



## Flexible and Problem Free ASSEMBLY INSTRUCTIONS

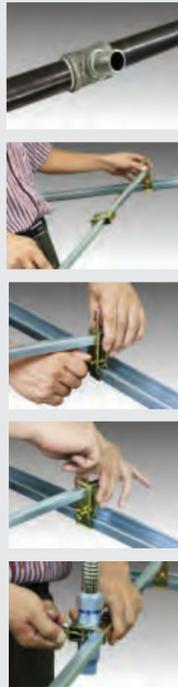
Daejin's brackets are very easy and simple to install Flexible sprinkler joints to suspended ceiling. Its open cap design of center bracket solves all the problems that arise when installing Flexible sprinkler joints to ceiling.

1. Connect the branch line connection nipple to the branch line
2. Connect the nut of the flexible joint to the branch line connection nipple
3. Tighten the nut of the flexible joint to the reducing nipple
4. Assemble two end brackets and a center bracket to a square bar.

Place two end brackets to the aimed position of the rails of suspended ceiling properly and tighten wing nuts to a torque of 20-25 kgf.cm

5. Locate the center bracket to a desired position of the square bar and join the Reducing nipple to the center bracket. Tighten the nut to a torque of 20-30 kgf.cm
6. Join a sprinkler to the reducing nipple of the flexible joint

The sprinkler can be installed to the reducing nipple on the floor in advance.



### Standard

Daejin Flexible Sprinkler Joint is designed in accordance with NFPA 13, 13D, and 13R for limited flexible application.

### Certification

DAEJIN products presented here are listed and approved by various fire protection approval laboratories and organizations.



### FRICITION LOSS DATA

#### Pressure loss & equivalent length (clause 4.4.16)

The results of this test are shown in Tables 1 to 5.



Table 1 Summary of pressure loss & equivalent length for 700 mm flexible hose with one 90° bend and terminated in a 1/2" outlet reducer

Flow rate (l/min)	Pressure upstream(bar)	Pressure downstream(bar)	Corrected pressure loss (bar)	Equivalent Length
40	0.31	0.20	0.005	0.40
60	0.75	0.49	0.077	3.00
80	1.43	0.93	0.199	4.56
100	2.22	1.44	0.321	4.89
120	3.22	2.08	0.483	5.23
150	5.01	3.23	0.751	5.38

Average equivalent length – 3.90

Table 2 Summary of pressure loss & equivalent length for 1000 mm flexible hose with two 90° bends and terminated in a straight 1/2" outlet reducer

Flow rate (l/min)	Pressure upstream(bar)	Pressure downstream(bar)	Corrected pressure loss (bar)	Equivalent Length
40	0.34	0.20	0.035	2.88
60	0.93	0.52	0.227	8.86
80	1.66	0.92	0.439	10.06
100	2.62	1.43	0.731	11.09
120	3.79	2.05	1.083	11.73
150	6.05	3.24	1.781	12.76

Average equivalent length – 9.56

Table 3 Summary of pressure loss & equivalent length for 1200 mm flexible hose with two 90° bends and terminated in a straight 1/2" outlet reducer

Flow rate (l/min)	Pressure upstream(bar)	Pressure downstream(bar)	Corrected pressure loss (bar)	Equivalent Length
40	0.36	0.20	0.055	4.53
60	0.97	0.52	0.267	10.42
80	1.73	0.92	0.509	11.67
100	2.75	1.43	0.861	13.06
120	4.02	2.07	1.293	14.00
150	6.32	3.21	2.081	14.91

Average equivalent length – 11.43

Table 4 Summary of pressure loss & equivalent length for 1500 mm flexible hose with two 90° bends and terminated in a straight 1/2" outlet reducer

Flow rate (l/min)	Pressure upstream(bar)	Pressure downstream(bar)	Corrected pressure loss (bar)	Equivalent Length
40	0.37	0.20	0.065	5.36
60	0.98	0.52	0.277	10.81
80	1.76	0.93	0.529	12.13
100	2.77	1.43	0.881	13.37
120	4.03	2.08	1.313	14.22
150	6.35	3.22	2.101	15.06

Average equivalent length – 11.82

Table 5 Summary of pressure loss & equivalent length for 1800 mm flexible hose with three 90° bends and terminated in a straight 1/2" outlet reducer

Flow rate (l/min)	Pressure upstream(bar)	Pressure downstream(bar)	Corrected pressure loss (bar)	Equivalent Length
40	0.40	0.19	0.105	8.66
60	1.05	0.51	0.357	13.93
80	1.93	0.92	0.709	16.25
100	3.05	1.44	1.151	17.46
120	4.38	2.05	1.673	18.12
150	7.04	3.25	2.761	19.79

Average equivalent length – 15.70



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# FLEXIBLE SPRINKLER JOINT

Innovation

DAEJIN FLEXIBLE SPRINKLER JOINT



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Genie systems®

# Flexible Sprinkler Drops

## Unbraided Flexible Sprinkler Joint

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 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.

Flexible Tube

Centre bracket (B-CC-B)

Cap Type bracket

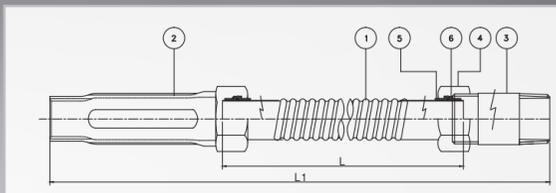
Square bar

End bracket (B-ES-B)

End bracket (B-ES-B)



### UNBRAIDED FLEXIBLE HOSE



- 1. FLEXIBLE TUBE
- 2. REDUCER
- 3. NIPPLE
- 4. SLIP NUT
- 5. ISOLATION-RING
- 6. GASKET

### SPECIFICATIONS

Lengths Available	700mm, 1000mm, 1200mm, 1500mm, 1800mm	Hose	Stainless Steel 304
Outlet	1/2" or 3/4"	Nut & Nipple	Zinc-Plated Steel
Hose Type	Unbraided	Sealing Gasket / Isolation Ring	EPDM / NYLON
Max. Ambient Temperature Rating	225°F	Minimum Bend Radius	100mm(UL/ULC) From connection nuts
Max. Working Pressure Rating	175 psig (UL/ULC)	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 : 300 kgf.cm

### FRICION LOSS DATA

DJ25UB Series Unbraided 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
DJ25UB-700	175	225	1x1/2	700	1	100	24	Limited
DJ25UB-1000	175	225	1x1/2	1000	2	100	44	Limited
DJ25UB-1200	175	225	1x1/2	1200	2	100	49	Limited
DJ25UB-1500	175	225	1x1/2	1500	2	100	59	Limited
DJ25UB-1800	175	225	1x1/2	1800	3	100	84	Limited
DJ25UB-700	175	225	1x3/4	700	1	100	30	Limited
DJ25UB-1000	175	225	1x3/4	1000	2	100	48	Limited
DJ25UB-1200	175	225	1x3/4	1200	2	100	55	Limited
DJ25UB-1500	175	225	1x3/4	1500	2	100	64	Limited
DJ25UB-1800	175	225	1x3/4	1800	3	100	86	Limited

\* UL : 100mm minimum bend radius, where C=120

### SPECIFICATIONS

Lengths Available	700mm, 1000mm, 1200mm, 1500mm, 1800mm	Hose	Stainless Steel 304
Outlet	1/2" or 3/4"	Nut & Nipple	Zinc-Plated Steel
Hose Type	Unbraided	Sealing Gasket / Isolation Ring	EPDM / NYLON
Max. Ambient Temperature Rating	225°F	Minimum Bend Radius	
Max. Working Pressure Rating	16 BAR (LPCB)	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 : 300 kgf.cm

### Problem-free :

Daejin's various specially designed and patented brackets will solve many problems when installing the Flexible joint to the suspended ceiling.

### Safety :

Rigorous water leakage test is applied to all the joint in the factory lab. All the products of our company have been approved by FM and UL.

Available length : 700-1800mm (for UL and FM approved model)  
400-3500mm (for Japan and Korea)