



Fig. HB-7 Brackets

Bracket Figure Number & Size	cULus Listed	FM Approved	SprinkFlex Historical Model Number			
BKT-IPT, 24in	\checkmark	\checkmark	IPT-24-BKT1			
BKT-IPT, 48in			IPT-48-BKT1			
BKT-SFO-4, 24in		\checkmark	SFO-24-BKT1			
BKT-SFO-4, 48in		\checkmark	SFO-48-BKT1			

Note: SprinkFlex Historical Model Numbers may be used to verify cULus Listings & FM Approvals.

Product Specifications

Assembly Length	1
28in	
40in	
48in	
59in	
71in	
Straight Outlet D 1/2 NPS	rop
34 NPS	
Optional Elbow O	utlet Drops
HBC-7	HBC/SFBC*
6.3 x ½	4.8 x ½
6.3 x ¾	4.8 x ³ ⁄ ₄

* For Concealed Sprinkler applications with the BKT-IPT.

Inlet Nipple 1 NPS

Pressure Rating UL: 200psi (1,379kPa)

FM: 175psi (1,205kPa)

Minimum Bend Radius UL: 3.0in (76.2mm)

FM: 8.0in (203.2mm)

Ambient Temperature 225°F (107°C) Max

Material

304 Stainless Steel Hose Carbon Steel Fittings

Ordering

Specify figure number, length, outlet size, & description. HBC-7 & HBC/SFBC Elbow Outlets sold separately.





PROJECT INFORMATION	APPROVAL STAMP
Project:	Approved
Address:	Approved as noted
Contractor:	Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
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Fig. HB-7 cULus Listing per UL 2443 & FM Approval (Listing) per FM 1637

		Max # of									
Assembly Length		U	L			FM				90° Bends	
	½ NPS	S Outlet	34 NPS Outlet		½ NPS Outlet		34 NPS Outlet		UL	FM	
In	ft	m	ft	m	ft	m	ft	m	#	#	
28	28	8.5	28	8.5	18.6	5.7	18.8	5.7	2	1	
40	52	15.8	52	15.8	24.6	7.5	24.8	7.6	3	1	
48	64	19.5	64	19.5	28.5	8.6	28.7	8.7	3	3	
59	72	21.9	72	21.9	34.4	10.4	34.6	10.5	3	3	
71	94	28.7	94	28.7	40.4	12.3	40.6	12.4	3	4	

1. Equivalent Length of NPS 1 (DN25) Sch 40 Pipe.

2. Equivalent Lengths listed above assume the maximum number of 90° bends.

- 3. A 90° bend can be achieved with two 45° bends or three 30° bends.
- 4. FM Equivalent Lengths are listed for installation with $\frac{1}{2}$ " sprinklers with a maximum k-factor of 5.6.
- 5. FM Equivalent Lengths are listed for installation with ³/₄" sprinklers with a maximum k-factor of 8.0.



Fig. HB-7 Dimensions & Model Number

Assembly Length	True Length (L)		Braid Length (X)		Inlet Length (A)		Outlet Drop Length (B)		SprinkFlex Historical Model Number	
In	In	mm	In	mm	In	mm	In	mm	½ Outlet	¾ Outlet
28	27.6	700	15.4	390					HB28H-7	HB28T-7
40	39.4	1000	27.2	690					HB40H-7	HB40T-7
48	47.2	1200	35.0	890	2.50	64	6.8	173	HB48H-7	HB48T-7
59	59.1	1500	45.7	1160					HB59H-7	HB59T-7
71	70.9	1800	58.7	1490					HB71H-7	HB71T-7





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Fig. HB-7 With HBC-7 & HBC/SFBC Elbow Outlets cULus Listing per UL 2443 & FM Approval (Listing) per FM 1637

		Max # of									
Assembly Lenath		U	L			FM				90° Bends	
5	1/2 NPS Outlet 3/4 NPS Outlet				½ NPS	Outlet	Outlet	UL	FM		
In	ft	m	ft	m	ft	m	ft	m	#	#	
28	33	10.1	33	10.1	20.6	6.3	20.8	6.3	2	1	
40	56	17.1	56	17.1	26.6	8.1	26.8	8.2	3	1	
48	67	20.4	67	20.4	30.5	9.3	30.7	9.4	3	3	
59	76	23.2	76	23.2	36.4	11.1	36.6	11.2	3	3	
71	97	29.6	97	29.6	42.4	12.9	42.6	13.0	3	4	

1. Equivalent Length of NPS 1 (DN25) Sch 40 Pipe.

2. Equivalent Lengths listed above assume the maximum number of 90° bends.

3. A 90° bend can be achieved with two 45° bends or three 30° bends.

4. FM Equivalent Lengths are listed for installation with $\frac{1}{2}$ " sprinklers with a maximum k-factor of 5.6.

5. FM Equivalent Lengths are listed for installation with $\frac{3}{4}$ " sprinklers with a maximum k-factor of 8.0.

6. The HBC-7 & HBC/SFBC Eblow Outlets are sold separately.

7. The HBC/SFBC Eblow Outlets are intended for concealed sprinkler applications only.



Fig. HB-7 With HBC-7 Elbow Outlet Dimensions & Model Number

Assembly	True Le	ngth (L)	Bra	aid th (X)	li Leni	nlet ath (A)	Outlen	et Drop	SprinkFlex His	storical Model
In	In	mm	In	mm	In	mm	In	mm	½ Outlet	¾ Outlet
28	24.5	623	15.4	390					HBE28H-7	HBE28T-7
40	36.3	923	27.2	690					HBE40H-7	HBE40T-7
48	44.1	1121	35.0	890	2.5	63.5	5.8	147.3	HBE48H-7	HBE48T-7
59	56.0	1423	45.7	1160					HBE59H-7	HBE59T-7
71	67.8	1723	58.7	1490				_	HBE71H-7	HBE71T-7

1. When installed with the HBC/SFBC Elbow Outlet, the "B" dimension is reduced to 4.3in (109mm)





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Connection to the Branch

- Separate the threaded inlet nipple (if necessary) from the flexible hose. Apply pipe sealant or tape to the NPT thread on the threaded inlet nipple and install into the branch outlet. Note: Only place the pipe wrench on the unthreaded portion of the inlet nipple.
- 2. Examine the O-ring in the threaded hex union attached to the end of the hose. Ensure it is seated properly and free of debris.
- 3. Ensure the arrow on the hose is pointing in the direction of flow. Tighten the threaded hex union at the end of the braided hose to the inlet nipple. Hand tight plus ½ turn (15ft-lbs).

Bending the Hose

- 1. The hose may be bent to ensure the inlet nipple and outlet drop are in the desired locations.
- The hose should never be bent to a radius less than minimum listed bend radius. The bend radius is defined to the center of the hose.
- 3. The hose should not be bent within 2¹/₂" of the threaded hex union at either end of the hose.
- 4. The hose must have at least one 90° bend. A 90° bend can be achieved with two 45° bends or three 30° bends.
- 5. For best performance, the bends in the hose should be as large and smooth as possible.

Connection to the Bracket

- Installation of the outlet drop to the bracket shall be per the bracket's installation instructions. The bracket shall be listed for installation with the HB-7. See Page 1 for Listed and Approved brackets.
- Examine the O-ring in the threaded hex union attached to the end of the hose. Ensure it is seated properly
 and free of debris.
- Tighten the threaded hex union at the end of the braided hose to the outlet drop. Hand tight plus ¼ turn (15ft-lbs).

Connection to the Sprinkler Head

 Installation of the outlet drop to the bracket shall be per the bracket's installation instructions. The bracket shall be listed for installation with the HB-7. See Page 1 for Listed and Approved brackets.

General Installation Notes

- 1. Never apply a wrench to the braided hose.
- 2. The Fig HB-7 may be installed in any direction from the branch.
- 3. If installing a sprinkler to a bracket after installation, it is best practice to prevent twisting of the bracket and hose by holding the outlet drop with a wrench.





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Note: SprinkFlex Historical Model Numbers may be used to verify cULus Listings.

Product Specifications

Assembly Length 28in 40in 48in 59in 71in Straight Outlet Dr

Straight Outlet Drop 1/2 NPS

34 NPS

Inlet Nipple

Pressure Rating

200psi (1,379kPa)

Minimum Bend Radius 3.0in (76.2mm)

Ambient Temperature 225°F (107°C) Max

Material

304 Stainless Steel Hose Carbon Steel Fittings

Ordering

Specify figure number, length, outlet size, & description.





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	Fig. HN-7 cULus Listing per UL 2443								
Assembly		Equivalent Length							
Length	½ NPS	S Outlet	34 NPS	34 NPS Outlet					
In	ft	m	ft	m	#				
28	28	8.5	28	8.5	2				
40	52	15.8	52	15.8	3				
48	64	19.5	64	19.5	3				
59	72	21.9	72	21.9	3				
71	94	28.7	94	28.7	3				

1. Equivalent Length of NPS 1 (DN25) Sch 40 Pipe.

2. Equivalent Lengths listed above assume the maximum number of 90° bends.

3. A 90° bend can be achieved with two 45° bends or three 30° bends.



Fig. HN-7 Dimensions & Model Number

Assembly Length	Tr Leng	rue Ith (L)	Corru Lengt	gation h (X)	Ir Ni Leng	nlet pple th (A)	Outlet Drop Length (B)		SprinkFlex Historical Model No.	
in	in	mm	in	mm	in	mm	in	mm	½ Outlet	¾ Outlet
28	27.6	700	15.4	390					HN28H-7	HN28T-7
40	39.4	1000	27.2	690					HN40H-7	HN40T-7
48	47.2	1200	35.0	890	2.5	63.5	6.8	172.2	HN48H-7	HN48T-7
59	59.1	1500	45.7	1160					HN59H-7	HN59T-7
71	70.9	1800	58.7	1490					HN71H-7	HN71T-7





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Connection to the Branch

- Separate the threaded inlet nipple (if necessary) from the flexible hose. Apply pipe sealant or tape to the NPT thread on the threaded inlet nipple and install into the branch outlet. Note: Only place the pipe wrench on the unthreaded portion of the inlet nipple.
- Examine the O-ring in the threaded hex union attached to the end of the hose. Ensure it is seated properly and free of debris.
- Ensure the arrow on the hose is pointing in the direction of flow. Tighten the threaded hex union at the end of the corrugated hose to the inlet nipple. Hand tight plus ½ turn (15ft-lbs).

Bending the Hose

- 1. The hose may be bent to ensure the inlet nipple and outlet drop are in the desired locations.
- 2. The hose should never be bent to a radius less than minimum listed bend radius. The bend radius is defined to the center of the hose.
- 3. The hose should not be bent within 2½ in of the threaded hex union at either end of the hose.
- The hose must have at least one 90° bend. A 90° bend can be achieved with two 45° bends or three 30° bends.
- 5. For best performance, the bends in the hose should be as large and smooth as possible.

Connection to the Bracket

- Installation of the outlet drop to the bracket shall be per the bracket's installation instructions. The bracket shall be listed for installation with the HN-7. See Page 1 for Listed and Approved brackets.
- 2. Examine the O-ring in the threaded hex union attached to the end of the hose. Ensure it is seated properly and free of debris.
- 3. Tighten the threaded hex union at the end of the corrugated hose to the outlet drop. Hand tight plus ½ turn (15ft-lbs)

Connection to the Sprinkler Head

1. Installation of the sprinkler head into the outlet drop shall be per the sprinkler manufacturer's installation instructions.

General Installation Notes

- 1. Never apply a wrench to the corrugated hose.
- 2. The Fig HN-7 may be installed in any direction from the branch.
- 3. If installing a sprinkler to a bracket after installation, it is best practice to prevent twisting of the bracket and hose by holding the outlet drop with a wrench.





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SprinkFlex[®] Infinite Position Tall Bracket **Fig. BKT–IPT**







Fig. BKT-IPT Dimensions & Model Number

L	W	Н	Х	Y	Z	SprinkFlex Historical
in/mm	in/mm	in/mm	in/mm	in/mm	in/mm	Model Number
24 610	3 50	4 50	1.00	0.05	0.88	IPT-24-BKT1
48 1219	88.9	114.3	25.4	24.1	22.4	IPT-48-BKT1



Product Specifications

Bracket Length

24in

48in

Material Carbon Steel

Applications

- Suspended Ceilings per ASTM C635 & C636
- Wood Framing Gypsum or Dry Wall
- Steel Framing Gypsum or Dry Wall

Ordering

Specify figure number, length, & description

Fig. BKT-IPT cULus & FM Listed Hose & Components

Hose &	cULus	Listed	FM Approved		
Figure #	24in	48in	24in	48in	
HB1 & HB1C	~		\checkmark		
HB-7 & HBC-7	~		\checkmark		
HN-7	~				
SFB-4 & SFBC-4			\checkmark		
SFN-4					





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Fig. BKT–IPT – SprinkFlex[®] Infinite Position Tall Bracket Applications

Suspended Ceilings



Shown with HB1



Shown with HB-7





Shown with HB1 & HB1C Elbow



Shown with HB-7 & HBC-7 Elbow Drop

Steel Framing - Gypsum or Dry Wall





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Fig. BKT–IPT SprinkFlex[®] Infinite Position Tall Bracket

Connection to Suspended Ceiling T-bar

- 1. Determine the location of the sprinkler above the suspended ceiling tile. Position the bracket and hub in the desired location on suspended ceiling T-bar. Note: The center of the hub is offset 1" from the center of the mounting screws.
- 2. Adjust the position of the bracket legs to the desired length if necessary.
- 3. Install the self-drilling mounting screw into the suspended ceiling T-bar using a Phillips head drive while applying downward pressure on the bracket leg and T-bar.
- 4. Repeat on both sides of the bracket.

Suspended Ceiling Tile Installation

- 1. The BKT-IPT bracket may be installed prior to the ceiling tile installation, preventing the need for sprinkler contractor tile adjustment.
- 2. For ease of tile installation, cut the largest sprinkler hole recommended by sprinkler head manufacturer. The largest hole that is still covered by the sprinkler escutcheon allows for an easier install.
- Angle the tile at a 45° angle and push the tile through the hole and up above the ceiling T-bar, maneuver the tile and allow it to drop in the proper location.

Connection to Wood Frames or Steel Studs in Gypsum or Drywall

- 1. Determine the location of the sprinkler between the wood frames or steel studs.
- 2. Adjust the position of the bracket legs to the desired length if necessary.
- Install two (2) screws per leg into the structure. Four (4) screws total per bracket.
 a. Wood Frames: #10 Wood Screws (1¾" Length Minimum)
 b. Steel Studs: #10 Self-Tapping Sheet Metal Screw (1¼" Length Minimum)

Connection to the Flexible Sprinkler Hose

- 1. Open the hinge door on the bracket hub by rotating the locking shaft ¹/₄ turn.
- 2. Slide the flexible hose drop into the hub.
- 3. Close the hinge door and re-lock the locking shaft with a ¼ turn.
- 4. Ensure the flexible hose drop is straight and not applying a substantial moment on the bracket which may cause sprinkler misalignment.
- 5. Adjust the flexible hose drop to the desired height and tighten the set screw hand-tight plus a ¾ turn (130 in-lbs).

Adjusting Bracket Legs

- 1. Determine the desired width of the legs.
- 2. Disassemble one leg
- 3. Drill a ⁷/₃₂" hole at the new desired leg location
- 4. Assemble the leg in the desired orientation by drilling the mounting screw into the hole.
- 5. Excess Square Bar can be removed as needed. At least 1/2" (13mm) shall extend past the bracket leg.

Notes:

Installation & maintenance of SprinkFlex products shall be in accordance with applicable local and federal codes (E.g. NFPA 13, NFPA 13D, NFPA 25, FM Datasheets, IBC)





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