

Flexible Sprinkler Drops

Braided Flexible Sprinkler Connection Data Sheet

GENIE SYSTEMS Flexible Sprinkler Drops are designed to significantly reduce labor and installation costs. By eliminating the need for pipe cutting and midline connections, you save valuable time and money.

Genie Systems flexible sprinkler connections offer braided and unbraided flexible hoses in 700mm, 1000mm, 1200mm, 1500mm and 1800mm with top loading or front loading brackets for variety of ceiling and wall applications: T-Bars, metal studs, hangers at channels, wood beams, concrete sidewalls, and more. The system is qualified to be installed at commercial, hotel, retail, restaurants, cultural, entertainment, educational, government, healthcare, and religious buildings.

GENIE SYSTEMS Flexible Sprinkler Drops Appliance Standards

1. Underwriter's Laboratories, Inc. (UL), UL 2443:

- Standard for flexible sprinkler hose with fittings for fire protection service

2. Factory Mutual (FM), FM Class No, 1637:

- ASTM C635: Standard specifications for the manufacture, performance, and testing of metal suspension system

3. 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 Installation of Sprinkler Systems in residential Occupancies up to and including four stories in height
- NFPA 13 Section 9.2.1.3.3.3 : No hangers are required for flexible connections as long as the length does not exceed 6ft.

4. American Society for Testing and Methods (ASTM):

- ASTM C635 : Standard specifications 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

5. International Building Code (IBC) Section 1621 / American Society of Civil Engineers (ASCE) 7.9.6.2.6.2 & 9.6.2.6.2.2:

- Flexible Sprinkler Connections are an alternative solution to install without seismic escutcheons

Job Name :

Engineer / Architect :

Job Location :

Wholesaler :

Submittal Date :

Contractor :



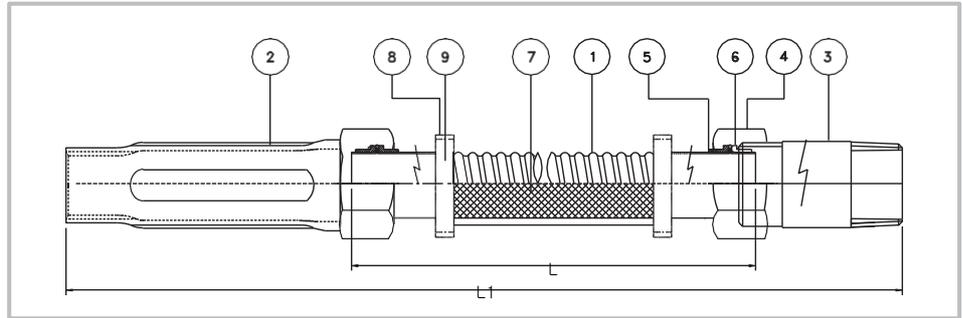
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TECHNICAL SPE CIFICATIONS



BRAIDED TYPE FLEXIBLE HOSE



- | | | |
|------------------|-------------------|-------------------|
| 1. FLEXIBLE TUBE | 4. SLIP NUT | 7. BRAIDED HOSE |
| 2. REDUCER | 5. ISOLATING-RING | 8. CLAMP(OUTSIDE) |
| 3. NIPPLE | 6. GASKET | 9. CLAMP(INSIDE) |

SPECIFICATIONS

Lengths Available	24", 31.2", 36", 48", 60" and 72"	Hose	Stainless Steel 304
Outlet	1/2"	Nut & Nipple	Zinc-Plated Steel
Hose Type	Braided	Sealing Gasket / Isolation Ring	EPDM / Nylon
Max. Ambient Temperature Rating	225°F	Minimum Bend Radius	8"(FM) from connection nuts
Max. Working Pressure Rating	175 psig	Connection	Inlet: 1"NPT or BSP
			Outlet: 1/2" or 3/4"NPT or BSP

* Required torque to assemble reducer and nipple with the flexible hose : 300kgf.cm



FRICITION LOSS DATA

DJ32B-C Series Braided Hose with Fittings

Model	NPT in.	k-Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
DJ32B-C	1/2	5.6	8 (203)	1	175 (1205)	24 (610)	8.8 (2.2)
	1/2	5.6	8 (203)	2	175 (1205)	31.2 (792)	14 (4.3)
	1/2	5.6	8 (203)	2	175 (1205)	36 (915)	17.5 (5.3)
	1/2	5.6	8 (203)	3	175 (1205)	48 (1220)	26.3 (8)
	1/2	5.6	8 (203)	4	175 (1205)	60 (1525)	31.4 (9.5)
	1/2	5.6	8 (203)	4	175 (1205)	72 (1830)	36.6 (11.1)

* FM : 8" minimum bend radius, where C=120