

Reliable offers one-stop shopping for all your residential fire sprinkler needs.

The Reliable Residential Riser

- Stainless Steel body construction.
- All brass trim and factory assembled.
- Listed by cULus.
- Optional pressure relief and bracket.
- Available in 1", 1.5" and 2".
- Request Bulletin 416 for further details.



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Residential Fire Protection by
RELIABLE



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www.reliablesprinkler.com
The Reliable Automatic Sprinkler Co., Inc.
Manufacturer & Distributor of Fire Protection Equipment

P/N: 9999970264 10/2005

Residential Fire Sprinklers engineered for the lowest flows to meet the minimum design density of .05 gpm/ft.²

With K Factors of 4.9, 4.4 & 4.3. Primarily used for NFPA 13D & 13R.



The F1RES 49 Pendent & Recessed Pendent:

- Pendent & Recessed Pendent.
- White, Chrome, Brass and Black Finishes.
- Basic low cost sprinkler, that is still small & attractive.
- Approved for up to 8 inches below the ceiling.

The F1RES 49 Pendent & Rec Pendent:

Sprinkler Model	Technical Bulletin Number	Sprinkler Identification Number (SIN)	Nominal K Factor	Temperature °F (°C)	Thread Size in. (mm)	Max. Pressure (bar)	Max. Adjustment in. (mm)	Flows Required for Single Sprinkler Demand (Pressures)						
								12' x 12' (3,6 x 3,6)	14' x 14' (4,3 x 4,3)	16' x 16' (4,9 x 4,9)	16' x 18' (4,9 x 5,5)	18' x 18' (5,5 x 5,5)	16' x 20' (4,9 x 6,1)	20' x 20' (6,1 x 6,1)
F1RES 49 Pendent & Recessed Pendent	135	R3516	4.9	155 (68) & 175 (79)	1/2 (13)	175 psi (12)	3/4 (19)	13 gpm (7.0 psi)	13 gpm (7.0 psi)	13 gpm (7.0 psi)	—	17 gpm (12.0 psi)	—	20 gpm (16.7 psi)



The RFC43 Concealer:

- A Flat Concealed Coverplate.
- White, Chrome & Custom Finishes.
- The lowest in water flow for a flat plate design.

The RFC43 Concealer:

Sprinkler Model	Technical Bulletin Number	Sprinkler Identification Number (SIN)	Nominal K Factor	Temperature °F (°C)	Thread Size in. (mm)	Max. Pressure (bar)	Max. Adjustment in. (mm)	Flows Required for Single Sprinkler Demand (Pressures)						
								12' x 12' (3,6 x 3,6)	14' x 14' (4,3 x 4,3)	16' x 16' (4,9 x 4,9)	16' x 18' (4,9 x 5,5)	18' x 18' (5,5 x 5,5)	16' x 20' (4,9 x 6,1)	20' x 20' (6,1 x 6,1)
RFC43	006	RA0612	4.3	165 (74)	1/2 (13)	175 psi (12)	1/2 (13)	12 gpm (7.8psi)	13 gpm (9.1psi)	13 gpm (9.1psi)	—	18 gpm (17.5psi)	—	21 gpm (23.8 psi)



The F1RES 49 CCP:

- The Conical Concealed Sprinkler.
- White, Chrome & Custom Finishes.
- The low cost concealed sprinkler with a futuristic design.
- * Pressures & flows also apply to FP Escutcheon

The F1RES 49 CCP:

Sprinkler Model	Technical Bulletin Number	Sprinkler Identification Number (SIN)	Nominal K factor	Temperature °F (°C)	Thread Size in. (mm)	Max. Pressure (bar)	Max. Adjustment in. (mm)	Flows Required for Single Sprinkler Demand (Pressures)						
								12' x 12' (3,6 x 3,6)	14' x 14' (4,3 x 4,3)	16' x 16' (4,9 x 4,9)	16' x 18' (4,9 x 5,5)	18' x 18' (5,5 x 5,5)	16' x 20' (4,9 x 6,1)	20' x 20' (6,1 x 6,1)
F1RES 49 CCP	135	R3516	4.9	155 (68)	1/2 (13)	175 psi (12)	1/2 (13) or 3/16 (5)	13 gpm (7.0 psi)	13 gpm (7.0 psi)	14 gpm (8.2 psi)	—	18 gpm (13.5psi)	—	20 gpm (16.7 psi)



The F1RES 44 HSW & Recessed HSW:

- Sidewall & Recessed Sidewall.
- White, Chrome, Brass and Black Finishes.
- Protection when sprinklers cannot be installed in the ceiling.
- cULus Listed for up to 12" (305mm) below the ceiling.

The F1RES 44 HSW & Recessed HSW:

Sprinkler Model	Technical Bulletin Number	Sprinkler Identification Number (SIN)	Nominal K factor	Temperature °F (°C)	Thread Size in. (mm)	Max. Pressure (bar)	Max. Adjustment in. (mm)	Flows Required for Single Sprinkler Demand (Pressures)						
								12' x 12' (3,6 x 3,6)	14' x 14' (4,3 x 4,3)	16' x 16' (4,9 x 4,9)	16' x 18' (4,9 x 5,5)	18' x 18' (5,5 x 5,5)	16' x 20' (4,9 x 6,1)	20' x 20' (6,1 x 6,1)
F1RES 44 HSW	135	R3531	4.4	155 (68) & 175 (79)	1/2 (13)	175 psi (12)	1/2 (13)	12 gpm (7.5 psi)	14 gpm (10.2 psi)	16 gpm (13.3 psi)	18 gpm (16.8 psi)	19 gpm (18.7 psi)	23 gpm (27.4 psi)	—



The F1RES 44 SWC (Sidewall, Concealed):

- Flows equal to or only slightly higher than the RES 44 HSW.
- cULus Listed for up to 12" (305mm) below the ceiling.
- The slot-less coverplate provides protection to the thermal element.
- 155°F (68°C) sprinkler 135°F (57°C) coverplate.

The F1RES 44 SWC:

Sprinkler Model	Technical Bulletin Number	Sprinkler Identification Number (SIN)	Nominal K factor	Temperature °F (°C)	Thread Size in. (mm)	Max. Pressure (bar)	Max. Adjustment in. (mm)	Flows Required for Single Sprinkler Demand (Pressures)						
								12' x 12' (3,6 x 3,6)	14' x 14' (4,3 x 4,3)	16' x 16' (4,9 x 4,9)	16' x 18' (4,9 x 5,5)	18' x 18' (5,5 x 5,5)	16' x 20' (4,9 x 6,1)	20' x 20' (6,1 x 6,1)
F1RES 44 SWC	135	R3531	4.4	155 (68)	1/2 (13)	175 psi (12)	1/2 (13)	13 gpm (8.7 psi)	14 gpm (10.2 psi)	17 gpm (15.0 psi)	19 gpm (18.7 psi)	—	23 gpm (27.4 psi)	—

Residential Fire Sprinklers approved for a minimum density of .05 gpm/ft.²

With K Factors of 5.8 & 5.6 Provides lower pressure demands for 0.10 densities in NFPA 13 residential applications.



The F1RES 58 Pendant & Recessed Pendant:

- K factor of 5.8 allows for lower pressures at .10 design density.
- Approved with F1 esutheon for a 3/4" (19mm) adjustment.
- cULus Listed at 155°F (68°C) & 175°F (79°C).
- Great flows at .05 density for a sprinkler larger than K of 5.0.

The F1RES 58 Pendant & Rec Pendant:

Sprinkler Model	Technical Bulletin Number	Sprinkler Identification Number (SIN)	Nominal K factor	Temperature °F (°C)	Thread Size in. (mm)	Max. Pressure (bar)	Max. Adjustment in. (mm)	Flows Required for Single Sprinkler Demand (Pressures)						
								12' x 12' (3,6 x 3,6)	14' x 14' (4,3 x 4,3)	16' x 16' (4,9 x 4,9)	16' x 18' (4,9 x 5,5)	18' x 18' (5,5 x 5,5)	16' x 20' (4,9 x 6,1)	20' x 20' (6,1 x 6,1)
F1RES 58 Pendant & Recessed Pendant	135	R3513	5.8	155 (68) & 175 (79)	1/2 (13)	175 psi (12)	3/4 (19)	16 gpm (7.6 psi)	16 gpm (7.6 psi)	16 gpm (7.6 psi)	—	19 gpm (10.8 psi)	—	22 gpm (14.4 psi)



The RFC56 Concealer:

- K factor of 5.6 allows for lower pressures at .10 design density.
- Approved with F2 esutheon for a 1/2" (13mm) adjustment.
- cULus Listed at 165°F (74°C) with 135°F (57°C) coverplate.
- Replaces the F4RES.
- Uses a fast response, solder element.

The RFC56 Concealer:

Sprinkler Model	Technical Bulletin Number	Sprinkler Identification Number (SIN)	Nominal K factor	Temperature °F (°C)	Thread Size in. (mm)	Max. Pressure (bar)	Max. Adjustment in. (mm)	Flows Required for Single Sprinkler Demand (Pressures)						
								12' x 12' (3,6 x 3,6)	14' x 14' (4,3 x 4,3)	16' x 16' (4,9 x 4,9)	16' x 18' (4,9 x 5,5)	18' x 18' (5,5 x 5,5)	16' x 20' (4,9 x 6,1)	20' x 20' (6,1 x 6,1)
RFC56	009	RA0914	5.6	165 (74)	1/2 (13)	175 psi (12)	1/2 (13)	26 gpm (21.6 psi)	26 gpm (21.6 psi)	26 gpm (21.6 psi)	—	—	—	—

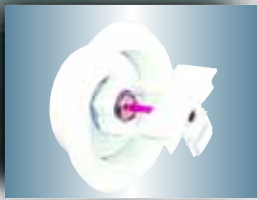


The F1RES 58 CCP:

- The Conical Concealed Sprinkler.
- White, Chrome & Custom Finishes.
- The low cost concealed sprinkler with a futuristic design.

The F1RES 58 CCP:

Sprinkler Model	Technical Bulletin Number	Sprinkler Identification Number (SIN)	Nominal K factor	Temperature °F (°C)	Thread Size in. (mm)	Max. Pressure (bar)	Max. Adjustment in. (mm)	Flows Required for Single Sprinkler Demand (Pressures)						
								12' x 12' (3,6 x 3,6)	14' x 14' (4,3 x 4,3)	16' x 16' (4,9 x 4,9)	16' x 18' (4,9 x 5,5)	18' x 18' (5,5 x 5,5)	16' x 20' (4,9 x 6,1)	20' x 20' (6,1 x 6,1)
F1RES 58 CCP	135	R3513	5.8	155 (68) & 175 (79)	1/2 (13)	175 psi (12)	1/2 (13)	16 gpm (7.6 psi)	16 gpm (7.6 psi)	16 gpm (7.6 psi)	—	19 gpm (10.8 psi)	—	22 gpm (14.4 psi)



The F1RES 58 HSW & Recessed HSW:

- K factor of 5.8 allows for lower pressures at .10 design density.
- Approved with F2 esutheon for a 1/2" (13mm) adjustment.
- cULus Listed at 155°F (68°C) and 175°F (79°C).
- Great flows at .05 density for a sprinkler larger than K of 5.0.
- cULus Listed for up to 12" (305mm) below the ceiling.

The F1RES 58 HSW & Recessed HSW:

Sprinkler Model	Technical Bulletin Number	Sprinkler Identification Number (SIN)	Nominal K factor	Temperature °F (°C)	Thread Size in. (mm)	Max. Pressure (bar)	Max. Adjustment in. (mm)	Flows Required for Single Sprinkler Demand (Pressures)						
								12' x 12' (3,6 x 3,6)	14' x 14' (4,3 x 4,3)	16' x 16' (4,9 x 4,9)	16' x 18' (4,9 x 5,5)	18' x 18' (5,5 x 5,5)	16' x 20' (4,9 x 6,1)	20' x 20' (6,1 x 6,1)
F1RES 58 Pendant & Recessed HSW	135	R3533	5.8	155 (68) & 175 (79)	1/2 (13)	175 psi (12)	1/2 (13)	16 gpm (7.6 psi)	18 gpm (9.7 psi)	21 gpm (13.2 psi)	25 gpm (18.6 psi)	—	29 gpm (25 psi)	—

Most of Reliable's Residential sprinklers have sloped ceiling approvals for up to 4/12 & 8/12 pitch.
We have the best combinations of flows and pressures.
See Technical Bulletin 035 for design requirements.

Finishes:

We offer all of our Residential Sprinklers in a variety of finishes. Custom finishes can also be done. Please allow additional time. All custom finishes must be done by Reliable.
For additional information on our Residential Sprinklers, please see
• Technical Bulletin 140 for Design and Installation Guide
• Technical Bulletin 007 for Wall Wetting Patterns

Sprinklers are just one part of the residential fire sprinkler system.

Reliable has a complete line of Sprinkler Accessories to fill your residential needs.

- CPVC Pipe & Fittings
- Riser Assemblies
- Hangers
- Valves
 - Globe Valves
 - Ball Valves
 - Check Valves
 - Back Flow Prevention Valves
- Waterflow Detectors
- Electric Bells
- Escutcheons
- Coverplates
- Sprinkler Wrenches
- Sprinkler Cabinets
- Teflon Tape
- Sealant
- Fire Department Connections

