 29.5	35	300°(148°)	175(1205)/300(2068)	5.62
	2024E 75, 2024HE 75	3/4(1.90)	2(0.6)	3	9.8, 17.3	18	300°(148°)	175(1205)/300(2068)	14.0
	2036E 75, 2036HE 75	3/4(1.90)	3(0.9)	3	10.1, 24.3	23	300°(148°)	175(1205)/300(2068)	14.0
	2048E 75, 2048HE 75	3/4(1.90)	4(1.2)	4	19.9, 34.1	23	300°(148°)	175(1205)/300(2068)	14.0
	2060E 75, 2060HE 75	3/4(1.90)	5(1.5)	4	21.9, 37.4	29	300°(148°)	175(1205)/300(2068)	14.0
	2072E 75, 2072HE 75	3/4(1.90)	6(1.8)	4	26.3, 44.9	32	300°(148°)	175(1205)/300(2068)	14.0

Model Numbers: The “H” designates high pressure unit rated to 300 psig and the “E” designates elbow style unit.

FlexHead products are intended for use in hydraulically designed wet, pre-action, deluge or dry pipe sprinkler connections per NFPA 13, 13R, and 13D guidelines. The hydraulic loss of the FlexHead connector needs to be included in the hydraulic design calculations the same as a valve or fitting. *Each FlexHead sprinkler drop has a 3” minimum bend radius per UL guidelines, and a 7” minimum bend radius per FM guidelines.*

\* Equivalent lengths are shown with maximum number of 90 degree bends at the minimum bend-radius. Different values were obtained by FM and UL due to the differences in minimum bend radius, testing protocol and calculation methods. Please see individual testing standards for more information relative to friction loss (Equivalent Length of Pipe).

Pressure surges aren’t a risk for FlexHead connection systems. Our fully braided stainless steel hose is rated to 300 psi.

## Let FlexHead make your connection today.

### Engineers

Stainless steel quality at black iron costs  
Fast-track construction  
Simplified project management  
Cost-effective code compliance  
Seismically qualified

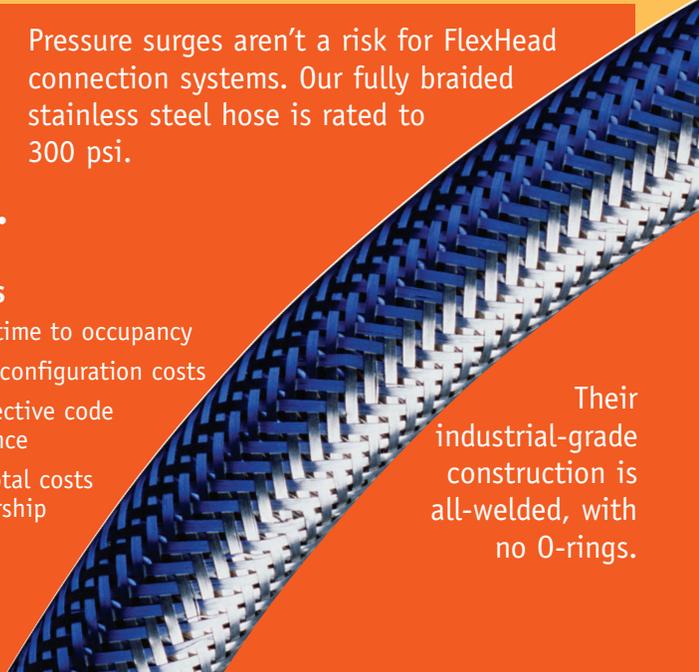
### Contractors

Lower installation costs  
More productive installers  
No punch list items  
Highest quality available  
More flexible scheduling  
Competitive advantage for your company

### Owners

Shorter time to occupancy  
Lower reconfiguration costs  
Cost effective code compliance  
Lower total costs of ownership

Their industrial-grade construction is all-welded, with no O-rings.



# Connect sprinkler heads to sub-mains at least four times faster.

FlexHead systems connect sprinkler heads to sprinkler sub-mains in about a quarter of the time it takes to install hard pipe. Add in the fact that less-skilled people can do the work, and you're looking at significant productivity gains.

Expect even greater savings in retrofits, where FlexHead installs six to seven times faster than hard pipe.

Everything about FlexHead says "fast installation." You don't need to install bracing or hangers. There's no on-site assembly. Every sprinkler connection is a finished, pre-constructed assembly, from the 1" pipe connector to the sprinkler head outlet.

You pay a little more for FlexHead connections compared to black iron armovers. But their labor savings far exceed the materials premium.

## Installation is simple

It doesn't matter whether the sprinkler head is semi-recessed, full pendant or fully concealed, it's a snap to attach to a FlexHead connection system.

- 1 Attach the bracket to t-bar ceiling grid.
- 2 Connect the FlexHead sprinkler drop to the submain.
- 3 Secure sprinkler drop to the bracket.

That's it! No more wasted hours spent hard-piping. No more frustration over changes to blueprints. No more lost time fixing leaks and other problems common to hard-pipe armovers.

Each connection is ready to install right out of the box. It comes complete with a mounting bracket—compatible with any suspended or Sheetrock ceiling system—and a one-piece, leak-tested FlexHead sprinkler drop.

## Want pinpoint locations? No problem.

The design makes it easy to accurately locate sprinkler heads every time. If the spec calls for center-of-tile placement, you can do it with ease. In fact, you get center-of-tile placement every install whether the spec calls for it or not. It takes one more headache out of specifying and bidding.

## Accommodate floor plan changes.

Need to relocate sprinkler heads? No problem. With its built-in flexibility it's much easier to move heads to a new location to accommodate new layouts or uses of the space.

## Retrofits in less time.

Need to comply to code in unsprinklered buildings? In contrast to costly and labor-intensive hard-pipe retrofits, FlexHead connections install in minutes in even the most restrictive spaces.

## Shorten your time to occupancy.

Faster installation times help get end-users into their spaces more quickly—and get installers on their next projects faster. FlexHead connections virtually eliminate punch list items commonly found with hard-pipe armovers.

## Green Benefits

Millions of gallons of water are drained from sprinkler piping every year. FlexHead products help minimize hydrostatic testing and eliminate the need to drain down the system when relocating sprinkler heads.

## Three steps to faster installations.



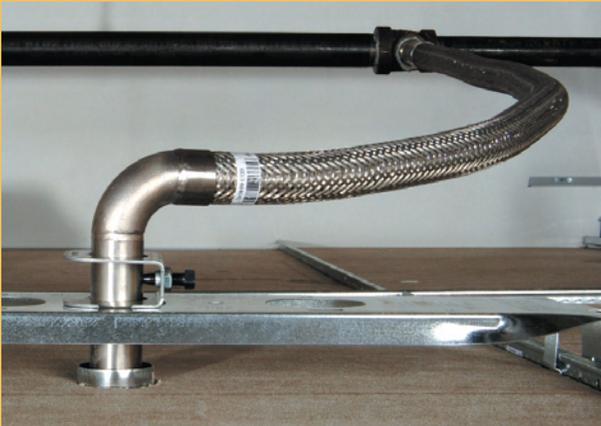
Attach bracket to t-bar ceiling grid.  
*Connection also compatible with Sheetrock ceilings*



Connect FlexHead sprinkler drop to submain.



Secure FlexHead sprinkler drop to bracket.



**Elbow style unit used in confined space applications.**

### FM approved and UL listed

All FlexHead sprinkler connections are Factory Mutual Approved and Underwriters Laboratories listed for suspended or sheetrock ceiling installations. Tests include hydrostatic pressure, vibration, friction loss, fatigue, head deployment, corrosion and water hammer.

Our commercial connections also conform to these industry standards:

- Approved for use in suspended ceilings with light, medium, and heavy-load grids (**ASTM C-635** and **C-636**)
- They're the *only* flexible sprinkler connection qualified for use in **Seismic Design Categories C, D, E and F**
- International Building Code (**IBC**) compliant *without* needing an unsightly oversized ring, sleeve or adaptor where the ceiling meets the sprinkler head
- Compatible with **BlazeMaster®** fire sprinkler systems
- Meets all **NFPA 13** guidelines and is specifically referenced in the 2007 edition



**Adjustable Bracket Design: for use with T-bar grid, metal stud and Chicago grid applications.**

### Fully guaranteed

FlexHead has always maintained a commitment to quality. We pressure- and leak-test every FlexHead connection at our FM- and UL-audited factory. Burst pressures exceed 3,000 pounds. Every product is covered by our comprehensive limited warranty.

### Choose the length you need

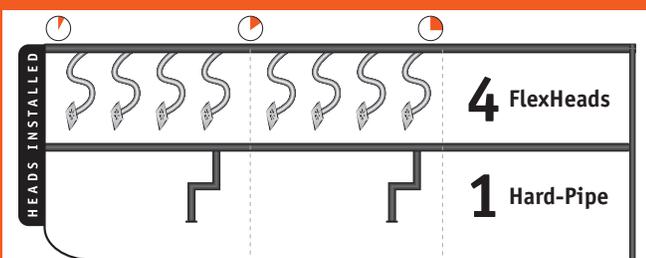
FlexHead connections are available in 2', 3', 4', 5' and 6' hose lengths, and easily fit any sprinkler head on the market. Outlets can accommodate both 1/2" and 3/4" sprinkler heads.

### Call, write or visit our website

FlexHead Industries offers everything you need to specify, bid and install higher quality fire protection. Let us make your connection today. Get in touch via the method that suits you best:

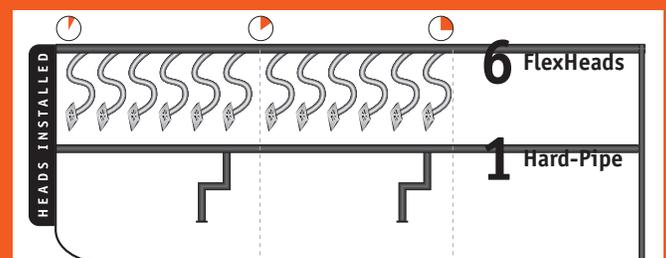
- E-mail [sales1@flexhead.com](mailto:sales1@flexhead.com) with questions and requests.
- Call toll-free **800-829-6975** to speak to a representative.
- Visit [www.flexhead.com](http://www.flexhead.com) for data sheets and demonstrations.

## New construction comparison



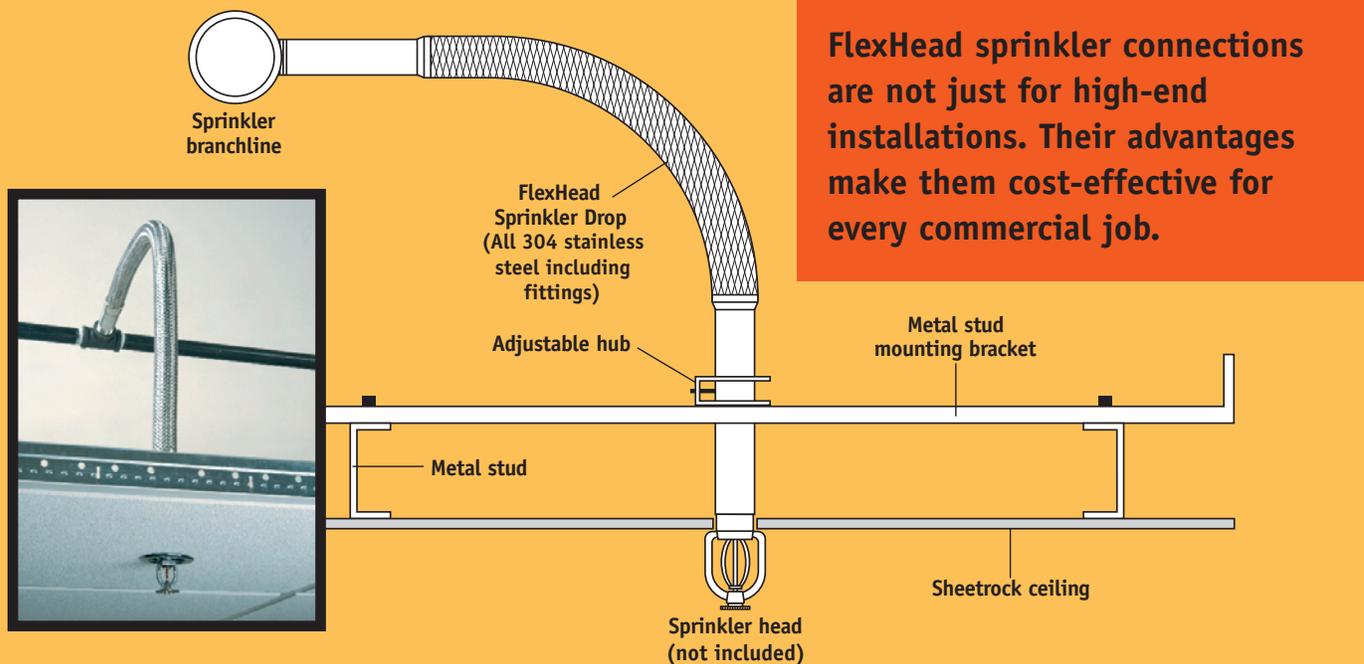
During a typical installation, a minimum of 4 FlexHeads can be installed in the the same time it takes to do 1 hard-pipe.

## Retrofit comparison

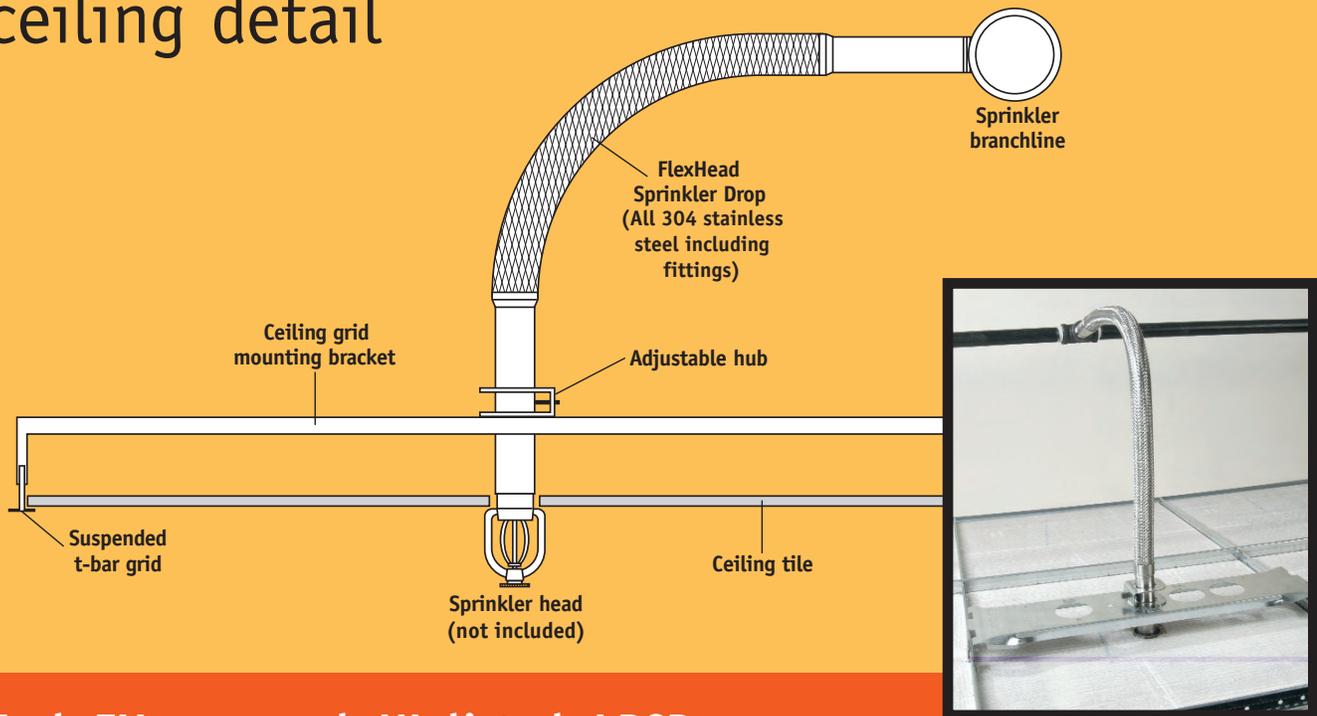


During a typical installation, a minimum of 6 FlexHeads can be installed in the the same time it takes to do 1 hard-pipe.

# FlexHead metal stud detail



# FlexHead suspended ceiling detail



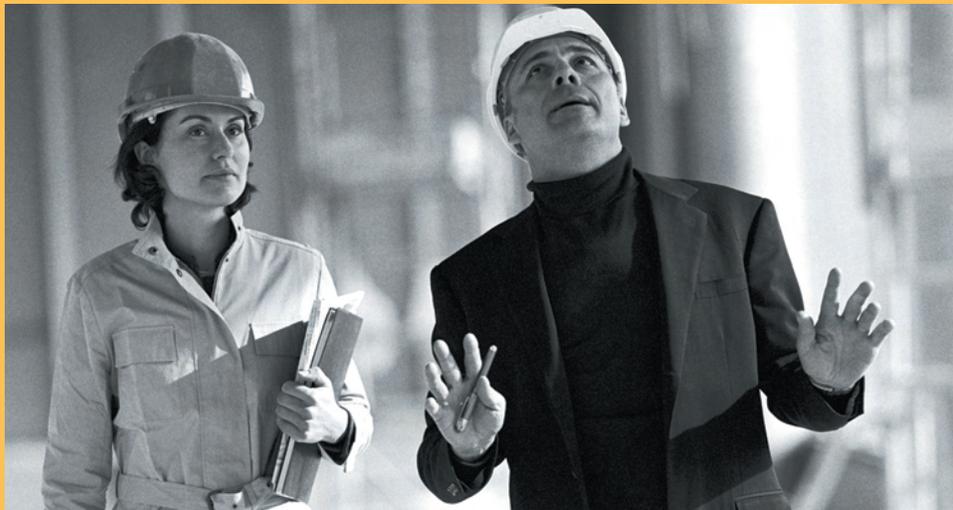
Each FM approved, UL listed, LPCB certified unit is ready-to-install, pressure- and leak-tested, and comes complete with a flexible stainless steel hose and mounting bracket with adjustable hub.

# FlexHead commercial fire sprinkler connections

## Your security is our business.

FlexHead Industries was founded in 1992 to help engineers, builders and owners increase the safety of their buildings. Our patented sprinkler connection technologies show that it's possible to comply with codes cost-effectively. We're proud to help reduce the risks of property damage and loss of life in a wide variety of buildings, domestically and world-wide.

### FlexHead manufactures sprinkler connections for all types of applications including:



#### Commercial

- Government
- Hospitals
- Offices
- Restaurants
- Retail
- Schools

#### Cleanrooms

- Biotechnology
- Electronics
- High-end commercial ceilings
- Pharmaceuticals
- Semiconductors

#### Exhaust ducts

- Aerospace
- Automotive
- Biotechnology
- Electronics
- Forest products/paper pulp
- Laboratories
- Petrochemical
- Pharmaceuticals
- Restaurants
- Semiconductors
- Steel manufacturers

#### Institutions

- Concrete penetrations for sidewall and pendant applications
- Correctional centers
- Mental health facilities

### Seismically qualified.

*FlexHead connections allow for independent movement between sub-mains and ceilings. They're the only flexible sprinkler connection to be qualified for use in Seismic Design Categories C, D, E and F.*

# FLEXHEAD<sup>®</sup>

INDUSTRIES

*The pioneers in flexible fire protection*



U.S. and international patents pending: #6,123,154, #6,119,784, #6,752,218, #7,032,680, #6,488,097.

The FlexHead name and logo are trademarks of FlexHead Industries.

FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® pipe fittings. FBC™, FlowGuard Gold®, BlazeMaster® and Corzan® are licensed trademarks of The Lubrizol Corporation.

USGBC® and LEED® are registered trademarks of the U.S. Green Building Council.

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