





| Fig. 20XXE cULus & FM Approved Brackets | | | | | | | |
|---|--------------|-------------------------------------|------------|--|--|--|--|
| Bracket Fig # & Size | cULus Listed | FlexHead Historical Model Number | | | | | |
| BKT-MPO | \checkmark | \checkmark | MPO24BKT2 | | | | |
| BKT-ADO, 16 in | \checkmark | \checkmark | ADO16BKT3 | | | | |
| BKT-ADO, 24 in | \checkmark | \checkmark | ADO24BKT3 | | | | |
| BKT-ADO, 30 in | | \checkmark | ADO30BKT3 | | | | |
| BKT-ADO, 48 in | | \checkmark | ADO48BKT3 | | | | |
| BKT-UHO3 | | \checkmark | UHO-3 | | | | |
| BKT-TZ | | \checkmark | 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 | |
| Drop Length | | |
| 1.5 in | 3.0 in | 4.0 in |
| Outlet Drop Size (N | IPT per ASME B1.20.1) | |

¹/₂ NPS (DN15) ³/₄ NPS (DN20)

Inlet Pipe Size (NPT per ASME B1.20.1) 1 NPS (DN25)

Pressure Rating

UL: 175 psi (1,205 kPa) FM: 175 psi (1,205 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, outlet drop length, and description.



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



| Fig. 20XXE cULus Listing per UL 2443 & FM Approval (Listing) per FM 1637 | | | | | | | | | | |
|--|-------------------|-------------------|---------------------|---------------------|--------------------|---------------------|--------------------|----------|----------|----|
| | | Equivalent Length | | | | | | | | |
| Outlet Drop Size | Asembly Length | | FM | | | | | | | |
| | • | 0 | | UL | k = 5.6 | k = 8.0 | k = 11.2 | k = 14.0 | k = 16.8 | UL |
| - | In | ft/m | ft/m | ft/m | ft/m | ft/m | ft/m | | | |
| 24 36 ¹ / ₂ NPS DN15 48 60 72 | 24 | 19 5.8 | 26.4 8.0 | 6.8 2.1 | 7.4 2.3 | - | - | 3 | 1 | |
| | 36 | 23 7.0 | 30.1 9.2 | 11.8 3.6 | 12.5 3.8 | _ | _ | 3 | 2 | |
| | 48 | 27 8.2 | 33.8 10.3 | 16.9 5.2 | 17.6 5.4 | _ | _ | 4 | 3 | |
| | 60 | 32 9.8 | 37.5 11.4 | 21.9 6.7 | 22.7 6.9 | _ | _ | 4 | 4 | |
| | 72 | 35 10.7 | 41.2 12.6 | 27.0 8.2 | 27.8 8.5 | _ | - | 4 | 4 | |
| | 24 | 18 5.5 | _ | 8.8 2.7 | 8.7 2.7 | 14.7 4.5 | 8.2 2.5 | 3 | 1 | |
| ¾ NPS DN20 | 36 | 23 7.0 | _ | 25.2 7.7 | 14.2 4.3 | 21.8 6.6 | 13.0 4.0 | 3 | 2 | |
| | 48 | 23 7.0 | _ | 32.9 10.0 | 18.4 5.6 | 29.0 8.8 | 17.8 5.4 | 4 | 3 | |
| | 60 | 29 8.8 | _ | 40.6 12.4 | 22.7 6.9 | 36.1 11.0 | 22.6 6.9 | 4 | 4 | |
| | 72 | 32 9.8 | _ | 48.5 14.8 | 27.0 8.2 | 43.2 13.2 | 27.5 8.4 | 4 | 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.

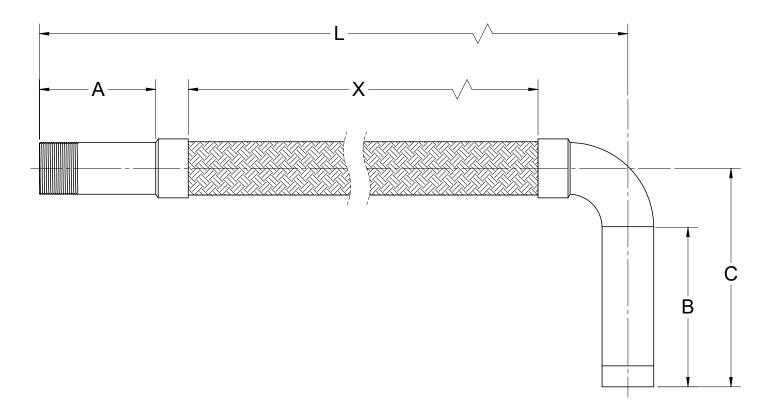
4. UL Equivalent Lengths are listed for installation with sprinklers with a maximum k-factor of 16.8.

5. FM Equivalent Lengths listed above include the Friction Loss of the Sprinkler.

6. UL Listed for "Limited Flexibility".







| | | | Fig. 20) | (XE Dimensi | ions & Model | Number | | | | |
|-------------------|---------|-----------|----------|-------------|--------------|--------------|------------|---------------|---------------------|--------------|
| Asembly Length | True Le | ength (L) | Braid L | ength (X) | Inlet Nippl | e Length (A) | Outlet Dro | op Length (B) | FlexHead Model N | |
| in | in | mm | in | mm | in | mm | in | mm | 1/2 NPS Outlet | ¾ NPS Outlet |
| 24 | 24 | 610 | 20 | 508 | | | | | 2024E-50 | 2024E-75 |
| 36 | 36 | 914 | 32 | 813 | | | | | 2036E-50 | 2036E-75 |
| 48 | 48 | 1219 | 44 | 1118 | 3.0 | 76.2 | See Below | | 2048E-50 | 2048E-75 |
| 60 | 60 | 1524 | 56 | 1422 | | | | | 2060E-50 | 2060E-75 |
| 72 | 72 | 1828 | 68 | 1727 | | | | | 2072E-50 | 2072E-75 |

| | Fig. 20XXE Dimensions (Continued) | | | | | | | |
|---|-----------------------------------|-----|-------|--|--|--|--|--|
| Outlet Drop 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 | 102.0 | 5.5 | 140.0 | | | | | |



Installation Instructions

Connection to the Branch

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

Connection to the Sprinkler Head

1. 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 20XXE. See Page 1 for Listed and Approved brackets.

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.
- 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

- 1. Never apply a wrench to the braided hose.
- 2. The Fig 20XXE 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.

