



Balsamar[®]

CONTRA INCENDIS

RASIC -005004240

15 mm (1/2") Conventional, Pendent and Upright Sprinklers

Model: RD020/ RD021/ RD022/ RD023/ RD024/ RD025/ RD030/ RD031/ RD032
Standard/Special/Quick Response with 5mm/4mm/3mm Glass Bulb
K80 (5.6), 1/2" Pipe Thread

Product Description

RD020 / RD021/ RD030 Conventional, RD022 /RD023/RD031 Pendent and RD024/ RD025/ RD032 Upright are Standard / Quick Response frangible glass bulb automatic sprinklers. CE marked, VdS and LPCB approved. They are standard office fire sprinklers for installation in fire sprinkler systems designed in accordance with standard installation rules, e.g. EN12845 or the requirements of the authority having jurisdiction. Conventional sprinklers produce a spherical water discharge pattern and the Pendent / Upright 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 – RD020 ,RD022 & RD024

Nominal Operating Temperatures :	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

Special Response – RD030, RD031 & RD032

Nominal Operating Temperatures :	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

Quick Response – RD021, RD023 & RD025

Nominal Operating Temperatures :	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

Technical Details:

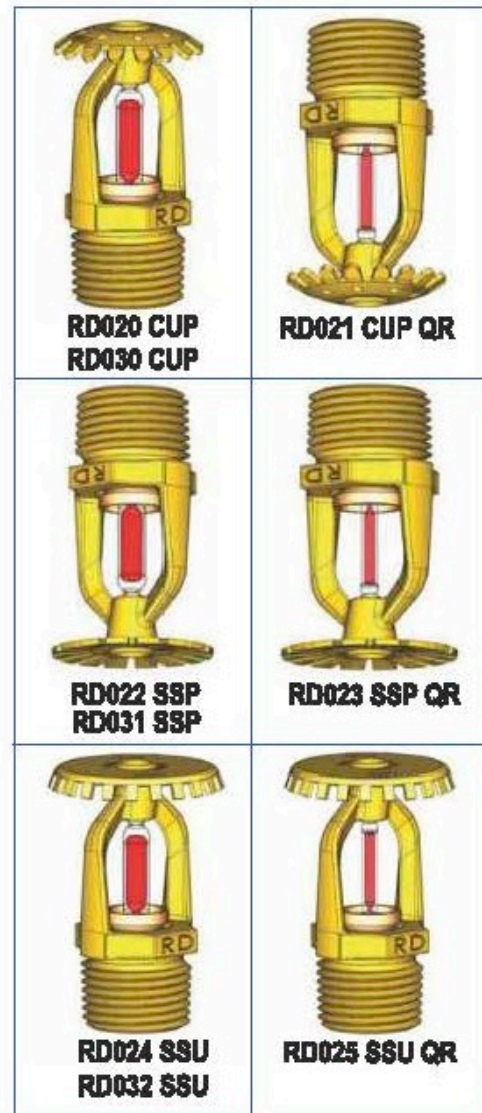
Standard Orifice Size: 15mm (1/2")
 K factor: 5.6 (80)
 Standard Thread Size: 1/2"NPT
 (R1/2 – 1/2"BSP T available on special order)
 Maximum Working Pressure: 12bar (175psi)
 Factory Pressure Test: 100% at 34bar (500psi)
 Weight: 57grams (2oz.)
 Fitted with bulb protector.
 (Remove after installing sprinkler)

Standard Finishes:

Plain (Natural)
 Chrome
 Epoxy Powder Polyester - White
 (Other RAL colours available on special request)

Accessories:

Single Piece Escutcheon (Rosette)
 Adjustable Escutcheon (Rosette)
 Sprinkler Guard
 Series 20 Sprinkler Wrench



*Bulb sizes shown for reference only



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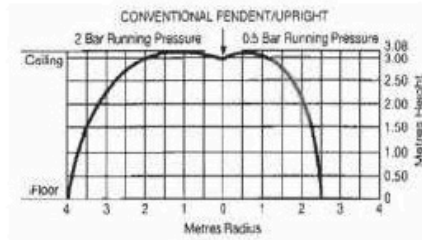
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Design Coverage:

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.

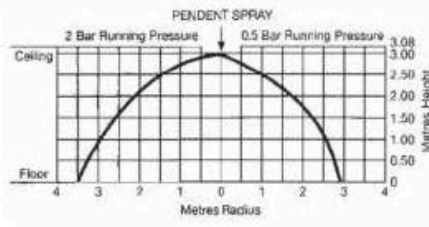
RD020, RD021 and RD030

Conventional for installing in pendent or upright position giving a spherical discharge with a proportion of water being thrown upwards towards the ceiling.



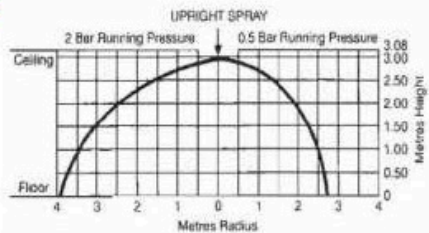
RD022, RD023 and RD031

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

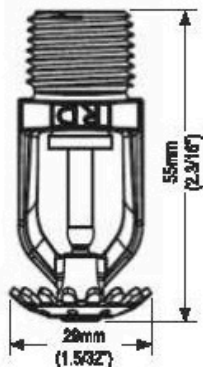
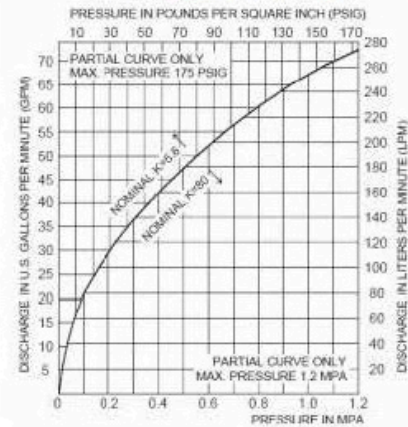


RD024, RD025 and RD032

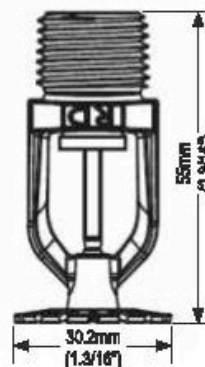
Spray Upright for installing only in upright position giving hemispherical discharge below the deflector with little or no water being discharged upwards.



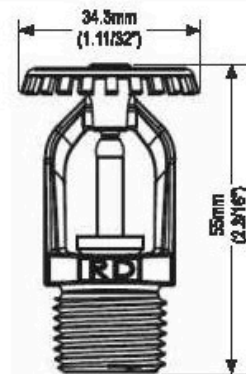
Minimum Operating Pressure = 7psig (0.5 Bars) Flow Characteristics



RD020, RD021 & RD030
CUP & QR CUP
Figure A



RD022, RD023 & RD031
SSP & QR SSP
Figure B



RD024, RD025 & RD032
SSU & QR SSU
Figure C

*Bulb sizes shown for reference only

BALSAMAR SERVICES 2000, S.L.

Francesc Layret 28-32 bajos 1, Pol. Ind. Pla d'en Boet 08302 Matarò – Barcelona

C.I.F- B17603457 Tel. 937-586.078

info@balsamar.com www.extintoresbalsamar.com





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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, EN 12845, 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 Pendant sprinklers must be mounted in pendent position.

6. Use only non-hardening pipe joint compound or 'Teflon' tape. Apply to external threads only.

7. Hand tighten the sprinkler into the fitting, then use the correct sprinkler wrench (Rapidrop Series 20 – See Figure D) 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 9.5 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 29Nm (21 ft.lbs.) may distort the orifice seal and result in leakage.

8. Remove sprinkler bulb protector before the sprinkler 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, style, temperature, response, finish and approval listing required. Always order and use a Series 20 Wrench for installing these sprinklers.

