









RESIDENTIAL SPRINKLER QUICK REFERENCE GUIDE

Viking offers the most complete line of residential sprinklers that have received cULus Listings to the UL 1626 Test Standard. Check specific product data sheets on our website at vikinggroupinc.com for the most current information.

Pendent and Recessed Pendent Sprinklers		Room Size	Horizontal Ceiling		Sloped Ceiling 8/12	
Available in 155°F and 175°F; Recessed adjustment up to 5/8"		ft/m	Flow gpm/lpm	Pressure psi/kPa	Flow gpm/lpm	Pressure psi/kPa
 3.1 (45) K-factor	VK435, Part No. 13203 Tech Data Page Sprinkler 141g <ul style="list-style-type: none"> Enables two-head design with flows less than 20 gpm (75,7 lpm) Can optimize NFPA 13 residential designs when combined with larger K-factor residential sprinklers 	12 x 12 (3,7x3,7)	9 (34)	8.4 (58)	N/A	N/A
		14 x 14 (4,3x4,3)	10 (38)	10.4 (72)	N/A	N/A
 4.3 (62) K-factor	VK430, Part No. 09530 Tech Data Page Sprinkler 141o <ul style="list-style-type: none"> Continually listed by UL since 1995 	12 x 12 (3,7x3,7)	12 (45)	7.8 (54)	18 (68)	17.5 (121)
		14 x 14 (4,3x4,3)	13 (49)	9.1 (63)	18 (68)	17.5 (121)
		16 x 16 (4,9x4,9)	13 (49)	9.1 (63)	18 (68)	17.5 (121)
		18 x 18 (5,5x5,5)	17 (64)	15.6 (108)	N/A	N/A
		20 x 20 (6,1x6,1)	21 (80)	23.9 (164)	N/A	N/A
 4.9 (71) K-factor	VK468, Part No. 13637 Tech Data Page Sprinkler 149m <ul style="list-style-type: none"> Listed with beam ceilings up to 14" 	12 x 12 (3,7x3,7)	13 (49)	7.0 (48)	21 (80)	18.4 (127)
		14 x 14 (4,3x4,3)	13 (49)	7.0 (48)	21 (80)	18.4 (127)
		16 x 16 (4,9x4,9)	13 (49)	7.0 (48)	21 (80)	18.4 (127)
		18 x 18 (5,5x5,5)	17 (64)	12.0 (83)	21 (80)	18.4 (127)
		20 x 20 (6,1x6,1)	20 (76)	16.7 (115)	21 (80)	18.4 (127)
 5.2 (75) K-factor	VK466, Part No. 13781 Tech Data Page Sprinkler 141j <ul style="list-style-type: none"> Listed with beam ceilings up to 14" 	12 x 12 (3,7x3,7)	14 (53)	7.2 (50)	20 (76)	14.8 (102)
		14 x 14 (4,3x4,3)	14 (53)	7.2 (50)	20 (76)	14.8 (102)
		16 x 16 (4,9x4,9)	14 (53)	7.2 (50)	20 (76)	14.8 (102)
		18 x 18 (5,5x5,5)	17 (64)	10.7 (74)	20* (76)	14.8 (102)
		20 x 20 (6,1x6,1)	21 (76)	16.3 (112)	20* (76)	14.8 (102)
*Flows shown for 155°F/68°C; 175°F/79°C.						
 5.8 (84) K-factor	VK472, Part No. 16130 Tech Data Page Sprinkler 148o <ul style="list-style-type: none"> Larger K-factor provides lower starting pressure in NFPA 13 applications (0.1 density) 	12 x 12 (3,7x3,7)	16 (61)	7.6 (52)		
		14 x 14 (4,3x4,3)	16 (61)	7.6 (52)		
		16 x 16 (4,9x4,9)	16 (61)	7.6 (52)		
		18 x 18 (5,5x5,5)	17 (64)	8.6 (59)		
		20 x 20 (6,1x6,1)	21 (80)	13.1 (90)		
 7.4 (107) K-factor	VK458, Part No. 13230 Tech Data Page Sprinkler 140u <ul style="list-style-type: none"> Larger K-factor provides lower starting pressure in NFPA 13 applications (0.1 density) 	12 x 12 (3,7x3,7)	20 (76)	7.3 (50)	20* (76)	7.3 (50)
		14 x 14 (4,3x4,3)	20 (76)	7.3 (50)	20* (76)	7.3 (50)
		16 x 16 (4,9x4,9)	20 (76)	7.3 (50)	20* (76)	7.3 (50)
		18 x 18 (5,5x5,5)	23 (83)	8.8 (61)	23* (87)	9.7 (67)
		20 x 20 (6,1x6,1)	24 (91)	10.5 (73)	24* (91)	10.5 (73)
*Flows shown for 155°F/68°C; see data page for flows at 175°F/79°C.						

All application information is for smooth, flat, horizontal ceilings [up to and including 2" in 12" (9.5°) slopes] unless otherwise noted.

Flush Pendent Sprinklers

Adjustment up to 5/8" with ceiling ring (bpn 15618)



4.9 (71)
K-factor

VK476, Part No. 15630A

Tech Data Page Sprinkler 145h

- Sprinkler temp = 165°F/74°C
- Listed for ceilings with beams up to 14" in depth; see data sheet for complete design and installation guidelines
- Sprinkler and outer ring sold together

Room Size ft/m	Horizontal Ceiling		Sloped Ceiling 4/12	
	Flow gpm/lpm	Pressure psi/kPa	Flow gpm/lpm	Pressure psi/kPa
12 x 12 (3,7x3,7)	13 (49)	7.0 (48)	24 (91)	24.0 (165)
14 x 14 (4,3x4,3)	13 (49)	7.0 (48)	24 (91)	24.0 (165)
16 x 16 (4,9x4,9)	13 (49)	7.0 (48)	24 (91)	24.0 (165)
18 x 18 (5,5x5,5)	17 (64)	12.0 (83)	24 (91)	24.0 (165)
20 x 20 (6,1x6,1)	21 (80)	18.4 (127)	24 (91)	24.0 (165)

Flat Plate Concealed Pendent Sprinklers

Cover Plate Temp = 135°F; Adjustment up to 1/2"



4.9 (71)
K-factor

VK457, Part No. 14694A

Tech Data Page Sprinkler 147u

- Sprinkler temp = 165°F/74°C
- Available with either standard, large or square cover plate

Room Size ft/m	Horizontal Ceiling		Sloped Ceiling 8/12	
	Flow gpm/lpm	Pressure psi/kPa	Flow gpm/lpm	Pressure psi/kPa
12 x 12 (3,7x3,7)	13 (49)	7.0 (48)	26 (98)	28.2 (194)
14 x 14 (4,3x4,3)	13 (49)	7.0 (48)	26 (98)	28.2 (194)
16 x 16 (4,9x4,9)	13 (49)	7.0 (48)	26 (98)	28.2 (194)
18 x 18 (5,5x5,5)	17 (64)	12.0 (83)	31 (117)	40.0 (276)
20 x 20 (6,1x6,1)	20 (76)	16.7 (115)	31 (117)	40.0 (276)



5.8 (84)
K-factor

VK474, Part No. 15790A

Tech Data Page Sprinkler 148h

- Sprinkler temp = 165°F/74°C
- Available with either standard, large or square cover plate
- Larger K-factor provides lower starting pressure in NFPA 13 applications (0.1 density)

12 x 12 (3,7x3,7)	16 (61)	7.6 (52)
14 x 14 (4,3x4,3)	16 (61)	7.6 (52)
16 x 16 (4,9x4,9)	16 (61)	7.6 (52)
18 x 18 (5,5x5,5)	19 (72)	10.7 (74)
20 x 20 (6,1x6,1)	23 (87)	15.7 (110)

Domed Concealed Pendent Sprinklers

Cover Plate Temp = 135°F; Adjustment up to 1/2"



4.9 (71)
K-factor

VK468-D, Part No. 13637A-X, 12207

Tech Data Page Sprinkler 150u

- Sprinkler temp = 155°F/68°C and 175°F/79°C

Room Size ft/m	Horizontal Ceiling		Sloped Ceiling 8/12	
	Flow gpm/lpm	Pressure psi/kPa	Flow gpm/lpm	Pressure psi/kPa
12 x 12 (3,7x3,7)	13 (49)	7.0 (48)	26 (98)*	28.2 (194)
14 x 14 (4,3x4,3)	13 (49)	7.0 (48)	26 (98)*	28.2 (194)
16 x 16 (4,9x4,9)	13 (49)	7.0 (48)	26 (98)*	28.2 (194)
18 x 18 (5,5x5,5)	17 (64)	12.0 (83)	26 (98)*	28.2 (194)
20 x 20 (6,1x6,1)	20 (77)	16.7 (115)	26 (98)*	28.2 (194)

*Sloped ceiling listing for 155°F/68°C only.



5.2 (75)
K-factor

VK466-D, Part No. 13781A-X, 12207

Tech Data Page Sprinkler 141r

- Sprinkler temp = 155°F/68°C and 175°F/79°C

12 x 12 (3,7x3,7)	14 (53)	7.2 (50)	23 (87)	19.6 (135)
14 x 14 (4,3x4,3)	14 (53)	7.2 (50)	23 (87)	19.6 (135)
16 x 16 (4,9x4,9)	14 (53)	7.2 (50)	23 (87)	19.6 (135)
18 x 18 (5,5x5,5)	17 (64)	10.7 (74)	23 (87)	19.6 (135)
20 x 20 (6,1x6,1)	20 (76)	14.8 (102)	23 (87)	19.6 (135)



7.4 (107)
K-factor

VK458-D, Part No. 13230ABX, 12207

Tech Data Page Sprinkler 142u

- Sprinkler temp = 155°F/68°C
- Larger K-factor provides lower starting pressure in NFPA 13 applications (0.1 density)

12 x 12 (3,7x3,7)	20 (77)	7.3 (50)	22 (83)	8.8 (61)
14 x 14 (4,3x4,3)	20 (76)	7.3 (50)	22 (83)	8.8 (61)
16 x 16 (4,9x4,9)	20 (76)	7.3 (50)	22 (83)	8.8 (61)
18 x 18 (5,5x5,5)	23 (87)	9.7 (67)	28 (106)	14.3 (99)
20 x 20 (6,1x6,1)	28 (106)	14.3 (99)	28 (106)	14.3 (99)

Horizontal Sidewall Sprinklers

Available in 155°F and 175°F; Recessed adjustment up to 5/8"

Room Size
ft/m

4–6" Down
From Ceiling

Flow
gpm/lpm

Pressure
psi/kPa

6–12" Down
From Ceiling

Flow
gpm/lpm

Pressure
psi/kPa



VK486, Part No. 17315 Tech Data Page Sprinkler 156v

4.0 (58)
K-factor

- Patented "flow shaper" design provides the ultimate combination of low flows and starting pressures
- Lowest flow rate in the industry

12 x 12 (3,7x3,7)	11 (42)	7.6 (52)	12 (46)	9.0 (62)
14 x 14 (4,3x4,3)	12 (46)	9.0 (62)	12 (46)	9.0 (62)
16 x 16 (4,9x4,9)	13 (49)	10.6 (73)	14 (53)	12.3 (85)
16 x 18 (4,9x5,5)	16 (61)	16 (110)	16 (61)	16 (110)
16 x 20 (4,9x6,1)	22 (83)	30.3 (209)	23 (87)	33.1 (228)
16 x 22 (4,9x6,7)	24 (91)	36 (248)	26 (98)	42.3 (291)
18 x 18 (5,5x5,5)	18 (68)	20.3 (140)	18 (68)	20.3 (140)
18 x 20 (5,5x6,1)	22 (83)	30.3 (209)	23 (87)	33.1 (228)
20 x 20 (6,1x6,1)	22 (83)	30.3 (209)	24 (91)	36 (248)



VK484, Part No. 16240 Tech Data Page Sprinkler 144h

4.2 (60)
K-factor

- Also listed for sloped ceilings up to a 4/12 (18°) pitch; see technical data sheet for details

12 x 12 (3,7x3,7)	13 (49)	9.6(66)	14 (53)	11.1 (77)
14 x 14 (4,3x4,3)	14 (53)	11.1 (77)	16 (61)	14.5 (100)
16 x 16 (4,9x4,9)	16 (61)	14.5 (100)	18 (68)	18.4 (127)
16 x 18 (4,9x5,5)	19 (72)	20.5 (141)	20 (76)	22.7 (156)
16 x 20 (4,9x6,1)	22 (83)	27.4 (189)	25 (95)	35.4 (244)



VK460, Part No. 13933 Tech Data Page Sprinkler 152a

5.8 (84)
K-factor

- Patented "flow shaper" design provides the ultimate combination of low flows and starting pressures
- Larger K-factor provides lower starting pressure in NFPA 13 applications (0.1 density)

12 x 12 (3,7x3,7)	16 (61)	7.6 (52)	16 (61)	7.6 (52)
14 x 14 (4,3x4,3)	16 (61)	7.6 (52)	18 (68)	9.7 (67)
14 x 26 (4,3x7,9)	42 (159)	52.4 (362)	46 (174)	62.9 (434)
16 x 16 (4,9x4,9)	20 (76)	11.9 (82)	24 (91)	17.1 (120)
16 x 18 (4,9x5,5)	22 (83)	14.4 (99)	27 (102)	21.7 (149)
16 x 20 (4,9x6,1)	26 (98)	20.1 (139)	32 (121)	30.4 (210)
16 x 22 (4,9x6,7)	31 (117)	28.6 (197)	37 (140)	40.7 (281)
16 x 24 (4,9x7,3)	38 (144)	42.9 (296)	42 (159)	52.4 (362)
18 x 18 (5,5x5,5)	23 (87)	15.7 (110)	29 (110)	25 (170)
18 x 20 (5,5x6,1)	29 (110)	25.0 (170)	35 (133)	36.4 (251)
20 x 20 (6,1x6,1)	30 (114)	26.8 (180)	36 (136)	38.5 (266)

*Flows shown for 155°F/68°C; 175°F/79°C.

Flat Plate Concealed HSW Sprinklers

Cover plate temp = 135°F

Room Size
ft/m

4–6" Down
From Ceiling

Flow
gpm/lpm

Pressure
psi/kPa

6–12" Down
From Ceiling

Flow
gpm/lpm

Pressure
psi/kPa



VK480, Part No. 16116AC Tech Data Page Sprinkler 153a

4.0 (58)
K-factor

- Sprinkler temp = 165°F/74°C
- Use cover plate 16207MA/W

12 x 12 (3,7x3,7)	11 (42)*	7.6 (52)	12 (46)**	9.0 (62)
14 x 14 (4,3x4,3)	13 (49)*	10.6 (73)	14 (53)**	12.3 (84)
16 x 16 (4,9x4,9)	16 (61)*	16.0 (110)	16 (61)**	16.0 (110)
16 x 18 (4,9x5,5)	17 (64)*	18.1 (125)	18 (68)**	20.3 (140)

*Centerline of the sprinkler located 4-3/8" to 6-3/8" below the ceiling.

**Centerline of the sprinkler located 6-3/8" to 12-3/8" below the ceiling.

Flat Cover Plate Finishes



White



Ivory



Black



Antique Brass



Brushed Copper



Brushed Chrome



Bright Brass



Polished Chrome



Brushed Brass



Standard Finishes

Residential flat cover plates are available in nine standard finishes and a nearly unlimited variety of custom color finishes. Prices and lead times may vary. Flat cover plates shown not actual size [2-3/4" (70 mm) diameter].

Custom Finishes

Custom colors available for cover plates and frame style sprinklers. Special order only. Additional charges will apply. Orders covering special painted products are not subject to cancellation except by written permission and then only upon agreement to make payment for work already performed. Viking reserves the right to over ship special painted products produced in excess of order quantity at no charge. No return of these products is allowed. Changes to products may result in the loss of listings or approvals.

Cover Plates

Tech Data Page Sprinkler 136a



Standard, Part No. 13504

2-3/4" (70mm) diameter

Large, Part No. 13642

3-5/16" (84mm) diameter

(Part No. 16207 for VK480)



Square, Part No. 15394

3-5/16" (84mm) L x W



Domed, Part No. 12207

3-1/8" (80mm) diameter

Recessed and Sloped Ceiling Escutcheons

Tech Data Page Sprinkler 135a



E-1 – Slip-on, Part No. 11123, 06419A, 06420A

E-2 – Threaded, Part No. 11038, 11625

F-1 – Adjustable, Part No. 06911A, 06912A



G-1 – Sloped, Part No. 14315
Slip-on

Tools

Tech Data Page Sprinkler 135a



Cabinet Wrench & Sprinkler Cap Removal Tool, Part No. 13619



Concealed Cover Installer Tool, Standard Diameter, Part No. 14412

Concealed Cover Installer Tool, Large Diameter, Part No. 14867



Escutcheon Installer Tool, Part No. 15166



Individual tools and length of pipe all sold separately.

