STANDAR COVERAGE

Basic Sprinkler Quick Response Sprinkler Recessed Pendent, Pendent & Upright







DESCRIPTION:

AG-81QR, Pendent and Upright sprinklers described in this technical data sheet are quick response, standard coverage 3 mm glass bulb. These sprinklers are designed for use in commercial occupancies such as hotels, banks, shopping malls, and factories.

Thermosensitive glass bulb 3 mm is used. They have a capacity to react 6 times faster than standard response sprinklers. The bulb contains a special liquid hermetically sealed in a glass capsule.

TECHNICAL DATA:

Nominal "K" Factor	8,0 (115)		
Thread Size	· \ /		
Nominal Orifice diameter	17/32" (20 mm)		
Temperatures	135°F (57°C)		
	155°F (68°C)		
	175°F (79°C)		
	200°F (93°C)		
	286°F (141°C)		
Maximum/ Minimum Working Pressure	175 psi (12,1 bar) / 7 psi (0,48 bar)		
Materials	Frame: Brass		
	Deflector: CDA Alloy 260, 220 or		
	510 Load Screw / Pintle: CDA		
	Alloy 360 or 544Cup: CDA Alloy		
	651 or 693		
	Washer: Nickel Alloy 440 or 360, coated		
	with PTFEAdhesive Tape		
	Bulb: Glass, 3 mm		
Finish (4)	Bronze		
	Chrome		
	Polyester		

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OPERATION:

At normal temperatures, the glass bulb contains the fluid in both the liquid phase and the vapor phase. The vapor phase can be seen as a small bubble. As heat is applied, the liquid expands forcing the bubble smaller and smaller as the liquid pressure increases. Continued heating forces the liquid to push out against the bulb, causing to shatter, opening the waterway and allowing the deflector to distribute the discharging water.

INSTALLATION:

Model AG-81QR sprinkler are quick response sprinklers intended for installation as specified in NFPA13. They must also be installed with the Model AG1 Sprinkler Wrench for the pendent and upright models or AG1 Sprinkler Wrench for the recessed sprinkler.

A leak tight ½" NPT (R1/2) sprinkler joint can be obtained with a torque of 8-18ft-lbs (10.8- 24.4N-m). Do not tighten sprinklers over maximum recommended torque. It may cause leakage or impairment of these sprinklers.

The sprinklers come with an orange protection, to avoid breakage during assembly. Remove this protection once installed and made sure that everything is correct.

TEMPERATURE RATING:

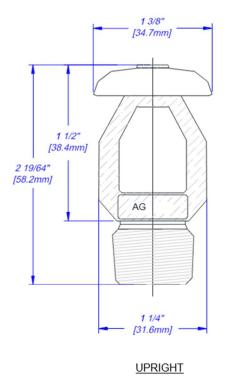
Classification	Sprinkler Temperature		Max. Ambient Temperature		Bulb
O Idoomodion	°F	°C	°F	°C	Color
Ordinary	13 5	57	10 0	38	Orange
Ordinary	15 5	68	10 0	38	Red
Intermediate	17 5	79	15 0	66	Yellow
Intermediate	20 0	93	15 0	66	Green
Hight (1)	28 6	141	22 5	107	Blue

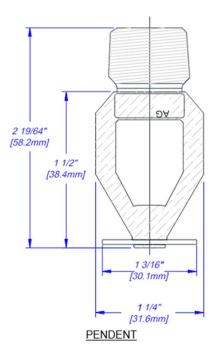
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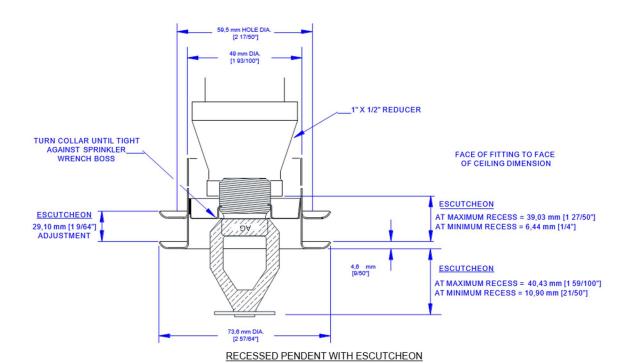




DIMENSIONS:







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