



Data Sheet 4.52

Issue D



K115 (K8.0) Upright and Pendent Sprinklers

Models: RD052/ RD053/ RD054/ RD055

Standard and Quick Response 15mm (1/2" NPT)

Product Description

Rapidrop RD052/RD053 SSP and RD054/RD055 SSU are Standard/Quick Response frangible glass bulb automatic sprinklers. They are FM approved and UL listed, standard orifice fire sprinklers for installation in fire sprinkler systems. Sprinklers produce a hemispherical water distribution pattern below the deflector. In a fire condition the heat causes the fluid in the glass bulb to expand which shatters the glass and releases the spring seal assembly. Water flows from the orifice onto the sprinkler deflector which diffuses the water into a uniform spray pattern which extinguishes or controls the fire.



Standard Response

RD052 Pendent

RD054 Upright

Quick Response

RD053 Pendent

RD055 Upright

Operating Temperatures

| Nominal Operating Temperature | Bulb Colour |
|-------------------------------|-------------|
| 57°C (135°F) | Orange |
| 68°C (155°F) | Red |
| 79°C (175°F) | Yellow |
| 93°C (200°F) | Green |
| 141°C (286°F) | Blue |

Standard Finishes

Plain (Natural)

Chrome

White - Epoxy Powder Polyester

Other RAL colours, available on request.

Technical Details

| | |
|----------------------------|-------------------------------------------------------|
| K factor | K115 (K8.0) |
| Thread size | 1/2" NPT, R1/2 (1/2" BSPT) available on special order |
| Max. Working Pressure | 12 bar (175 psi) |
| Min. Operating Pressure | 0.5 bar (7psi) |
| Factory Pressure Test | 34 bar (500 psi) |
| Weight | 59 g (2.1 oz) |
| Fitted with Bulb Protector | Remove after installing sprinkler |

Accessories

Baffle plate

Sprinkler Guard

Sprinkler Wrench

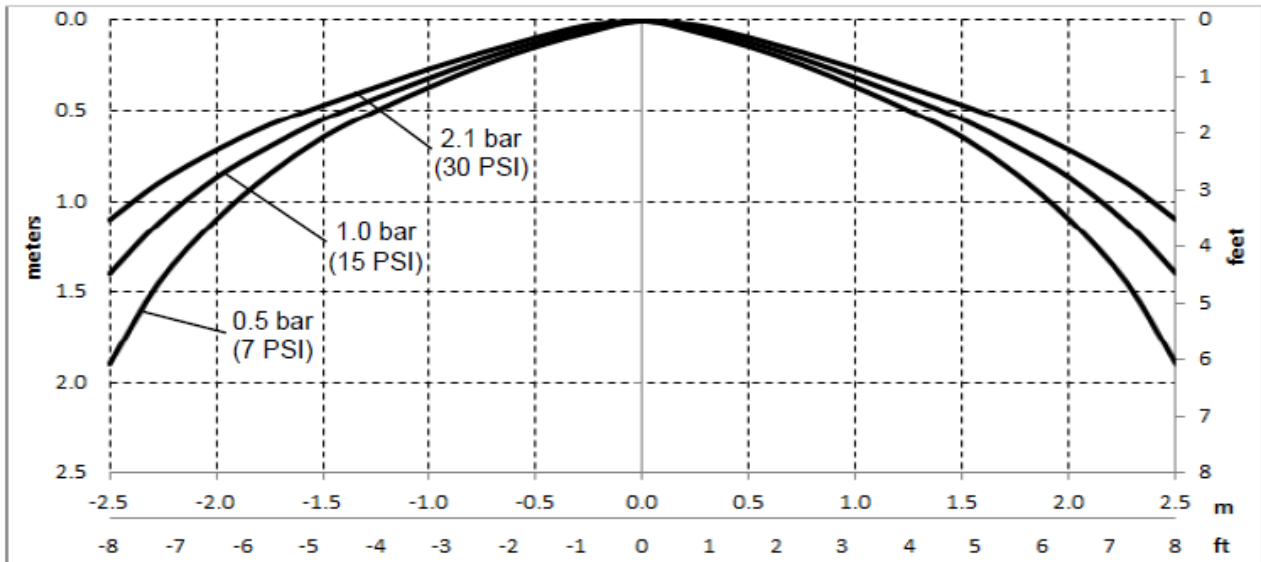
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Design Coverage

For sprinkler coverage area and placement refer to NFPA 13 standards or other Installation rules for automatic sprinkler systems as required by the authority having jurisdiction. The following details are provided for information only.

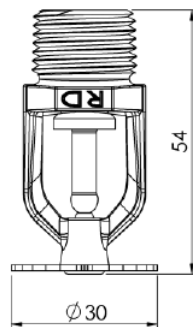


Rapidrop K115 (K8.0) Sprinkler Flow Characteristics

RD052, RD053

Spray Pendent Sprinkler

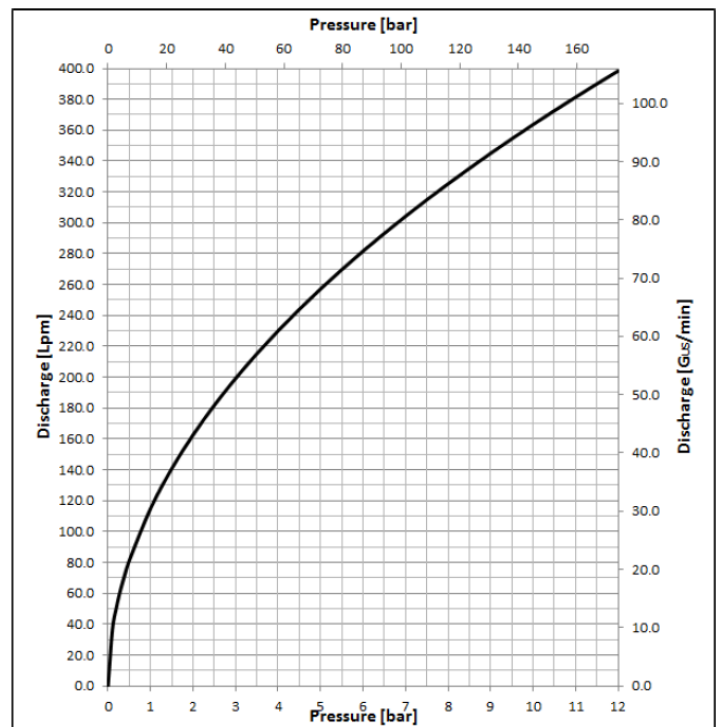
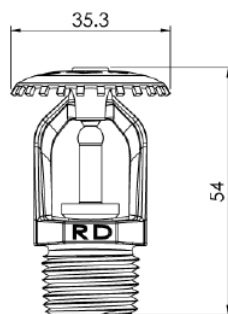
For installing only in pendent position giving hemispherical discharge below the deflector with little or no water being discharged upwards.



RD054, RD055

Spray Upright Sprinkler

For installing only in upright position giving hemispherical discharge below the deflector with little or no water being discharged upwards.





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Installation

1. All Rapidrop sprinklers must be installed and maintained in compliance with this document and according to the installation standards or local rules and requirements which are specified by the authority having jurisdiction. It is the installer's responsibility to conform to such standards and requirements, deviations from the requirements will void any warranty.
2. To ensure that the minimum flow requirement is met, the system piping must be correctly sized.
3. To avoid mechanical damage the sprinklers must be installed after the piping is in place. Any damaged sprinklers must be replaced. If there is a leak from the sprinkler thread, remove the sprinkler, apply new pipe joint compound or tape and re-install.
4. Always check that the sprinklers are the correct model, style, orifice size, temperature and sensitivity ratings prior to commencing installation.
5. Upright sprinklers must be mounted in upright position and Pendent sprinklers must be mounted in pendent position.
6. Use only non-hardening pipe joint compound or PTFE tape. Apply to external threads only.
7. Hand tighten the sprinkler into the fitting, then use the correct sprinkler wrench to tighten the sprinkler into the fitting. Ensure that the sprinkler wrench stays on the wrench flats while tightening the sprinkler. A leak tight joint requires only 10 to 19 Nm (7 to 14 ft.lbs.) torque. i.e. a tangential force of 6.35 to 12.7kgs. (14 to 28 lbs.) delivered through a 150mm (6") handle will deliver adequate torque. Torque levels over 29 Nm (21 ft.lbs.) may distort the orifice seal and result in a leakage.
8. Remove sprinkler bulb protector after the sprinkler is installed and before the system is put into service.

Care and Maintenance

Sprinklers must be carefully handled and stored where temperatures will not exceed 100°F/38°C and they must never be painted, plated, coated or otherwise modified after leaving the factory.

Do not install sprinklers which have been dropped or damaged in any way. The installation rules required by the authority having jurisdiction contain guidelines on minimum inspection and maintenance requirements to assist owners fulfilling their responsibility to ensure sprinklers and sprinkler systems are maintained in proper operating condition.

Warranty

Warranty period is one year from the date of shipment. For full details please refer to our terms and conditions of sale.

Ordering Information

Specify: model, orifice size, operating temperature, response type, finish and approval listing required.

Sprinkler Spanner



Always use Rapidrop sprinkler spanner for installing the sprinklers.
Part number: RDSPKSPANV2