



SD1020, SD1021

Sprinkler Systems



PRODUCT DESCRIPTION

The Model SD1020 and SD1021 (Glass Bulb Type) 3/8" Standard Orifice Pendent and Recessed Pendent Quick Response, Quick Response Upright. The Model A Pendent Sprinkler Identification Number SD1020(quick) Recessed Pendent. The Model A Upright Sprinkler Identification Number (SIN) SD1021(quick). The design incorporates state-of-the-art, heat responsive, frangible glass bulb design (standard or quick response) for prompt, precise operation. The die cast frame is more streamlined and attractive than traditional sand cast frames. It is cast with a hex-shaped wrench boss to allow easy tightening from many angles, reducing assembly effort. This sprinkler is available in various temperature ratings (see chart on page 2) and finishes to meet many design requirements. The recessed pendent should be utilized with a Model A recessed escutcheon which provides up 3/4" of adjustments. All Protector Sprinklers are manufactured using the time proven Belleville seal used exclusively by all major manufacturers to ensure long life and safe operation.



SD1020



SD1021

result, the waterway is cleared of all sealing parts and water is discharged towards the deflector. The deflector is designed to distribute the water in a pattern that is most effective in controlling the fire.

SPRINKLER OPERATION

The operating mechanism is a frangible glass bulb which contains a heat responsive liquid. During a fire, the ambient temperature rises causing the liquid in the bulb to expand.

When the ambient temperature reaches the rated temperature of the sprinkler, the bulb shatters. As a

MAXIMUM COVERAGE

Standard spray coverage is up to: Light Hazard = 225 square feet(20.9 sq.m); Ordinary Hazard = 130 square feet(12.1 sq.m)per NFPA 13. see page 4 for distribution patterns.

TECHNICAL SPECIFICATION

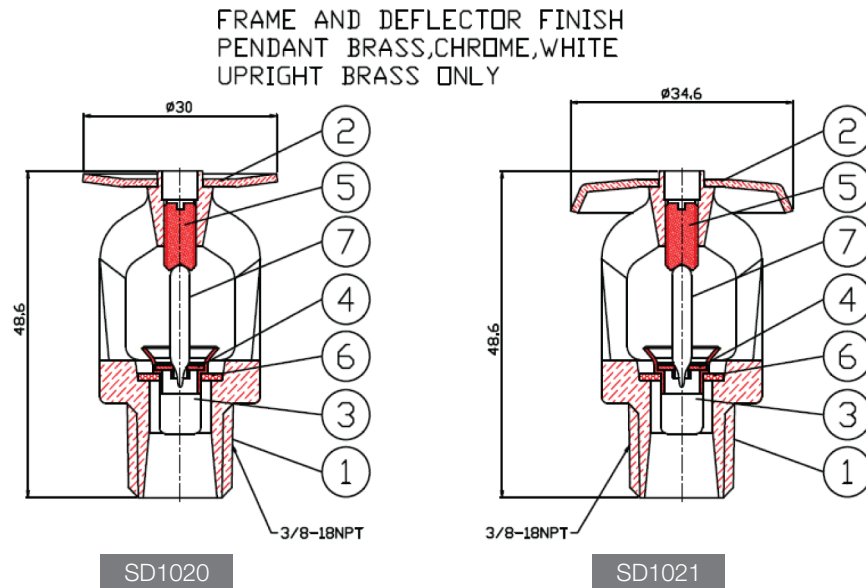
SIN	Quick Response SD1020, SD1021 (bulb 3mm)
Style	Pendent Sprinkler SD1020, Upright Sprinkler SD1021
K-Factor	4.2Imp.(60S.I)
Response Time Index(RTI)	Quick Response 30
Nominal Thread Size	3/8"NPT OR 3/8"PT
Max. Working Pressure	175PSI(1200kPa)
Factory Hydrostatic Test	100%@500PSI(3450 kPa)
Min. Operation Pressure	7 PSI(48 kPa)

RATINGS

Sprinkler Temperature Classification	Nominal Sprinkler Temperature Rating	N.F.P.A Maximum Ambient (Ceiling) Temp.(Allowed)	Glass Bulb Color
Ordinary	135°F/57°C	100°F/38°C	Orange
Ordinary	155°F/68°C	100°F/38°C	Red
Intermediate	175°F/79°C	150°F/65°C	Yellow
Intermediate	200°F/93°C	150°F/65°C	Green

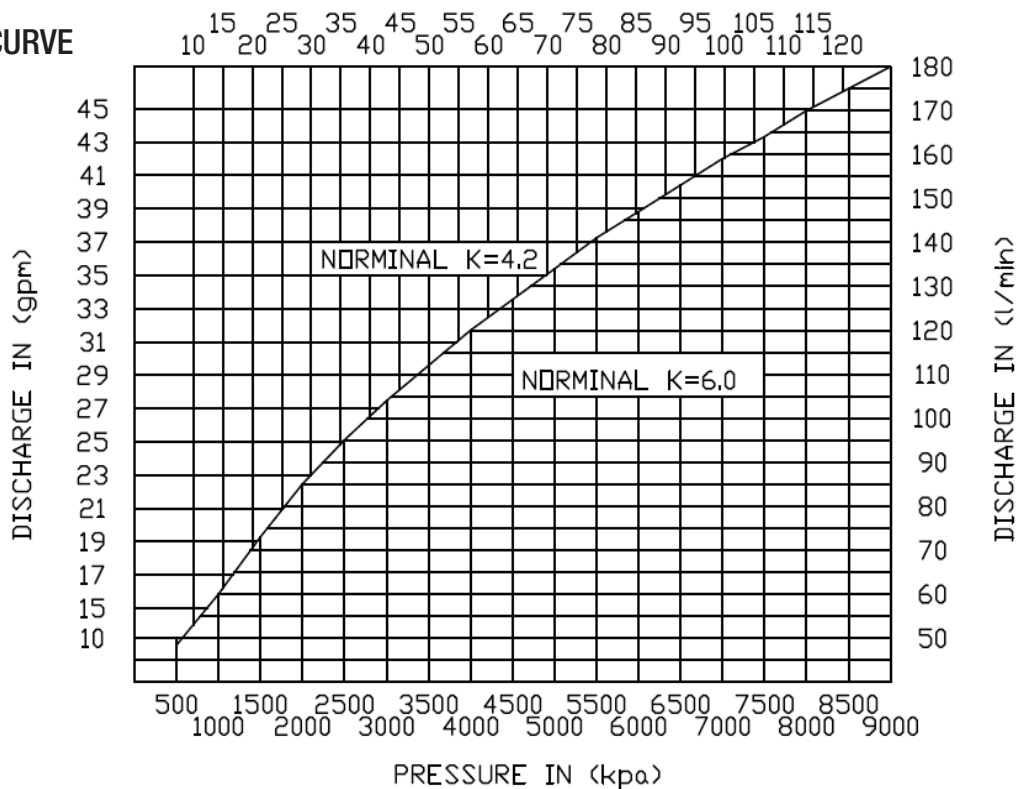
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DIMENSIONS



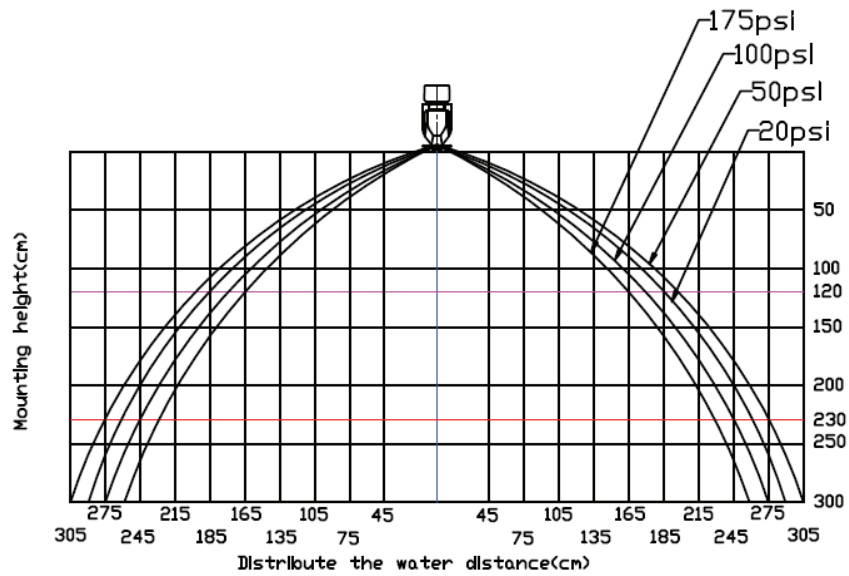
BULB	7	NORBULB N3
SEAL	6	BERY, NICKEL SPRING TEFLON TAPE
LOAD SCREW	5	ASTM C36000
QR CAP SEAT	4	ASTM S30400
CAP	3	ASTM C11000
DEFLECTOR	2	ASTM C22000
FRAME	1	ASTM C37700

DISCHARGE CURVE

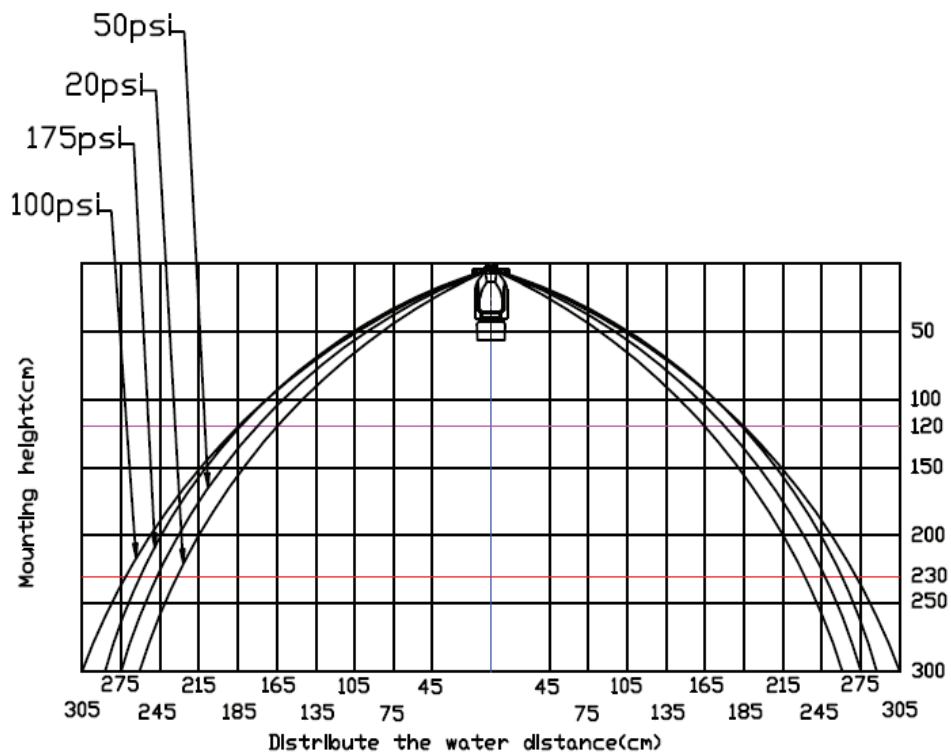


DISTRIBUTION PATTERNS

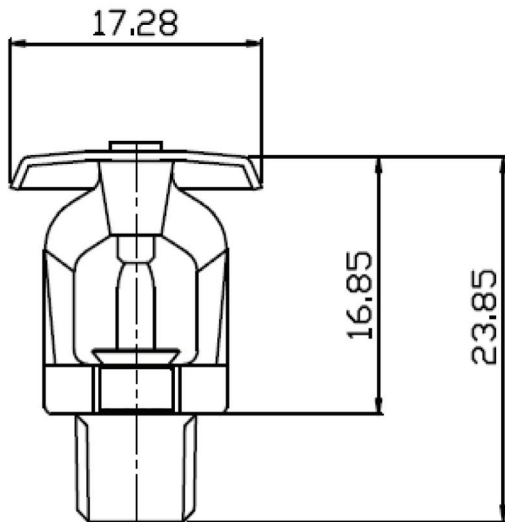
K5.6 PENDENT SPRINKLER DISTRIBUTION PATTERNS - TRAJECTORY



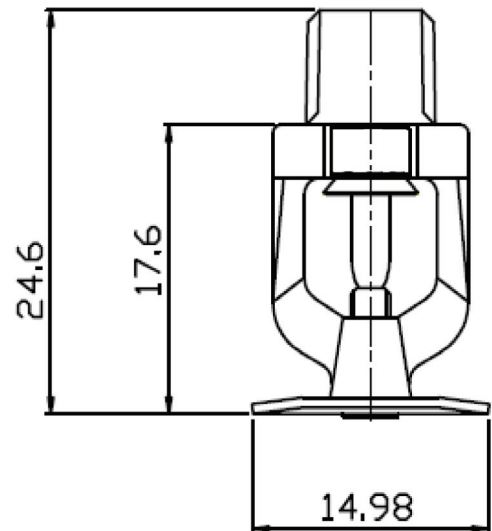
K5.6 UPRIGHT SPRINKLER DISTRIBUTION PATTERNS - TRAJECTORY



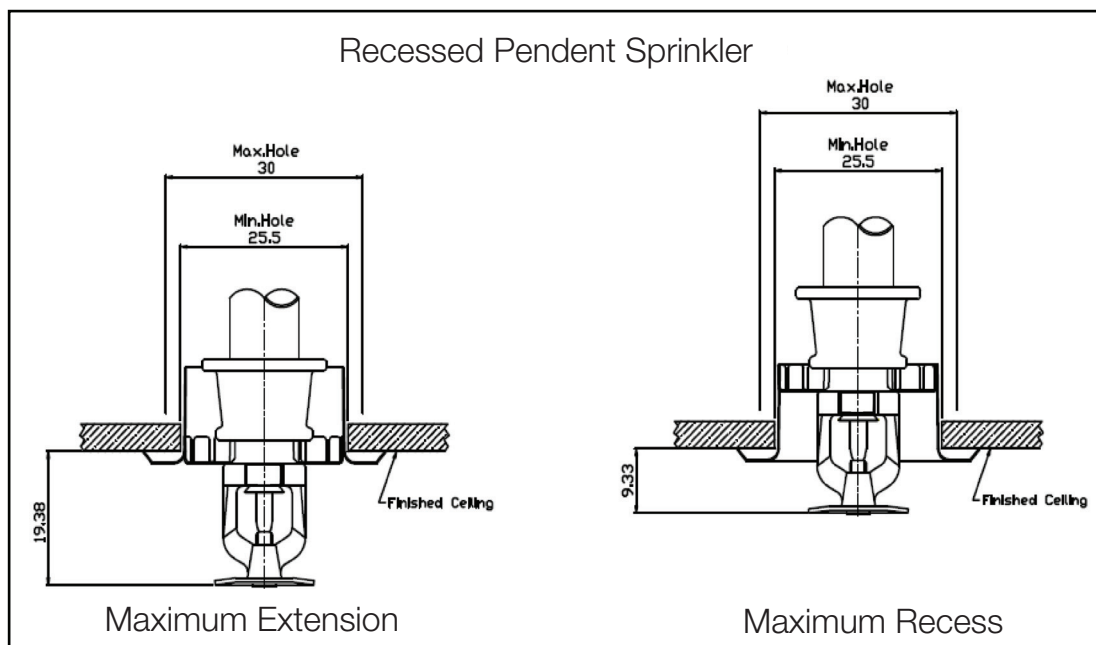
DIMENSIONS



Upright Sprinkler



Pendent Sprinkler



3/8" Adjustment

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We reserve the right to modify specifications without prior notice

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