

**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.**

Armour flexible sprinkler connections offer braided and unbraided flexible hoses in 700mm, 1000mm, 1200mm and 1800mm with top loading or front loading brackets for variety of ceiling and wall applications: T-Bars, metal studs, hat 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.

### **ARMOUR 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.

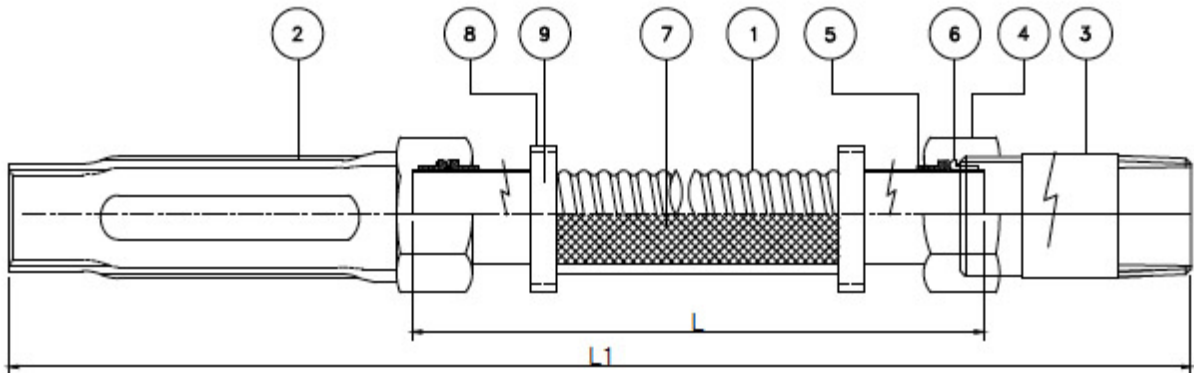
#### **4. American Society for Testing and Methods (ASTM):**

- ASTM C635: Standard specifications for the manufacture, performance, and testing
- 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 escutcheon of metal suspension systems for acoustical tile and lay-in panel ceilings





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

### SPECIFICATIONS

Lengths Available	24", 36", 48", 60" and 72"
Outlet	1/2" or 3/4"
Hose Type	Braided
Max. Ambient Temperature Rating	225°F
Max. Working Pressure Rating	175 psig

Hose	Stainless Steel 304	
Nut & Nipple	Zinc-Plated Steel	
Sealing Gasket / Isolation Ring	EPDM / NYLON	
Minimum Bend Radius	190mm(UL/ULC) and 10"(FM) from connection nuts	
Connection	Inlet	1"NPT or BSP
	Outlet	1/2" or 3/4"NPT or BSP



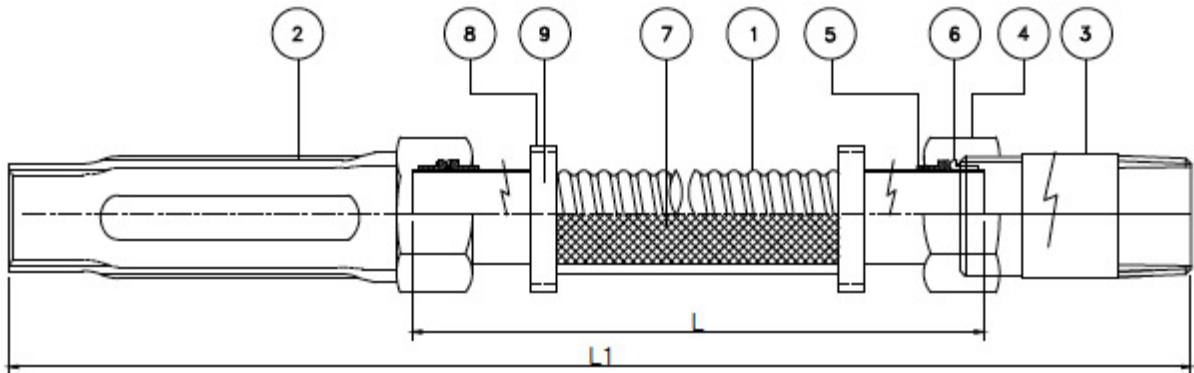
### FRICION LOSS DATA

DJ25B Series Braided Hose with Fittings

Model	Rated Pressure, psig	Max. Ambient Temp, °F	Nom. Inlet by Outlet Size, in.	Assembly Length, ft (mm)	Max No. of 90° Bends	Min Bend Radius, mm.	Equivalent Length of 1 in. Schedule 40 Steel Pipe (C = 120), ft	Flexibility Type
DJ25B	175	225	1x1/2	2.0 (610)	1	190	12	Limited
	175	225	1x1/2	2.6 (790)	1	190	19	Limited
	175	225	1x1/2	3.0 (915)	2	190	42	Limited
	175	225	1x1/2	4.0 (1220)	2	190	53	Limited
	175	225	1x1/2	5.0 (1525)	3	190	68	Limited
	175	225	1x1/2	5.9 (1800)	3	190	94	Limited
DJ25B	175	225	1x3/4	2.0 (610)	1	190	21	Limited
	175	225	1x3/4	2.6 (790)	1	190	27	Limited
	175	225	1x3/4	3.0 (915)	2	190	47	Limited
	175	225	1x3/4	4.0 (1220)	2	190	49	Limited
	175	225	1x3/4	5.0 (1525)	3	190	73	Limited
	175	225	1x3/4	5.9 (1800)	3	190	99	Limited



\* UL : 19mm minimum bend radius, where C=120



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Sealing Gasket / Isolation Ring	EPDM / NYLON	
Minimum Bend Radius	190mm(UL/ULC) and 10"(FM) from connection nuts	
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	Outlet	1/2" or 3/4"NPT or BSP



### FRICION LOSS DATA

APPROVED DJ25B Series Braided Hose with Fittings

Model	NPT in.	Hose Assembly length, ft (m)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
DJ25B	1/2	2 (0.6)	13.7 (4.1)
	1/2	2.6 (0.8)	17.9 (5.4)
	1/2	3 (0.9)	22.2 (6.7)
	1/2	4 (1.2)	37.0 (11.2)
	1/2	5 (1.5)	45.5 (13.8)
	1/2	6 (1.8)	63.0 (19.2)
DJ25B	3/4	2 (0.6)	10.5 (3.2)
	3/4	2.6 (0.8)	14.4 (4.4)
	3/4	3 (0.9)	18.3 (5.6)
	3/4	4 (1.2)	32.8 (10.0)
	3/4	5 (1.5)	43.2 (13.1)
	3/4	6 (1.8)	58.7 (17.9)



\* FM : 10" minimum bend radius, where C=120