CONCEALED PENDENT SPRINKLER STANDARD & QUICK RESPONSE



TECHNICAL DATA

Style	Concealed Sprinkler			
Temperature Response	Standard Response with 5mm glass bulb, Quick Response with 3mm glass bulb			
Coverage	Standard Coverage			
K-Factor	5.6 US (80 metric)			
Nominal Thread Size	½" BSPT (NPT Optional)			
Max. Working Pressure	175 PSI (12 Bar)			
Factory Hydrostatic Test Pressure	500 PSI (35 Bar)			
Min. Operating Pressure	7 PSI (0.5 Bar)			
Finish	Sprinkler - Brass Cover Plate - White/ Chrome Plated			
Ordering Information	Style, Temp. Rating & Response, Thread type, Finish, Cover specification, Approval required - UL or UL & FM			
SIN Number	HD 104 Standard Response HD 204 Quick Response			

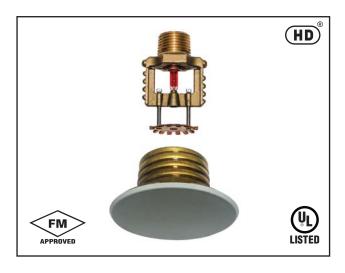
Note: Standard supply is with UL Listing only. If UL & FM approval is required, then please specify in your order with item code number as in Table 1, or contact our sales team.

Approvals

HD 104 Sprinklers are UL Listed and FM Approved as Standard Response with 5mm bulb.

HD 204 Sprinklers are UL Listed as Quick Response and FM Approved as Standard Response with 3mm bulb.

Factory Mutual (FM) does not approve concealed sprinklers under quick response category.



Response Type	Туре	Temp Rating Bulb/Cover Plate	Listing	
			Code No for UL	Code No for UL & FM
SR	CONCEALED	57°C / 57°C	T10138	-
		68°C / 57°C	T10103	T10103F
		79°C / 68°C	T10105	T10105F
		93°C / 68°C	T10140	T10140F
QR CC	CONCEALED	57°C (135°F)	-	-
		68°C / 57°C	T10100	T10100F
		79°C / 68°C	-	T10101F*
		93°C / 68°C	-	T10102F*

* Only FM

Table 1

DESCRIPTION

Pendent Concealed Sprinklers

HD Pendent Concealed Sprinklers are thermo-sensitive glass bulb sprinklers having decorative flat cover plate designed to conceal the sprinkler for smooth ceiling. The cover plates are available in several decorative finishes to match architectural requirements. The unique design allows installation and testing of the sprinkler prior to installation of the cover plate with cup. Sprinkler housing is threaded to fix cover plate with cup assembly to provide 12.7mm (1/2") vertical adjustment.

The cover plate and cup design allows installation of the sprinkler and pressure testing of the fire fighting system prior to installation of a suspended ceiling or final painting of the ceiling. The sprinkler cover assembly can be removed and reinstalled for removal of ceiling panels for access to building service equipments. HD Pendent Concealed Sprinklers are Standard Response (5mm glass bulb) or Quick response (3mm glass bulb) with standard coverage.



Sprinkler Operation

The Sprinkler operating device is state of the art heat responsive frangible glass bulb supplied by a world leader in this innovative technology. The glass bulb contains fluid which expands when exposed to heat.

When rated temperature is reached, the bulb shatters and water flows through the sprinkler and strikes deflector, forming an uniform water spray pattern to control or extinguish fire.

Care and Handling

Sprinklers must be handled with due care, they must be stored at ambient temprature for best results. Storage as well as any onward shipment is to be made in original packing only. Sprinklers must be visually inspected carefully before installation. Sprinklers visibly damaged, dropped or exposed to temperature in excess of the maximum ambient temperature permitted should never be installed. Never install any glass bulbs sprinkler if the bulb is cracked or if there is a loss of liquid from the Bulb.

Sprinkles must be installed after the piping is in place, to prevent mechanical damage.

Do not attempt to make-up for insufficient adjustment in the Escutcheon plate by over tightening the sprinkler.

Use Teflon tape or soft thread sealant on male thread of the sprinkler for leak tight sprinkler joint. Use proper wrench. Use appropriate torque. Excessive tightening torque may distort the sprinkler inlet and cause leakage. Sprinklers must never be painted, plated or coated after they leave factory.

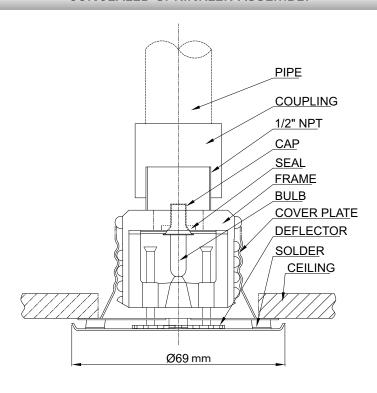
The HD sprinkler described herein must be installed and maintained in accordance with the latest edition of HD technical data, the latest standards of the National Fire Protection Association (NFPA) and Factory Mutual (FM) or to the standard of any other authorities having jurisdiction. The owner is solely responsible for maintaining their fire protection system and devices in proper operating condition.

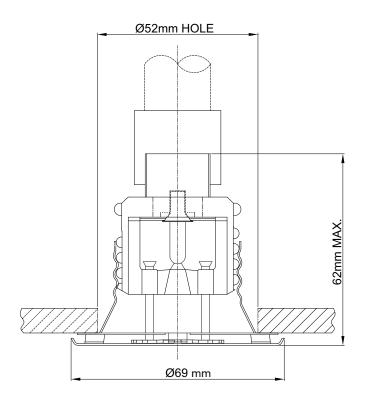
Inspection Testing and Maintenance

Refer to NFPA 25 for inspection testing and maintenance requirement or to the authority having jurisdiction. For detail of warranty refer HD'S current price list, conditions of sale or contact HD directly.



CONCEALED SPRINKLER ASSEMBLY







LIMITED WARRANTY

HD FIRE PROTECT PVT. LTD. hereby referred to as HD FIRE warrants to the original purchaser of the fire protection products manufactured by HD FIRE and to any other person to whom such equipment is transferred, that such products will be free from defect in material and workmanship under normal use and care, for two (2) years from the date of shipment by HD FIRE. Products or Components supplied or used by HD FIRE, but manufactured by others, are warranted only to the extent of the manufacturer's warranty. No warranty is given for product or components which have been subject to misuse, improper installation, corrosion, unauthorized repair, alteration or un-maintained. HD FIRE shall not be responsible for system design errors or improper installation or inaccurate or incomplete information supplied by buyer or buyer's representatives. HD FIRE will repair or replace defective material free of charge, which is returned to our factory, transportation charge prepaid, provided after our inspection the material is found to have been defective at the time of initial shipment from our works. HD FIRE shall not be liable for any incidental or consequential loss, damage or expense arising directly or indirectly from the use of the product including damages for injury to person, damages to property and penalties resulting from any products and components manufactured by HD FIRE. HD FIRE shall not be liable for any damages or labour charges or expense in making repair or adjustment to the product. HD FIRE shall not be liable for any damages or charges sustained in the adaptation or use of its engineering data & services. In no event shall HD Fire's product liability exceed an amount equal to the sale price. The foregoing warranty is exclusive and in lieu of all other warranties and representation whether expressed, implied, oral or written, including but not limited to, any implied warranties or merchantability or fitness for a particular purpose. All such other warranties and representations are hereby cancelled.

NOTICE

The equipment presented in this bulletin is to be installed in accordance with the latest publication standards of NFPA or other similar organisations and also with the provision of government codes or ordinances wherever applicable.

The information provided by us is to the best of our knowledge and belief, and consist of general guidelines only. Site handling and installation control is not in our scope. Hence we give no guarantee for result and take no liability for damages, loss or penalties whatsoever, resulting from our suggestion, information, recommendation or damages due to our product.

Product development is a continuous programme of HD FIRE PROTECT PVT. LTD. and hence the right to modify any specification without prior notice is reserved with the company.



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