







## Fig. 20XXHE cULus & FM Approved Brackets

Bracket Fig # & Size	cULus Listed	FM Approved	FlexHead Historical Model Number
BKT-MPO	✓	✓	MPO24BKT2
BKT-ADO, 16 in	✓	✓	ADO16BKT3
BKT-ADO, 24 in	✓	✓	ADO24BKT3
BKT-ADO, 30 in		✓	ADO30BKT3
BKT-ADO, 48 in		✓	ADO48BKT3
BKT-UHO3		✓	UHO-3
BKT-TZ		✓	SPO6TZBKT2

**Notes:** Flexhead Historical Model Numbers may be used to verify cULus Listings & FM Approvals.

## **Specifications**

#### **Assembly Length**

24 in 36 in 48 in

60 in 72 in

#### Outlet Drop Size (NPT per ASME B1.20.1)

½ NPS (DN15) 34 NPS (DN20)

# Inlet Pipe Size (NPT per ASME B1.20.1)

1 NPS (DN25)

#### **Pressure Rating**

UL: 300 psi (2,068 kPa) FM: 300 psi (2,068 kPa)

#### **Minimum Bend Radius**

UL: 3.0 in (76.2 mm) FM: 8.0 in (203.2 mm)

#### **Ambient Temperature** 300°F (145°C) Max

#### **Material**

304 Stainless Steel

## **Features**

- 100% Leak Tested Fully Welded Design
- Pre-Installed Sprinkler Head option available upon request
- Compliant with NFPA 13, 13R, & 13D
- · For Wet, Dry, and Pre-Action Sprinkler Systems

#### **Ordering**

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



PROJECT INFORMATION	APPROVAL STAMP	
Project:	Approved	
Address:	Approved as noted	
Contractor:	Not approved	
Engineer:	Remarks:	
Submittal Date:		
Notes 1:		
Notes 2:		

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0.11.1			Equivalent Length						Max # of 90° Bends		
Outlet Drop Size	Asembly Length	UL									
			k = 5.6	k = 8.0	k = 11.2	k = 14.0	k = 16.8	UL	FM		
-	In	ft/m	ft/m	ft/m	ft/m	ft/m	ft/m				
½ NPS DN15	24	<b>19</b> 5.8	<b>14.7</b> 4.5	<b>6.8</b> 2.1	<b>7.4</b> 2.3	-	-	3	1		
	36	<b>23</b> 7.0	21.8 6.6	11.8 3.6	<b>12.5</b> 3.8	_	_	3	2		
	48	<b>27</b> 8.2	<b>29.0</b> 8.8	16.9 5.2	17.6 5.4	_	_	4	3		
	60	<b>32</b> 9.8	<b>36.1</b> 11.0	21.9 6.7	<b>22.7</b> 6.9	_	_	4	4		
	72	<b>35</b> 10.7	<b>43.2</b> 13.2	<b>27.0</b> 8.2	27.8 8.5	_	_	4	4		
3/4 NPS DN20	24	18 5.5	-	<b>14.7</b> 4.5	<b>14.7</b> 4.5	<b>14.7</b> 4.5	<b>8.2</b> 2.5	3	1		
	36	<b>23</b> 7.0	_	21.8 6.6	<b>26.0</b> 7.9	21.8 6.6	13.0 4.0	3	2		
	48	<b>23</b> 7.0	-	<b>29.0</b> 8.8	33.0 10.1	<b>29.0</b> 8.8	17.8 5.4	4	3		
	60	<b>29</b> 8.8	-	<b>36.1</b> 11.0	<b>40.0</b> 12.2	<b>36.1</b> 11.0	<b>22.6</b> 6.9	4	4		
	72	<b>32</b> 9.8		43.2 13.2	<b>47.0</b> 14.3	43.2 13.2	27.5 8.4	4	4		

<sup>1.</sup> Equivalent Length of NPS 1 (DN25) Sch 40 Pipe.



<sup>2.</sup> Equivalent Lengths listed above assume the maximum number of 90° bends.

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

<sup>4.</sup> UL Equivalent Lengths are listed for installation with sprinklers with a maximum k-factor of 16.8.

**<sup>5.</sup>** FM Equivalent Lengths listed above include the Friction Loss of the Sprinkler.

<sup>6.</sup> UL Listed for "Limited Flexibility".



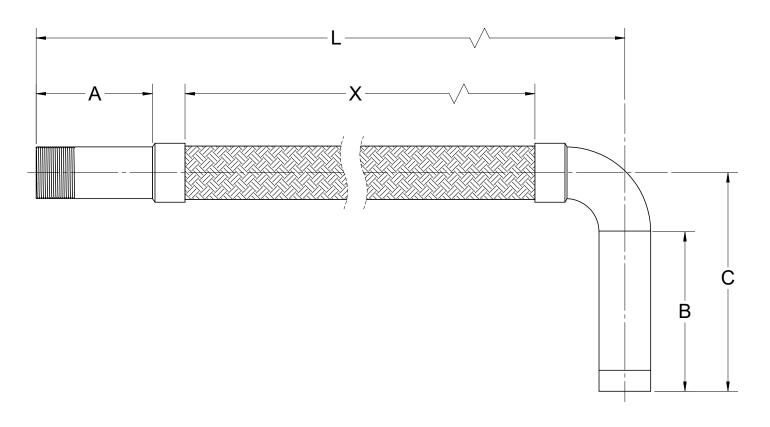


Fig. 20XXHE Dimensions & Model Number										
Asembly Length	' ITHE LEAGTH (L)		Braid Length (X)		Inlet Nipple Length (A)		Outlet Drop Length (B)		FlexHead Historical Model Number	
in	in	mm	in	mm	in	mm	in	mm	½ NPS Outlet	¾ NPS Outlet
24	24	610	19.5	495.0					2024HE-50	2024HE-75
36	36	914	31.5	800.0					2036HE-50	2036HE-75
48	48	1219	43.5	1105.0	3.0	76.2	See Below		2048HE-50	2048HE-75
60	60	1524	55.5	1410.0					2060HE-50	2060HE-75
72	72	1828	67.5	1715.0					2072HE-50	2072HE-75

Fig. 20XXHE Dimensions (Continued)							
Outlet Dro	p Length (B)	Outlet Drop Height (C)					
in	mm	in	mm				
1.5	38.0	3.0	76.0				
3.0	76.0	4.5	114.0				
4.0	4.0 102.0		140.0				



#### Installation Instructions

#### **Connection to the Branch**

- Apply pipe sealant or tape to the NPT thread.
- Install into branch outlet. Tighten the assembly by placing the pipe wrench on the pipe nipple section.
- Note: Only place the pipe wrench on the unthreaded portion of the inlet nipple.

### Connection to the Sprinkler Head

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

#### **Connection to the Bracket**

 Installation of the hose to the bracket shall be per the bracket's installation instructions. The bracket shall be listed for installation with the 20XXHE. See Page 1 for Listed and Approved brackets.

### **Bending the Hose**

- 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 must have at least one 90° bend. A 90° bend can be achieved with two 45° bends or three 30° bends.
- 4. For best performance, the bends in the hose should be as large and smooth as possible.

#### **General Installation Notes**

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- 1. Never apply a wrench to the braided hose.
- The Fig 20XXHE may be installed in any direction from the branch.
- 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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