

# SPECFLEX™ SHP PERFORMANCE SPRINKLER DROPS



Figure 22



NFP22XXX

### FEATURES

- Available lengths: 31", 36", 48", 60" and 72"
- Outlet sizes: 1/2" and 3/4"
- Includes pre-installation positioning and identification sleeve
- Max ambient temperature rating: 300° F
- Max working pressure rating: 300 psi (UL), 225 psi (FM)
- Minimum bend radius\*: UL - 2.5" / FM - 6.5"
- Connection: Inlet - 1" MNPT
- Hose Diameter: I.D. = 1.14" (29mm) O.D. = 1.38" (35mm)

### TECHNICAL DATA

- Hose type: Braided
- Hose: Stainless steel 304
- Nut and nipple: Zinc-plated steel
- Sealing gasket: EPDM
- Press ring (inner and outer): Stainless steel 304
- Isolation ring: Nylon

### INSTALLATION

- Please refer to NFP Specflex Installation Manuals for proper installation guidelines

\*DO NOT bend within 2.5" from connection nuts.

### STANDARDS

#### National Fire Protection Association (NFPA)

- NFPA 13: Standard for the installation of sprinkler systems
- NFPA 13D: Standard for the installation of sprinkler systems in one- and two-family dwellings and manufactured homes
- NFPA 13R: Standard for installation of sprinkler systems in residential occupancies up to and including four stories in height
- NFPA 13 Section 9.2.1.3.3.3: No hangers are required for flexible connections as long as the length does not exceed 6ft

#### American Society for Testing and Methods (ASTM)

- ASTM C635: Standard specifications for the manufacture, performance and testing of metal suspension systems for acoustical tile and lay-in panel ceilings
- ASTM C636: Standard practice for installation of metal ceiling suspension systems for acoustical tile and lay-in panels

#### Factory Mutual (FM), FM Class No, 1637

- Approved standard for flexible sprinkler hose with threaded end fittings

#### Underwriter's Laboratories, Inc. (UL), UL 2443

- Standard for flexible sprinkler hose with fittings for fire protection service

#### International Building Code (IBC) Section 1621/American Society of Civil Engineers (ASCE) 7 9.6.2.6.2 & 9.6.2.6.2.2

- Flexible sprinkler connections are the alternative solution to install without seismic escutcheons (oops ring)

### SH HOSE BRACKET APPROVALS

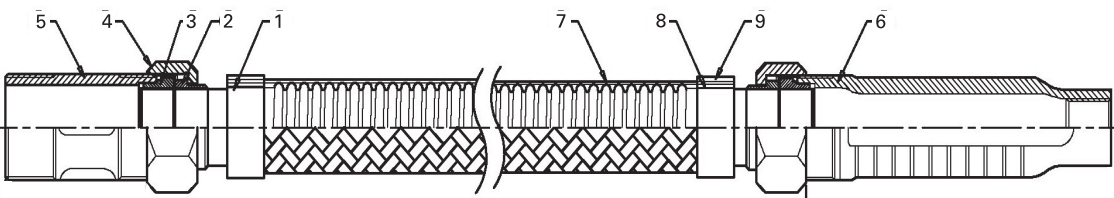
BRACKET	APPROVED BRACKET ASSEMBLY
NFP240124	FM, UL
NFP240724	FM, UL
NFP240624	FM, UL
NFP240148	FM
NFP2403	FM
NFP240424	FM

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Figure 22

## BRAIDED FLEXIBLE HOSE



- 1. Tube
- 2. Isolation ring
- 3. Sealing gasket
- 4. Nut
- 5. Nipple (1")
- 6. Reducer
- 7. Braid
- 8. Press ring (inner)
- 9. Press ring (outer)

## FRICTION LOSS DATA

LENGTH (IN.)	MAX NUMBER OF 90° BENDS		OUTLET CONNECTION	K-FACTOR	EQUIVALENT LENGTH OF 1" SCHEDULE 40 PIPE (FT)	
	UL	FM			UL	FM
31"	2	1	1/2"	5.6	9.0	3.5
				8.0		4.4
			3/4"	8.0	16.0	5.0
				14.0		5.1
36"	5	2	1/2"	5.6	12.0	4.5
				8.0		5.1
			3/4"	8.0	22.0	6.0
				14.0		6.0
48"	6	3	1/2"	5.6	19.0	6.9
				8.0		6.6
			3/4"	8.0	34.0	8.4
				14.0		8.3
60"	10	4	1/2"	5.6	26.0	9.4
				8.0		8.1
			3/4"	8.0	40.0	10.9
				14.0		10.6
72"	12	4	1/2"	5.6	37.0	11.9
				8.0		9.7
			3/4"	8.0	46.0	13.4
				14.0		12.9

\*UL: 2.5" minimum bend radius, where C=120

\*FM: 6.5" minimum bend radius, where C=120

## ORDERING CODE MATRIX

