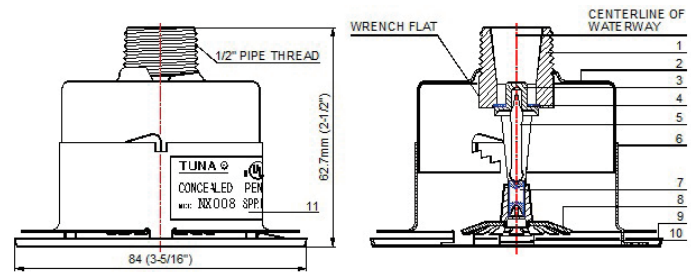




NV007

NV008



1. FRAME 2. MOUNTING CUP 3. BUTTON 4. SPRING SEAL 5. GLASS BULB 6. ENCLOSURE 7. SET SCREW 8. DEFLECTOR 9. COVER PLATE 10. EJECTION SPRING 11. LABEL

Figure A: Model NV007 /NV008 Concealed Pendent Sprinkler

General Description

The NV007/NV008 Standard/Quick Response Concealed Pendent Sprinklers (Ref: Figure A) are automatic sprinklers of the frangible bulb type. They are “standard/quick response – standard orifice spray sprinkler” intended for use in fire sprinkler systems designed in accordance with the standard installation rules recognized by the applicable Listing or Approval agency (e.g. UL Listing is based on NFPA 13 requirements). The Concealed Pendent Sprinklers all produce a hemispherical water distribution pattern below the deflector.

This model sprinkler includes a Cover Plate Assembly that conceals the sprinkler operating components above the ceiling. The Cover Plate Assembly, which installs onto the Sprinkler/Mounting Cup Assembly, consists of a Cover Plate that is soldered to an Enclosure at three equidistant locations around their peripheries. The Ejection Spring is located between the flange of the Enclosure and the Cover Plate, to ensure separation of the two pieces when the solder melts.

A Label located on the Cover Plate Assembly indicates the nominal temperature of the sprinkler and the nominal diameter of the Glass Bulb.

The small Cover Plate is flat with a low profile that blends in with the ceiling for an aesthetically pleasing appearance. Standard finishes for the Cover Plate are satin chrome plated and painted white. Other factory applied painted finishes for the Cover Plate is available on special order.

The separable two-piece design of the Cover Plate and Mounting Cup Assemblies allows installation of the sprinklers and pressure testing of the fire protection system prior to installation of a suspended ceiling or application of the finish coating to a fixed ceiling. The separable design also permits removal of suspended ceiling panels for access to building service equipment, without having to first shut down the fire protection system and remove sprinklers.

Also, the separable two-piece design of the NV007/NV008 Concealed Sprinkler provides for 1/6 inch (4.2mm) of vertical adjustment, to reduce the accuracy to which the length of fixed pipe drops to the sprinklers must be cut.

Features

- 1/2 inch Connection Thread
- K-5.6 (80)
- Standard & Quick Response
- 57°C, 68°C, 79°C, 93°C
- Concealed Pendent type Standard Spray
- UL Listed



■ Sprinkler Operation

During a fire condition, the sufficient ambient temperature will fuse the solder between the Cover Plate and the Enclosure. The Cover Plate will fall away from the Enclosure, to expose the Sprinkler for operation. Then the thermal-sensitive liquid in the Sprinkler's Glass Bulb expands, causing the Bulb to shatter, releasing the Button and Spring Seal Assembly. Water flowing through the sprinkler orifice strikes the Sprinkler Deflector, forming a uniform spray pattern to extinguish or control the fire.

■ Coverage

For coverage area and sprinkler placement, refer to NFPA13 standards.

■ Technical Specifications

Specifications *1	NV007	NV008
Style	Concealed Pendent	
Response & Bulb Nominal Dia.	Standard Response, Ø5mm	Quick Response, Ø3mm
Temp. Classification	Ordinary	Intermediate
Nominal Temp. Rating	135°F/ 57°C, 155°F/ 68°C, 175°F/ 79°C, 200°F/ 93°C	
Cover Plate Nominal Temp. Rating	135°F/ 57°C, 135°F/ 57°C, 155°F/ 68°C, 155°F/ 68°C	
Max. Ambient Temp. Allowed *2	115°F/ 46°, 135°F/ 57°C, 155°F/ 68°C, 180°F/ 82°C	
Max. Recommended Ambient Temp. *3	100°F/ 38°C, 100°F/ 38°C, 150°F/ 65°C, 150°F/ 65°C	
Glass Bulb Color *4	Orange, Red, Yellow, Green	
Thread Size	NPT 1/2	
Nominal Orifice Size	1/2 Inch	
Nominal K-Factor	5.6 (U.S.) / 80 (metric)	
Max. Working Pressure	175 psig / 1.2 MPa (12 bar)	
Factory Hydrostatic Test	100% @ 500 psig (3.4 Mpa)	
Min. Operating Pressure	7 psig / 0.048 MPa (0.48 bar)	
Sprinklers Finish	Brass Chrome Plated	
Listings and Approvals	UL (United States)	

Footnotes:

1 Sprinkler I.D. Nos and nominal U.S. K-factors provided in accordance with the 2002 edition of NFPA 13.

2 Based on National Fire Prevention and Control Administration Contract No. 7-34860

3 Based on NFPA 13. Other limits may apply depending on fire loading, sprinkler location and other requirements of the Authority Having Jurisdiction. Refer to specific installation standards

4 The temperature rating is stamped on the deflector or adjacent to orifice seat on frame.

5 This table shows the listings and approvals available at the time of printing. Check with the manufacturer for any additional approvals

6 UL and ULC Listed for both Light-Hazard and Ordinary-Hazard occupancies.

All specifications are subject to change without any notice.
For more information, contact with NITTAN.

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