



The DAEJIN Flexible Sprinkler Hose fitting is an innovative product designed to save time and costs. It can be installed on structure T-BAR, metal ornaments, Furring, wood and metal joints/studs and concrete block. Our flexible hose is certified for use in commercial hotels, restaurants, cultural centers, entertainment, educational institutions, public institutions, athletic facilities, and religious buildings.

**Listing and Approvals**

- Factory Mutual, FM Class No. 1637
- Underwriter's Laboratories, Inc., UL 2443

Intended for use in wet, dry, or preaction actuated systems

**Maximum Ambient Temperature**  
225°F (107°C)

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

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

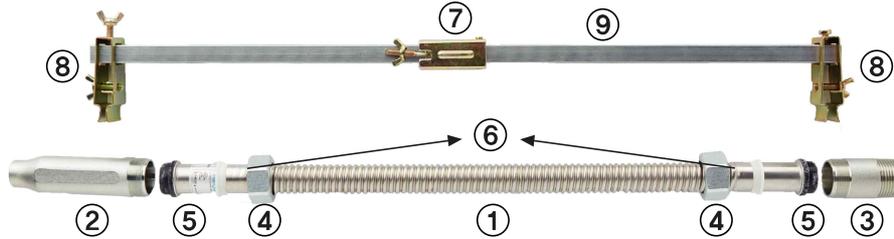
**⚠ WARNING**

- 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 the 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 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)**

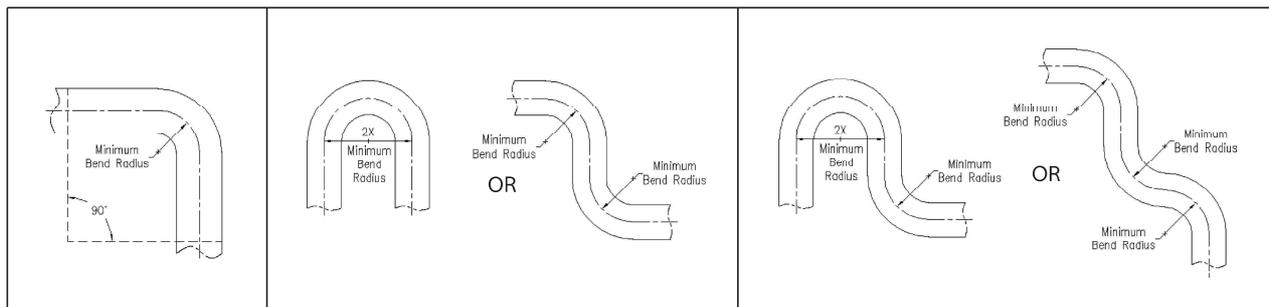
FRICTION LOSS DATA & SPECIFICATIONS															
MODEL	NOM INLET BY OUTLET SIZE, IN.	Max Ambient Temp, °F	ASSEMBLY LENGTH ft (mm)	RATED PRESSURE		K-Factor		MAX NO. OF 90° BENDS		MIN BEND RADIUS		EQUIVALENT LENGTH OF 1in. SCHEDULE 40 PIPE FT.		Flexibility Type	
				UL (PSI)	FM (PSI)	UL	FM	UL	FM	UL in. (mm)	FM in. (mm)	UL	FM		
DJ25UB (UL)	1x1/2	225	2.3 (700)	200	-	5.6	-	-	-	4	-	16	-	Limited	
			3.3 (1000)									34			
3.9 (1200)			35												
4.9 (1500)			52												
5.9 (1800)			84												
1x3/4	225	2.3 (700)	200	-	8.0	-	-	-	4	-	22	-	Limited		
		3.3 (1000)									43				
		3.9 (1200)									50				
		4.9 (1500)									59				
		5.9 (1800)									86				
DJ25B (UL&FM)	1x1/2	225	2.0 (610)	175	175	5.6	5.6	1	1	7.5 (190)	10 (254)	12	26.4	Limited	
		-	2.6 (792)	-				-	1	-		-	32		
		-	3 (915)	-				-	1	-		-	34.1		
		225	4 (1220)	175				3	2	7.5 (190)		29	46.8		
		225	5 (1525)	175				3	3	7.5 (190)		68	61.4		
	225	6 (1830)	175	3	4	7.5 (190)	94	76.1							
	1x3/4	225	2.0 (610)	175	175	8.0	8.0	1	1	7.5 (190.5)	10 (254)	21	19.4	Limited	
			-	2.6 (792)				-	-	1		-	-		23.4
			-	3 (915)				-	-	1		-	-		28.4
			225	4 (1220)				175	3	2		7.5 (190.5)	36		39.5
225			5 (1525)	175				3	3	7.5 (190.5)		73	54.8		
225	6 (1830)	175	3	4	7.5 (190.5)	99	70.1								
DJ28B (UL&FM)	1x1/2	225	2.3 (700)	200	175	5.6	5.6	3	1	3	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	175	8.0	8.0	3	1	3	9 (230)	20	15.7	Limited	
			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	-	Limited	
			2.6 (792)									2			14
			3 (915)									2			17.5
			4 (1220)									3			26.3
			5 (1525)									4			31.4
			6 (1830)									4			36.6

### Parts List



No.	Part Name	Material	Note
1	Flexible Tube	SS304	-
2	Reducer	SGP	Zinc-Plated
3	Nipple	SGP	Zinc-Plated
4	Nut	SS400	Zinc-Plated
5	Gasket	Silicone Rubber	-
6	Isolation Ring	Nylon66	-
7	Middle Bracket(A-DFM)	Carbon Steel	Zinc-Plated
	Middle Bracket (B-COTL)	Carbon Steel	Zinc-Plated
8	End Bracket (A-DFM)	Carbon Steel	Zinc-Plated
	End Bracket (B-EOT)	Carbon Steel	Zinc-Plated
9	Square Bar	GI PIPE	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



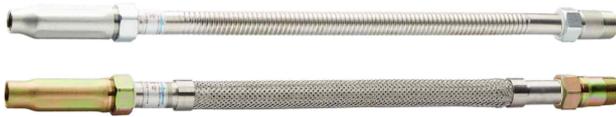
**4-INCH / 102-mm** MINIMUM BEND RADIUS FOR UNBRAIDED HOSE

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

INSTALLATION INSTRUCTIONS

**A-DFM(B-CC-B) CAP TYPE BRACKET**

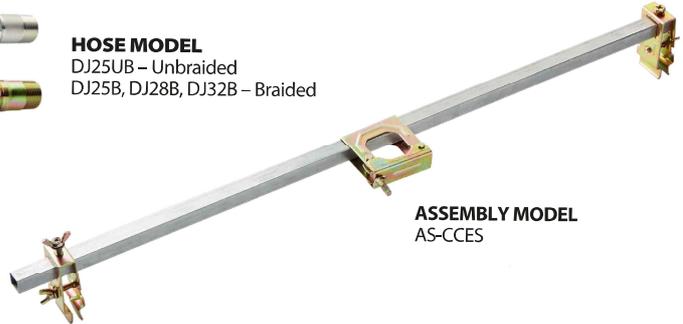
Installation of DAEJIN Flexible sprinkler hose for commercial Application with Anchoring system 01



**HOSE MODEL**  
DJ25UB – Unbraided  
DJ25B, DJ28B, DJ32B – Braided



**BRACKET MODEL**  
A-DFM (B-CC-B)  
A-DFM (B-ES-B)



**ASSEMBLY MODEL**  
AS-CCES



1. Remove the reducing nipple by turning the nut. (not the reducing nipple)

Turn the wrench on connection nut only

2. Confirm that sealing gasket and isolation rings are in place. Reconnect the outlet reducing nipple to the flexible hose. Tighten to a torque of 21.7 ft-lbs / 29.4 N.m

Tighten as much as you can with your hands and turn it 3/4 to one round with a torque wrench.

3. Apply PTFE thread sealant tape to the tapered of inlet nipple according to manufacturer instructions. Use a pipe wrench to connect the inlet nipple to the branch line as shown in the picture.

4. Confirm that the seal inside the nut of the flexible hose is free from damage and in place proper to installations and connect the nut to the outlet nipple as shown. Tighten the nut to a torque of 21.7 ft-lbs / 29.4 N.m

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

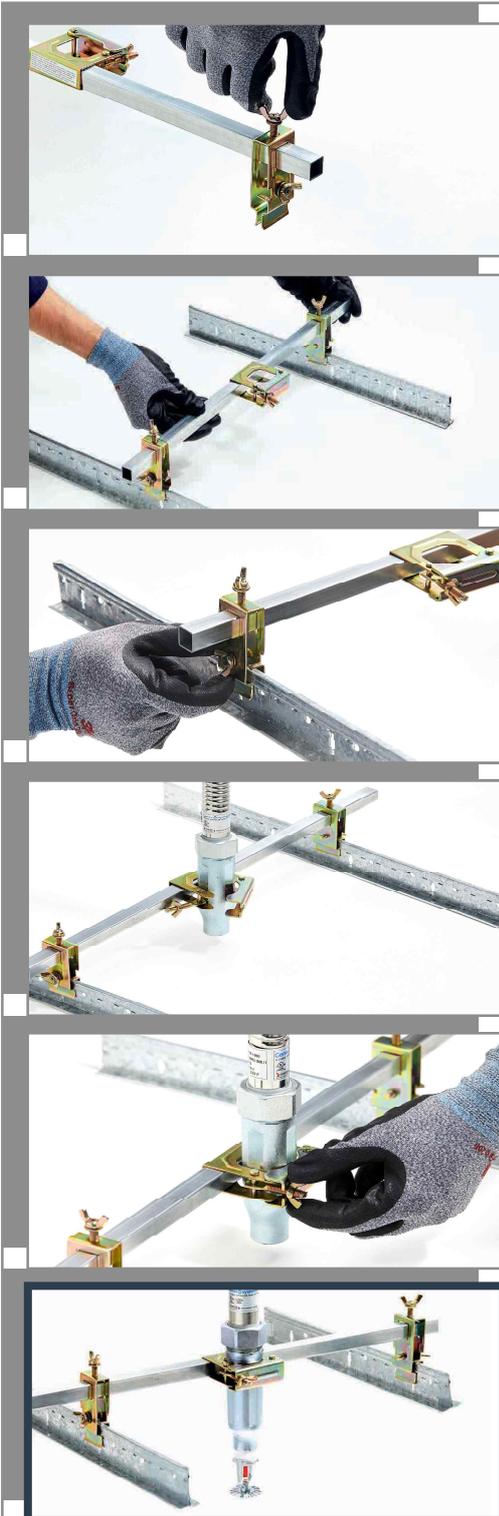
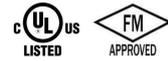
5. Connect the two end brackets and center bracket to the square bar by inserting the square bar into the hole of the end brackets and center bracket as shown.

For AS-CCES assembly set, the step 4 and 5 can be omitted.

INSTALLATION INSTRUCTIONS

**A-DFM(B-CC-B) CAP TYPE BRACKET**

Installation of DAEJIN Flexible sprinkler hose for commercial Application with Anchoring system 01



6. Tighten the wing bolts on the top of the end brackets to a recommended torque of 1.3~1.8 ft-lbs / 1.8~2.4 N.m



For AS-CCES assembly set, the step 4 and 5 can be omitted.

7. Place the fully assembled bracket to the desired position in the ceiling grid.  
The maximum distance between two end brackets is 28in. (700 mm) and minimum 24in. (600mm).

8. Grasp the lower part of the end bracket and tighten the bolts completely to ensure the end brackets are assembled to the ceiling grid securely.

9. Once the end brackets are securely installed, open the A-DFM (B-CC-B) bracket gate and position the reducer inside the center bracket properly.

10. Close the center bracket gate and fasten the wing bolt firmly. Recommended torque is 1.8~2.2 ft-lbs / 2.4~3.0 N.m

11. **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**

**Model No.** RE-36L-P1/N1

**Description.**

M36 PT 1/2" 90 DEG LONG Reducer Elbow (PT/NPT)



**Knurled Reducing Nipple**

**Model No.** 140R-36RM-P1/N1

140R-36RM-P2/N2

**Description.**

M36 PT 1/2" 140mm Knurled Reducer (PT/NPT)



**Welded Elbow Reducing Nipple**

**Model No.** 140RE-36WR-P1/N1

150RE-36WR-P1/N1

**Description.**

M36 PT 1/2" 140mm welded reducer elbow (PT/NPT)

M36 PT 1/2" 150mm welded reducer elbow (PT/NPT)



**Welded Elbow Reducing Nipple (Knurling)**

**Model No.** 155RE-36WR-P1/N1

**Description.**

M36 PT 1/2" 155mm welded reducer elbow (PT/NPT)



**90° Short Elbow Reducing Nipple**

**Model No.** 62RE-36S-P1/N1 82RE-36S-P1/N1

62RE-36S-P2/N2 82RE-36S-P2/N2

**Description.**

M36 PT 1/2" 90 DEG SHORT Reducer Elbow 62mm (PT/NPT)

M36 PT 3/4" 90 DEG SHORT Reducer Elbow 62mm (PT/NPT)

M36 PT 1/2" 90 DEG SHORT Reducer Elbow 82mm (PT/NPT)

M36 PT 3/4" 90 DEG SHORT Reducer Elbow 82mm (PT/NPT)



**Adjustable Elbow Reducing Nipple**

**Model No.** 62RE-36S-P1/N1 82RE-36S-P1/N1

62RE-36S-P2/N2 82RE-36S-P2/N2

**Description.**

M36 PT 1/2" Adjustable Reducer Elbow 62mm (PT/NPT)

M36 PT 3/4" Adjustable Reducer Elbow 62mm (PT/NPT)

M36 PT 1/2" Adjustable Reducer Elbow 82mm (PT/NPT)

M36 PT 3/4" Adjustable Reducer Elbow 82mm (PT/NPT)