



## TECHNICAL DATA

## CONCEALED SPRINKLER COVER PLATE ASSEMBLIES

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058

Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

### 1. DESCRIPTION

Viking Cover Plates are low-profile covers used with Viking Concealed Sprinklers. The covers are installed flush with the ceiling or wall to provide a smooth appearance, and are available in several [standard decorative finishes](#) to meet design requirements. Viking Cover Plates may also be custom ordered with any color by any paint manufacturer.

### 2. LISTINGS AND APPROVALS

Refer to the Approval Charts on the applicable Viking Sprinkler Technical Data Pages.

### 3. TECHNICAL DATA

#### Specifications:

Refer to the appropriate sprinkler technical page for sprinkler specifications.

#### Material Standards:

Cover Plate Assembly: Copper UNS-C11000, Brass UNS-C26000 or UNS-C26800

Spring: Nickel Alloy

Solder: Eutectic (non-Eutectic for cover 15765)

**Ordering Information:** (Also refer to the current Viking price list.)

Refer to Tables 1a, 1b, and 2.

Specify finish and temperature rating of the cover plate assembly by adding the appropriate suffixes for the finish and the cover temperature rating to the base part number:

For example, cover 09804 with a Polished Chrome finish and a 165 °F (74 °C) temperature rating = 09804FC.

#### Available Finishes And Temperature Ratings:

Refer to Tables 1a, 1b, and 2.

Viking Technical Data may be found on  
The Viking Corporation's Web site at  
<http://www.vikinggroupinc.com>.  
The Web site may include a more recent  
edition of this Technical Data Page.

### 4. INSTALLATION

A. After installation of the Concealed Sprinkler, testing of the system, repairing of all leaks, and installation and painting of the wall or ceiling, the concealed sprinkler cover plate assembly may be attached.

1. Remove the plastic protective cap from the sprinkler.
2. Remove the cover plate assembly from the protective box, taking care not to damage the assembly.
3. Gently place the base of the cover plate assembly over the sprinkler protruding through the opening\*\* in the ceiling or wall.  
\*\*Size depends on the sprinkler model used. Refer to appropriate sprinkler data page.

4. Carefully push the cover plate assembly onto the sprinkler, using even pressure with the palm of the hand, until the unfinished brass flange of the cover plate base (or the cover adapter, if used) touches the surface of the ceiling or wall. The maximum adjustment available is 1/2" (12.7 mm) [1/4" (6.4 mm) for sprinklers VK480, VK481 and VK680]. DO NOT MODIFY THE UNIT. If necessary, re-cut the sprinkler nipple.

B. DISASSEMBLY: Cover plates can be removed either by gently unthreading them or pulling them off the sprinkler body (depends on the sprinkler model used).

C. RE-ASSEMBLY: The push-on feature of these cover plate assemblies allows easy installation of the cover plates.

1. Gently place the base of the cover plate assembly over the sprinkler.
2. Push the cover plate assembly onto the sprinkler, using even pressure with the palm of the hand, until the unfinished brass flange of the cover plate base touches the ceiling or wall.

### 5. OPERATION

During fire conditions, when the temperature around the sprinkler approaches its operating temperature, the cover plate detaches. Continued heating of the sprinkler causes the operating element to fuse or shatter (depending on the type of sprinkler), releasing the sealing assembly. Water flowing through the sprinkler orifice strikes the deflector or flow shaper, forming a uniform spray pattern to extinguish or control the fire.

### 6. INSPECTIONS, TESTS AND MAINTENANCE

Refer to NFPA 25 for Inspection, Testing and Maintenance requirements.

### 7. AVAILABILITY

Viking concealed sprinklers and cover assemblies are available through a network of domestic and international distributors. See The Viking Corporation web site for the closest distributor or contact The Viking Corporation.



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### 8. GUARANTEE

For details of warranty, refer to Viking's current list price schedule or contact Viking directly.

**TABLE 1a: COMMERCIAL COVER ASSEMBLIES**

Cover Part No. <sup>1</sup>	Cover Type	Cover Temp. Rating	Cover Diameter	Finishes Suffixes Available <sup>2,3</sup>	Sprinkler Models	Sprinkler Data Pages
09804	Flat Pendent	165 °F (74 °C) = C	2-3/4" (70 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK404	20a-e
					VK454	57a-e
11225	Flat Pendent	135 °F (57 °C) = A	2-3/4" (70 mm)	F	VK404	20a-e
					VK454	57a-e
11451	Flat Sidewall	135 °F (57 °C) = A and 165 °F (74 °C) = C	2-3/4" (70 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK408 (Obs)	63a-e
11697	Flat Commercial (large diameter)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK404 and VK454	57a-f
12381	Domed Pendent / Dry Pendent	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-1/8" (80 mm)	F, B, M-/W, M-/I, M-/B	VK102 and VK202	11j-o
					VK190 and VK192	104a-f
					VK194	104j-n
					VK196	108j-o
					VK302, VK352, and VK353	41g-l and 42o-s
					VK614 and VK616	88a-f
13501	Domed Sidewall	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-1/8" (80 mm)	F, M-/W, M-/I, M-/B	VK630 and VK631	87h-m and 84h-m
					VK461	54h-l
13504	Flat Pendent	135 °F (57 °C) = A and 165 °F (74 °C) = C	2-3/4" (70 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK462 and VK463	54a-e
					VK462 and VK464 MRI	54p-t
					VK464	55a-e
					VK465	64a-e
					VK632 and VK634	92a-f
13642	Flat Commercial (large diameter)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK461	54h-l
					VK462 and VK463	54a-e
					VK462 and VK464 MRI	54p-t
					VK464	55a-e
					VK465	64a-e
13642-/CR	Cleanroom Flat Commercial (large diameter)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F-/CR, /W/CR, /I/CR, /B/CR	VK462 (QR)	136g-j

#### Notes

<sup>1</sup> Base part number is shown. For complete part number, add finish suffix and temperature suffix.

<sup>2</sup> Custom colors are also available.

<sup>3</sup> Finish Suffixes: Polished Chrome = F, Brushed Chrome = F-/B, Bright Brass = B, Antique Brass = B-/A, Brushed Brass = B-/B, Brushed Copper = E-/B, Painted White = M-/W, Painted Ivory = M-/I, Painted Black = M-/B

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**TABLE 1b (continued): COMMERCIAL COVER ASSEMBLIES**

Cover Part No. <sup>1</sup>	Cover Type	Cover Temp. Rating	Cover Diameter	Finishes Suffixes Available <sup>2,3</sup>	Sprinkler Models	Sprinkler Data Pages
13642-/CR	Cleanroom Flat Commercial (large diameter)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F-/CR, /W/CR, /I/CR, /B/CR	VK464 (SR)	136g-j
15765-/CR	Cleanroom Flat Commercial (large diameter)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F-/CR, /W/CR, /I/CR, /B/CR	VK469 (QR)	136m-p
15394	Flat Commercial (square cover plate)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK461	54h-l
					VK462 and VK463	54a-e
					VK464	55a-e
					VK465	64a-e
					VK632 and VK634	92a-f
15765	Flat Pendent	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F, M-/W, M-/I, M-/B	VK469	55o-s
					VK636	89a-e
					VK538	89h-l
16207	Flat HSW (large diameter)	135 °F (57 °C) = A and 165 °F (74 °C) = C	3-5/16" (84 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK481	63h-l
16207	Flat HSW (large diameter)	135 °F (57 °C) = A	3-5/16" (84 mm)	F, M-/W, M-/I, M-/B	VK680	87n-q

**Notes**

<sup>1</sup> Base part number is shown. For complete part number, add finish suffix and temperature suffix.

<sup>2</sup> Custom colors are also available.

<sup>3</sup> Finish Suffixes: Polished Chrome = F, Brushed Chrome = F-/B, Bright Brass = B, Antique Brass = B-/A, Brushed Brass = B-/B, Brushed Copper = E-/B, Painted White = M-/W, Painted Ivory = M-/I, Painted Black = M-/B

**TABLE 2: RESIDENTIAL COVER ASSEMBLIES**

Cover Part No. <sup>1</sup>	Cover Type	Cover Temp. Rating	Cover Diameter	Finishes Suffixes Available <sup>2,3</sup>	Sprinkler Models	Sprinkler Data Pages
12207	Domed Residential	135 °F (57 °C) = A	3-1/8" (80 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK466	141r-w
					VK458	142u-z
					VK468	150u-z
13504	Flat Residential	135 °F (57 °C) = A	2-3/4" (70 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK457, VK474, VK4570, VK4740, and VK488	147u-z, 148h-l, 151h-m, 149a-e, and 157a-f
10786	Flat Residential	135 °F (57 °C) = A	2-3/4" (70 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK425 (Obs)	147a-c(Obs)
13642	Flat Residential (large diameter)	135 °F (57 °C) = A	3-5/16" (84 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK457, VK474, VK4570, VK4740, and VK488	147u-z, 148h-l, 151h-m, 149a-e, and 157a-f
15394	Flat Residential (square cover plate)	135 °F (57 °C) = A	3-5/16" (84 mm)	F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B	VK457, VK474, VK4570, and VK4740	147u-z, 148h-l, 151h-m, and 149a-e
16207	Flat HSW Residential (large diameter)	135 °F (57 °C) = A	3-5/16" (84 mm)	M-/W	VK480	153a-f

**Notes**

<sup>1</sup> Base part number is shown. For complete part number, add finish suffix and temperature suffix.

<sup>2</sup> Custom colors are also available.

<sup>3</sup> Finish Suffixes: Polished Chrome = F, Brushed Chrome = F-/B, Bright Brass = B, Antique Brass = B-/A, Brushed Brass = B-/B, Brushed Copper = E-/B, Painted White = M-/W, Painted Ivory = M-/I, Painted Black = M-/B



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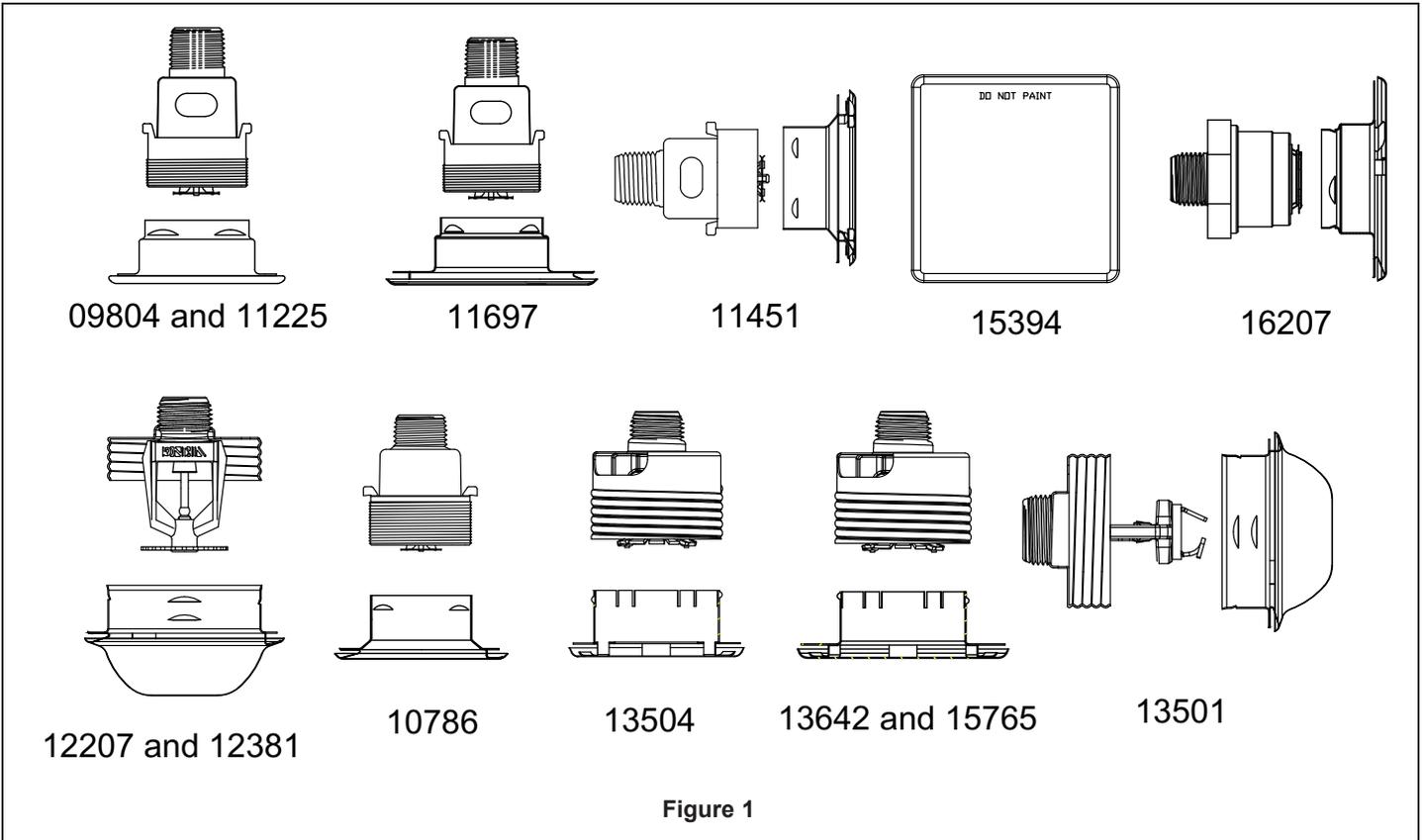


Figure 1

TABLE 3

SIN Number	Cover Base Part Number	SIN Number	Cover Base Part Number	SIN Number	Cover Base Part Number
VK102	12381	VK454	09804, 11225, 11697	VK481	16207
VK190	12381	VK457 and VK4570	13504, 13642, 15394	VK488	13504, 13642
VK192	12381	VK458	12207	VK538	15765
VK194	12381	VK461	13504, 13642, 15394	VK614	12381
VK196	12381	VK462	13504, 13642, 15394	VK616	12381
VK202	12381	VK463	13504, 13642, 15394	VK618	12381
VK302	12381	VK464	13504, 13642, 15394	VK630	13501
VK352	12381	VK465	13504, 13642, 15394	VK631	13501
VK353	12381	VK466	12207	VK632	13504, 13642, 15394
VK404	09804, 11225, 11697	VK468	12207	VK634	13504, 13642, 15394
VK405 (Obs)	09804, 11225	VK469	15765	VK636	15765
VK408 (Obs)	11451	VK474 and VK4740	13504, 13642, 15394	VK680	16207
VK425 (Obs)	10786	VK480	16207		