

**BLAZE**

Flexible Sprinkler Drop - Braided

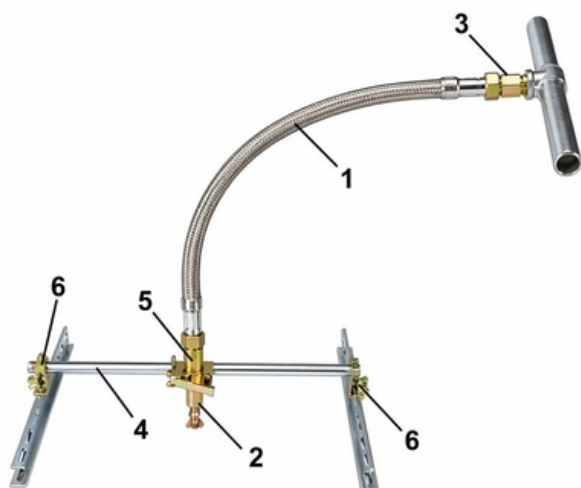
Model - BT-5502

Description:

Blaze Braided Flexible Sprinkler Hoses are reinforced with stainless steel braiding to enhance mechanical strength and resistance to damage, vibrations and seismic activities. Flexible Sprinkler Hose connects sprinklers to branch pipes and are specifically designed for suspended ceilings. Each assembly includes a stainless steel flexible hose, an inlet nipple, a sprinkler reducer, and fixing brackets. These hoses come in lengths ranging from 0.7m to 1.8m (28"-72") with either 1/2" or 3/4" threaded outlets.

For optimal results the Blaze Flexible Drop is engineered to meet ASTM C635 / C636 Standards and complies with NFPA 13,13D and 13R Codes, ensuring industry leading safety and reliability.

Product Details:



Hose diameter	OD 28.0mm / ID 27.4mm
Max. Ambient Temperature	225°F / 107°C
Max. Working Pressure	200 psi / 1380 kPa
Min. Bend Radius	3" / 76.2 mm - UL 9" / 229 mm - FM
Certificates	UL listed, FM approved
Package Contents	1 x braided flexible hose, 1 x center bracket, 1 x square bar, 2 x end brackets.
Inlet Connection to Branch Line	1" BSPT - Standard / (NPT-Optional)
Outlet Connection to Sprinkler	1/2" NPT-Standard Optional 3/4" NPT / 1/2" BSPT / 3/4" BSPT
Sprinkler K-Factor	1/2" NPT outlet - 80 (5.6) 3/4" NPT outlet - 115 (8.0)

Material Specification

Part No.	Description	Material	Finish
1	Braided Flexible	Stainless Steel 304	
2	Outlet Reducer	Carbon Steel Grade STPG370	Zinc Plated
3	Inlet Nipple	Carbon Steel Grade STPG370	Zinc Plated
4	Square Bar	GI	Zinc Plated
5	Middle Bracket (MH or quick fit ML)	Steel	Zinc Plated
6	End Bracket 68mm EPT or quick fit EPT-L 105mm ECT or quick fit ECT-L)	Steel	Zinc Plated

BLAZETECH SYSTEMS LTD. contact@blaze-tech.co.uk

Milton Keynes, United Kingdom

www.blaze-tech.co.uk

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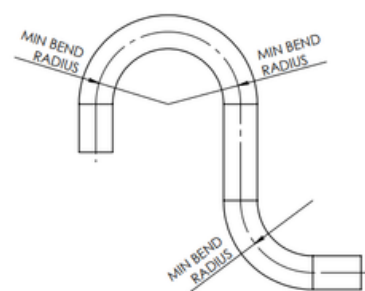
Equivalent Length / Max Bends:

Outlet Size inch(mm)	K-Factor gpm / psi (lpm / bar)	Assembly Length mm (inches)	Max Number of 90° bends		Minimum Bend Radius Inch / (mm)		Equivalent Length of 1" Sch. 40 pipe ft (m)	
			UL	FM	UL	FM	UL	FM
1/2" (15)	5.6 (80.6)	700 (28)	3	1	3.0(77)	9 (229)	18 (5.5)	22.9 (6.9)
		1000 (40)	5	2	3.0(77)	9 (229)	23 (7.1)	34.6 (10.5)
		1200 (48)	7	3	3.0(77)	9 (229)	29 (8.9)	41 (12.5)
		1500 (60)	9	4	3.0(77)	9 (229)	39 (11.9)	50.4 (15.3)
		1800 (72)	12	4	3.0(77)	9 (229)	50 (15.3)	58.5 (17.8)
3/4" (20)	8.0 (115)	700 (28)	3	1	3.0(77)	9 (229)	20 (6.1)	15.7 (4.8)
		1000 (40)	5	2	3.0(77)	9 (229)	24 (7.4)	26.9 (8.2)
		1200 (48)	7	3	3.0(77)	9 (229)	31 (9.5)	34.8 (10.6)
		1500 (60)	9	4	3.0(77)	9 (229)	40 (12.2)	43.8 (13.5)
		1800 (72)	12	4	3.0(77)	9 (229)	70 (21.4)	53.4 (16.2)

Note: Table above shows pressure loss figures for the flexible hose with maximum number of bends. Pressure loss of the hose with fewer bends than shown in the table will be lower.

Important Installation Information:

- Installation of the Flexible Sprinkler Hose must be carried out by a suitably qualified professional (such as one certified to LPS 1048 or an equivalent standard) and must comply with the requirements of the local authority having jurisdiction. Any deviation from these standards or alterations to the product will void the warranty.
- Do not interchange Blaze Flexible Sprinkler Hose, brackets and fittings with any other Manufacturer
- The flexible stainless-steel hose must not be installed through heating ducts or fire compartments. It is also not permitted for use with penetration seals, fire-stopping materials, cavity barriers, or any other items restricted by approval bodies or sprinkler regulations.
- Flexible sprinkler hoses are recommended for use in wet sprinkler systems. They may also be used in dry systems, but must not be installed in alternate or deluge systems.
- The flexible stainless steel hose is suitable for indoor applications above freezing temperatures only.
- Flexible stainless-steel hoses and fittings have limited flexibility and must only be installed using bends that meet their specified minimum bend radius.
- The system designer is responsible for verifying product suitability regarding chemical exposure, water additives, temperature, and UV levels. If in doubt, contact the manufacturer for guidance. Before installation, the designer or responsible person must consult a Blaze sales representative to ensure compliance with all local water regulations.
- Do not bend/adjust the flexible hose under pressure.
- Do not tighten/adjust hose connections when the system is pressurized.
- Rotating the nipple or reducer during tightening may damage the seal.
- The installing contractor must include a copy of this document in the sprinkler system installation, operating and maintenance manual.
- Do not bend the flexible within 65mm (2 1/2" inches) of its ends
- It is the responsibility of the owner to ensure that the fire protection system is in proper operating condition.
- A qualified service provider must inspect and maintain the flexible hoses during routine system checks, following all national codes and requirements
- Contact Blazetech Systems Ltd. for further details and technical support.
- To prevent seal damage, do not leave the flexible hose unsupported once it is connected to the main pipe.
- **Ignoring these instructions may cause the sprinkler system to malfunction, leading to severe injury or property damage. Blazetech Systems Ltd. will not be responsible for any resulting damages.**



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Reducer

Available lengths 118, 140, 155, 178, 200, 230 mm. Inlet size available at 1/2", 3/4", 3/8" in both BSPT and NPT thread type. Entirely made of carbon steel and zinc-plated for durability



Knurling Reducer
(OR-K)

- Grooved type



Knurling Reducer w/ Marking
(OR-KM)

- Grooved type
- Measurement Marks
- User-friendly for easy installation



Reducer
(OR)

- Standard type
- Length at your choice

Elbow Reducer

An elbow reducer simplifies pipe installation in tight spaces where the main pipe and ceiling are too close for a standard reducer.



90° Elbow Reducer-Long type
(REL-L)

- Size: 162x152mm
- Standard type



90° Welded Reducer
(REL-W)

- Length: 140, 155mm
- For tight ceiling



Short Elbow Reducer
(REL-S)

- Length: 42, 62, 82mm
- Designed to fit with hook bracket



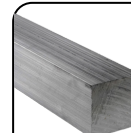
Adjustable Elbow Bracket
(REL-A)

- Length: 42, 62, 82mm
- Adjustable after installation.
- Less tool needed

Nipple

The nipple connects the branch pipe to the flexible hose, matching the branch pipe size. The standard is 63mm. 1" to 1-1/4" thread available in BSPT and NPT

Material	Carbon Steel (Std.) SS (Optional)
Finish	Zinc-Plated
Threads	1" / 1 1/4" X M33 (Standard), 1" / 1 1/4" X M36 (Optional)



Square Bar

Inch	mm
26"	650
28"	700
40"	1000
52"	1300
62"	1600

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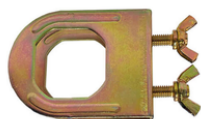
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Center Bracket

The center bracket is designed to securely hold both the hose and sprinkler head, offering a cost-effective installation solution.



Round Bracket

(MS)

- Suspended ceilings
- Hard-Lid ceilings Economy friendly



One touch Bracket

(ML)

- Suspended ceilings
- Hard-Lid ceilings



Hook Bracket

(MC)

- Suspended ceilings
- Hard-Lid ceilings
- Designed to fit with the elbow bracket



Cap Mount Bracket

(MH-M)

- Surface Mount Applications



Cap Bracket

(MH)

- Suspended ceilings
- 3 types of installation available (Lateral, top-down, full boll thread)

End Bracket

End brackets securely attach the square bar to the ceiling, with options for wood or gypsum boards Available in two sizes (68mm and 105mm) to suit different bracket models.



One touch Bracket

(EPT-L/ECT-L)

- Length: 68, 105mm
- Suspended ceilings, Hard-Lid ceilings



Wood Beam Stud Bracket

(EP-WB)

- For wooden surface



Metal Stud End Bracket

(EPG)

- Length: 38mm
- For Metal Stud ceiling



Adjustable Elbow Bracket

(EPT/ECT)

- Length: 68,105mm
- Suspended ceilings
- Hard-Lid ceilings



Hexagon Bracket

(EPT-S/ECT-S)

- Length: 68,105mm
- Economy friendly



Rondo Brackets

(EPT-R60/EPT-R80)

- Length: 60, 80mm
- Hard-Lid ceilings
- Hat Furring Channel Grid

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