NAFFCO - SPRINKLER HEAD

UPRIGHT, PENDENT & RECESSED PENDENT SPRINKLERS

MODEL: NF3010, NF3015, NF3030, NF3032

DESCRIPTION

The NAFFCO Sprinklers, NF3010, NF3015, NF3030, NF3032 (Glass Bulb Type), Standard Orifice, Upright, Pendent and Recessed Pendent type, design incorporates state-of-the-art, heat responsive, frangible glass bulb design (standard or quick response) for prompt, precise operation.

The die cast frame is more streamlined and attractive than traditional sand cast frames. It is cast with a hex-shaped wrench boss to allow easy tightening from many angles, reducing assembly effort. This sprinkler is available in various temperature ratings and finishes to meet many design requirements. The recessed pendent should be utilized with a recessed escutcheon which provides up ¾" of adjustments. All Sprinklers are manufactured using the time proven Belleville seal used exclusively by all major manufactures to ensure long life and safe operation.

SPRINKLER OPERATION

The operating mechanism is a frangible glass bulb which contains a heat responsive liquid. During a fire, the ambient temperature rises causing the liquid in the bulb to expand. When the ambient temperature reaches the rated temperature of the sprinkler, the bulb shatters. As a result, the waterway is cleared of all sealing parts and water is discharged towards the deflector. The deflector is designed to distribute the water in a pattern that is most effective in controlling the fire.

MAXIMUM COVERAGE

Standard spray coverage is up to: Light Hazard = 225 square feet(20.9 sq.m); Ordinary Hazard = 130 square feet(12.1 sq.m) per NFPA 13.

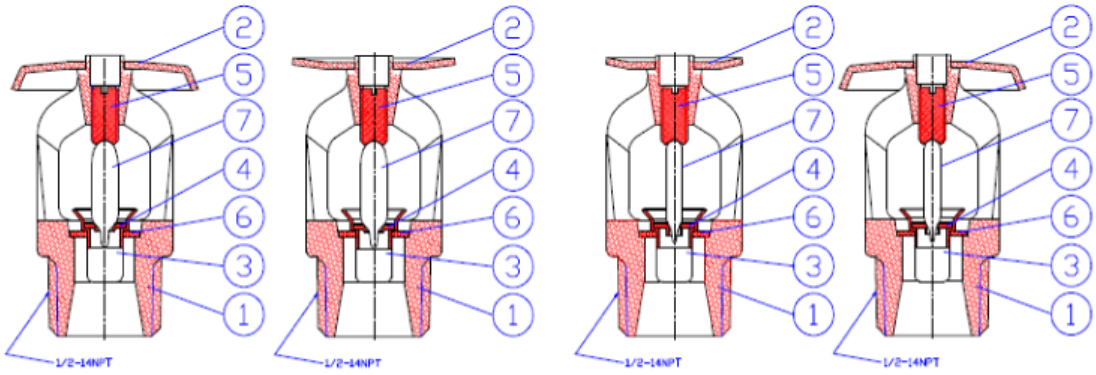
TECHNICAL SPECIFICATION

Sprinkler Identification Number	Standard NF3010, NF3015 (bulb 5mm), Quick Response NF3030, NF3032 (bulb 3mm)
Style	Upright Sprinkler NF3015, NF3032, Pendent & Recessed Pendent NF3010, NF3030
K Factor	5.6Imp.(80S.I)
Response Time Index (RTI)	Standard 50 Quick Response 30
Nominal Thread Size	½"NPT(15mm)
Max. Working Pressure	175PSI(1200kPa)
Factory Hydrostatic Test	100%@500PSI(3450 kPa)
Min. Operation Pressure	7 PSI(48 kPa)

RATINGS

Sprinkler Temperature Classification	Norminal Sprinkler Temperature Rating	N.F.P.A Maximum Ambient (Ceiling) Temp.(Allowed)	Glass Bulb Color
Ordinary	155°F/68°C	100°F/38°C	Red
Intermediate	175°F/79°C	150°F/65°C	Yellow
Intermediate	200°F/93°C	150°F/65°C	Green

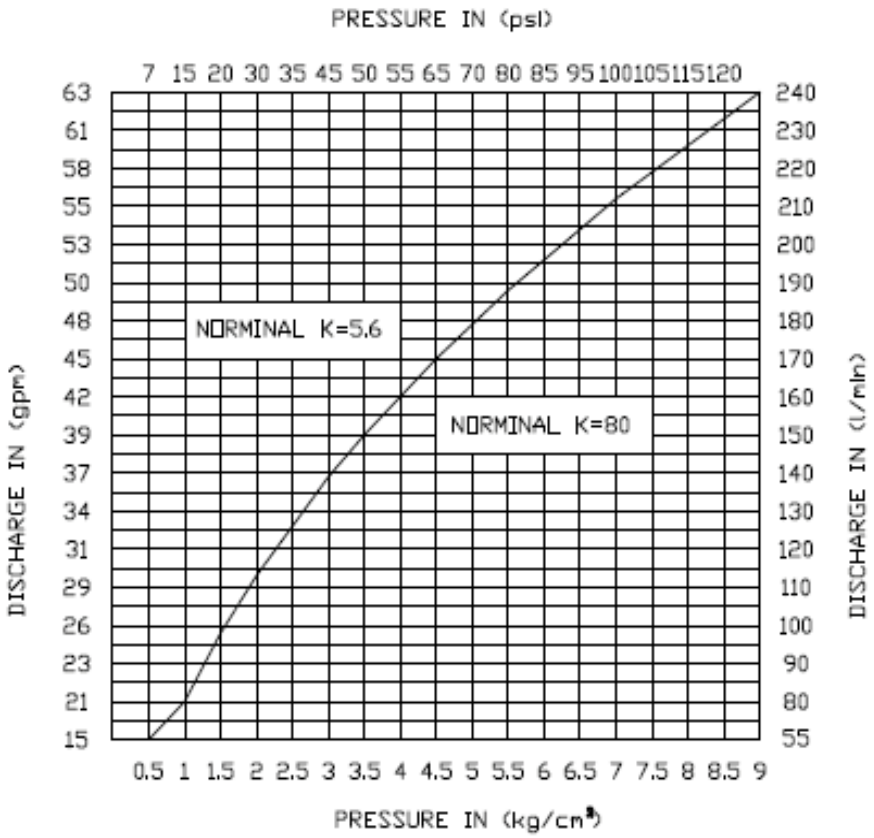
PART LIST



NF3010 **NF3015** **NF3030** **NF3032**

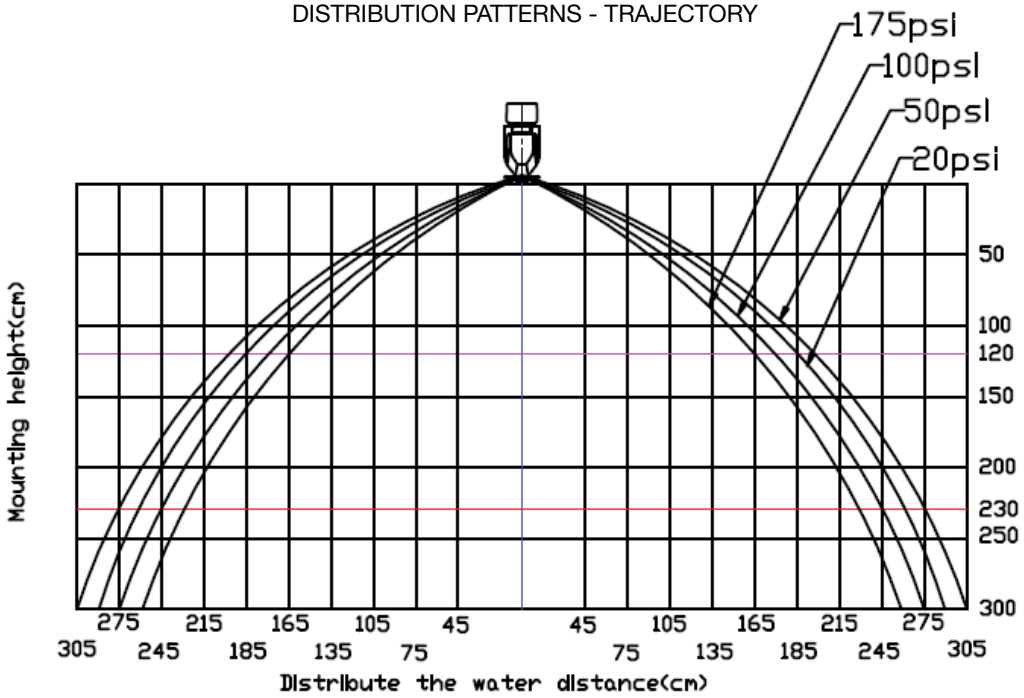
1. Frame 2. Deflector 3. Cap 4. Cap Seat 5. Load Screw 6. Seal 7. Bulb

DISCHARGE CURVE

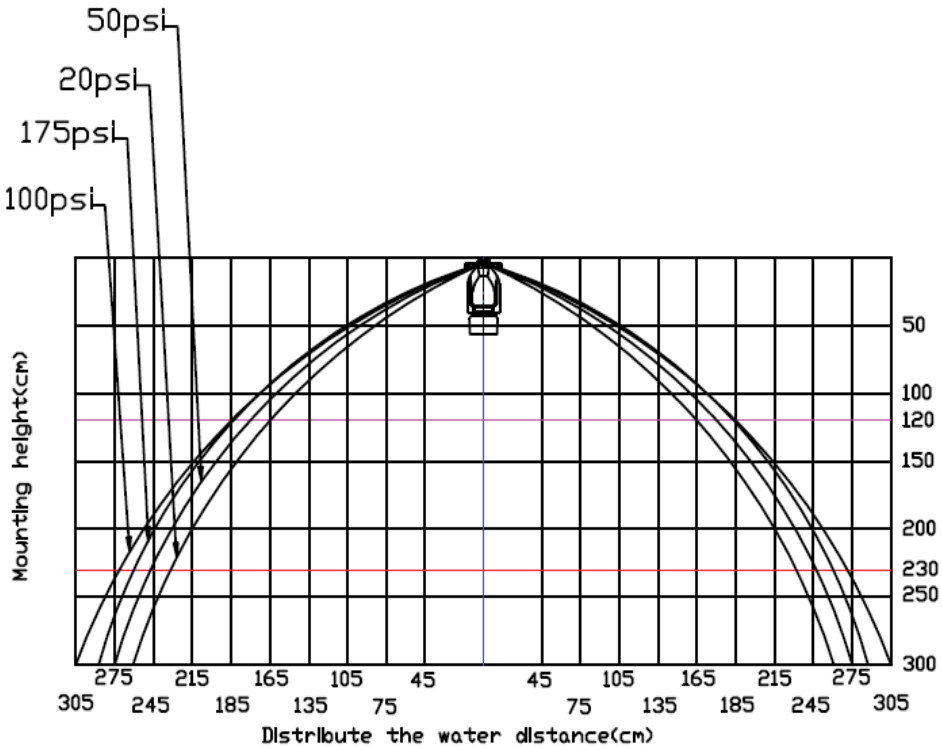


DISTRIBUTION PATTERNS

K5.6 PENDENT SPRINKLER
DISTRIBUTION PATTERNS - TRAJECTORY

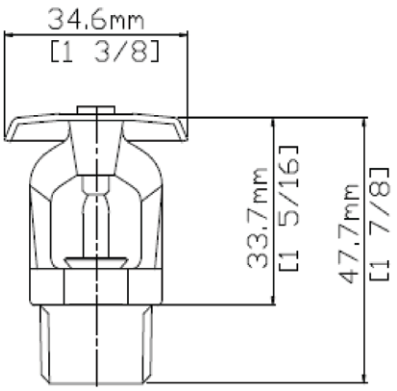


K5.6 UPRIGHT SPRINKLER
DISTRIBUTION PATTERNS - TRAJECTORY

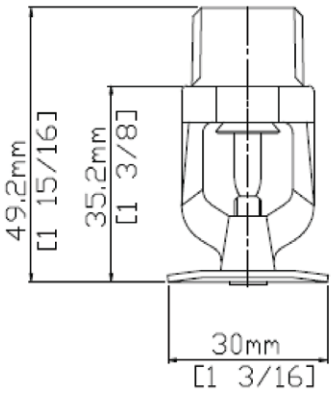


DIMENSIONS

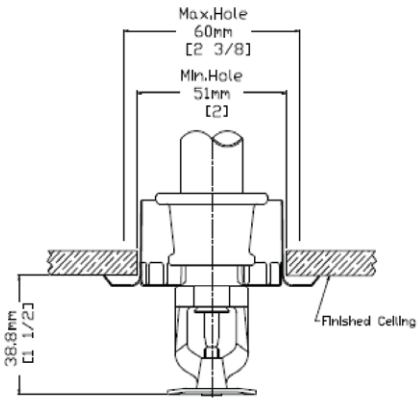
UPRIGHT SPRINKLER



PENDENT SPRINKLER



RECESSED PENDENT SPRINKLER



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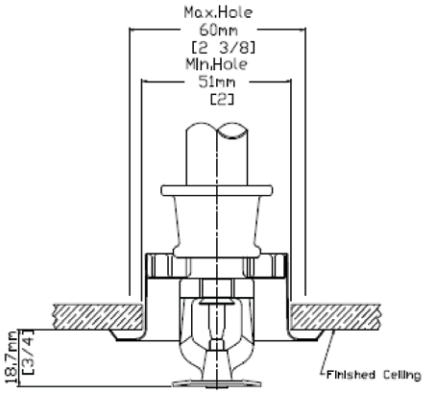
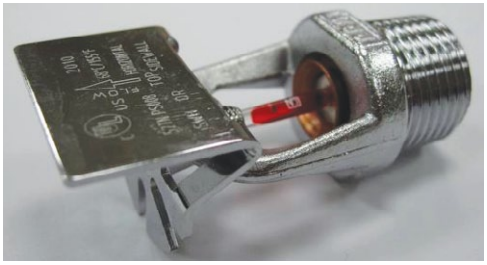
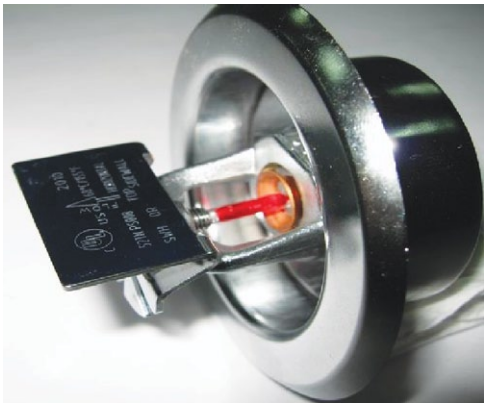


Maximum Recess

MODEL: NF3320, NF3332





DESCRIPTION

The NF3320, NF3332, ½" orifice, standard horizontal sidewall sprinkler is designed for standard or recessed installation. The design provides a crescent-shaped water discharge pattern for installation along a wall or under a beam or ceiling. The design incorporates state-of-the-art, heat responsive, frangible glass bulb design (standard or quick response) for prompt, precise operation. The die cast frame is more streamlined and attractive than traditional sand cast frames.

It is cast with a hex-shaped wrench boss to allow easy tightening from many angles, reducing assembly effort. This sprinkler is available in various temperature ratings and finishes to meet many design requirements. The recessed pendent should be utilized with a recessed escutcheon which provides up ¾" of adjustments.

SPRINKLER OPERATION

The operating mechanism is a frangible glass bulb which contains a heat responsive liquid. During a fire, the ambient temperature rises causing the liquid in the bulb to expand.

When the ambient temperature reaches the rated temperature of the sprinkler, the bulb shatters. As a result, the waterway is cleared of all sealing parts and water is discharged towards the deflector. The deflector is designed to distribute the water in a pattern that is most effective in controlling the fire.

MAXIMUM COVERAGE

Standard spray coverage is up to: Light Hazard = 196 square feet(18,2 sq.m); Ordinary Hazard = 100 square feet(9,3 sq.m)per NFPA 13.

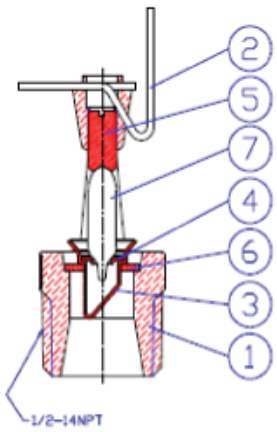
TECHNICAL SPECIFICATION

Sprinkler Identification Number	Standard NF3320(bulb 5mm), Quick Response NF3332 (bulb 3mm)
Style	Horizontal Sidewall
K Factor	5.6Imp.(80S.I)
Response Time Index (RTI)	Standard 50 Quick Response 30
Nominal Thread Size	½"NPT(15mm)
Max. Working Pressure	175PSI(1200kPa)
Factory Hydrostatic Test	100%@500PSI(3450 kPa)
Min. Operation Pressure	7 PSI(48 kPa)

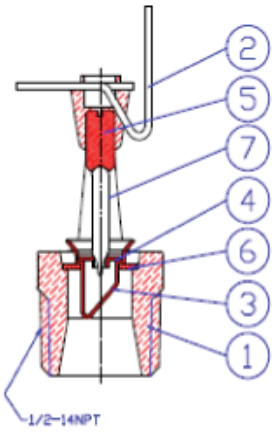
RATINGS

Sprinkler Temperature Classification	Norminal Sprinkler Temperature Rating	N.F.P.A Maximum Ambient (Ceiling) Temp.(Allowed)	Glass Bulb Color
Ordinary	155°F/68°C	100°F/38°C	Red
Intermediate	200°F/93°C	150°F/65°C	Green

PART LIST



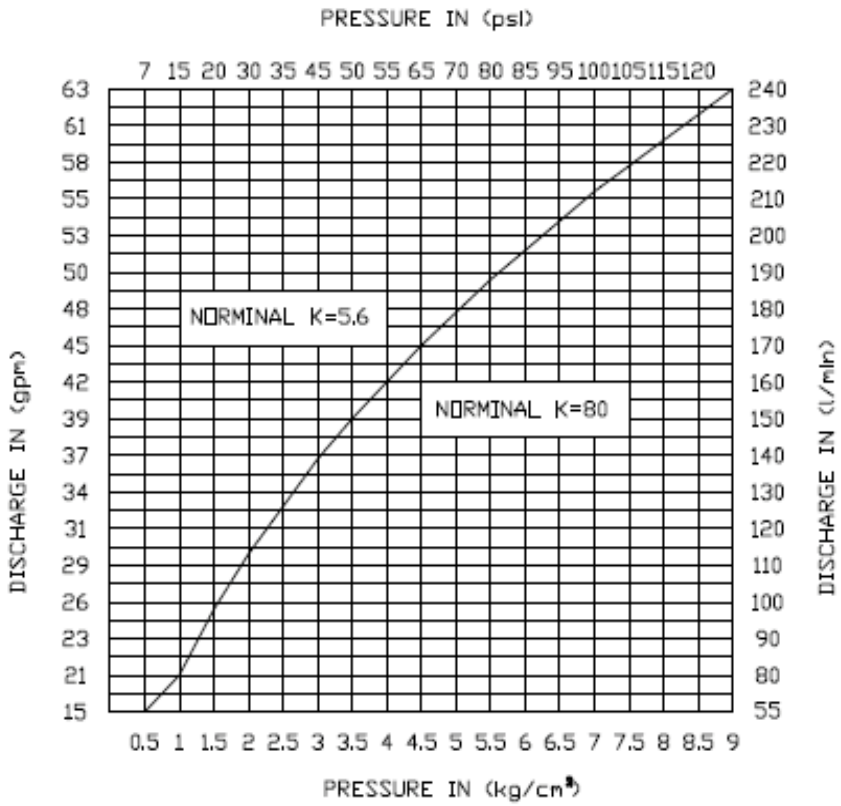
NF3320



NF3332

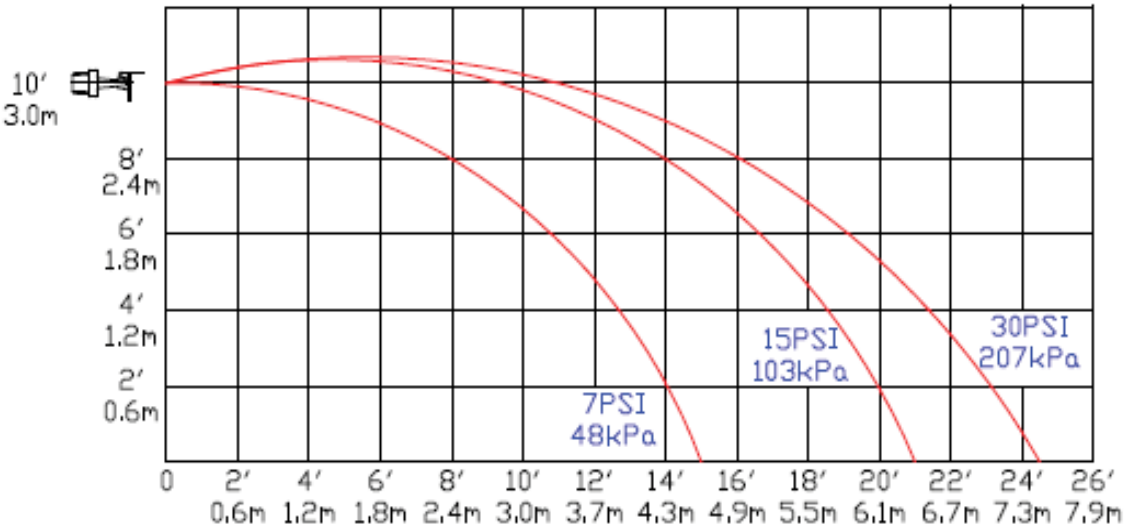
1. Frame 2. Deflector 3. Cap 4. Cap Seat 5. Load Screw 6. Seal 7. Bulb

DISCHARGE CURVE

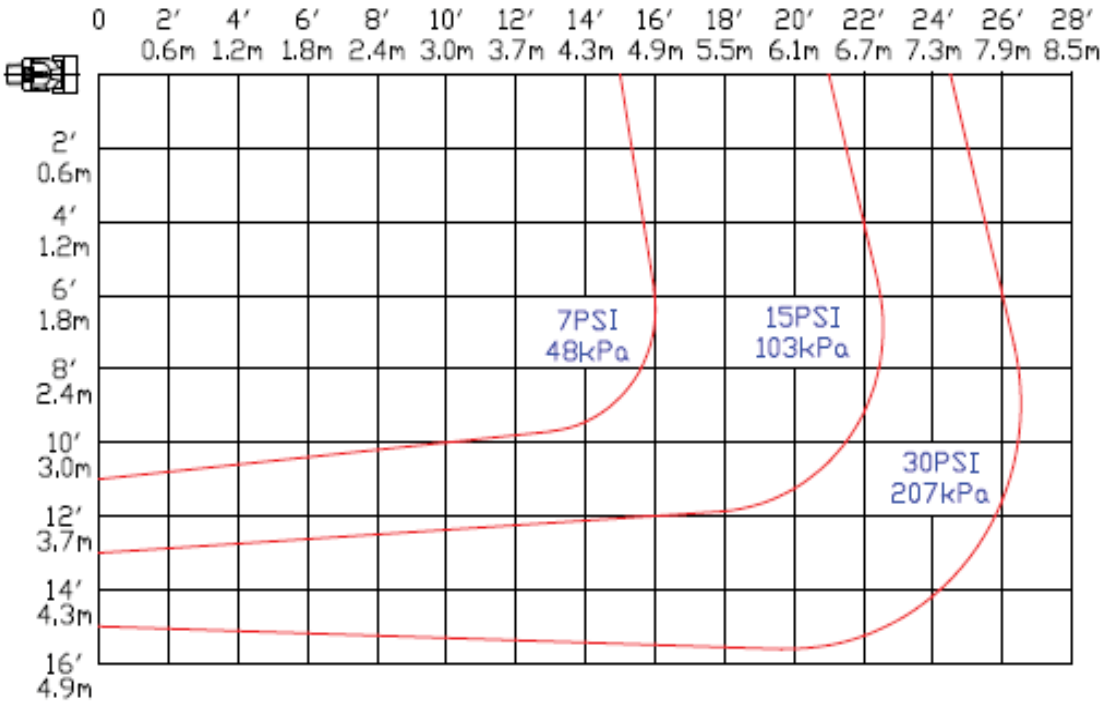


DISTRIBUTION PATTERNS

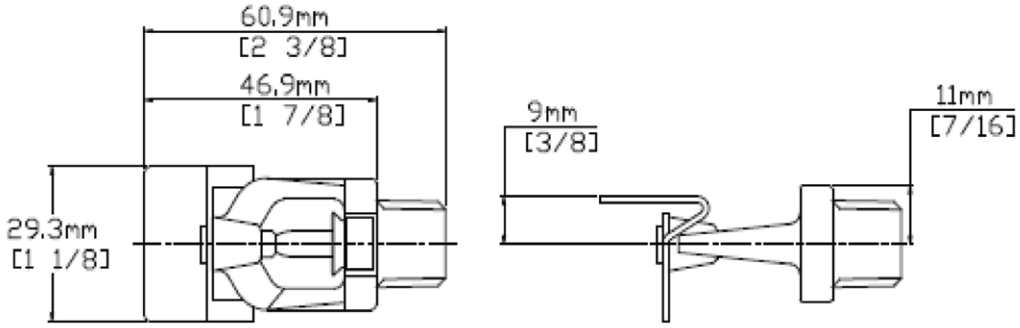
K5.6 STANDARD HORIZONTAL SIDEWALL AND RECESSED HORIZONTAL SIDEWALL
DISTRIBUTION PATTERNS - TRAJECTORY



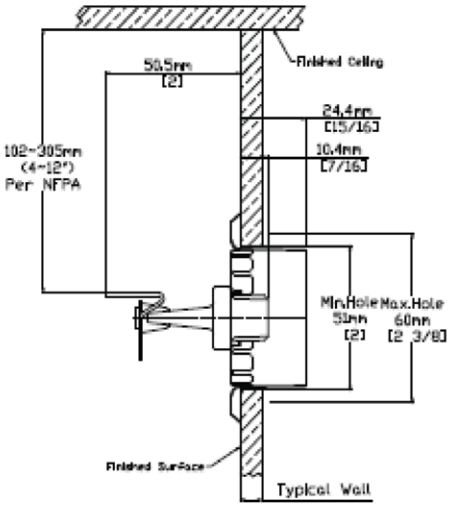
K5.6 STANDARD HORIZONTAL SIDEWALL
DISTRIBUTION PATTERNS – PLAN VIEW



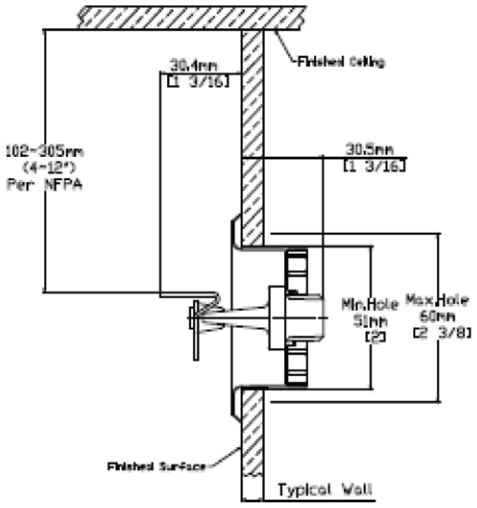
DIMENSIONS



RECESSED PENDENT SPRINKLER



Maximum Extension



Maximum Recess

MODEL: NF3325, NF3333

DESCRIPTION

The NF3325, NF3333, ½" orifice, standard vertical sidewall sprinkler is designed for standard installation. The design provides a crescent-shaped water discharge pattern for installation along a wall or under a beam or ceiling. The design incorporates state-of-the-art, heat responsive, frangible glass bulb design (standard or quick response) for prompt, precise operation. The die cast frame is more streamlined and attractive than traditional sand cast frames.

It is cast with a hex-shaped wrench boss to allow easy tightening from many angles, reducing assembly effort. This sprinkler is available in various temperature ratings and finishes to meet many design requirements. The recessed pendent should be utilized with a recessed escutcheon which provides up ¾" of adjustments. All sprinklers are manufactured using the time proven Belleville seal used exclusively by all major manufactures to ensure long life and safe operation.

SPRINKLER OPERATION

The operating mechanism is a frangible glass bulb which contains a heat responsive liquid. During a fire, the ambient temperature rises causing the liquid in the bulb to expand.

When the ambient temperature reaches the rated temperature of the sprinkler, the bulb shatters. As a result, the waterway is cleared of all sealing parts and water is discharged towards the deflector. The deflector is designed to distribute the water in a pattern that is most effective in controlling the fire.

MAXIMUM COVERAGE

Standard spray coverage is up to:Light Hazard = 196 square feet(18,2 sq.m); Ordinary Hazard = 100 square feet(9,3 sq.m)per NFPA 13.

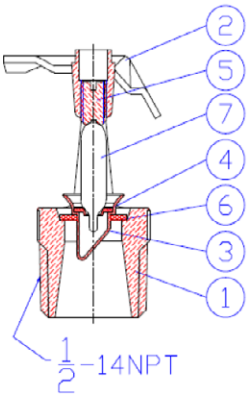
TECHNICAL SPECIFICATION

Sprinkler Identification Number	Standard NF3325 (bulb 5mm), Quick Response NF3333 (bulb 3mm)
Style	Vertical Sidewall
K Factor	5.6Imp.(80S.I)
Response Time Index (RTI)	Standard 50 Quick Response 30
Nominal Thread Size	½"NPT(15mm)
Max. Working Pressure	175PSI(1200kPa)
Factory Hydrostatic Test	100%@500PSI(3450 kPa)
Min. Operation Pressure	7 PSI(48 kPa)

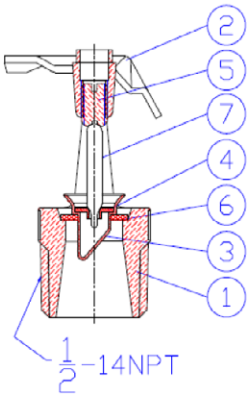
RATINGS

Sprinkler Temperature Classification	Norminal Sprinkler Temperature Rating	N.F.P.A Maximum Ambient (Ceiling) Temp.(Allowed)	Glass Bulb Color
Ordinary	135°F/57°C	100°F/38°C	Orange
Ordinary	155°F/68°C	100°F/38°C	Red
Intermediate	175°F/79°C	150°F/65°C	Yellow
Intermediate	200°F/93°C	150°F/65°C	Green

PART LIST



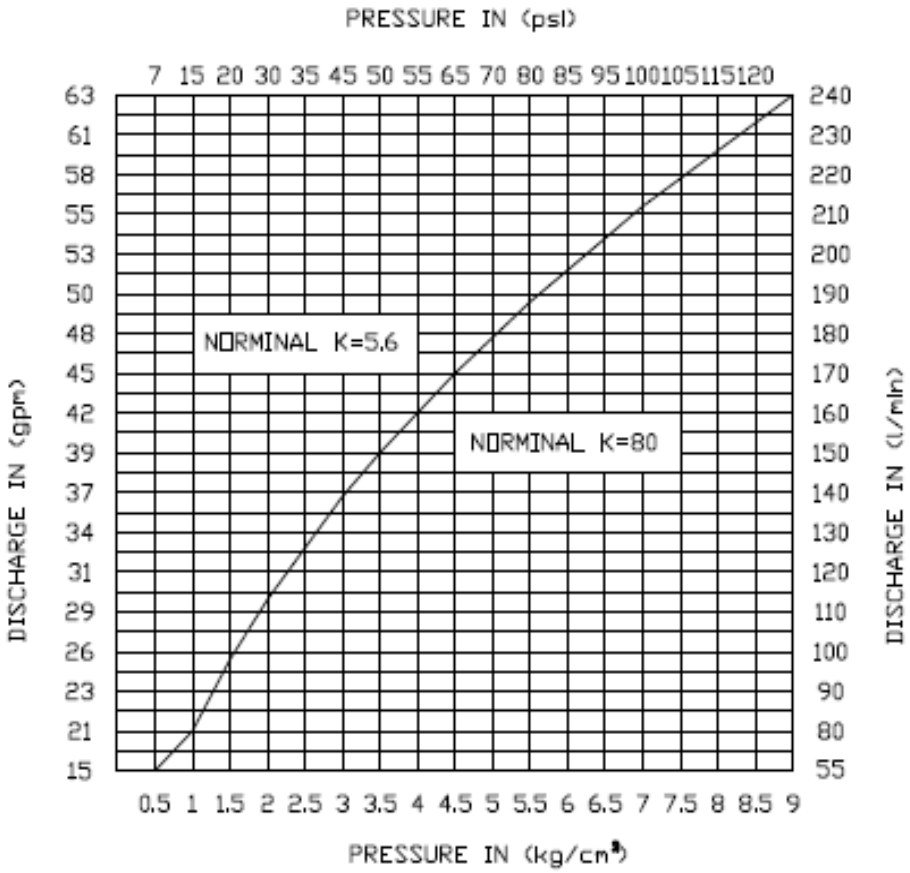
NF3325



NF3333

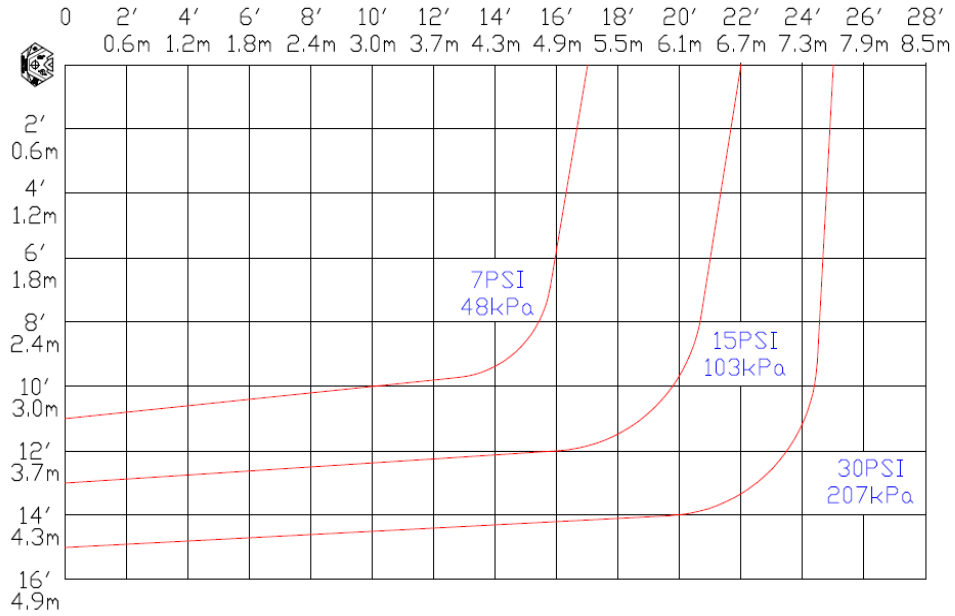
1. Frame 2. Deflector 3. Cap 4. Cap Seat 5. Load Screw 6. Seal 7. Bulb

DISCHARGE CURVE

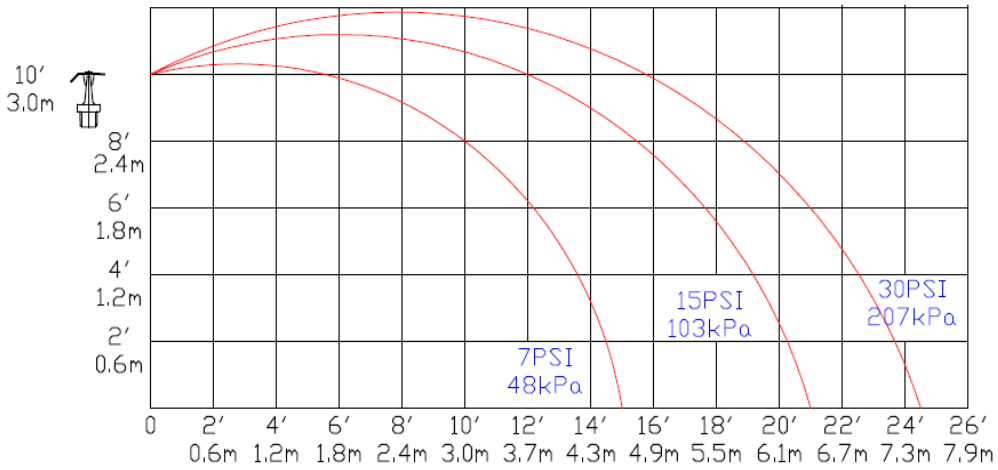


DISTRIBUTION PATTERNS

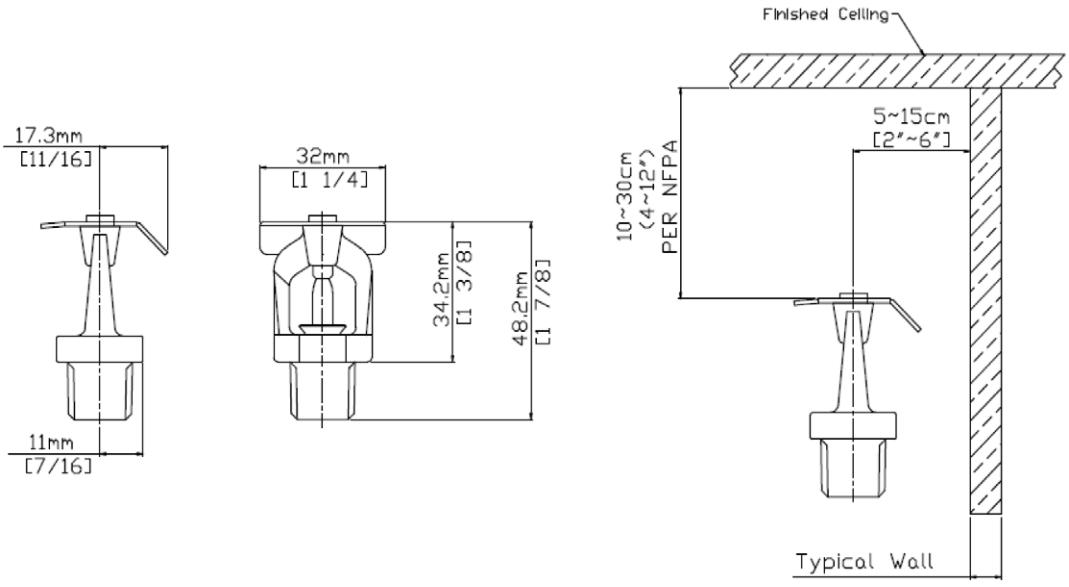
K5.6 STANDARD VERTICAL SIDEWALL
DISTRIBUTION PATTERNS - TRAJECTORY

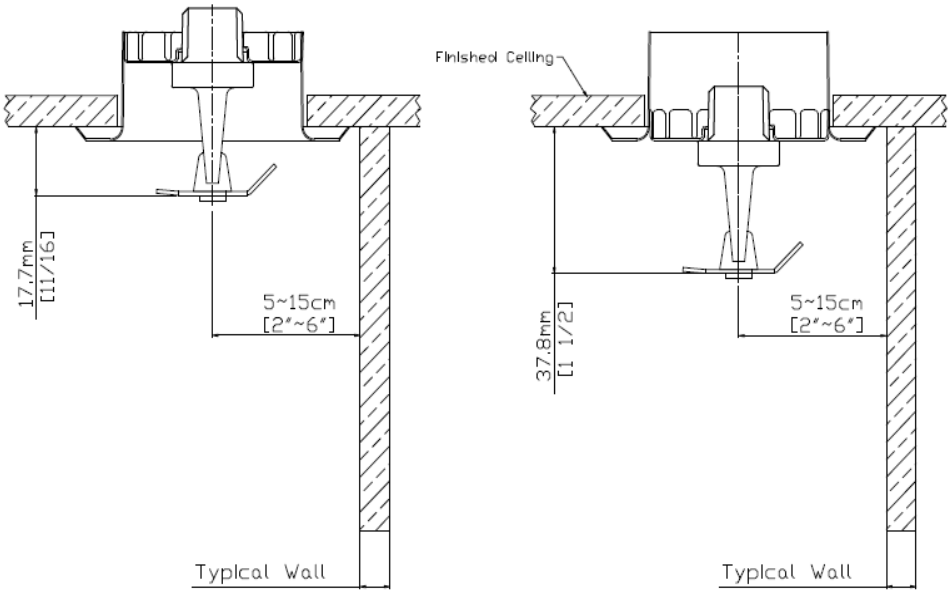


K5.6 STANDARD VERTICAL SIDEWALL
DISTRIBUTION PATTERNS – PLAN VIEW



DIMENSIONS


17.3mm
[11/16]
11mm
[7/16]
32mm
[1 1/4]
34.2mm
[1 3/8]
48.2mm
[1 7/8]
Finished Ceiling
5~15cm
[2"~6"]
10~30cm
(4~12")
PER NFPA
Typical Wall


17.7mm
[11/16]
5~15cm
[2"~6"]
Typical Wall
Finished Ceiling
37.8mm
[1 1/2]
5~15cm
[2"~6"]
Typical Wall

MODEL: NF3355, NF3335

DESCRIPTION

The NAFFCO Sprinklers, NF3355, NF3335 (Glass Bulb Type) Standard and Quick Response Concealed Sprinkler, design incorporates state-of-the-art, heat responsive, frangible glass bulb design for prompt, precise operation. The die cast frame is more streamlined and attractive than traditional sand cast frames.

It is cast with a hex-shaped wrench boss to allow easy tightening from many angles, reducing assembly effort. This sprinkler is available in various temperature ratings and finishes to meet many design requirements. The recessed pendent should be utilized with a recessed escutcheon which provides up ½" of adjustments. All sprinklers are manufactured using the time proven Belleville seal used exclusively by all major manufactures to ensure long life and safe operation.

SPRINKLER OPERATION

The operating mechanism is a frangible glass bulb which contains a heat responsive liquid. During a fire, the ambient temperature rises causing the liquid in the bulb to expand. When the ambient temperature reaches the rated temperature of the sprinkler, the bulb shatters.

As a result, the waterway is cleared of all sealing parts and water is discharged towards the deflector. The deflector is designed to distribute the water in a pattern that is most effective in controlling the fire.

MAXIMUM COVERAGE

Standard spray coverage is up to: Light Hazard = 225 square feet(20.9 sq.m); Ordinary Hazard = 130 square feet(12.1 sq.m) per NFPA 13.

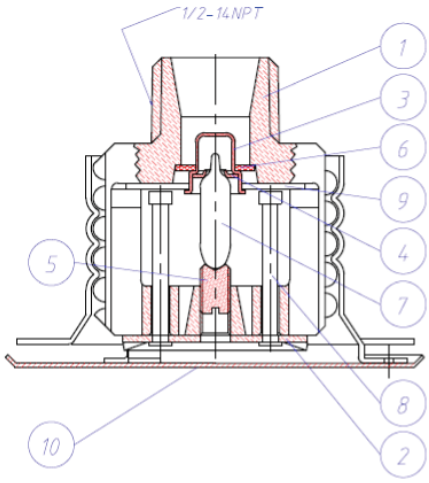
TECHNICAL SPECIFICATION

Sprinkler Identification Number	Standard NF3355 (bulb 5mm), Quick Response NF3335 (bulb 3mm)
Style	Concealed Sprinkler
K Factor	5.6Imp.(80S.I)
Response Time Index (RTI)	Standard 50 Quick Response 30
Nominal Thread Size	½"NPT(15mm)
Max. Working Pressure	175PSI(1200kPa)
Factory Hydrostatic Test	100%@500PSI(3450 kPa)
Min. Operation Pressure	7 PSI(48 kPa)

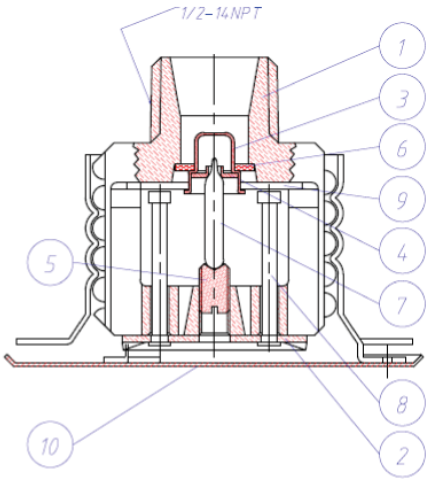
RATINGS

Sprinkler Temperature Classification	Norminal Sprinkler Temperature Rating	N.F.P.A Maximum Ambient (Ceiling) Temp.(Allowed)	Glass Bulb Color
Ordinary	155°F/68°C	100°F/38°C	Red
Intermediate	175°F/79°C	150°F/65°C	Yellow
Intermediate	200°F/93°C	150°F/65°C	Green

PART LIST



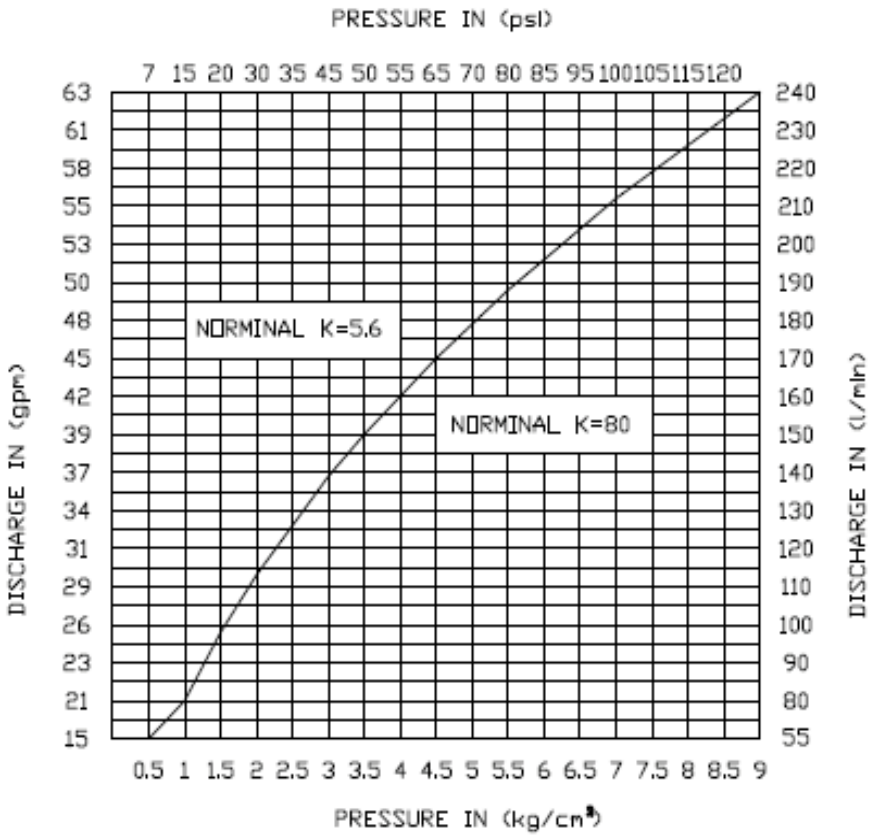
NF3355



NF3335

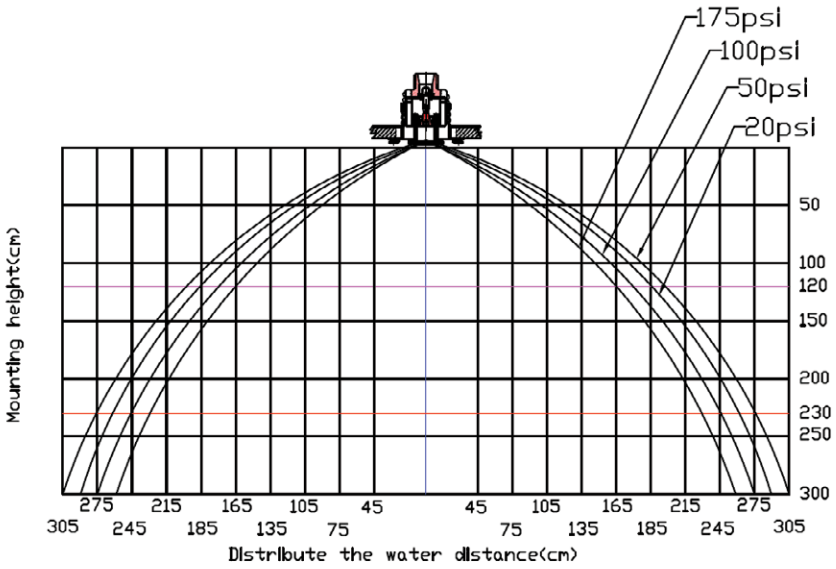
1. Frame 2. Deflector 3. Cap 4. Cap Seat 5. Load Screw 6. Seal 7. Bulb

DISCHARGE CURVE

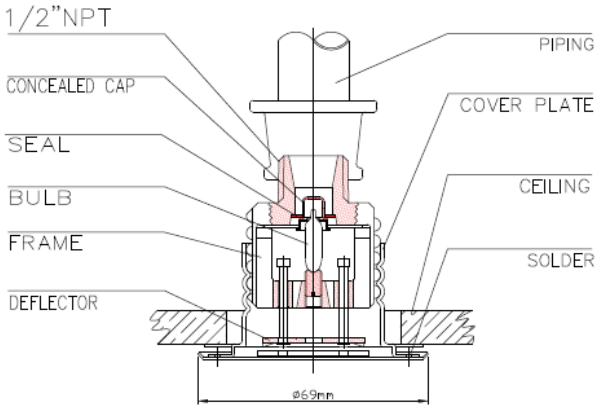


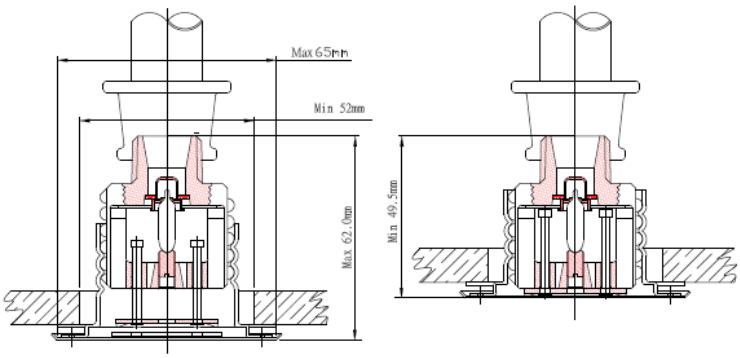
DISTRIBUTION PATTERNS

K5.6 PENDENT SPRINKLER
DISTRIBUTION PATTERNS - TRAJECTORY



DIMENSIONS





MODEL: NF3045, NF3042

DESCRIPTION

The NAFFCO Sprinkler, NF3045, NF3042 (Glass Bulb Type) 3/8" Standard Orifice, Upright, Pendent and Recessed Pendent, Quick Response, design incorporates state-of-the-art, heat responsive, frangible glass bulb design for prompt, precise operation. The die cast frame is more streamlined and attractive than traditional sand cast frames.

It is cast with a hex-shaped wrench boss to allow easy tightening from many angles, reducing assembly effort. This sprinkler is available in various temperature ratings and finishes to meet many design requirements. The recessed pendent should be utilized with a recessed escutcheon which provides up ¾" of adjustments. All sprinklers are manufactured using the time proven Belleville seal used exclusively by all major manufactures to ensure long life and safe operation.

SPRINKLER OPERATION

The operating mechanism is a frangible glass bulb which contains a heat responsive liquid. During a fire, the ambient temperature rises causing the liquid in the bulb to expand.

When the ambient temperature reaches the rated temperature of the sprinkler, the bulb shatters. As a result, the waterway is cleared of all sealing parts and water is discharged towards the deflector. The deflector is designed to distribute the water in a pattern that is most effective in controlling the fire.

MAXIMUM COVERAGE

Standard spray coverage is up to:Light Hazard = 225 square feet(20.9 sq.m); Ordinary Hazard = 130 square feet(12.1 sq.m)per NFPA 13.

TECHNICAL SPECIFICATION

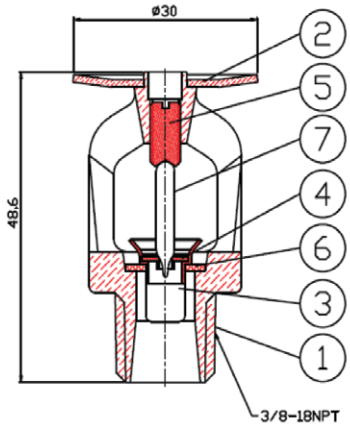
Sprinkler Identification Number	Quick Response NF3045, NF3042 (bulb 3mm)
Style	Pendent Sprinkler NF3045, Upright Sprinkler NF3042
K Factor	4.2Imp.(60S.I)
Response Time Index (RTI)	Quick Response 30
Nominal Thread Size	⅜"NPT or ⅜"PT
Max. Working Pressure	175PSI(1200kPa)
Factory Hydrostatic Test	100%@500PSI(3450 kPa)
Min. Operation Pressure	7 PSI(48 kPa)

RATINGS

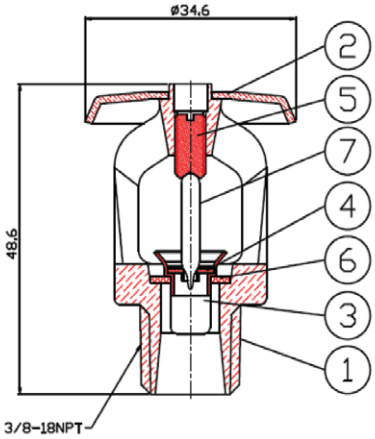
Sprinkler Temperature Classification	Norminal Sprinkler Temperature Rating	N.F.P.A Maximum Ambient (Ceiling) Temp.(Allowed)	Glass Bulb Color
Ordinary	135°F/57°C	100°F/38°C	Orange
Ordinary	155°F/68°C	100°F/38°C	Red
Intermediate	175°F/79°C	150°F/65°C	Yellow
Intermediate	200°F/93°C	150°F/65°C	Green

PART LIST

FRAME AND DEFLECTOR FINISH
Pendent - Brass, Chrome, White
Upright - Brass only



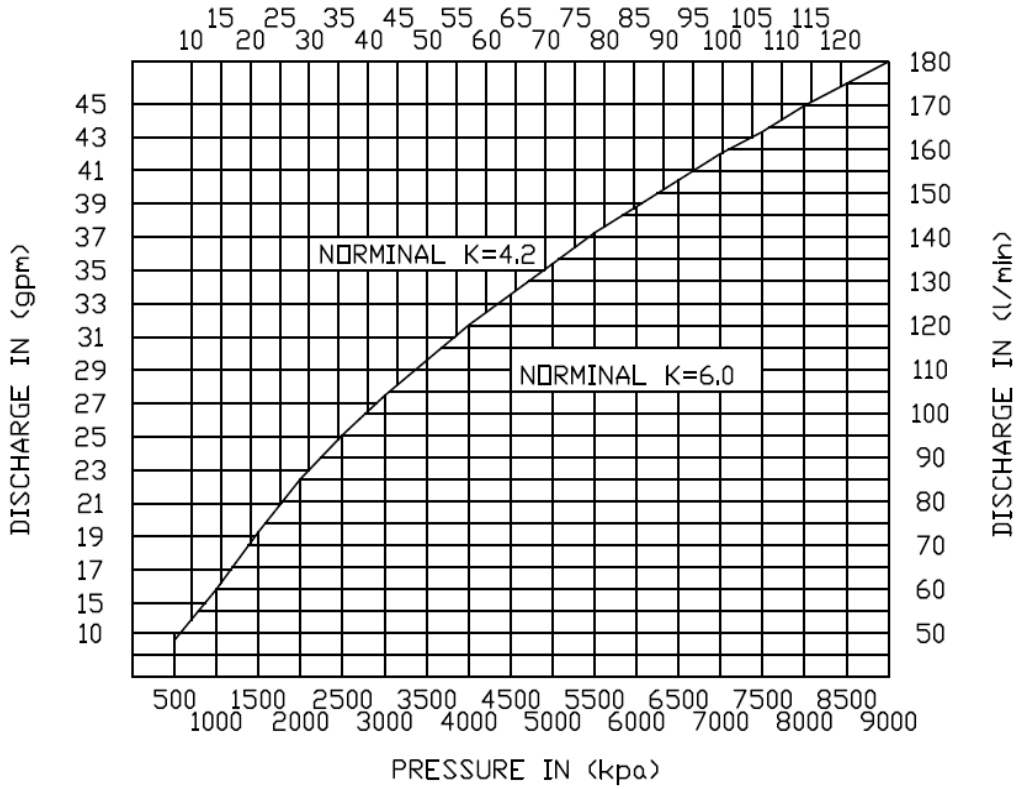
NF3045



NF3042

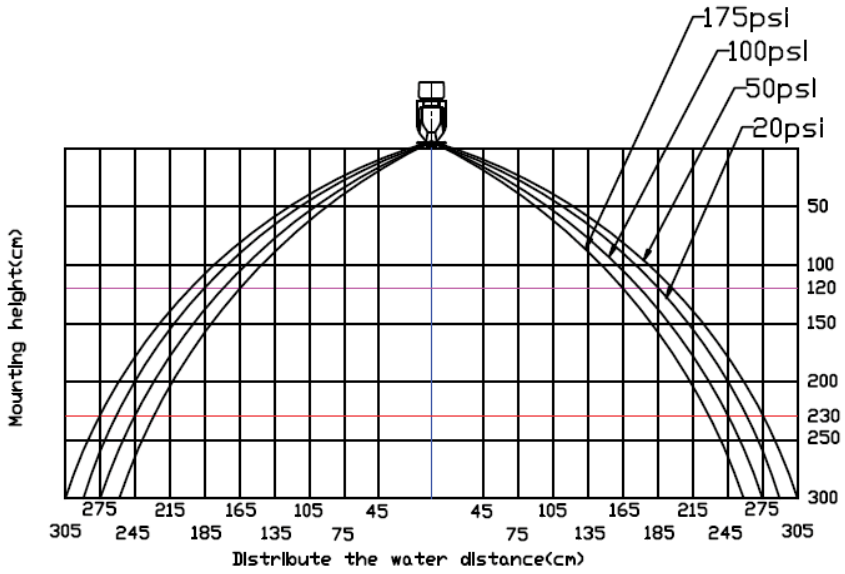
1. Frame 2. Deflector 3. Cap 4. Cap Seat 5. Load Screw 6. Seal 7. Bulb

DISCHARGE CURVE

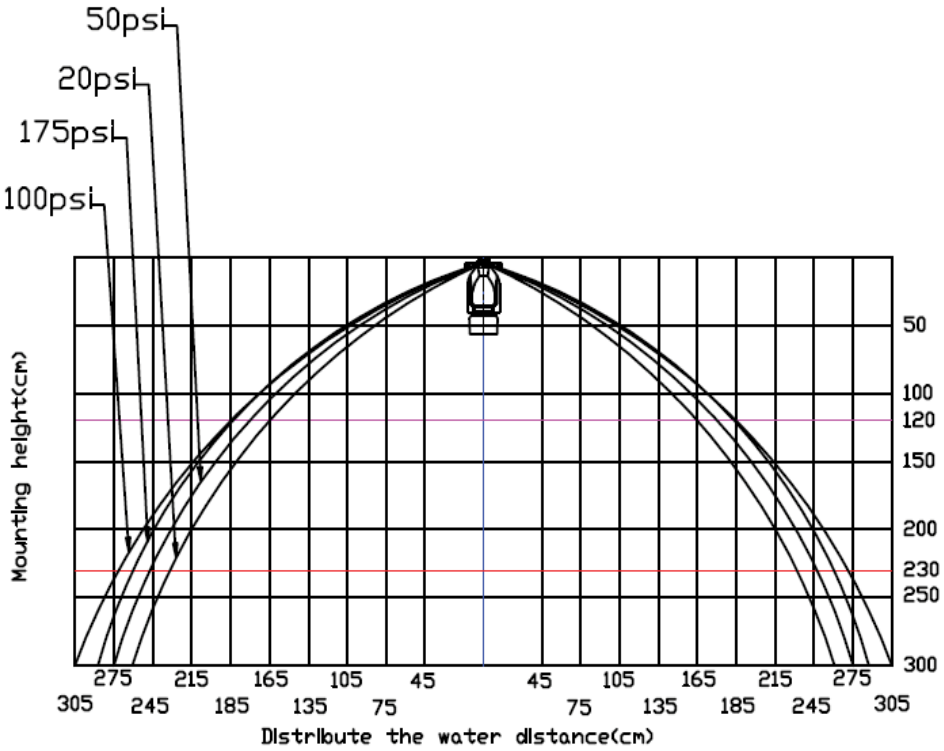


DISTRIBUTION PATTERNS

K4.2 PENDENT SPRINKLER
DISTRIBUTION PATTERNS - TRAJECTORY

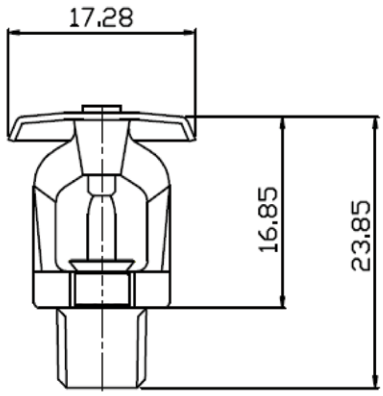


K4.2 UPRIGHT SPRINKLER
DISTRIBUTION PATTERNS - TRAJECTORY

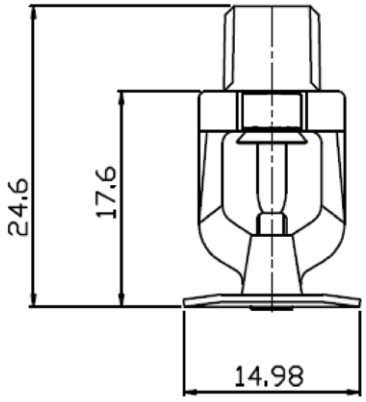


DIMENSIONS

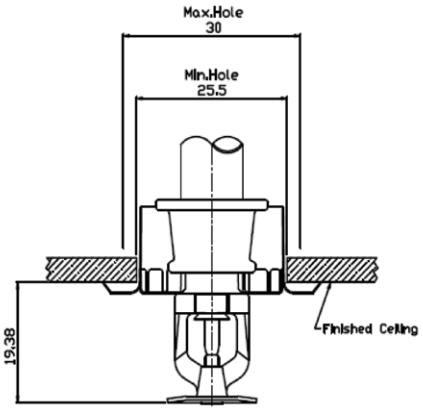
UPRIGHT SPRINKLER



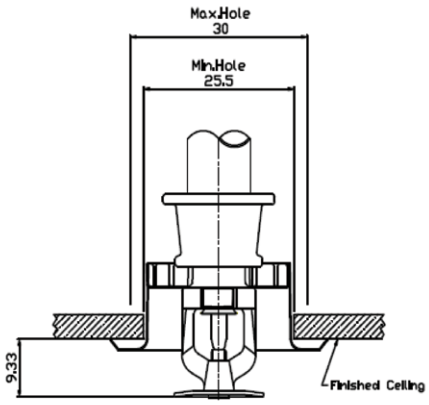
PENDENT SPRINKLER



RECESSED PENDENT SPRINKLER



Maximum Extension



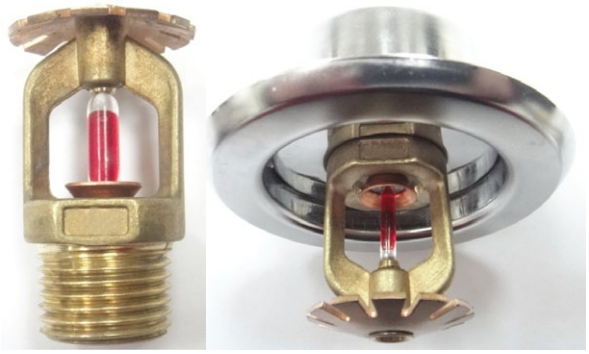
Maximum Recess

MODEL: NF3025, NF3035

DESCRIPTION

The NAFFCO Sprinkler, NF3025, NF3035 (Glass Bulb Type) ½" Orifice, Conventional sprinkler is designed for standard or recessed installation. The design incorporates state-of-the-art, heat responsive, frangible glass bulb design (standard or quick response) for prompt, precise operation. The die cast frame is more streamlined and attractive than traditional sand cast frames.

It is cast with a hex-shaped wrench boss to allow easy tightening from many angles, reducing assembly effort. This sprinkler is available in various temperature ratings and finishes to meet many design requirements. The recessed pendent should be utilized with a recessed escutcheon which provides up ¾" of adjustments. All sprinklers are manufactured using the time proven Belleville seal used exclusively by all major manufactures to ensure long life and safe operation.



SPRINKLER OPERATION

The operating mechanism is a frangible glass bulb which contains a heat responsive liquid. During a fire, the ambient temperature rises causing the liquid in the bulb to expand.

When the ambient temperature reaches the rated temperature of the sprinkler, the bulb shatters. As a result, the waterway is cleared of all sealing parts and water is discharged towards the deflector. The deflector is designed to distribute the water in a pattern that is most effective in controlling the fire.

MAXIMUM COVERAGE

Standard spray coverage is up to: Light Hazard = 229 square feet(20.9 sq.m); Ordinary Hazard = 130 square feet(12.1 sq.m)per NFPA 13.

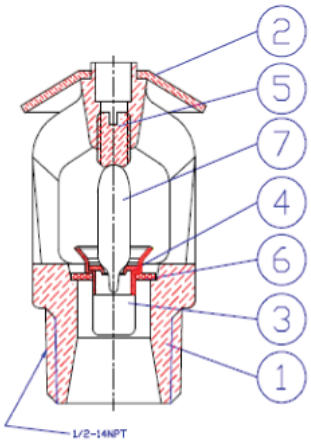
TECHNICAL SPECIFICATION

Sprinkler Identification Number	Standard NF3025 (bulb 5mm), Quick Response NF3035 (bulb 3mm)
Style	Conventional Sprinkler
K Factor	5.6Imp.(80S.I)
Response Time Index (RTI)	Standard Response 50 Quick Response 30
Nominal Thread Size	½"NPT (15mm)
Max. Working Pressure	175PSI(1200kPa)
Factory Hydrostatic Test	100%@500PSI(3450 kPa)
Min. Operation Pressure	7 PSI(48 kPa)

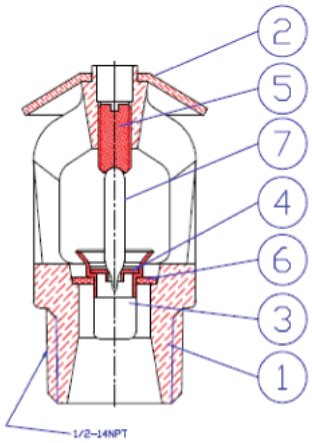
RATINGS

Sprinkler Temperature Classification	Norminal Sprinkler Temperature Rating	N.F.P.A Maximum Ambient (Ceiling) Temp.(Allowed)	Glass Bulb Color
Ordinary	135ºF/57ºC	100ºF/38ºC	Orange
Ordinary	155ºF/68ºC	100ºF/38ºC	Red
Intermediate	175ºF/79ºC	150ºF/65ºC	Yellow
Intermediate	200ºF/93ºC	150ºF/65ºC	Green

PART LIST



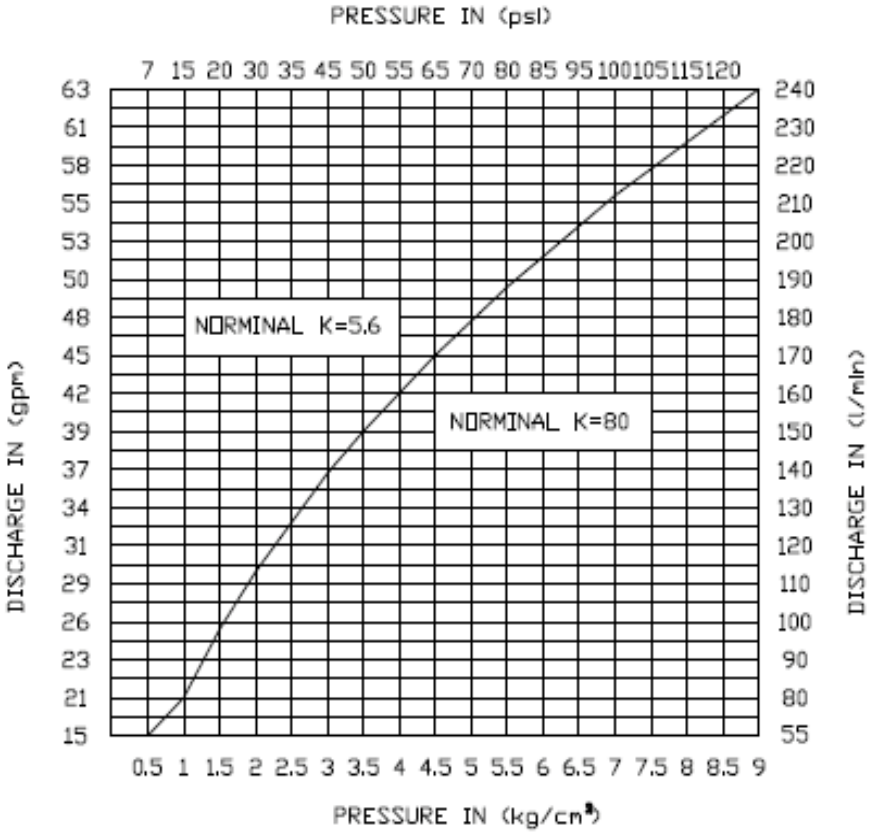
NF3025



NF3035

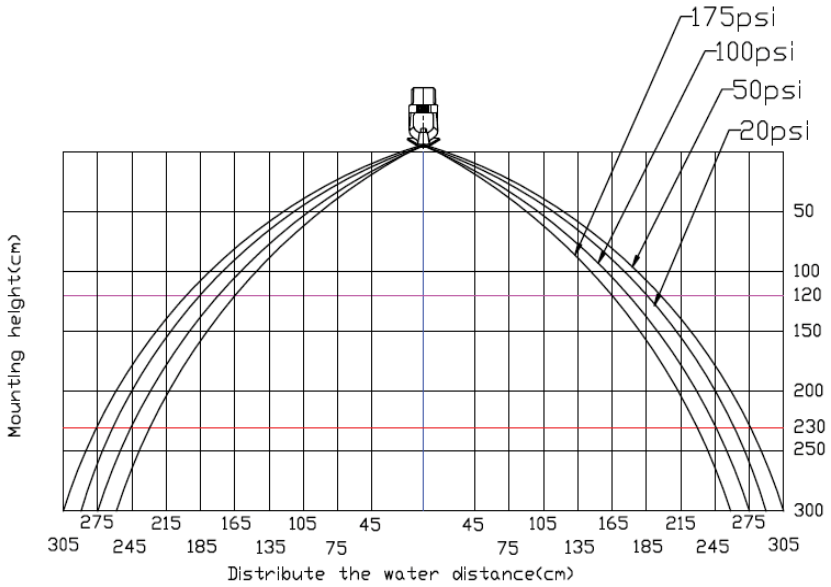
1. Frame 2. Deflector 3. Cap 4. Cap Seat 5. Load Screw 6. Seal 7. Bulb

DISCHARGE CURVE

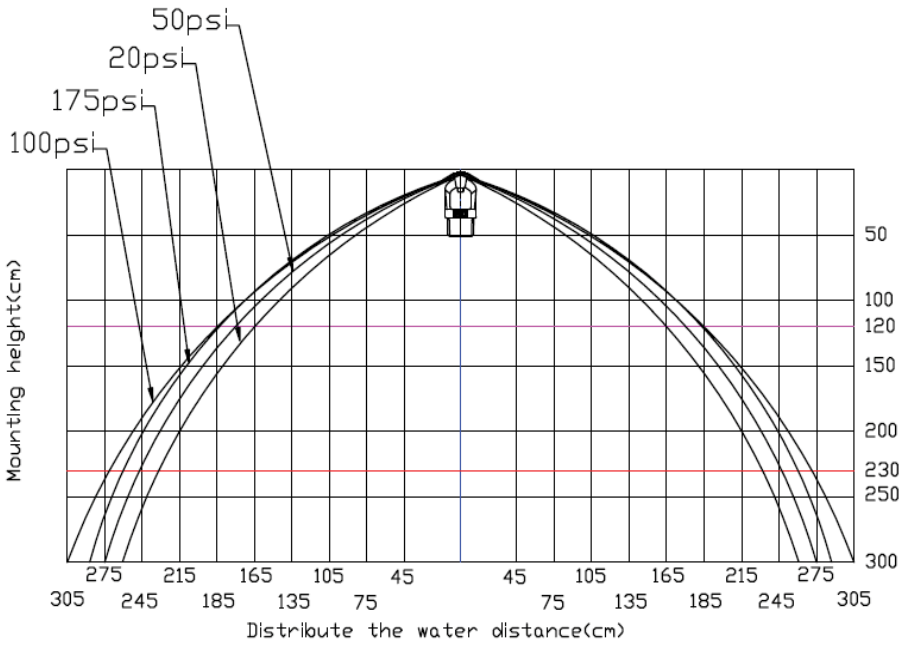


DISTRIBUTION PATTERNS

K5.6 CONVENTIONAL SPRINKLER
DISTRIBUTION PATTERNS - TRAJECTORY

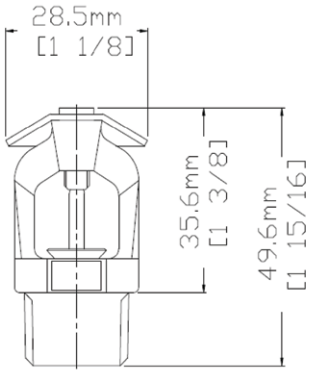


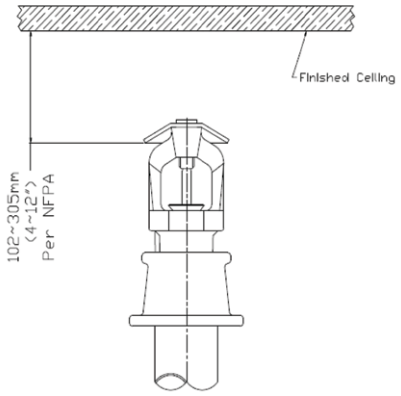
K5.6 CONVENTIONAL SPRINKLER
DISTRIBUTION PATTERNS - TRAJECTORY



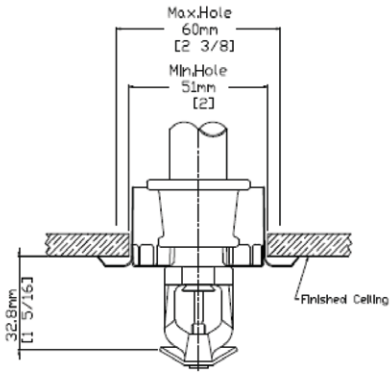
DIMENSIONS

STANDARD CONVENTIONAL SPRINKLER

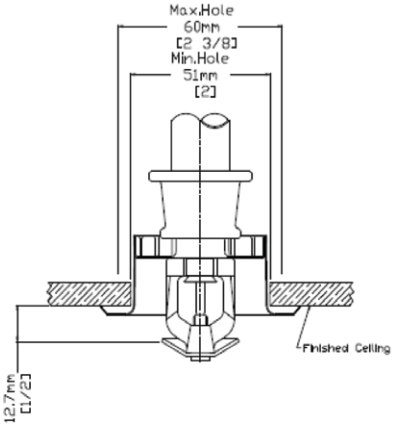




RECESSED CONVENTIONAL SPRINKLER



Maximum Extension



Maximum Recess