



# The industry's leading line of residential concealed sprinklers

- Wide range of K-Factors to accommodate various water supplies
- The most options available for 13D, 13R and 13 residential occupancies
- Concealed pendants available in 3.0K, 3.7K, 4.9K and 5.8K
  - Optimized flows and pressures for the most common coverage areas
  - Flows as low as 8GPM
- Concealed sidewalls available in 4.0K and 5.8K
  - Sidewall coverage areas up to 16' x 22' and 18' x 20'
  - Available with (or without) a dedicated pipe guide bracket for installations using 3/4" CPVC pipe in a 2x4 wall
- All are available in both ordinary and intermediate temperature
- Available in corrosion-resistant "Electroless Nickel PTFE" (ENT) plating
- Pendant cover plates available in two sizes and square
- Cover plates available in nine standard finishes and custom colors
- Cover plates are also available in a stainless steel finish to combat corrosion in certain applications

For more information, please contact your Viking sales representative or visit our website at [vikinggroupinc.com](http://vikinggroupinc.com).

### CONCEALED SPRINKLERS

#### Cover Plates

Technical datasheet Sprinkler F\_040600



**Standard**  
**Thread On Part No. 23190**  
**Push On Part No. 23447**  
2-3/4" (70mm) diameter

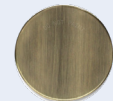


**Large**  
**Thread On Part No. 23174**  
**Push On Part No. 23463**  
3-5/16" (84mm) diameter  
(Part No. 16207 for VK480 and VK490)



**Square**  
**Thread On Part No. 23179**  
**Push On Part No. 23482**  
3-5/16" (84mm) L x W

#### Standard Finishes



Antique Brass



Brushed Chrome



White



Ivory



Bright Brass



Polished Chrome



Brushed Brass



Brushed Copper



Black

### DIGITAL TOOLS

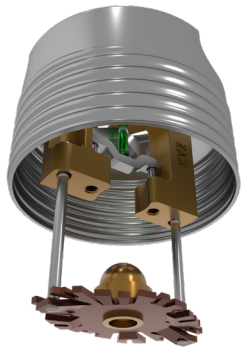


Viking's revolutionary Sprinkler Selector ensures that you can find the right sprinkler for the job — every time. Get started by visiting [webtools.vikingcorp.com/sprinklerselector](http://webtools.vikingcorp.com/sprinklerselector).



## Flat Plate Concealed Pendent Sprinklers

Cover Plate Temp = 139°F/59°C and 165°F/74°C; Adjustment up to 1/2" (13 mm)



### VK496, 3.0 (43) K-factor

Part No. 23763

Technical datasheet F\_032218

Temperature: 155°F (68°C)

200°F (93°C)

### VK495, 3.7 (53) K-factor

Part No. 25639

Technical datasheet F\_041623

Temperature: 155°F (68°C)

200°F (93°C)

### VK494, 4.9 (71) K-factor

Part No. 23707

Technical datasheet F\_012116

Temperature: 155°F (68°C)

200°F (93°C)

### VK498, 5.8 (84) K-factor

Part No. 23764

Technical datasheet F\_112817

Temperature: 155°F (68°C)

200°F (93°C)

Coverage Area ft (m)	Horizontal Ceiling	
	Flow (gpm) (lpm)	Pressure (psi) (kPa)
12 x 12 (3,7x3,7)	8 (30)	7.1 (49)
14 x 14 (4,3x4,3)	12 (45)	16 (110)
16 x 16 (4,9x4,9)	15 (56)	25 (172)

\*UL Listed flow rates are identical for both temperature ratings.

12 x 12 (3,7x3,7)	10 (36)	7.3 (50)
14 x 14 (4,3x4,3)	10 (36)	7.3 (50)
15 x 15 (4,6x4,6)	12 (45)	10.5 (70)
16 x 16 (4,9x4,9)	13 (49)	12.3 (80)
18 x 18 (5,5x5,5)	17 (64)	21.1 (150)

\*UL Listed flow rates are identical for both temperature ratings.

12 x 12 (3,7x3,7)	13 (49)	7.0 (48)
14 x 14 (4,3x4,3)	13 (49)	7.0 (48)
16 x 16 (4,9x4,9)	13 (49)	7.0 (48)
18 x 18 (5,5x5,5)	17 (64)	12.0 (83)
20 x 20 (6,1x6,1)	20 (76)	16.7 (115)

\*UL Listed flow rates are identical for both temperature ratings.

12 x 12 (3,7x3,7)	16 (61)	7.6 (52)
14 x 14 (4,3x4,3)	17 (64)	8.6 (59)
16 x 16 (4,9x4,9)	17 (64)	8.6 (59)
18 x 18 (5,5x5,5)	17 (64)	8.6 (59)
20 x 20 (6,1x6,1)	20 (76)	11.9 (82)

\*UL Listed flow rates are identical for both temperature ratings.

## Flat Plate Concealed Sidewall Sprinklers

Cover Plate Temp = 139°F/59°C (VK480, VK490) and 165°F/74°C (VK490)



### VK480, 4.0 (58) K-factor

Part No. 16116

Technical datasheet F\_121609

Temperature: 165°F (74°C)

205°F (96°C)

### VK490, 5.8 (84) K-factor

Part No. 20409

Technical datasheet F\_032116

Temperature: 165°F (74°C)

205°F (96°C)

**Now available in Electroless  
Nickel PTFE (ENT) finish**

Coverage Area ft (m)	4-6" (102mm-152mm) From Ceiling		6-12" (152mm-305mm) From Ceiling	
	Flow gpm (lpm)	Pressure psi (kPa)	Flow gpm (lpm)	Pressure psi (kPa)
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" (111mm) to 6-3/8" (162mm) below the ceiling.

\*\*Centerline of the sprinkler located 6-3/8" (162mm) to 12-3/8" (314mm) below the ceiling

UL Listed flow rates apply only to ordinary temperature ratings.

12 x 12 (3,7x3,7)	16 (70)*	7.6 (52)	17 (64)**	8.6 (59)
14 x 14 (4,3x4,3)	17 (64)*	8.6 (59)	17 (64)**	8.6 (59)
16 x 16 (4,9x4,9)	19 (72)*	9.6 (66)	19 (72)**	10.7 (74)
16 x 18 (4,9x5,5)	22 (84)*	13.1 (90)	21 (80)**	13.1 (90)
16 x 20 (4,3x4,3)	23 (87)*	15.7 (108)	26 (98)**	20.1 (139)
16 x 22 (4,9x4,9)	31 (117)*	28.6 (197)	31 (117)**	28.6 (197)
18 x 20 (4,9x5,5)	28 (106)*	23.3 (161)	28 (106)**	23.3 (161)

\*Centerline of the sprinkler located 4-3/8" (111mm) to 6-3/8" (162mm) below the ceiling.

\*\*Centerline of the sprinkler located 6-3/8" (162mm) to 12-3/8" (314mm) below the ceiling.

UL Listed flow rates are identical to both temperature ratings.