



Model F1 Residential Sprinklers

Model F1 Res Sprinklers engineered for the lowest flows to meet the minimum design density of .05 gpm/ft²

Types:

1. F1 Res 49 Pendent
2. F1 Res 49 Recessed Pendent/F1
3. F1 Res 49 Recessed Pendent/FP
4. F1 Res 58 Pendent
5. F1 Res 58 Recessed Pendent/F1
6. F1 Res 58 Recessed Pendent/FP
7. F1 Res 49 CCP Pendent
8. F1 Res 58 CCP Pendent
9. F1 Res 44 HSW
10. F1 Res 44 Recessed HSW/F2
11. F1 Res 58 HSW
12. F1 Res 58 HSW Recessed HSW/F2
13. F1 Res 44 SWC
14. F1 Res 40 HSW
15. F1 Res 40 Recessed HSW/F2

Listings & Approvals

1. Listed by Underwriters Laboratories Inc. and UL Certified for Canada (cULus)
2. NYC MEA 258-93-E

Slope Ceiling Approvals

Refer to Bulletin 035

UL Listing Category

Residential Automatic Sprinkler

UL Guide Number

VKKW

Patents

US Patent No. 6,516,893 applies to the Model F1 Res 49 & 58 Pendent Sprinklers

Product Description

Model F1 Res Pendent sprinklers (Figs. 1, 2, 3, & 4) are fast response sprinklers combining excellent durability, high sensitivity glass-bulb and low profile decorative design. The F1 Res Horizontal Sidewall sprinklers (Figs. 5, 6 & 7) are equally attractive when above ceiling piping cannot be used.

The 3mm glass-bulb pendent sprinklers, with a K-Factor of 4.9, permit the efficient use of residential water supplies for sprinkler coverage in residential fire protection design.

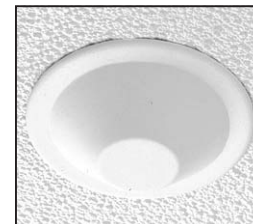
The low flow F1 Res sprinklers are specially engineered for fast thermal response to meet the sensitive fire protection application needs of the latest residential market standards (UL 1626 Standard *). Upon fire conditions, rising heat causes a sprinkler's heat-sensitive glass-bulb to shatter, releasing the waterway for water flow onto the deflector, evenly distributing the discharged water to control a fire.



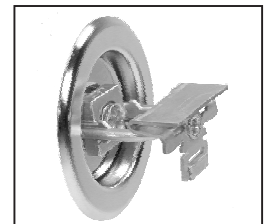
F1 Res 49 & 58
Recessed Pendent / F1



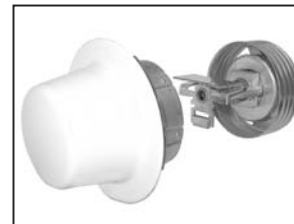
F1 Res 49 & 58
Recessed Pendent / FP



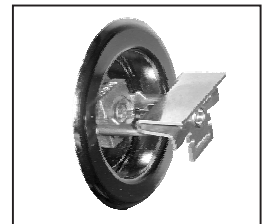
F1 Res 49 & 58
CCP Pendent



F1 Res 44 & 58
Recessed HSW/F2



F1 Res 44 SWC



F1 Res 40 Recessed
HSW/F2

Technical Data:

- Thermal Sensor: Nominal 3mm glass-bulb
- Sprinkler Frame : Brass Casting
- Sprinklers' Pressure Rating : 175 psi
Factory Hydrostatically Tested to 500 psi
- Thread Size: 1/2" NPT (R1/2)
- K-Factor: 4.9 (Actual) - F1 Res 49 Pendent Sprinkler
5.8 (Actual) - F1 Res 58 Pendent & HSW Sprinkler
4.4 (Actual) - F1 Res 44 HSW Sprinkler
4.0 (Actual) - F1 Res 40 HSW Sprinkler
- Density: Minimum 0.05 gpm/ft²

Application

Model F1 Res Sprinklers are used for Residential Fire Protection according to UL 1626 Standard*. Be sure that orifice size, temperature rating, deflector style and sprinkler type are in accordance with the latest published standards of The National Fire Protection Association or the approving authority having jurisdiction.

* Effective date 7/12/02

Installation

Models F1 Res sprinklers are to be installed as shown. Model F1, F2 and FP Escutcheons, illustrated herewith, are the only recessed escutcheons to be used with Model F1 Res sprinklers. Use of any other recessed escutcheon will void all approvals and warranties. For installing Model F1 Res Pendent sprinklers use only the Model D sprinkler Wrench; for installing Models F1 Res Recessed Pendent, CCP &

SWC sprinklers use only the Model GFR1 sprinkler wrench; for installing Model F1 Res Recessed HSW sprinklers use only the Model GFR1 Sprinkler Wrench. Use of wrenches other than those specified may damage these sprinklers. Install F1 Res 44 and 40 HSW with a ceiling to deflector distance of 4" - 12". Flow arrow on deflector must point away from near wall and "Top" marking must face ceiling.

• Model F1 Res 49 & 58 Pendent



• Model F1 Res 49 & 58 Recessed Pendent / F1



F1 escutcheon, $\frac{3}{4}$ " (19mm) adjustment

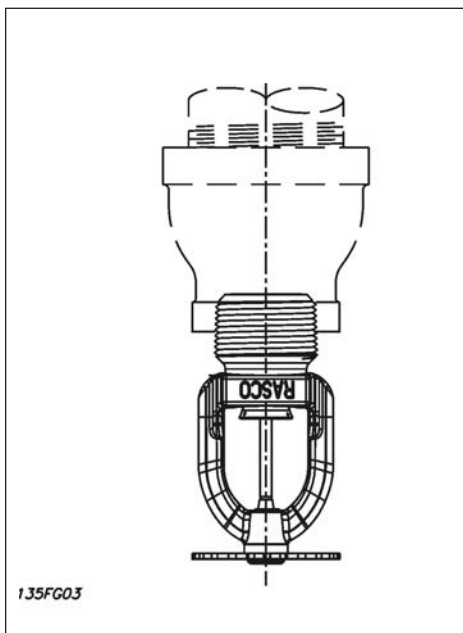


Fig. 1

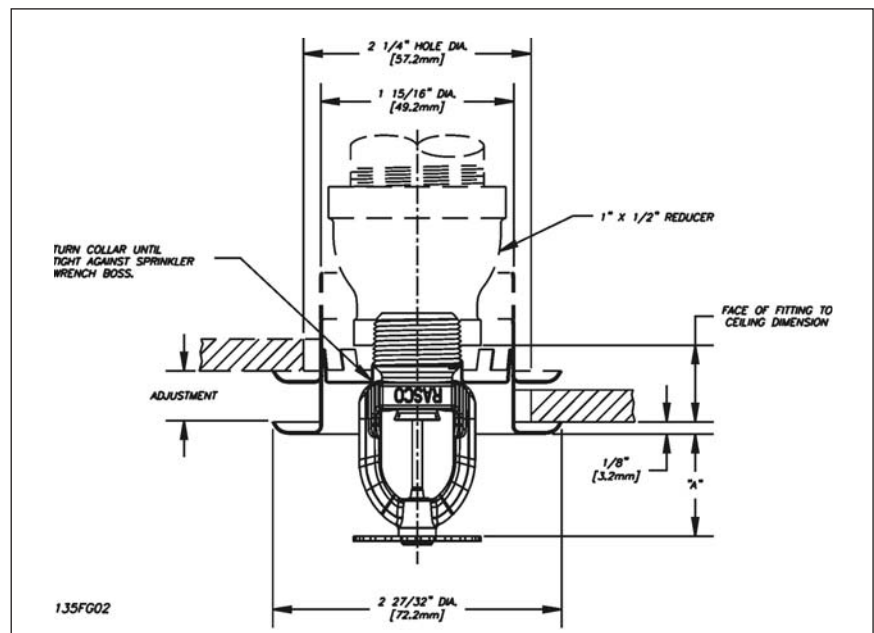


Fig. 2

Technical Data: F1 Res 49 Pendent and Recessed Pendent

Thread Size	Sprinkler Temp. Rating		Max. Pressure psi (bar)	Max. Ambient Temp.		Actual K Factor	Sprinkler Length Inch (mm)
	°F	°C		°F	°C		
½" NPT (R½)	155 175	68 79	175 (12)	100 150	38 66	4.9	2.25 (57)

Escutcheon*, F1 or F2, Data:

Type	Adjustment Inch (mm)	"A" Inch (mm)	Face of fitting to ceiling Inch (mm)
F1	¾ (19.0)	Min.= ¾" (19.1) Max.= 1½" (38.1)	⅜ - 15/16 (4.7 - 24.0)
F2	½ (12.7)	Min.= 15/16" (23.8) Max.= 1½" (38.1)	⅜ - 1¼ (4.7 - 17.4)

* **Note:** Escutcheons F1 or F2 may be used with Model F1 Res 49 & 58 Recessed Pendent Sprinkler

Deflector - to - ceiling Maximum 1" (25mm) to 4" (100mm)

Max. Sprinkler Spacing ft (m)	Flow gpm (Lpm)	Pressure psi (bar)	Sprinkler Identification Number (SIN)
12 x 12 (3.6x3.6)	13 (49)	7.0 (0.48)	R3516
14 x 14 (4.3x4.3)	13 (49)	7.0 (0.48)	
16 x 16 (4.9x4.9)	13 (49)	7.0 (0.48)	
18 x 18 (5.5x5.5)	17 (64.3)	12.0 (0.83)	
20 x 20 (6.1x6.1)	20 (75.7)	16.7 (1.14)	

*Deflector - to - ceiling Maximum 4" (100mm) to 8" (203mm)

Max. Sprinkler Spacing ft (m)	Flow gpm (Lpm)	Pressure psi (bar)	Sprinkler Identification Number (SIN)
12 x 12 (3.6x3.6)	15 (57)	9.4 (0.65)	R3516
14 x 14 (4.3x4.3)	16 (60.5)	10.6 (0.73)	
16 x 16 (4.9x4.9)	17 (64.3)	12.0 (0.83)	
18 x 18 (5.5x5.5)	19 (72)	15.0 (1.0)	
20 x 20 (6.1x6.1)	22 (83.2)	20.2 (1.4)	

* **Note:** The F1 Res 49 pendent and recessed pendent residential sprinklers can be installed per NFPA 13 in beamed ceilings meeting the following criteria:
1. Maximum beam depth = 7" (178mm)
2. Beam spacing at or greater than 7.5 ft. (2.3m) on center.

Technical Data: F1 Res 58 Pendent and Recessed Pendent

Thread Size	Sprinkler Temp. Rating		Max. Pressure psi (bar)	Max. Ambient Temp.		K Factor	Sprinkler Length Inch (mm)
	°F	°C		°F	°C		
½" NPT (R½)	155 175	68 79	175 (12)	100 150	38 66	5.8	2.25 (57)

Max. Sprinkler Spacing ft (m)	Flow gpm (Lpm)	Pressure psi (bar)	Ceiling -to- Deflector Inch (mm)	Sprinkler Identification Number (SIN)
12 x 12 (3.6x3.6)	16 (61)	7.6 (0.53)	1-4 (25-100)	R3513
14 x 14 (4.3x4.3)	16 (61)	7.6 (0.53)		
16 x 16 (4.9x4.9)	16 (61)	7.6 (0.53)		
18 x 18 (5.5x5.5)	19 (72)	10.8 (0.75)		
20 x 20 (6.1x6.1)	22 (83.3)	14.4 (1.0)		

- **Model F1 Res 49 & 58
CCP Pendant**



- **Model F1 Res 49 & 58
Recessed Pendant / FP**



FP push-on/thread-off
escutcheon

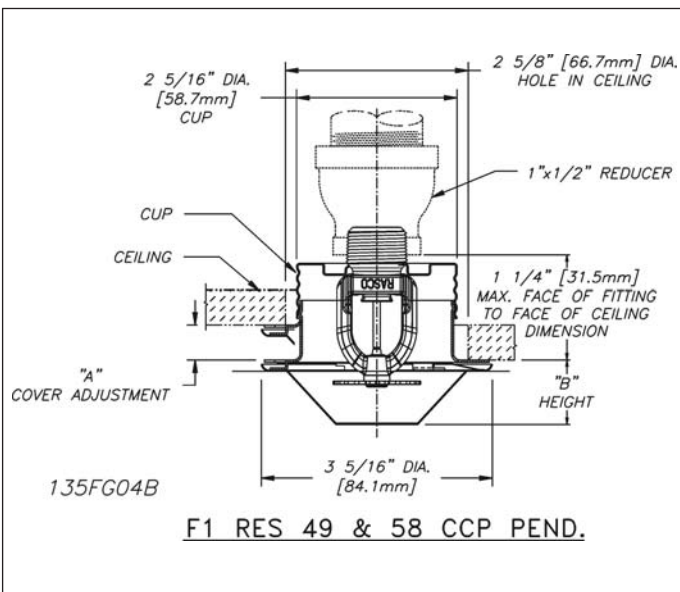


Fig. 3

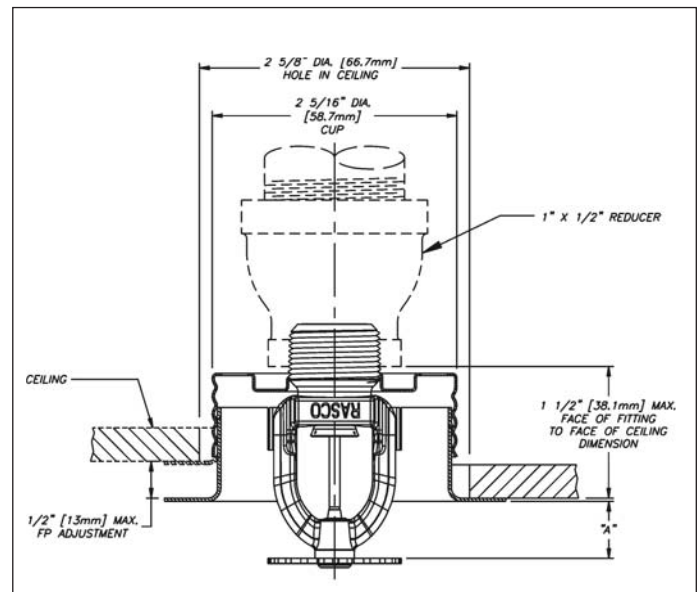


Fig. 4

Technical Data: F1 Res 49 CCP Pendant and Recessed Pendant / FP

Thread Size	Sprinkler Temp. Rating		CCP Assembly Temp. Rating		Max. Pressure psi (bar)	Max. Ambient Temp.		K Factor	Sprinkler Length Inch (mm)
	°F	°C	°F	°C		°F	°C		
½" NPT (R½)	155	68	135	57	175 (12)	100	38	4.9	2.25 (57)

CCP Options Data:

"A" Cover Adjustment Inch (mm)	"B" CCP Height Inch (mm)
½ (12.7)	15/16 (24)
3/16 (4.7)	¾ (19)

Max. Sprinkler Spacing ft (m)	Flow gpm (Lpm)	Pressure psi (bar)	Sprinkler Identification Number (SIN)
12 x 12 (3.6x3.6)	13 (49)	7.0 (0.48)	R3516
14 x 14 (4.3x4.3)	13 (49)	7.0 (0.48)	
16 x 16 (4.9x4.9)	14 (53)	8.2 (0.56)	
18 x 18 (5.5x5.5)	18 (68.1)	13.5 (0.93)	
20 x 20 (6.1x6.1)	20 (75.7)	16.7 (1.14)	

FP Data "A":

FP Position	"A" Inch (mm)
Max. Recessed	7/16 (11)
Min. Recessed	15/16 (24)

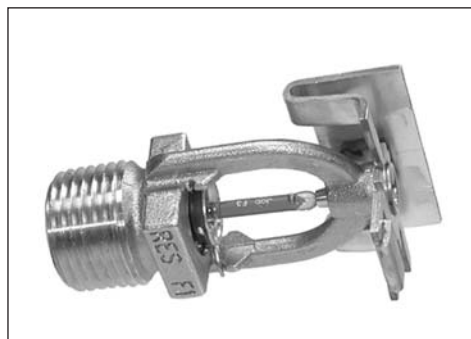
Note: Sprinklers shown in Fig. 3 and Fig. 4 are not suitable for installation in ceilings which have positive pressure in the space above.

Technical Data: F1 Res 58 CCP Pendant and Recessed Pendant/FP

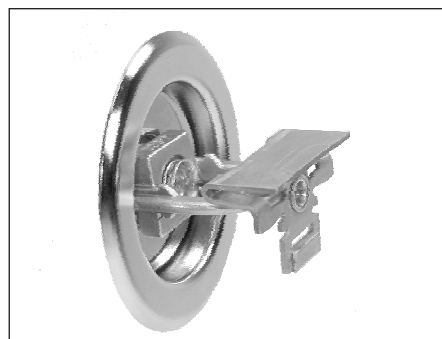
Thread Size	Sprinkler Temp. Rating		CCP Assembly Temp. Rating		Max. Pressure psi (bar)	Max. Ambient Temp.		K Factor	Sprinkler Length Inch (mm)
	°F	°C	°F	°C		°F	°C		
½" NPT (R½)	155	68	135	57	175 (12)	100	38	5.8	2.25 (57)

Max. Sprinkler Spacing ft (m)	Flow gpm (Lpm)	Pressure psi (bar)	Sprinkler Identification Number (SIN)
12 x 12 (3.6x3.6)	16 (61)	7.6 (0.53)	R3513
14 x 14 (4.3x4.3)	16 (61)	7.6 (0.53)	
16 x 16 (4.9x4.9)	16 (61)	7.6 (0.53)	
18 x 18 (5.5x5.5)	19 (72)	10.8 (0.75)	
20 x 20 (6.1x6.1)	22 (83.3)	14.4 (1.0)	

• **Model F1 Res 44 & 58 HSW**



• **Model F1 Res 44 & 58 Recessed HSW/F2**



F2 escutcheon, $\frac{1}{2}$ " (13mm) adjustment

Technical Data: F1 Res 44 HSW & HSW/F2

Thread Size	Sprinkler Temp. Rating		Max. Pressure psi (bar)	Max. Ambient Temp.		K Factor	Sprinkler Length Inch (mm)
	°F	°C		°F	°C		
$\frac{1}{2}$ " NPT (R $\frac{1}{2}$)	155 175	68 79	175 (12)	100 150	38 66	4.4	2.45 (62)

Escutcheon, F2, Data:

Type	Adjustment Inch (mm)	Face of Fitting to wall Inch (mm)
F2	$\frac{1}{2}$ (13)	$\frac{3}{16}$ - $\frac{1}{16}$ (4.7 - 17.4)

Max. Sprinkler Spacing ft (m)	"A" Ceiling to- Deflector Inch (mm)	Sprinkler Temp. Rating °F (°C)		Flow gpm (Lpm)	Pressure psi (bar)	Sprinkler Identification Number (SIN)
12 x 12 (3.6x3.6)	4 - 6 (101-152)	155 (68)	175 (79)	12 (45.4)	7.5 (0.52)	R3531
14 x 14 (4.3x4.3)		155 (68)	175 (79)	14 (53.0)	10.2 (0.71)	
16 x 16 (4.9x4.9)		155 (68)	175 (79)	16 (60.6)	13.3 (0.92)	
16 x 18 (4.9x5.5)		155 (68)	175 (79)	18 (68.1)	16.8 (1.16)	
18 x 18 (5.5x5.5)		155 (68)	175 (79)	19 (72.0)	18.7 (1.29)	
16 x 20 (4.9x6.1)		155 (68)	175 (79)	23 (87.1)	27.4 (1.89)	
12 x 12 (3.6x3.6)	6 - 12 (152-305)	155 (68)	175 (79)	14 (53.0)	10.2 (0.71)	
14 x 14 (4.3x4.3)		155 (68)	175 (79)	16 (60.6)	13.3 (0.92)	
16 x 16 (4.9x4.9)		155 (68)	175 (79)	17 (64.4)	15.0 (1.04)	
16 x 18 (4.9x5.5)		155 (68)	175 (79)	20 (75.7)	20.7 (1.43)	
16 x 20 (4.9x6.1)		155 (68)	175 (79)	23 (87.1)	27.4 (1.89)	

Technical Data: F1 Res 58 HSW & HSW/F2

Thread Size	Sprinkler Temp. Rating		Max. Pressure psi (bar)	Max. Ambient Temp.		K Factor	Sprinkler Length Inch (mm)
	°F	°C		°F	°C		
½" NPT (R½)	155 175	68 79	175 (12)	100 150	38 66	5.8	2.45 (62)

Escutcheon, F2, Data:

Type	Adjustment Inch (mm)	Face of Fitting to wall Inch (mm)
F2	½ (13)	⅜ - 1⅜ (4.7 - 17.4)

Max. Sprinkler Spacing ft (m)	"A" Ceiling -to-Deflector Inch (mm)	Sprinkler Temp. Rating °F (°C)		Flow gpm (Lpm)	Pressure psi (bar)	Sprinkler Identification Number (SIN)
12 x 12 (3.6x3.6)	4 - 6 (101-152)	155 (68)	175 (79)	16 (60.6)	7.6 (0.53)	R3533
14 x 14 (4.3x4.3)		155 (68)	175 (79)	18 (68.2)	9.7 (0.67)	
16 x 16 (4.9x4.9)		155 (68)	175 (79)	21 (79.5)	13.2 (0.91)	
16 x 18 (4.9x5.5)		155 (68)	175 (79)	25 (94.7)	18.6 (1.28)	
16 x 20 (4.9x6.1)		155 (68)	175 (79)	29 (109.8)	25 (1.73)	
12 x 12 (3.6x3.6)	6 - 12 (152-305)	155 (68)	175 (79)	22 (83.3)	14.4 (1.0)	
14 x 14 (4.3x4.3)		155 (68)	175 (79)	22 (83.3)	14.4 (1.0)	
16 x 16 (4.9x4.9)		155 (68)	175 (79)	26 (98.4)	20.1 (1.39)	
16 x 18 (4.9x5.5)		155 (68)	175 (79)	31 (117.4)	28.6 (1.97)	

• **Model F1 Res 44 SWC**

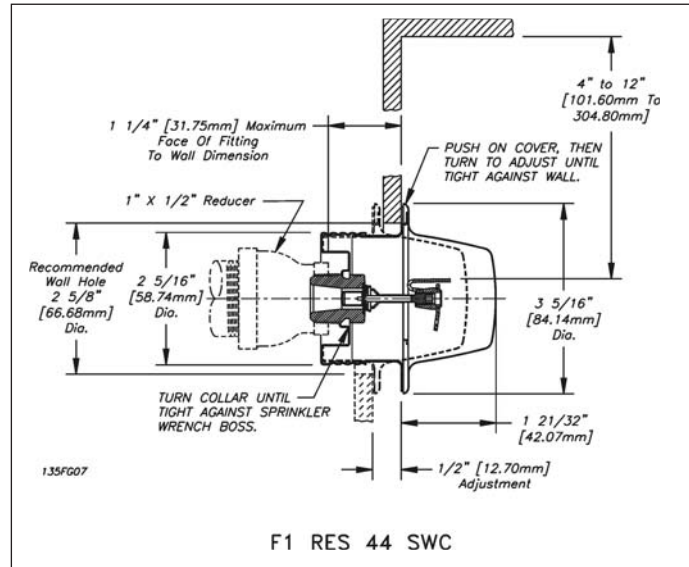


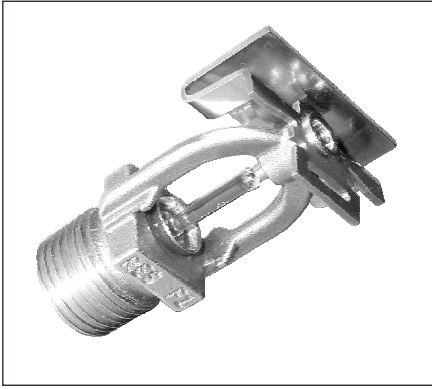
Fig. 5

Technical Data: F1 Res 44 SWC

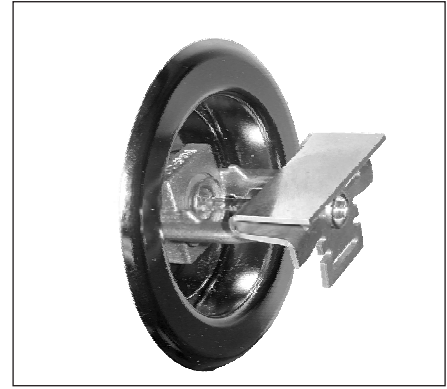
Thread Size	Sprinkler Temp. Rating		Cover Temp. Rating		Max. Pressure psi (bar)	Max. Ambient Temp.		K Factor	Sprinkler Length Inch (mm)
	°F	°C	°F	°C		°F	°C		
1/2" NPT (R1/2)	155	68	135	57	175 (12)	100	38	4.4	2.45 (62)

Max. Sprinkler Spacing ft (m)	"A" Ceiling to-Deflector Inch (mm)	Flow gpm (Lpm)	Pressure psi (bar)	Sprinkler Identification Number (SIN)
12 x 12 (3.6x3.6)	4 - 6 (101-152)	13 (49.2)	8.7 (0.60)	R3531
14 x 14 (4.3x4.3)		14 (53.0)	10.2 (0.71)	
16 x 16 (4.9x4.9)		17 (64.3)	15.0 (1.1)	
16 x 18 (4.9x5.5)		19 (71.8)	18.7 (1.13)	
16 x 20 (4.9x6.1)		23 (87.1)	27.4 (1.89)	
12 x 12 (3.6x3.6)	6 - 12 (152-305)	14 (52.9)	10.2 (0.71)	
14 x 14 (4.3x4.3)		15 (56.7)	11.7 (0.81)	
16 x 16 (4.9x4.9)		18 (68.1)	16.8 (1.16)	
16 x 18 (4.9x5.5)		20 (75.6)	20.7 (1.43)	

• Model F1 Res 40 HSW



• Model F1 Res 40 Recessed HSW/F2



F2 escutcheon, 1/2" (13mm) adjustment

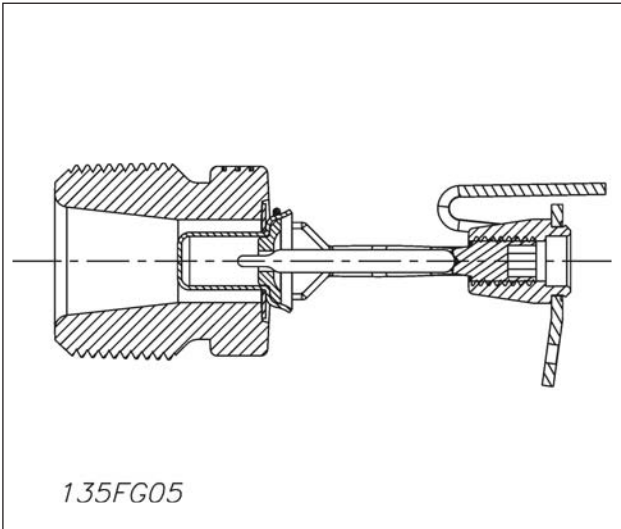


Fig. 6

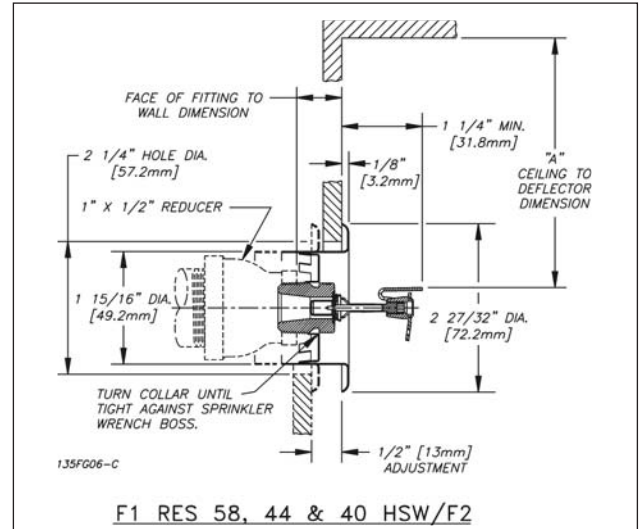


Fig. 7

Technical Data: F1 Res 40 HSW & HSW/F2

Escutcheon, F2, Data:

Thread Size	Sprinkler Temp. Rating		Max. Pressure psi (bar)	Max. Ambient Temp.		K Factor	Sprinkler Length Inch (mm)
	°F	°C		°F	°C		
1/2" NPT (R1/2)	155 175	68 79	175 (12)	100 150	38 66	4.0	2.45 (62)

Type	Adjustment Inch (mm)	Face of Fitting to wall Inch (mm)
F2	1/2 (13)	3/16 - 1/16 (4.7 - 17.4)

Max. Sprinkler Spacing ft (m)	"A" Ceiling to-Deflector Inch (mm)	Sprinkler Temp. Rating °F (°C)		Flow gpm (Lpm)	Pressure psi (bar)	Sprinkler Identification Number (SIN)
12 x 12 (3.6x3.6)	4 - 6 (101-152)	155 (68)	175 (79)	13 (49.0)	10.6 (0.73)	
14 x 14 (4.3x4.3)		155 (68)	175 (79)	16 (60.5)	16.0 (1.10)	
16 x 16 (4.9x4.9)		155 (68)		17 (64.3)	18.1 (1.24)	
16 x 16 (4.9x4.9)			175 (79)	18 (68.1)	20.2 (1.39)	
16 x 18 (4.9x5.5)		155 (68)	175 (79)	20 (75.7)	25.0 (1.72)	
18 x 18 (5.5x5.5)		155 (68)	175 (79)	22 (83.3)	30.2 (2.08)	
16 x 20 (4.9x6.1)		155 (68)	175 (79)	23 (87.0)	33.1 (2.28)	
12 x 12 (3.6x3.6)	6 - 12 (152-305)	155 (68)	175 (79)	13 (49.0)	10.6 (0.73)	
14 x 14 (4.3x4.3)		155 (68)	175 (79)	17 (64.3)	18.1 (1.24)	
16 x 16 (4.9x4.9)		155 (68)	175 (79)	20 (75.7)	25.0 (1.72)	

Finishes⁽¹⁾

Standard Finishes	
Sprinkler	F1, F2, FP Escutcheons
Bronze Chrome Plated White Polyester Coated	Brass Bright Chrome Plated White Painted
Special Application Finishes	
Sprinkler	F1, F2, Escutcheons
Bright Brass Black Plated Black Paint Off White Satin Chrome	Bright Brass Black Plated Black Paint Off White Satin Chrome

⁽¹⁾ Other finishes and colors are available on special order. Consult factory for details.

Ordering Information

Specify:

1. Sprinkler Model
2. Sprinkler Type
3. Temperature Rating
4. Sprinkler Finish
5. Escutcheon Finish

Maintenance

Model F1 Res 49, F1 Res 58, F1 Res 44 and F1 Res 40 Sprinklers should be inspected quarterly, and the sprinkler system maintained in accordance with NFPA 25, 13, 13D, and 13R. Do not clean sprinkler with soap and water, Ammonia or any other cleaning fluids. Remove dust by using a soft brush or gentle vacuuming. Remove any sprinkler which has been painted (other than factory applied) or damaged in any way. A stock of spare sprinklers should be maintained to allow quick replacement of damaged or operated sprinklers. Prior to installation, sprinklers should remain in the original cartons and packaging until used. This will minimize the potential for damage to sprinklers that could cause improper operation or non-operation.

Model F1RES 49 Residential Sprinkler Specifications

Model F1 Res 49 Pendent

Sprinklers shall be [cULus Listed] [New York City MEA Approved (258-93-E)] low flow residential pendent sprinklers engineered to provide a minimum design density of 0.05 gpm/ft² over the listed coverage area. Listed flows as specified by the manufacturer's technical data sheets are to be used. Residential sprinklers shall be installed in conformance with the manufacturer's installation guidelines and the applicable installation standard. Where pendent residential sprinklers are installed under sloped ceilings having a pitch of up to [4/12] [8/12], the sprinklers shall be listed for such use. Deflector-to-ceiling distance listing shall be 1" to 8" maximum. Sprinkler frame and deflector shall be of bronze frame construction having a 1/2" NPT thread. Water seal assembly shall consist of a Teflon-coated Belleville spring washer and top-loaded extruded cup with 3 mm glass bulb containing no plastic parts, and having a temperature rating of [155°F (68°C)] [175°F (79°C)]. Sprinklers shall have a nominal K-factor of 4.9 (70). Standard finish: [Bronze] [Chrome-plated] [White Polyester] [Special finish—specify]. Residential pendent sprinklers shall be Reliable Model F1 Res 49, SIN R3516 (Bulletin 135).

Model F1 Res 49 Recessed Pendent/F1, Model F1 Res 49 Recessed Pendent/F2, Model F1 Res 49 Recessed Pendent/FP

Sprinklers shall be [cULus Listed] [New York City MEA Approved (258-93-E)] low flow residential recessed pendent sprinklers engineered to provide a minimum design density of 0.05 gpm/ft² over the listed coverage area. Listed flows as specified by the manufacturer's technical data sheets are to be used. Residential sprinklers shall be installed in conformance with the manufacturer's installation guidelines and the applicable installation standard. Where pendent residential sprinklers are installed under sloped ceilings having a pitch of up to [4/12] [8/12], the sprinklers shall be listed for such use. Deflector-to-ceiling distance listing shall be 1" to 8" maximum. Sprinkler frame and deflector shall be of bronze frame construction having a 1/2" NPT thread. Water seal assembly shall consist of a Teflon-coated Belleville spring washer and top-loaded extruded cup with 3 mm glass bulb containing no plastic parts, and having a temperature rating of [155°F (68°C)] [175°F (79°C)]. Sprinklers shall have a nominal K-factor of 4.9 (70). Standard finish: [Bronze] [Chrome-plated] [White Polyester] [Special finish—specify]. Recessed escutcheon assembly shall be a steel, two-piece escutcheon [with 1/2" adjustment (Model F2)] [with 3/4" adjustment (Model F1)] [of push-on and thread off design with 1/2" adjustment (Model FP)]. Standard finish shall be [brass][bright chrome] [white painted]. Residential recessed pendent sprinklers shall be Reliable [Model F1 Res 49 Recessed Pendent/F1] [Model F1 Res 49 Recessed Pendent/F2] [Model F1 Res 49 Recessed Pendent/FP] SIN R3516 (Bulletin 135).

Model F1 Res 49 CCP Pendent (Concealed)

Sprinklers shall be [cULus Listed] [New York City MEA Approved (258-93-E)] low flow residential concealed sprinklers engineered to provide a minimum design density of 0.05 gpm/ft² over the listed coverage area. Listed flows as specified by the manufacturer's technical data sheets are to be used. Residential sprinklers shall be installed in conformance with the manufacturer's installation guidelines and the applicable installation standard. Where pendent residential sprinklers are installed under sloped ceilings having a pitch of up to [4/12] [8/12], the sprinklers shall be listed for such use. Sprinkler frame and deflector shall be of bronze frame construction having a ½" NPT thread. Water seal assembly shall consist of a Teflon-coated Belleville spring washer and top-loaded extruded cup with 3 mm glass bulb containing no plastic parts, and having a temperature rating of 155°F (68°C). Cover plate assembly shall consist of a brass cover plate and copper alloy retainer flange. Method of attaching the cover plate to the sprinkler cup shall be a push-on and thread-off design allowing a ½" cover plate adjustment. Cover plate temperature rating shall be 135°F (57°C). A plastic protective cap shall be provided and factory installed inside the sprinkler cup to protect the sprinkler from damage, which could occur during construction before the cover plate is installed. Standard cover plate finish: [White] [Custom Color– specify]. Concealed pendent sprinklers shall be Reliable Model F1 Res 49 CCP, SIN R3516 (Bulletin 135).

Model F1RES 40 and F1 Res 44 Horizontal Sidewall

Residential Sprinkler Specifications

Model F1 Res 40 Horizontal Sidewall Sprinkler

Sprinklers shall be [cULus Listed] [New York City MEA Approved (258-93-E)] low flow residential horizontal sidewall sprinklers engineered to provide a minimum design density of 0.05 gpm/ft² over the listed coverage area. Listed flows as specified by the manufacturer's technical data sheets are to be used. Residential sprinklers shall be installed in conformance with the manufacturer's installation guidelines and the applicable installation standard. Where horizontal sidewall residential sprinklers are installed under sloped ceilings having a pitch of up to [4/12] [8/12], the sprinklers shall be listed for such use. Sprinkler frame and deflector shall be of bronze frame construction having a ½" NPT thread. Water seal assembly shall consist of a Teflon-coated Belleville spring washer and top-loaded extruded cup with 3 mm glass bulb containing no plastic parts, and having a

temperature rating of [155°F (68°C)] [175°F (79°C)]. Sprinklers shall have a nominal K-factor of 4.0 (57.1). Standard finish: [Bronze] [Chrome-plated] [White Polyester] [Special finish– specify]. Residential horizontal sidewall sprinklers shall be Reliable Model F1 Res 40, SIN R3538 (Bulletin 135).

Model F1 Res 40 Recessed Horizontal Sidewall Sprinkler

Use description for the Model F1 Res 40 horizontal sidewall sprinkler with the following modifications: Replace "horizontal sidewall sprinkler" with "recessed horizontal sprinkler." Add: Recessed escutcheon assembly shall be a steel, two-piece escutcheon with ½" adjustment (Model F2). Standard finish shall be [brass][bright chrome] [white painted] [Special finish– specify]. Residential recessed horizontal sidewall sprinklers shall be Reliable Model F1 Res 40/F2, SIN R3538 (Bulletin 135).

Model F1 Res 44 Horizontal Sidewall Sprinkler

Sprinklers shall be [cULus Listed] [New York City MEA Approved (258-93-E)] low flow residential horizontal sidewall sprinklers engineered to provide a minimum design density of 0.05 gpm/ft² over the listed coverage area. Listed flows as specified by the manufacturer's technical data sheets are to be used. Residential sprinklers shall be installed in conformance with the manufacturer's installation guidelines and the applicable installation standard. Where horizontal sidewall residential sprinklers are installed under sloped ceilings having a pitch of up to [4/12] [8/12], the sprinklers shall be listed for such use. Sprinkler frame and deflector shall be of bronze frame construction having a ½" NPT thread. Water seal assembly shall consist of a Teflon-coated Belleville spring washer and top-loaded extruded cup with 3 mm glass bulb containing no plastic parts, and having a temperature rating of [155°F (68°C)] [175°F (79°C)]. Sprinklers shall have a nominal K-factor of 4.4 (62.8). Standard finish: [Bronze] [Chrome-plated] [White Polyester] [Special finish– specify]. Residential horizontal sidewall sprinklers shall be Reliable Model F1 Res 44, SIN R3531 (Bulletin 135).

Model F1 Res 44 Recessed Horizontal Sidewall Sprinkler

Use description for the Model F1 Res 44 horizontal sidewall sprinkler with the following modifications: Replace "horizontal sidewall sprinkler" with "recessed horizontal sprinkler." Add: Recessed escutcheon assembly shall be a steel, two-piece escutcheon with ½" adjustment (Model F2). Standard finish shall be [brass][bright chrome] [white painted] [Special finish– specify]. Residential recessed horizontal sidewall sprinklers shall be Reliable Model F1 Res 44/F2, SIN R3531 (Bulletin 135).

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The equipment presented in this bulletin is to be installed in accordance with the latest pertinent Standards of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances, whenever applicable.

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