

**BLAZE**

Concealed Sprinkler

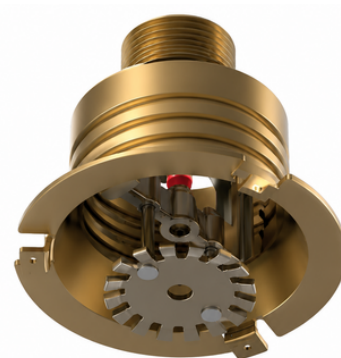
Model : BL 5609 / BL 5610

Description:

The BL 5609 and BL 5610 Concealed Pendent Sprinkler Models are concealed fire sprinklers manufactured in accordance with UL 199. Available in both Standard Response and Quick Response configurations, these sprinklers are designed exclusively for concealed pendent installations. Featuring an integrated adapter for simplified installation and threaded cover plates that provide quick, tool-free fitting with vertical adjustment, they deliver a clean architectural appearance while ensuring reliable fire protection. The series is approved for use in hydraulically calculated fire sprinkler systems in accordance with NFPA 13, making it suitable for a wide range of commercial and residential applications.

Specifications :

Model	BL 5609(S.R.) BL 5610(Q.R.)
K-Factor	5.6 (80)
Nominal Thread Size	1/2" NPT
Maximum Tightening Torque	21 ft-lbs (28.6 Nm)
Maximum Working Pressure	175 PSI (12 Bar)
Temperature Range	57°C - 93°C (BL 5609) 68°C - 93°C (BL 5610)



Temperature Rating Table :

Sprinkler SIN	Bulb Size	Temperature Rating		NFPA Allowed Maximum Ambient (Ceiling) Temperature	Glass Bulb Color
		UL			
BL 5609	5 mm	135°F / 57°C	-	100°F / 38°C	Orange
		155°F / 68°C		100°F / 38°C	Red
		175°F / 79°C		150°F / 65°C	Yellow
		200°F / 93°C		150°F / 65°C	Green
BL 5610	3 mm	155°F / 68°C		100°F / 38°C	Red
		-		150°F / 65°C	Yellow
		-		150°F / 65°C	Green

Material Specifications :

Frame	Brass
Deflector	Brass
Cap	Copper
Load Screw	Brass
Bulb	Glass
Spring Seal	SUS
Sprinkler Finish	Natural Brass
Cover Plate Finishes	White / Chrome / Custom Colours on Request*

* - MOQ Applies

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Model : BL 5609 / BL 5610

Installation Requirements :

All Sprinklers shall be installed in accordance with NFPA 13 and all applicable local codes, regulations and standards. Any deviation from these requirements, including unauthorised modification of the sprinkler, will invalidate all warranties provided by Blazetech Systems Ltd.

The sprinkler system pipework shall be correctly sized to ensure the required flow rate is delivered to each sprinkler. Before installation, verify that the correct sprinkler model, style, orifice size and temperature rating have been selected for the application. Sprinklers should only be installed after the pipework has been completed to minimise the risk of mechanical damage. Any sprinkler found to be damaged must be replaced immediately.

Wet pipe systems must be adequately protected against freezing conditions. Following installation, the complete system shall be tested in accordance with the relevant recognised standards. If leakage occurs at the threaded connection, remove the sprinkler, apply a suitable pipe joint compound or PTFE thread seal tape, and reinstall the sprinkler correctly.

Installation Instructions :

1. Install the sprinkler in the correct orientation. Concealed Pendent Sprinklers must be installed in the pendent position.
2. Apply only a non-hardening pipe joint compound or PTFE thread seal tape to the male threads of the sprinkler. Do not apply sealant to the female threads.
3. Hand-tighten the sprinkler into the fitting to ensure correct thread engagement.
4. Using the designated Sprinkler Wrench, tighten the sprinkler to form a leak-tight joint.
 - Recommended tightening torque: 7-14 ft-lb (9.5-19.0 N.m).
 - Do not exceed 21 ft-lb (28.6 N.m), as excessive torque may deform the spring seal, resulting in permanent damage or leakage.
5. For exposed pipework installations, ensure the sprinkler frame arms are aligned parallel to the branch pipe to achieve the correct installation orientation.

Concealed Cover Plate Installation :

- **Threaded :** After installing the Concealed Pendent Sprinkler, align the cover plate with the first thread of the sprinkler frame. Rotate the cover plate anti-clockwise until it is firmly seated and flush and parallel with the ceiling.

Warning

- All Sprinklers must be installed and maintained strictly in accordance with the instructions provided in this datasheet.
- Before installing, removing or adjusting any sprinkler, ensure that the piping system is fully depressurised and drained. Failure to follow this precaution may impair sprinkler performance and compromise the integrity of the fire protection system.
- It is the responsibility of the building owner or system operator to ensure that the fire protection system and all associated components are properly inspected, maintained and kept in reliable operating condition at all times.
- Do not paint the sprinkler cover. Painting the cover impairs fire response and system performance. Replace a painted cover immediately.

Caution

- Do not over-tighten or under-tighten the sprinkler to compensate for misaligned or incorrectly fitted escutcheon plates, as this may damage the sprinkler or impair its performance.
- Protective clips are fitted to safeguard the glass bulb during transportation and installation. These clips must remain in place until installation is complete to prevent accidental damage to the sprinkler.

Maintenance :

Sprinklers must never be modified after manufacture. Any alteration, including painting, plating, coating or other surface treatments, may impair sprinkler performance and could prevent correct operation in the event of a fire.

Any sprinkler exposed to corrosive conditions should be replaced if it cannot be thoroughly cleaned. A visual inspection is recommended immediately after installation, with a detailed inspection carried out at least once every year thereafter.

The inspection, testing and maintenance of the fire protection system are the responsibility of the building owner or system operator. Concealed Sprinkler systems should be maintained in accordance with all applicable local and national codes, standards and regulations.

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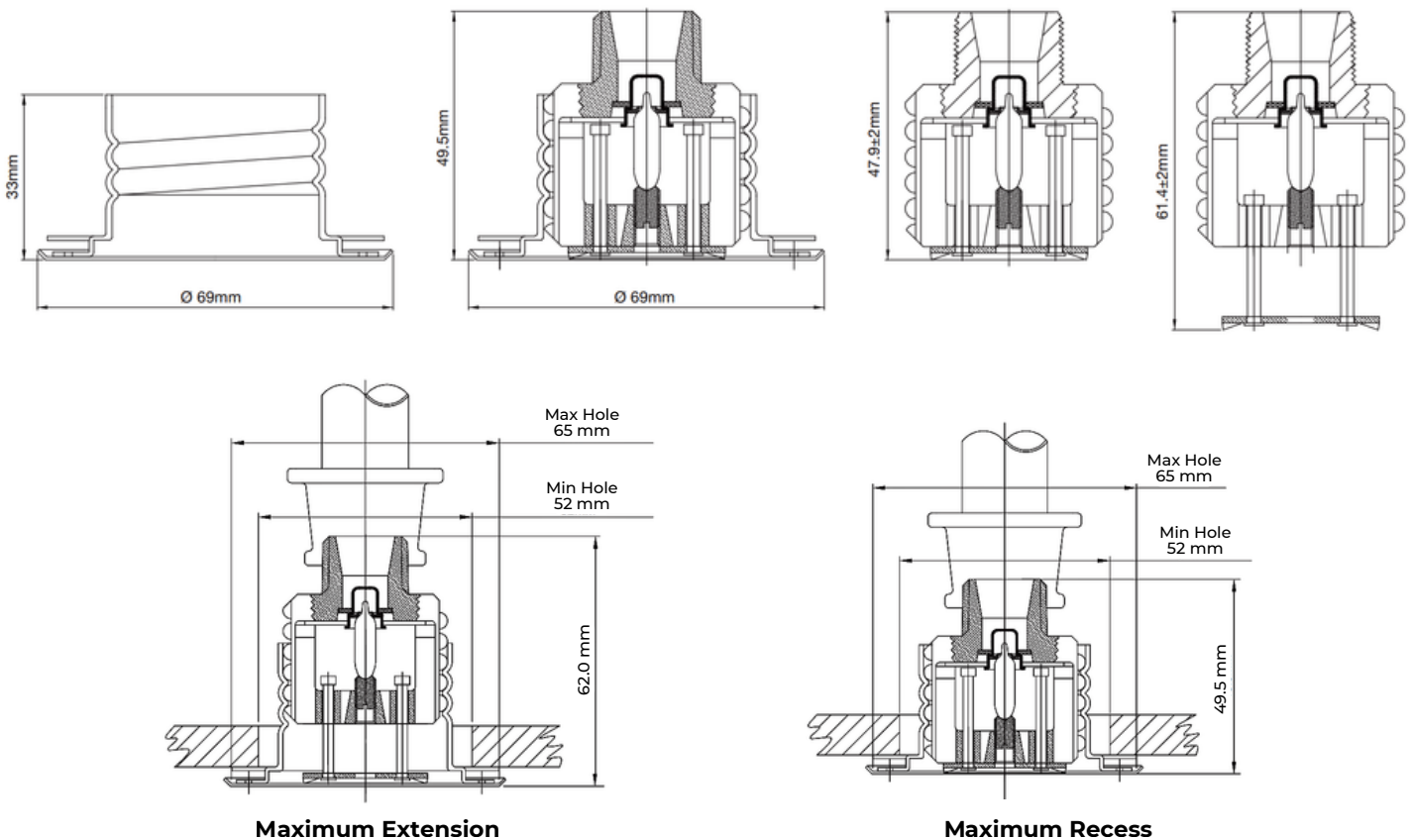
Key Description :

The Sprinkler Key is a specialised installation tool designed exclusively for use with Concealed Pendent Sprinklers. Engineered to provide the correct grip and leverage, it ensures safe, accurate installation while minimising the risk of slippage or damage to the sprinkler components. The use of non-approved or unsuitable tools is not recommended, as it may damage the sprinkler and compromise its performance and reliability.

**Key**

Operation :

The Concealed Pendent Sprinkler operates using a frangible glass bulb filled with a heat-sensitive liquid. Under normal conditions, the bulb retains the sealing assembly in place. When exposed to fire, the surrounding temperature rises, causing the liquid inside the bulb to expand. Once the sprinkler reaches its rated operating temperature, the glass bulb shatters, releasing the sealing assembly and allowing water to flow through the sprinkler. The water is then discharged against the precision-engineered deflector, producing an effective spray pattern designed to control and suppress the fire.



Dimensions and Installation Guideline (Threaded Cover Plate)

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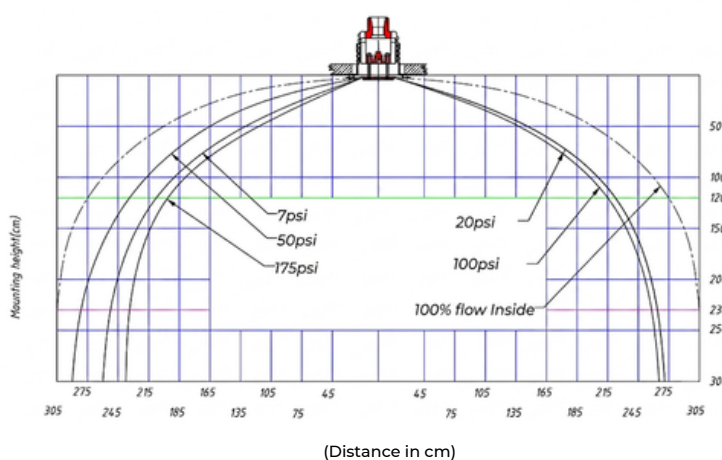
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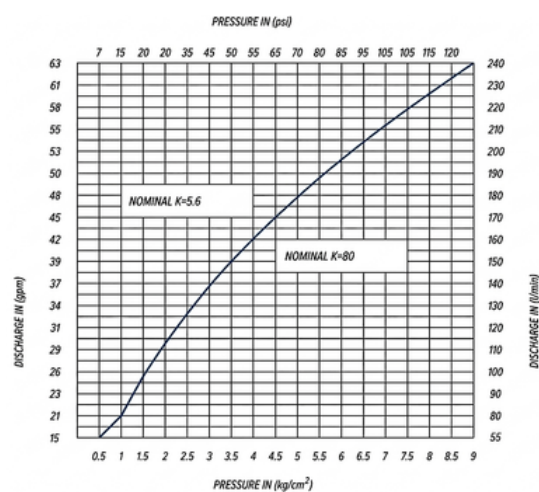
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Design Coverage :



Flow Characteristics :



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