



NV003 NV004 NV005 NV006

■ Features

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

■ General Description

The NV003/NV004 Standard/Quick Response Upright and NV005/NV006 Standard/Quick Response Pendent Sprinklers (Ref. Figure A) are automatic sprinklers of the frangible bulb type. They are “standard/quick response – standard orifice spray sprinklers” 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 Upright, Pendent Sprinklers all produce a hemispherical water distribution pattern below the deflector.

■ Sprinkler Operation

During a fire condition, the thermal-sensitive liquid in the 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.

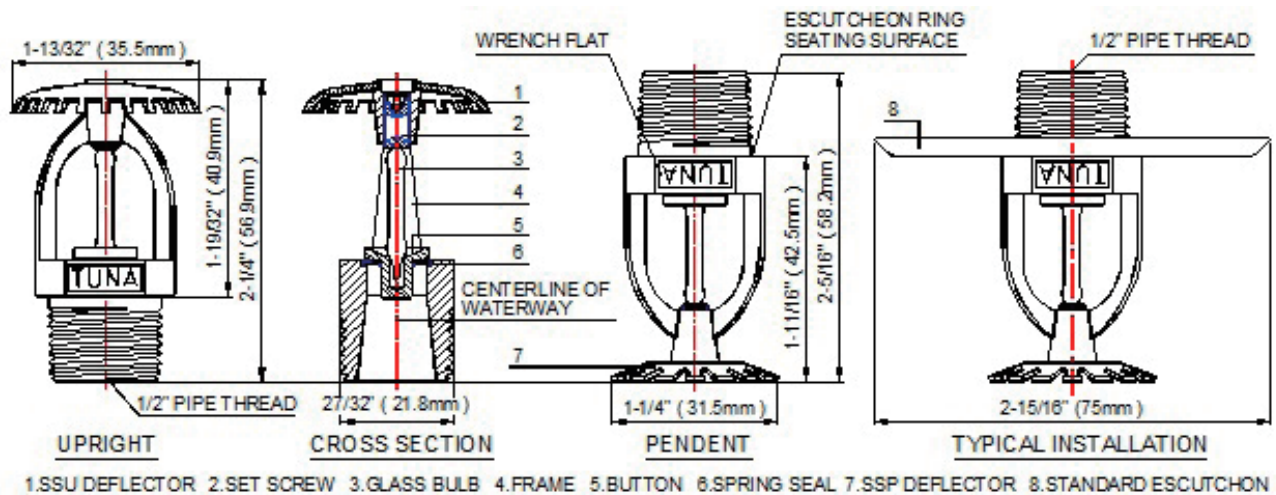


FIGURE A : MODEL NV003/NV004 UPRIGHT & NV005/NV006 PENDENT SPRINKLERS



■ Technical Specifications

Specifications *1	NV003	NV004	NV005	NV006
Style	Upright		Pendent	
Response & Bulb Nominal Dia.	Standard Re- sponse, Ø5mm	Quick Re- sponse, Ø3mm	Standard Re- sponse, Ø5mm	Quick Re- sponse, Ø3mm
Temp. Classification	Ordinary	Ordinary	Intermediate	Intermediate
Nominal Temp. Rating	135°F/ 57°C,	155°F/ 68°C,	175°F/ 79°C,	200°F/ 93°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.

■ Sprinkler Materials

Parts	Description
Frame	Bronze Forging UNS-C87400
Deflector	Brass UNS-28000
Glass Bulb	Glass with Glycerin Solution, JOB® G5 for NV003/NV005 JOB® F3 for NV004/NV006
Set Screw	Brass UNS-28000
Button	Brass UNS-28000
Spring	Stainless Steel
Seal	Teflon® Tape
Standard Escutch.	Cold Rolled Steel

■ Accessories

Parts	Description
Installation Wrench	Style T-1

■ Discharge Coefficient

Model NV003/NV004 Upright and Model NV005/ NV006 Pendent Sprinklers are rated for use at a maximum service pressure of 175 psig (12 bar).

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

NITTAN

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