

FLEXHEAD[®]
INDUSTRIES

1. Product Name

FlexHead Commercial Sprinkler Connections

2. Manufacturer

FlexHead Industries, Inc.
 56 Lowland St.
 Holliston, MA 01746
 (800) 829-6975
 (508) 893-9596
 Fax: (508) 893-6020
 E-mail: sales1@FlexHead.com
 www.flexhead.com

3. Product Description

BASIC USE

FlexHead manufactures flexible stainless steel hose assemblies and a bracketing system that connect sprinkler heads to the branch lines. These systems install in less than a fifth of the time that it takes to install hard pipe armovers, which allows for rapid installation or relocation of sprinkler heads in suspended ceilings.

Each FlexHead unit comes with a mounting bracket and a 1-piece, leak tested sprinkler drop. The mounting bracket is compatible with any suspended or gypsum board ceiling system.

With any contractor installed sprinkler head of choice, this pressure/leak tested system is available in 2' - 6' (0.6 - 1.8 m) hose lengths, making it ideal for any commercial application. In addition, FlexHead both minimizes the cost and simplifies the labor required to bring unsprinklered buildings up to code. It installs in minutes, even in the most restrictive of spaces.

All FlexHead commercial sprinkler connections are Factory Mutual (FM) approved and UL listed and are manufactured in an FM/UL audited facility.

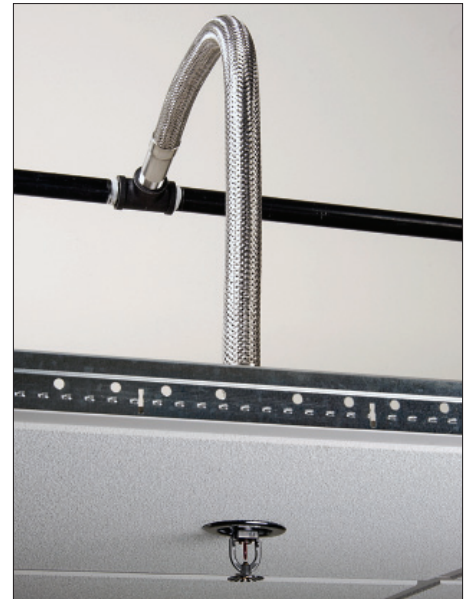
BENEFITS

- Reduced labor costs and callbacks
- Expedites retrofitting buildings with confined spaces
- Predictable installation eliminates bidding problems and scheduling delays
- Fast-track construction for rapid building occupancy

- Flexible design provides versatility for changes in floor plan or occupancy
- Compatible with any FM/UL approved sprinkler head
- 100% leak tested system
- Industrial grade, all welded, no O-ring construction, uses all stainless steel components
- Adjustable height and sprinkler alignment/center-of-tile uniformity
- Rated up to 300 psi (2066 kPa) with no additional hangers required
- Easy friction loss/water pressure calculations
- Bracket provides uniformity with any suspended or gypsum board ceiling system
- Compatible with BlazeMaster[®] CPVC Fire Sprinkler Systems
- Approved for use in suspended ceiling systems with light, medium and heavy load ceiling systems (ASTM C635, C636)
- True-bore 1" (25.4 mm) internal corrugated hose diameter, which produces friction loss values similar to hard pipe armovers
- Fully braided hose provides excellent protection against pressure surges
- 2006 IBC and SEI/ASCE 7-05 compliant for sprinklers installed in seismic design classes C and D/E/F
- Provides green benefits to building owners

COMPOSITION & MATERIALS

Every FlexHead connection comes complete with the flexible hose and attachment bracket. Each connection is made from 100% factory tested Type 304 stainless steel. The hose nipples



Suspended ceiling installation



are also 304 stainless steel and are fully welded using a proprietary welding process (no O-rings). FlexHead is leak tested to 175 psi (1205 kPa) and has burst pressure of over 2000 psi (13,780 kPa).



Gypsum board ceiling installation

The bracket system is made from galvanized sheet metal and is approved and compatible for use with light, medium and heavy load ceiling systems (ASTM C635, C636) or gypsum board ceiling systems.

SIZES

FlexHead is available in 2', 3', 4', 5' or 6' (0.6, 0.9, 1.2, 1.5 or 1.8 m) hose lengths.

4. Technical Data

APPLICABLE STANDARDS

American Society of Civil Engineers (ASCE) - SEI/ASCE 7-05, Section 13.5.6 Suspended Ceilings

ASTM International

- ASTM C635 Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings
- ASTM C636 Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels

FM Global Technologies LLC (FM) - FM Class Number 1637 Approval Standard for Flexible Sprinkler Hose with Threaded End Fittings

International Code Council (ICC)

- ICC International Building Code (IBC), 2006 - Section 803.9 Acoustical Ceiling Systems
- Section 1613 Earthquake Loads

National Fire Protection Association (NFPA)

- NFPA 13 Standard for the Installation of Sprinkler Systems
- NFPA 13D Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes
- NFPA 13R Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height

Underwriters Laboratories, Inc. (UL) - UL 2443 Standard for Flexible Sprinkler Hose with Fittings for Fire Protection Service

APPROVALS

Underwriters Laboratories, Inc. (UL) - UL Listed, VENNEX5269, Flexible Sprinkler Hose Fitting

PHYSICAL/CHEMICAL PROPERTIES

Test reports are available to design professionals upon request.

5. Installation

PREPARATORY WORK

Installation should only be performed by qualified and licensed technicians in the fire pro-

tection field. Consult NFPA, FM, UL and state and local guidelines prior to installation.

METHODS

Each FlexHead ceiling sprinkler connection includes a mounting bracket and a 1-piece, leak tested FlexHead sprinkler drop.

Attach the bracket to the t-bar ceiling grid; then attach the FlexHead sprinkler to the sub-main. Secure the sprinkler to the bracket. Test installation of sprinkler system for any leaks per NFPA guidelines.

PRECAUTIONS

Consult the manufacturer's installation instructions for complete installation information. Failure to follow the cited instructions may cause personal injury. During maintenance or inspection of FlexHead product, the facility fire protection system must be inactive. Do not attempt relocation or maintenance of FlexHead product while fire protections system is live.

BUILDING CODES

Current data on building code requirements and product compliance may be obtained from the manufacturer's technical support specialists. Installation must comply with the requirements of applicable local, state and national code jurisdictions.

6. Availability & Cost

AVAILABILITY

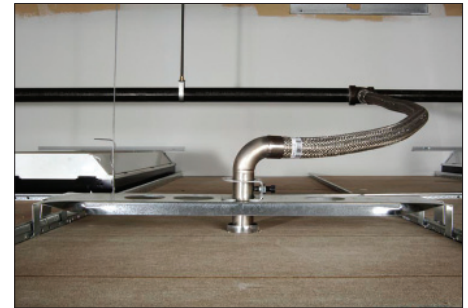
For information on product availability or to locate an authorized FlexHead distributor, contact FlexHead Industries, Inc.

COST

Budget installed cost information may be obtained from the manufacturer upon request.

7. Warranty

FlexHead Industries, Inc., warrants that its products will be free from defects in materials and workmanship under normal conditions of use and service for a period of 1 year from date of sale. The obligation under this warranty is limited to repairing or replacing any product that is returned with transportation charges prepaid within 1 year after the date of original sale and that an examination by FlexHead shows to their satisfaction to have been defective in materials or workmanship, under normal conditions of use and service. The decision as to whether to repair or to replace any product shall be made by FlexHead Industries, and any repair shall be made at their facility. Contact the manufacturer for complete limited warranty details.



Suspended ceiling installation in a confined space

8. Maintenance

Contact the manufacturer for complete maintenance information.

9. Technical Services

Design assistance and technical support are available upon request from the manufacturer's trained staff.

10. Filing Systems

- MANU-SPEC®
- Additional product information is available from the manufacturer upon request.

FGG/BM® System Compatible indicates this product has been tested and is monitored on an ongoing basis to assure chemical compatibility with FlowGuard Gold®, BlazeMaster®, and Corzan® pipe and fittings.

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