



# 3.



## Pipe Hangers and Sprinkler Clips

Many thousands of kilometres of piping are suspended from the roofs of buildings in every country. Flamco's comprehensive range of pipe supports offers a complete solution for mounting threaded tubes, thin-wall steel pipes, copper pipes, plastic pipes and rail structures safely, easily and reliably. Flamco also offers a range of certified pipe hangers for sprinkler systems.

In short, Flamco offers a solution for any conceivable situation.



# BK Pipe Hangers: One Piece Construction Ensures The Highest Strength

## The advantages of Flamco BK:

- The one-piece clip can withstand a very high load.
- Thanks to the ball joint, it is not necessary to have a separate ball hinge to accommodate low level expansion.
- Substantial freedom of movement.
- Given the length of the sleeve, it is also possible to insulate the pipe after fitting, without impairing the freedom of movement of the ball joint.



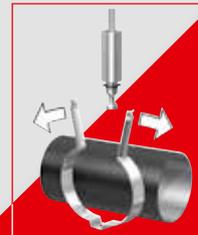
ClickEasy K.

D threaded rod.

T cap for sealing the ball joint.

BKI clip with rubber lining.

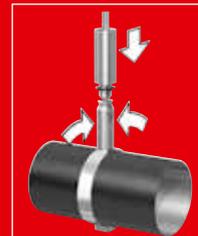
## Installation without tools



1. Open the clip by hand and fit it around the pipe.



2. Align the two tabs on the clip with the ball joint and hold them in place.



3. Then slide the sleeve down and over the tabs and.... That's all there is to it!

The ball joint allows freedom of movement: 2 x 6° (M 6). 2 x 9° (M 8) or 2 x 8° (M 12) from the axis negating or reducing fixed points.



**BK pipe hangers**

- To hang threaded pipes, boiler tubes and thin wall steel tubes.
- Sendzimir zinc-plated clip.



**BKI pipe hangers**

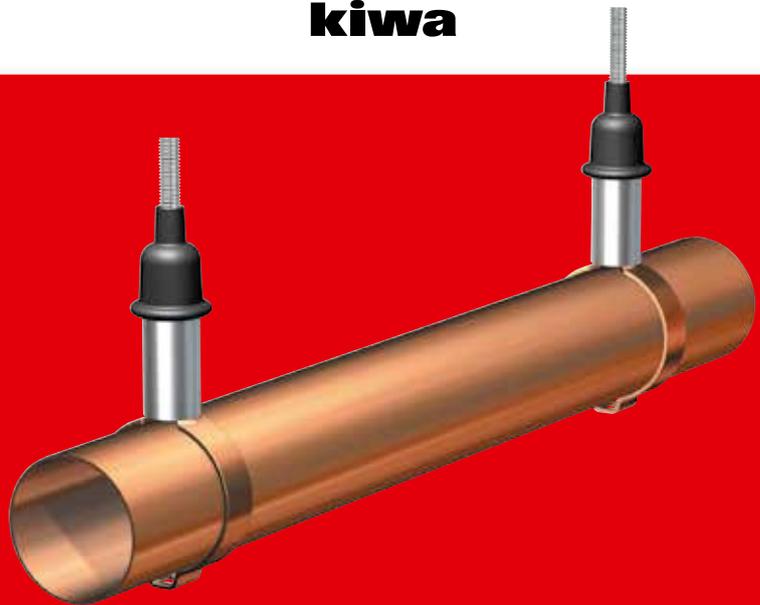
- With a noise suppressing rubber lining.
- For pipe dimensions in excess of 219.1 mm, a BK clip can be used with a separate rubber SR lining strip.
- Sendzimir zinc plated clip (BKI 12 electrolytically zinc-plated).

**kiwa**



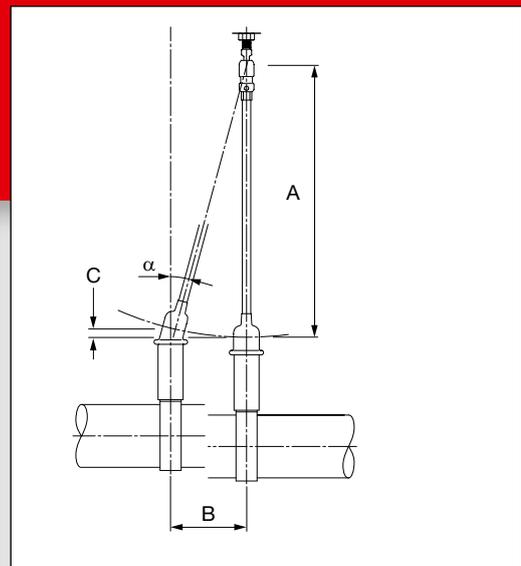
**BKK pipe hangers**

- For hanging copper pipes.
- Copper bracket, bushing and ball joint zinc plated.



**kiwa**

Length threaded rod <b>A</b> (between joints) [cm]	Max. movement <b>B</b> ( $\alpha = 6^\circ$ ) [cm]	Height difference <b>C</b> ( $\alpha = 6^\circ$ ) [cm]
5	0.53	0.03
10	1.05	0.05
15	1.58	0.08
20	2.10	0.11
25	2.63	0.14
30	3.15	0.16
35	3.68	0.19
40	4.20	0.22
45	4.73	0.25
50	5.26	0.27
55	5.78	0.30
60	6.31	0.33
65	6.83	0.36
70	7.36	0.38
75	7.88	0.41
80	8.41	0.44
85	8.93	0.47
90	9.46	0.49
95	9.98	0.52
100	10.51	0.55

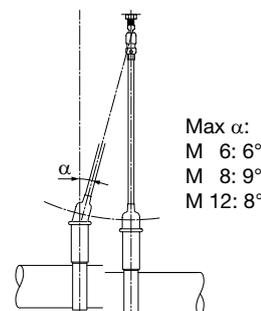
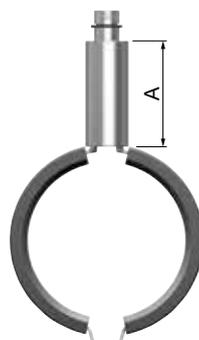


## FOR ALL TYPES OF PIPE

### BKI Pipe Hangers

BKI clips are designed for mounting threaded pipes, sprinkler pipes, thin-walled steel pipes and copper pipes to the ceiling. The hanger consists of a ball element, a sleeve and a one piece clip. Due to the ball element, the pipe hangers have an axial movement of up to 9° from vertical in any direction. This allows for unrestricted pipe expansion during fluctuations in temperature, without damaging the installation. The length of the sleeve is designed to enable the pipe to be insulated even after mounting the installation, without restricting the axial movement of the ball element.

- The one-piece clip guarantees a high permissible load.
- BKI 12: With locking system on the inside of the sleeve.
- BKI 8/12: With rubber sleeve holder to keep sleeve positioned around the pipe during mounting.
- Maximum swing of the pipe hanger: 9° from vertical in any direction.
- Noise-suppressing rubber strip: 20 dB(A) according to ISO 3822-1  
To achieve maximum sound suppression do not overload the fitting.
- Electrolytically zinc-plated (except for clip BKI 6/8: Sendzimir zinc-plated).
- BKI pipe hangers are compatible with pipe sizes as per DIN 2448 and DIN EN 1057.
- Safety margin for minimal breaking load (M) = 3.



Max  $\alpha$ :  
M 6: 6°  
M 8: 9°  
M 12: 8°

Type	Ø Pipe				Con- nection	Max. work- ing load [N]	Max. work- ing load [N] -20 dB(A)*	Strip dimensions [mm]	T cap	Dimen- sion A [mm]		Order Code
	Threa- ded Tube	Sprinkler Pipe Ø ext. [mm]	Thin-W. Steel Pipe Ø ext. [mm]	Copper pipe Ø ext. [mm]								
BKI 6 x 15	-	-	15.0	15.0	M 6	1500	400	12 x 1.5	T 6	40	10	33009
BKI 6 x 18	-	-	18.0	18.0	M 6	1500	400	12 x 1.5	T 6	40	10	33001
BKI 6 x 3/8	3/8"	-	-	-	M 6	1500	400	12 x 1.5	T 6	40	10	33001
BKI 6 x 22 **	-	-	-	-	M 6	1500	400	12 x 1.5	T 6	40	10	33014
BKI 6 x 1/2	1/2"	-	21.3	21.3	M 6	1500	400	12 x 1.5	T 6	40	10	33002
BKI 6 x 28 **	-	-	-	-	M 6	1500	400	12 x 1.5	T 6	40	10	33010
BKI 6 x 3/4	3/4"	-	26.9	26.9	M 6	1500	400	12 x 1.5	T 6	40	10	33003
BKI 6 x 35 **	-	-	-	-	M 6	1500	400	12 x 1.5	T 6	40	10	33011
BKI 6 x 1	1"	-	33.7	33.7	M 6	1500	400	12 x 1.5	T 6	40	10	33004
BKI 6 x 42 **	-	-	-	-	M 6	1500	400	12 x 1.5	T 6	40	10	33012
BKI 6 x 1 1/4	1 1/4"	-	42.4	42.4	M 6	1500	400	12 x 1.5	T 6	40	10	33005
BKI 6 x 1 1/2	1 1/2"	48.3	-	-	M 6	1500	400	12 x 1.5	T 6	40	10	33006
BKI 6 x 54 **	-	54.0	-	-	M 6	1500	400	12 x 1.5	T 6	40	10	33013
BKI 6 x 2	2"	60.3	-	-	M 6	1500	400	12 x 1.5	T 6	40	10	33007
BKI 8 x 76	2 1/2"	76.1	-	-	M 8	2500	700	16 x 1.9	-	54	10	33138
BKI 8 x 89	3"	88.9	-	-	M 8	2500	700	16 x 1.9	-	54	10	33140
BKI 12 x 114	4"	114.3	-	-	M 12	5000	2000	25 x 2.75	-	60	25	33244
BKI 12 x 140	5"	139.7	-	-	M 12	5000	2000	25 x 2.75	-	60	25	33248
BKI 12 x 168	6"	168.3	-	-	M 12	5000	2000	25 x 2.75	-	60	25	33253
BKI 12 x 219	8"	219.1	-	-	M 12	5000	2000	25 x 2.75	-	60	25	33258

\*\* KIWA certified certificate BRL-K-627/02 for use with potable water.

FOR STEEL PIPES

**BK Pipe Hangers**

BK clips are designed for mounting steel pipes to the ceiling. The hanger consists of a ball element, a sleeve and a one piece clip. Due to the ball element, the pipe hangers have an axial movement of 9° in any plane. This allows for unrestricted pipe expansion during fluctuations in temperature without damaging the installation.

The length of the sleeve is designed to enable the pipe to be insulated even after mounting the suspension without restricting the axial movement of the ball element.

- The one-piece clip guarantees a high permissible load.
- BK 8: With rubber sleeve holder to keep sleeve positioned around the pipe during mounting.
- Maximum swing of the pipe hanger: 9° from vertical in any direction.
- Clip: Sendzimir zinc-plated.
- Sleeve and ball element: Electrolytically zinc-plated.
- BK pipe hangers are compatible with pipe sizes as per DIN 2448.
- Safety margin for minimal breaking load (V) = 3.



Type	Ø Pipe			Connection	Max. working load [N]	Strip dimensions [mm]	T cap	Dimension A [mm]		Order Code
	Sprinkler Pipe Ø ext. [mm]	Threaded Tube ["]	Thin-W. Steel Pipe Ø ext. [mm]							
BK 6 x 15	-	-	15	M 6	1500	12 x 1.5	T 6	40	250	32109
BK 6 x 42	-	-	42	M 6	1500	12 x 1.5	T 6	40	250	32105
BK 6 x 18	-	-	18	M 6	1500	12 x 1.5	T 6	40	250	32101
BK 6 x 3/8	-	3/8	-	M 6	1500	12 x 1.5	T 6	40	250	32101
BK 6 x 22	-	-	22	M 6	1500	12 x 1.5	T 6	40	250	32102
BK 6 x 1/2	-	1/2	-	M 6	1500	12 x 1.5	T 6	40	250	32102
BK 6 x 3/4	-	3/4	-	M 6	1500	12 x 1.5	T 6	40	250	32103
BK 6 x 28	-	-	28	M 6	1500	12 x 1.5	T 6	40	250	32110
BK 6 x 1	-	1	-	M 6	1500	12 x 1.5	T 6	40	250	32104
BK 6 x 35	-	-	35	M 6	1500	12 x 1.5	T 6	40	250	32111
BK 6 x 1 1/4	-	1 1/4	-	M 6	1500	12 x 1.5	T 6	40	250	32105
BK 6 x 1 1/2	-	1 1/2	-	M 6	1500	12 x 1.5	T 6	40	250	32106
BK 6 x 2	-	2	-	M 6	1500	12 x 1.5	T 6	40	50	32107
BK 8 x 76	76.1	2 1/2	-	M 8	2500	16 x 1.9	-	54	10	32238
BK 8 x 89	88.9	3	-	M 8	2500	16 x 1.9	-	54	10	32240

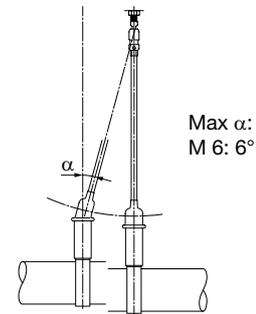


## FOR COPPER PIPES

### BKK Pipe Hangers

BKK pipe hangers are designed for mounting copper pipes to the ceiling. The hanger consists of a ball element, a sleeve and a one piece clip. Due to the ball element, the pipe hangers have an axial movement of up to 6° from vertical in any direction. This allows for unrestricted pipe expansion during fluctuations in temperature, without damaging the installation. The length of the sleeve is designed to enable the pipe to be insulated even after mounting the installation, without restricting the axial movement of the ball element.

- One-piece clip guarantees a high permissible load.
- Maximum swing of pipe hanger: 6° from vertical in any direction.
- Clip: Copper.
- Sleeve and ball element: Electrolytically zinc-plated.
- BKK pipe hangers are compatible with pipe sizes as per DIN EN 1057.



Type	Ø Pipe ext. dia. [mm]	Connection	Max. working load [N]	Strip dimensions [mm]	T cap	Dimension A [mm]		Order Code
<b>BKK 6 x 12 *</b>	12	M 6	650	12 x 1.5	T 6	40	10	34110
<b>BKK 6 x 15 *</b>	15	M 8	650	12 x 1.5	T 6	40	10	34112
<b>BKK 6 x 18 *</b>	18	M 6	650	12 x 1.5	T 6	40	10	34114
<b>BKK 6 x 22 *</b>	22	M 6	650	12 x 1.5	T 6	40	10	34116
<b>BKK 6 x 28 *</b>	28	M 6	650	12 x 1.5	T 6	40	10	34118
<b>BKK 6 x 35 *</b>	35	M 6	650	12 x 1.5	T 6	40	10	34120
<b>BKK 6 x 42 *</b>	42	M 6	650	12 x 1.5	T 6	40	10	34122
<b>BKK 6 x 54 *</b>	54	M 6	650	12 x 1.5	T 6	40	10	34124

\* KIWA certified certificate BRL-K-627/02 for use with potable water.

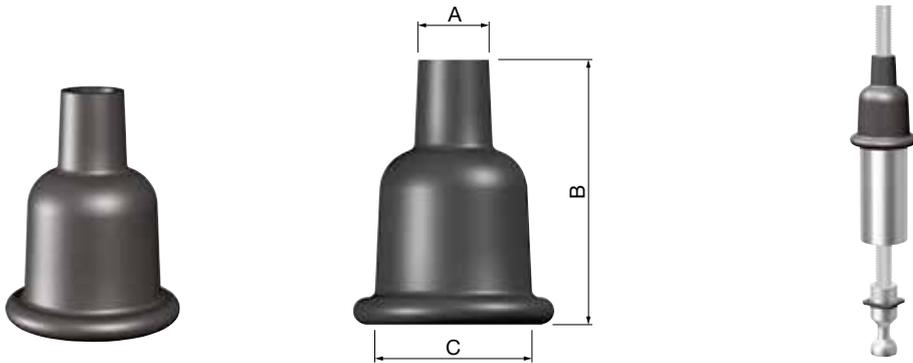


**PIPE HANGER ACCESSORIES**

**T Caps**

Prevents moisture and dust from entering the ball element, so that the axial movement is unrestricted. During fitting, the cap can hold the sleeve, so that both hands are free.

- Material: PVC.
- Colour: black.



Type	Suitable for threaded rod	Dimensions				Order Code
		A [mm]	B [mm]	C [mm]		
T 6	D 6	6	30.5	15	50	70501

# Your Supplier for Specialist Sprinkler System Supports

Flamco offers two different clips for hanging sprinkler system tubes: the BES and BCS. The BCS and certain of the BES clips are FM approved. Some of the BES clips are also available with a VdS mark.

In addition, BES and BCS clips are also UL approved. All these clips can be fitted easily, without tools and stand out due to their excellent finish.

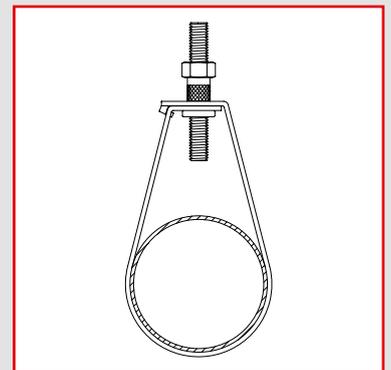
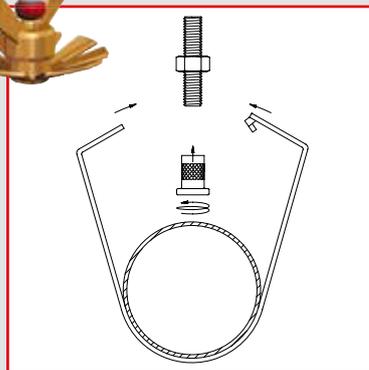
Locknut (VdS only).

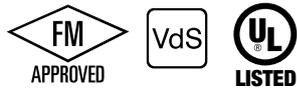
The distance from the soffit can be adjusted by screwing the threaded rod in or out.

BES clip.



Flamco clips have been used in sprinkler systems across the world for many years to the satisfaction of installers, customers and approval bodies. A fact you can rely on now and in the future.



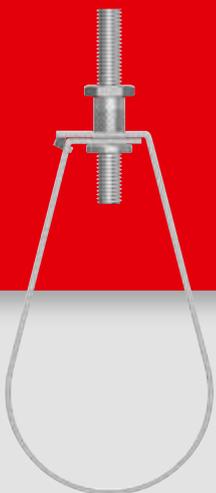


**BES Benefits**

- The one-piece clip guarantees a high permissible load.
- The special clasp mechanism makes it easy to pre-assemble.
- The height of the mechanism can be adjusted.
- Depending on type, FM, VdS and UL approved.
- Heavy duty quality.

**BCS Benefits**

- The one piece clip guarantees a high permissible load.
- The height of the mechanism can be adjusted.
- FM/UL approved load bearing.



BES



BCS



## FOR SPRINKLER SYSTEMS

### BES Pipe Hangers

BES pipe hangers are designed for mounting sprinkler system pipes to the ceiling.

- One-piece clip guarantees a high permissible load.
- Rigid fastening.
- Clip: Sendzimir zinc plated.
- Nut: Electrolytically zinc plated.
- **UL/FM/VdS** Approved (see table).



Type	Ø Pipe		Connection	Approval			Min. test failure load*			Strip dimensions [mm]	Adjustment A [mm]		Order Code
	Ext. dia. [mm]	Nom. ["]		UL	FM	VdS	UL [N]	FM [N]	VdS [N]				
<b>BES 8 x 3/4</b>	26.9	3/4"	M 8	-	-	✓	-	-	4000	25 x 1.5	35	50	35753
<b>BES 8 x 1</b>	33.7	1"	M 8	-	-	✓	-	-	4000	25 x 1.5	35	50	35754
<b>BES 8 x 1 1/4</b>	42.4	1 1/4"	M 8	-	-	✓	-	-	4000	25 x 1.5	35	50	35755
<b>BES 8 x 1 1/2</b>	48.3	1 1/2"	M 8	-	-	✓	-	-	4000	25 x 1.5	35	50	35756
<b>BES 8 x 2</b>	60.3	2"	M 8	-	-	✓	-	-	4000	25 x 1.5	35	50	35757
<b>BES 10 x 2 1/2</b>	76.1	2 1/2"	M 10	✓	✓	✓	3781	4181	7000	25 x 2.5	40	50	35708
<b>BES 10 x 3</b>	88.9	3"	M 10	✓	✓	✓	4670	4715	7000	25 x 2.5	40	50	35709
<b>BES 10 x 114</b>	114.3	4"	M 10	✓	✓	✓	6672	6561	7000	25 x 2.5	60	50	35712
<b>BES 12 x 140</b>	139.7	5"	M 12	✓	✓	✓	8896	8896	10000	30 x 2.5	73	50	35714
<b>BES 12 x 168</b>	168.9	6"	M 12	✓	✓	✓	11787	11632	10000	30 x 2.5	83	50	35716

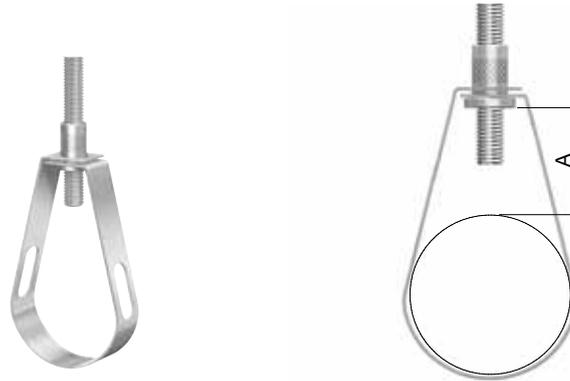
\* Min. breaking load according to FM/UL/VdS regulations.



**BCS Pipe Hangers**

BCS pipe hangers are designed for mounting sprinkler system pipes to the ceiling.

- Mounting without any tools.
- Adjustable in height.
- Clip: Sendzimir zinc plated (except 8": electrolytically zinc plated).
- Nut: Electrolytically zinc plated.
- Support nut M 10 up to 4", M 12 up to 8".
- **UL/FM** Approved.



Type	Ø Pipe		Connection	Approval		Max. working load * [N]	Adjustable height [mm]	Slotted hole [mm]	Strip dimensions [mm]		Order Code
	Ext. dia. [mm]	Nom. ["]		UL	FM						
<b>BCS M 10 x 3/4</b>	26.9	3/4"	M 10	✓	✓	1512	35	-	20 x 1	100	35770
<b>BCS M 10 x 1</b>	33.7	1"	M 10	✓	✓	1824	35	-	20 x 1	100	35771
<b>BCS M 10 x 1 1/4</b>	42.4	1 1/4"	M 10	✓	✓	1913	35	-	20 x 1	100	35772
<b>BCS M 10 x 1 1/2</b>	48.3	1 1/2"	M 10	✓	✓	2313	35	-	20 x 1	100	35773
<b>BCS M 10 x 2</b>	60.3	2"	M 10	✓	✓	2815	35	-	20 x 1	100	35774
<b>BCS M 10 x 2 1/2</b>	76.1	2 1/2"	M 10	✓	✓	4181	40	27 x 12	25 x 1.25	100	35775
<b>BCS M 10 x 3</b>	88.9	3"	M 10	✓	✓	4715	40	27 x 12	25 x 1.25	50	35776
<b>BCS M 10 x 3 1/2</b>	101.6	3 1/2"	M 10	✓	✓	5583	49	27 x 12	25 x 1.5	50	35777
<b>BCS M 10 x 4</b>	114.3	4"	M 10	✓	✓	6561	60	27 x 12	25 x 1.5	50	35778
<b>BCS M 12 x 5</b>	139.7	5"	M 12	✓	✓	8896	73	60 x 15	30 x 2	50	35779
<b>BCS M 12 x 6</b>	168.9	6"	M 12	✓	✓	11632	83	60 x 15	30 x 2	50	35780
<b>BCS M 12 x 8</b>	219.1	8"	M 12	✓	✓	16903	85	60 x 15	30 x 3	25	35781

\* Min. breaking load according to FM regulations.

