

The DAEJIN Flexible Sprinkler Hose fitting is an innovative product designed to save both time and cost. It can be installed in commercial suspended ceilings, including T-grids, metal ornamental ceilings, furring channels, wood and metal joists/studs, and concrete blocks. Our flexible hose is suitable for use in commercial hotels, restaurants, cultural centers, entertainment venues, educational institutions, public facilities, athletic centers, and religious buildings.

Listing and Approvals
 Factory Mutual, FM Class No. 1637
 Underwriter's Laboratories, Inc., UL 2443

Maximum Ambient Temperature
 225°F(107°C)

Largest Sprinkler K-factor for ½ in. outlet : 5.6

Intended for use in wet, dry, or pre-action actuated systems

Largest Sprinkler K-factor for ¾ in. outlet : 8.0

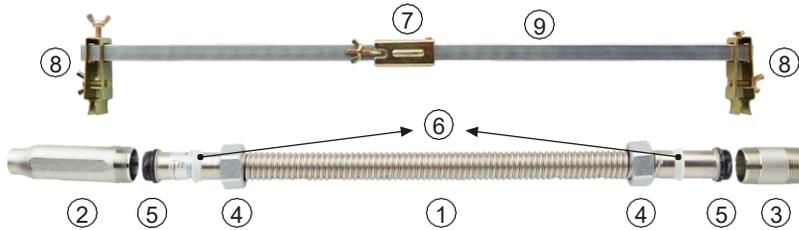
⚠ WARNING

- Read and understand all instructions and warnings before attempting to install any DAEJIN Flexible Sprinkler Hose system components.
- DAEJIN Genie Drop and its fittings shall not be used in combination with flexible fitting products of other manufacturers.
- Wear safety glasses, hardhat, and foot protection during installation.
- Drop ceiling construction shall meet the requirements of ASTM C635 and shall be installed in accordance with ASTM C636.
- DAEJIN Genie Drop products shall be installed according to the applicable current National Fire Protection Association standards (NFPA 13, 13D, 13R, etc.) or equipment standards, and in accordance with applicable building and fire codes.

Technical data (UL | FM)

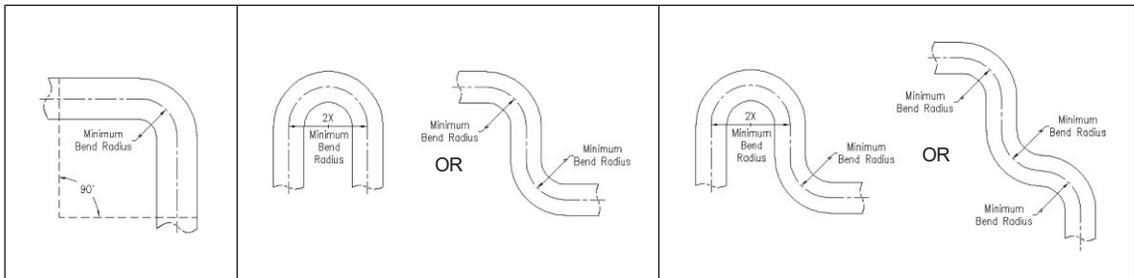
MODEL	NOM. INLET BY OUTLET SIZE, IN.	MAX AMBIENT TEMP, °F	ASSEMBLY LENGTH, ft (mm)	RATED PRESSURE		K - FACTOR		MAX NO. OF 90° BENDS		MIN BEND RADIUS		EQUIVALENT LENGTH OF 1in. SCHEDULE 40 PIPE FT.		FLEXIBILITY TYPE									
				UL (PSI)	FM (PSI)	UL	FM	UL	FM	UL in. (mm)	FM in. (mm)	UL	FM										
DJ25UB (UL)	1x1/2	225	2.3 (700)	200	-	5.6	-	2	-	4 (100)	-	32	-	Limited									
			3.3 (1000)									55											
			3.9 (1200)									64											
			4.9 (1500)									75											
			5.9 (1800)									81											
	1x3/4	225	2.3 (700)	200	-	8	-	2	-	4 (100)	-	31	-										
			3.3 (1000)									50											
			3.9 (1200)									57											
			4.9 (1500)									68											
			5.9 (1800)									79											
DJ28B (UL&FM)	1x1/2	225	2.3 (700)	200	200	5.6	5.6	3	1	3(76)	9 (230)	18	22.9	Limited									
			3.3 (1000)					5	2			23	34.6										
			3.9 (1200)					7	3			29	41										
			4.9 (1500)					9	4			39	50.4										
			5.9 (1800)					12	4			50	58.5										
	1x3/4	225	2.3 (700)	200	200	8	8	3	1	3(76)	9 (230)	20	15.7										
			3.3 (1000)					5	2			24	26.9										
			3.9 (1200)					7	3			31	34.8										
			4.9 (1500)					9	4			40	43.8										
			5.9 (1800)					12	4			70	53.4										
			DJ32B (FM)					1x1/2	225			2.0 (610)	-		175	-	5.6	-	-	8 (203)	-	8.8	-
												2.6 (792)										14	
												3 (915)										17.5	
												4 (1220)										26.3	
5 (1525)	31.4																						
6 (1830)	36.6																						

Parts List



No.	Part Name	Material	Q'ty	Note
1	Flexible Tube	SS304	1	0.3t
2	Reducing nipple	SGP	1	Zinc-Plated
3	Nipple	SGP	1	Zinc-Plated
4	Nut	S10C	2	Zinc-Plated
5	Gasket	Silicone Rubber	2	-
6	Isolation Ring	Nylon66	2	-
7	Center Bracket (A-DFM)	Carbon steel	1	Zinc-Plated
	Center Bracket (B-COT)	Carbon steel		Zinc-Plated
8	End Bracket (A-DFM)	Carbon steel	2	Zinc-Plated
	End Bracket (B-EOT)	Carbon steel		Zinc-Plated
9	Square bar	Galvanized steel	1	Zinc-Plated

Flexible Hose Bend Characteristics



⚠ Care shall be taken to avoid torquing the Flexible hose

Place the template on the inside of the bend, as shown in below pictures.



3-inch / 76-mm
MINIMUM BEND RADIUS
FOR BRAIDED HOSE



4-inch / 102-mm
MINIMUM BEND RADIUS
FOR UNBRAIDED HOSE

⚠ Use the appropriate Minimum Bend Radius Template to determine the minimum bend radius.

INSTALLATION INSTRUCTIONS

B-COT ONE TOUCH CENTER BRACKET

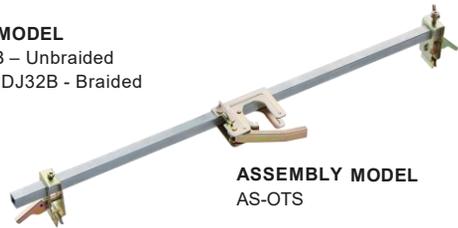
Installation of DAEJIN Flexible sprinkler hose for commercial Application with Anchoring system 02



HOSE MODEL
DJ25UB – Unbraided
DJ28B, DJ32B - Braided



BRACKET MODEL
Center bracket - B-COT
End bracket - B-EOTS or B-EOTL



ASSEMBLY MODEL
AS-OTS



1. Disconnect the Reducer by turning the Nut (not the Reducer itself) from the Flexible Sprinkler Hose.

Turn the wrench on connection nut only



Figure 2.

- 2 Check that the Gasket and Isolation Ring are properly in place. Reconnect the Reducer to the Flexible Sprinkler Hose by tightening the Nut. Use two open-ended spanners (or adjustable wrenches) to securely tighten the Nut and ensure a leak-proof connection. The recommended torque for this work is 300 kgf·cm. (Refer to Figure 2.)



Figure 3.

- 3 Disconnect the Nipple from the Flexible Sprinkler Hose. Assemble the Nipple to the building's main piping system using standard sealing procedures. Tighten the Nipple securely to ensure a leak-proof connection, as shown in Figure 3. The recommended torque for this work is 950–1,000 kgf·cm.



Figure 4.

- 4 Confirm that the Gasket and Isolation Ring are properly placed at the end of the Flexible Hose. Connect the Flexible Hose to the Nipple by tightening the Nut securely. The recommended torque for this connection is 300 kgf·cm.

DO NOT use PTFE tape on the outlet nipple to connect to the flexible hose.
 DO NOT tighten beyond the specified torque. This may cause damage to the seal.



- 5 Attach the two End Brackets and the Center Bracket to the Square Bar, and position the End Brackets properly on the designated ceiling structure, as shown in Figure 4. (The maximum distance between the two End Brackets is 700 mm, and the minimum distance is 600 mm.)

For AS-OTS assembly set, the step 5 and 6 can be omitted.

INSTALLATION INSTRUCTIONS

B-COT ONE TOUCH CENTER BRACKET

Installation of DAEJIN Flexible sprinkler hose for commercial Application with Anchoring system 02



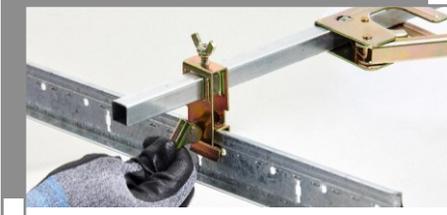
- Fasten the Wing Bolts at the top of the End Brackets securely. The recommended torque for this work is 40 kgf.cm.

For AS-OTS assembly set, the step 5 and 6 can be omitted.



- Push the End Brackets into the ceiling structure and ensure they are seated properly.

DO NOT install the end bracket on the cross tee bar. Installation is permitted on the main tee bar only.



- Grasp the lever at the lower part of the End Bracket and push it downward fully to lock it securely.

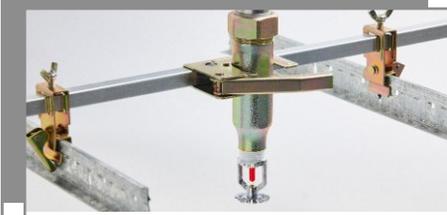


- Open the lever of the Center Bracket and properly position the Reducer inside it. To open the lever, release the lever while pushing down on the lock. Slide the reducing nipple inside the center bracket.



Figure 5.

- Grasp the lever and pull it fully to firmly secure the Reducer, as shown in Figure 5.



- SPRINKLER INSTALLATION :** Follow the sprinkler manufacturer's installation instructions.



The order of installing sprinkler can vary depending on the working environment

ACCESSORIES (FM ONLY)



90° Elbow Reducing Nipple (Long Type)
Model No.: RE-36L-P1/N1, P2/N2
Description:
 M36 90° Elbow Reducing Nipple (1/2", 3/4" PT/NPT)



Knurled Reducing Nipple
Model No.: 140R-36RM-P1/N1, P2/N2
Description:
 M36 140mm Knurled Reducer (1/2", 3/4" PT/NPT)



Welded Elbow Reducing Nipple
Model No. 140RE-36WR-P1/N1, P2/N2
 150RE-36WR-P1/N1, P2/N2
Description:
 M36 140mm Welded Reducer Elbow (1/2", 3/4" PT/NPT)
 M36 150mm Welded Reducer Elbow (1/2", 3/4" PT/NPT)



Welded Elbow Reducing Nipple
Model No.: 155RE-36WR-P1/N1, P2/N2
Description:
 M36 155mm Welded Reducer Elbow with Knurling (1/2", 3/4" PT/NPT)



90° Elbow Reducing Nipple (Short Type)
Model No. 62RE-36S-P1/N1
 82RE-36S-P1/N1
Description:
 M36 PT 1/2" 90° Short Reducer Elbow, 62mm (PT/NPT)
 M36 PT 1/2" 90° Short Reducer Elbow, 82mm (PT/NPT)



Adjustable Elbow Reducing Nipple
Model No. 62RE-36S-P1/N1
 82RE-36S-P1/N1
Description:
 M36 PT 1/2" Adjustable Reducer Elbow, 62mm (PT/NPT)
 M36 PT 1/2" Adjustable Reducer Elbow, 82mm (PT/NPT)