



TECHNICAL DATA SHEET

CONCEALED SPRINKLER COVER PLATE ASSEMBLIES

1. PRODUCT IDENTIFICATION

This document covers Viking sprinkler cover plate products for both residential and commercial use. Hereafter, the products are referred to as:

Cover plate(s).

2. INTENDED USE

Cover plates are specifically tested and listed and/or approved with the compatible sprinkler for which they are designed. Cover plates must be used in accordance with:

1. the cover plate's compatibility matrix. Refer to Tables 1-3.
2. the compatible sprinkler's Listings, Approvals, and associated design requirements as defined by the recognized design and installation standards issued. For example NFPA, FM, EN, VdS, or LPCB.
3. the latest revisions of all applicable manufacturer documentation.



Viking cover plate assemblies shall be used ONLY with Viking concealed sprinklers, as indicated on the sprinkler's technical data sheet. For more details, refer to each sprinkler's applicable technical data sheet.


Governmental codes, ordinances, and standards may apply and may differ from one another.

WARNING

Cancer and Reproductive Harm www.P65Warning.ca.gov

3. LISTING AND APPROVALS

 cULus Listed - Screen print (brass, painted, or stainless steel only)

 FM Approved - Screen print (brass, painted, or stainless steel only)

3.1 cULus Listing and FM Approval Requirements and Details

For sprinkler-specific cULus Listing or FM Approval details, refer to the appropriate Viking sprinkler data pages.



4. ORDERING

NOTICE

The cover plate assemblies described in this document are temperature-sensitive devices designed to be used in combination with specific sprinklers manufactured by Viking. Refer to the tables below for the appropriate sprinkler data pages.

⚠ WARNING

Risk of death. All cover plates presented on this document are temperature-sensitive and are produced for specific sprinklers. For questions, call Viking Technical Services.

4.1 Ordering Procedure

1. If ordering a cover plate alone, skip to step 3.
2. Select a sprinkler that is Listed or Approved for the intended application.

NOTE: Verify the sprinkler is Listed or Approved for the intended usage by referring to the specific sprinkler's technical data page for complete ordering, Listing, and Approval specifications. Also refer to the tables in this document.

3. Choose a cover plate base part number that is compatible and Listed or Approved to be used with the specific sprinkler. Refer to the specific sprinkler's data page and the tables in this document.
4. Add the suffix for the desired finish.
5. Add the suffix for the desired sprinkler temperature rating.

Example: 23174FC = 200 °F (93 °C) temperature rated VK494 sprinkler with an polished chrome finish.



Figure – 1: VK4621 and Cover 23463



5. INSPECTIONS, TESTS, AND MAINTENANCE

5.1 Requirements

Refer to NFPA 25 for all inspection, test, and maintenance requirements.

6. OPERATION

When a sprinkler cover plate reaches its specified operating temperature, the solder holding the cover plate to the base assembly melts and the plate detaches from the base. Once the cover plate has fallen away, the sprinkler's operating element is exposed; continued heating causes the operating element to fuse or shatter (depending on the sprinkler type), releasing the sealing assembly. All water that flows through the sprinkler orifice strikes the deflector or flow shaper, forming a uniform spray pattern to extinguish or control the fire.

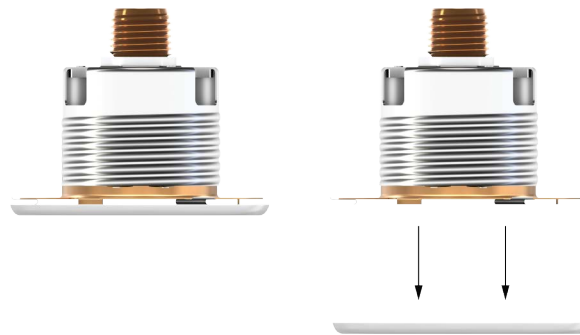


Figure – 2: Cover Plate Detaches

7. TECHNICAL SPECIFICATIONS

7.1 Sprinkler Specifications

For sprinkler information and details, refer to the appropriate sprinkler technical documents.

7.2 Thread-On vs. Push-On Cover Plate Models

The major difference between thread-on and push-on cover plates is in the installation style. Thread-on cover plate models have a base with two solid nodules, whereas push-on cover plate models have a base with six flexible tabs. The increased number of flexible tabs allows for ease of installation by pushing the cover plate assembly into the adapter cup on the sprinkler.

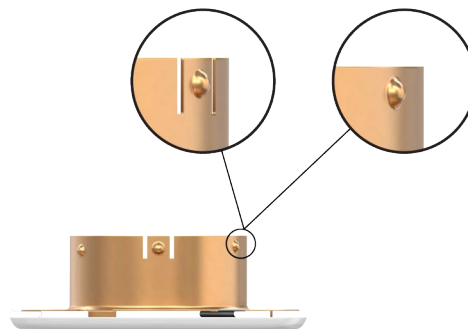


Figure – 3: Thread-On vs Push-On Cover Plate

7.3 Dimensions

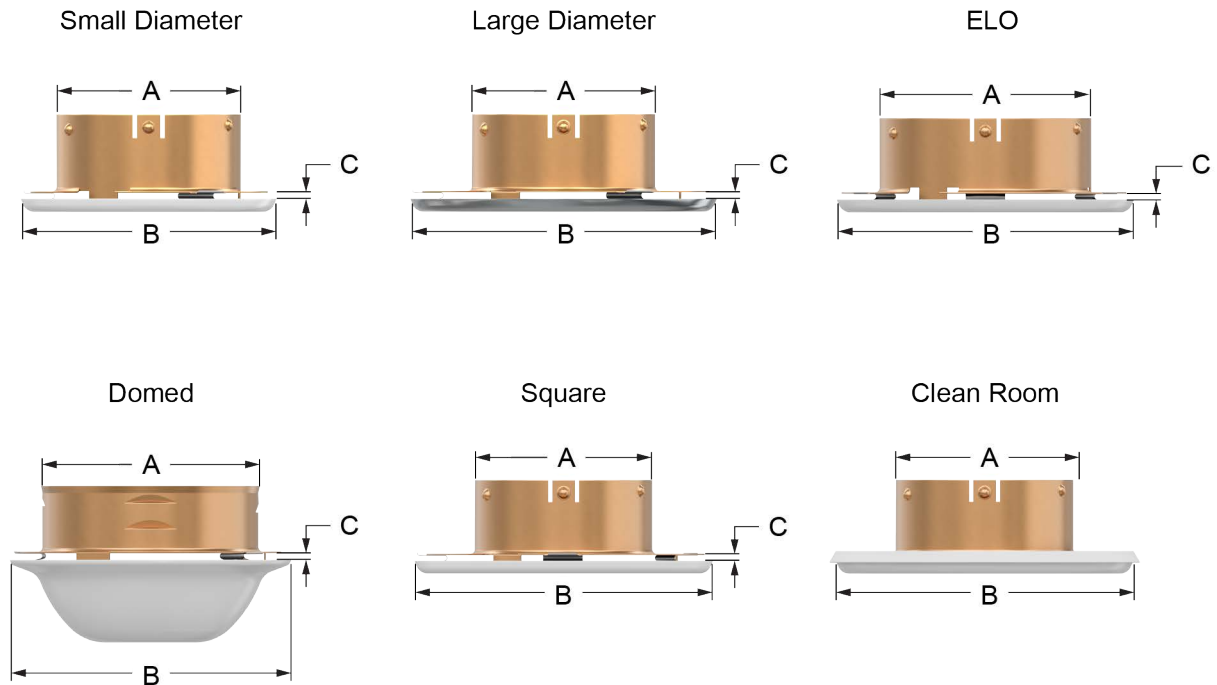


Figure – 4: Cover Plate Dimensions

| Cover Type | Dimensions | | |
|--------------------------------|----------------|-----------------|-------------|
| | A | B | C |
| Small diameter | 1-5/8" (41 mm) | 2-3/4" (70 mm) | 1/8" (3 mm) |
| Large diameter | 1-5/8" (41 mm) | 3-5/16" (84 mm) | 1/8" (3 mm) |
| Small diameter Stainless Steel | 2" (51 mm) | 2-3/4" (70 mm) | 1/8" (3 mm) |
| Large diameter Stainless Steel | 2" (51 mm) | 3-5/16" (84 mm) | 1/8" (3 mm) |
| ELO | 2-3/8" (60 mm) | 3-5/16" (84 mm) | 1/8" (3 mm) |
| Square | 2" (51 mm) | 3-5/16" (84 mm) | 1/8" (3 mm) |
| Domed | 2-3/8" | 3-1/8" (80 mm) | 1/8" (3 mm) |
| Clean Room | 2-3/8" (60 mm) | 3-5/16" (84 mm) | 1/8" (3 mm) |



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7.4 Cover Plate Assembly Materials of Construction

NOTICE: Do not disassemble the cover plate assembly.

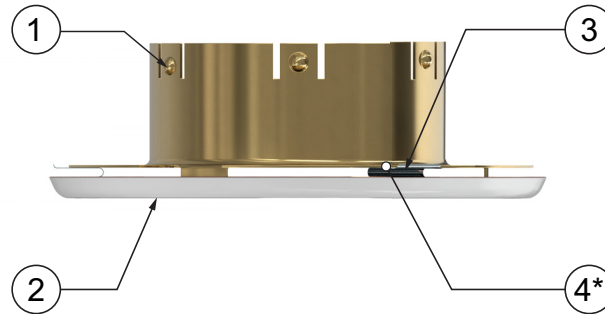


Figure – 5 Cover Plate Assembly Components

| Reference | Description | Materials |
|-----------|---------------------|--------------------------------|
| 1 | Base | Brass UNS-C26000 or UNS-C26800 |
| 2 | Cover | Varies |
| 3 | Springs | Nickel alloy |
| 4 | Solder (*not shown) | Eutectic |

7.5 Cover Plate Accessory: Expansion Plate

The Viking expansion plate is intended as an optional cover plate accessory for earthquake-prone areas. Expansion plates must be ordered separately.

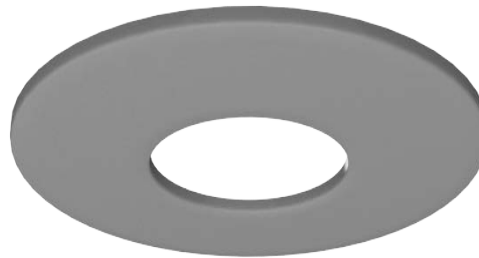


Figure – 6 Expansion Plate

| Expansion Plate Part Number | Diameter | | Description |
|-----------------------------|------------------|------------------|--|
| | Outside | Inside | |
| 12620 | 5" (127 mm) | 2-3/16" (56 mm) | Used with model E-1 and E-2 escutcheons. May also be used with dry recessed sprinklers, dry standard adjustable sprinklers, and flat plate concealed sprinklers. |
| 13128 | 5" (127 mm) | 2-15/32" (64 mm) | Used with domed concealed sprinklers. |
| 16340 | 5-5/16" (135 mm) | 2-1/2" (63 mm) | Used with concealed sprinklers VK538 and VK636. |


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**CONCEALED SPRINKLER COVER
PLATE ASSEMBLIES**
8. COVER PLATE ASSEMBLIES SPECIFICATIONS
8.1 Commercial Cover Plate Assemblies
Table-1: Commercial Cover Plate Assemblies

| Cover Part Number ^{1,5} | Cover Type | Available Finish Suffixes ² | Cover Temperature Rating & Suffix | Cover Diameter | Sprinkler Models | Sprinkler Tech Data Pages | |
|--|----------------|--|-----------------------------------|----------------|------------------|---|----------|
| Finish suffix key: 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) | | | | | | | |
| 09804 | Small diameter | F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B | 165 °F (74 °C) = C | 2-3/4" | 70 mm | VK404 (Obs) VK405 (Obs) VK454 (Obs) | -- |
| 11225 | Small diameter | F | 139 °F (57 °C) = A | 2-3/4" | 70 mm | VK404 (Obs) VK405 (Obs) VK454 (Obs) | -- |
| 11697 | Large diameter | F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B | 139 °F (57 °C) = A | 3-5/16" | 84 mm | VK404 (Obs) VK405 (Obs) VK454 (Obs) | -- |
| | | | 165 °F (74 °C) = C | | | | |
| 12381 | Domed | F, B, M-/W, M-/I, M-/B | 139 °F (59 °C) = A | 3-1/8" | 80 mm | VK102-D | F_070703 |
| | | | | | | VK202-D | F_070703 |
| | | | | | | | F_101912 |
| | | | | | | VK190 | F_092003 |
| | | | | | | VK192 | F_081311 |
| | | | VK194 | | | F_092103 | |
| | | | VK302-D | | | F_092203 | |
| | | | VK352-D | | | F_102112 | |
| | | | VK353-D | | | F_102212 | |
| | | | VK614-D/ VK616-D (Obs) | | | F_061603 | |
| VK618-D (Obs) | F_061503 | | | | | | |
| | | | 165 °F (74 °C) = C | | | | |

1. For complete part number, add finish suffix and temperature suffix.

2. Custom colors are also available. Refer to the sprinkler data page.

3. Screen printing is available for this cover. Refer to tables 12.2 and 12.3.

4. (T) = thread-on style and (P) = push-on style. If an indicator is not present, the cover plate is push-on style.


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| Cover Part Number ^{1,5} | Cover Type | Available Finish Suffixes ² | Cover Temperature Rating & Suffix | Cover Diameter | Sprinkler Models | Sprinkler Tech Data Pages | |
|---|----------------|--|--|----------------|------------------|---------------------------|----------|
| Finish suffix key: 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) | | | | | | | |
| 13501 | Domed | F, M-/W, M-/I, M-/B | 139 °F (57 °C) = A (Only for VK631) | 3-1/8" | 80 mm | VK630-D | F_102805 |
| | | | 165 °F (74 °C) = C | | | VK631-D (Obs) | F_121209 |
| 23190 ⁴ (T) 23447 ⁴ (P) | Small diameter | F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B | 139 °F (59 °C) = A | 2-3/4" | 70 mm | VK461 (Obs) | F_091506 |
| | | | | | | VK462 & VK463 (Obs) | F_103005 |
| | | | | | | VK462, VK464 MRI | F_062908 |
| | | | | | | VK464 | F_021606 |
| | | | VK465 (Obs) | | | F_032107 | |
| | | | VK632 & VK634 | | | F_080107 | |
| | | | VK492 (Obs) | | | F_101615 | |
| | | | VK4611 | | | F_061620 | |
| | | | VK4621 | | | F_102519 | |
| | | | VK4651 | | | F_040320 | |
| VK4951 | F_040320 | | | | | | |
| 16207 ⁴ | Large diameter | F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B | 139 °F (59 °C) = A | 3-5/16" | 84 mm | VK481 | F_020312 |
| | | | 165 °F (74 °C) = C | | | | |
| 16207 ⁴ | Large diameter | F, M-/W, M-/I, M-/B | 139 °F (59 °C) = A | 3-5/16" | 84 mm | VK680 | F_050611 |
| 1. For complete part number, add finish suffix and temperature suffix. 2. Custom colors are also available. Refer to the sprinkler data page. 3. Screen printing is available for this cover. Refer to tables 12.2 and 12.3. 4. (T) = thread-on style and (P) = push-on style. If an indicator is not present, the cover plate is push-on style. | | | | | | | |


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Table-1: Commercial Cover Plate Assemblies

| Cover Part Number ^{1,5} | Cover Type | Available Finish Suffixes ² | Cover Temperature Rating & Suffix | Cover Diameter | Sprinkler Models | Sprinkler Tech Data Pages | |
|--|---|---|-----------------------------------|----------------|------------------|---------------------------|----------|
| Finish suffix key: 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) | | | | | | | |
| 23174 ⁴ (T) 23463 ⁴ (P) | Large diameter | F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B | 139 °F (59 °C) = A | 3-5/16" | 84 mm | VK461 (Obs) | F_091506 |
| | | | 165 °F (74 °C) = C | | | VK462 & VK463 (Obs) | F_103005 |
| | | | | | | VK462, VK464 MRI | F_062908 |
| | | | 165 °F (74 °C) = C | | | VK464 | F_021606 |
| | | | | | | VK465 (Obs) | F_032107 |
| | | | | | | VK632 & VK634 | F_080107 |
| | | | | | | VK492 (Obs) | F_101615 |
| | | | | | | VK4611 | F_061620 |
| | | | | | | VK4621 | F_102519 |
| | | | | | | VK4651 | F_040320 |
| VK4921 | F_102519 | | | | | | |
| 23174-/CR (T) 23463-/CR (P) | Large diameter round cleanroom | F-/CR, /W/CR, /I/CR, /B/CR | 139 °F (59 °C) = A | 3-5/16" | 84 mm | VK462 (QR) (Obs) | F_022409 |
| | | | 165 °F (74 °C) = C | | | VK4621 | F_061919 |
| | | | | | | VK464 (SR) | F_022409 |
| 23183-/CR (T) 23473-/CR (P) | Large diameter, Stainless steel cleanroom round | -- | 139 °F (59 °C) = A | 3-5/16" | 84 mm | VK462 (QR) (Obs) | F_022409 |
| | | | 165 °F (74 °C) = C | | | VK4621 | F_061919 |
| 23495-/CR (T) 15765-/CR (P) | Round (large diameter) | F-/CR, /W/CR, /I/CR, /B/CR | 139 °F (59 °C) = A | 3-5/16" | 84 mm | VK469 (QR) | F_120508 |
| | | | 165 °F (74 °C) = C | | | | |
| <p>1. For complete part number, add finish suffix and temperature suffix.</p> <p>2. Custom colors are also available. Refer to the sprinkler data page.</p> <p>3. Screen printing is available for this cover. Refer to tables 12.2 and 12.3.</p> <p>4. (T) = thread-on style and (P) = push-on style. If an indicator is not present, the cover plate is push-on style.</p> | | | | | | | |


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| Cover Part Number ^{1,5} | Cover Type | Available Finish Suffixes ² | Cover Temperature Rating & Suffix | Cover Diameter | Sprinkler Models | Sprinkler Tech Data Pages | |
|--|--|---|-----------------------------------|----------------|------------------|---------------------------|----------|
| Finish suffix key: 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) | | | | | | | |
| 23179 ⁴ (T) 23482 ⁴ (P) | Square (large diameter) | F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B | 139 °F (59 °C) = A | 3-5/16" | 84 mm | VK461 (Obs) | F_091506 |
| | | | 165 °F (74 °C) = C | | | VK462 & VK463 (Obs) | F_103005 |
| | | | | | | VK464 | F_021606 |
| | | | | | | VK465 (Obs) | F_032107 |
| | | | | | | VK632 & VK634 | F_080107 |
| | | | | | | VK492 (Obs) | F_101615 |
| | | | | | | VK4611 | F_061620 |
| | | | | | | VK4621 | F_102519 |
| | | | | | | VK4651 | F_040320 |
| | | | VK4921 | | | F_102519 | |
| 23495 ⁴ (T) 15765 ⁴ (P) | Round (large diameter) | F, M-/W, M-/I, M-/B | 139 °F (59 °C) = A | 3-5/16" | 84 mm | VK469 | F_120508 |
| | | | 165 °F (74 °C) = C | | | VK636 | F_121009 |
| | | | | | | VK538 | F_050511 |
| 23183 ⁴ (T) 23473 ⁴ (P) | Stainless steel round (large diameter) | Painted | 139 °F (59 °C) = A | 3-5/16" | 84 mm | VK462 (Obs) | F_100305 |
| | | | 165 °F (74 °C) = C | | | VK4611 | F_061620 |
| | | | | | | VK4621 | F_061919 |
| | | | | | | VK4651 | F_040320 |
| | | | | | | VK4921 | F_102519 |
| 23193 ⁴ (T) 23455 ⁴ (P) | Stainless steel round | Painted | 139 °F (59 °C) = A | 2-3/4" | 70 mm | VK462 (Obs) | F_100305 |
| | | | 165 °F (74 °C) = C | | | VK4611 | F_061620 |
| | | | | | | VK4621 | F_061919 |
| | | | | | | VK4651 | F_040320 |
| | | | | | | VK4921 | F_102519 |
| 23504 ⁴ (T) 21878 ⁴ (P) | Stainless steel round (large diameter) | Painted | 139 °F (59 °C) = A | 3-5/16" | 84 mm | VK538 | F_050511 |
| | | | 165 °F (74 °C) = C | | | | |

1. For complete part number, add finish suffix and temperature suffix.

2. Custom colors are also available. Refer to the sprinkler data page.

3. Screen printing is available for this cover. Refer to tables 12.2 and 12.3.

4. (T) = thread-on style and (P) = push-on style. If an indicator is not present, the cover plate is push-on style.


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PLATE ASSEMBLIES**
8.2 Residential Cover Plate Assemblies
Table-2: Residential Cover Plate Assemblies

| Cover Part Number ^{1,5} | Cover Type | Finishes Suffixes Available ² | Cover Temp. Rating | Cover Diameter | Sprinkler Models | Sprinkler Data Pages | |
|---|------------|--|--|----------------|------------------|---------------------------|----------|
| Finish suffix key: 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) | | | | | | | |
| 12207 | Domed | F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B | 139 °F (57 °C) = A (Only for VK458 & VK466) | 3-1/8" | 80 mm | VK458-D (Obs) | F_092305 |
| | | | 139 °F (57 °C) = A | | | VK466-D (Obs) | F_091606 |
| | | | | | | VK468-D | F_020206 |
| 23179 ⁴ (T) 23482 ⁴ (P) | Square | F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B | 135 °F (57 °C) = A | 2-3/4" | 70 mm | VK457 ⁴ (Obs) | F_072607 |
| | | | 165 °F (74 °C) = C | | | VK474 (Obs) | F_012109 |
| | | | | | | VK4570 ⁴ (Obs) | F_100710 |
| | | | | | | VK4740 (Obs) | F_012811 |
| | | | | | | VK488 (Obs) | F_073012 |
| | | | | | | VK4880 (Obs) | F_061214 |
| | | | | | | VK494 | F_012116 |
| | | | | | | VK4940 | F_120517 |
| | | | | | | VK496 | F_032218 |
| | | | | | | VK4960 | F_012419 |
| | | | | | | VK498 | F_112817 |
| VK4980 | F_120617 | | | | | | |
| 10786 | Round | F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B | 139 °F (57 °C) = A | 2-3/4" | 70 mm | VK425 (Obs) | -- |
| <p>1. For complete part number, refer to Viking's current price list.</p> <p>2. Custom colors are also available. Refer to the sprinkler data page.</p> <p>3. Screen printing is available for this cover. Refer to tables 12.2 and 12.3.</p> <p>4. Not compatible with the 165 °F (74 °C) temperature rated covers.</p> <p>5. (T) = thread-on style and (P) = push-on style. If an indicator is not present, the cover plate is push-on style.</p> | | | | | | | |


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Table-2: Residential Cover Plate Assemblies

| Cover Part Number ^{1,5} | Cover Type | Finishes Suffixes Available ² | Cover Temp. Rating | Cover Diameter | Sprinkler Models | Sprinkler Data Pages | |
|---|------------------------------|---|---|----------------|------------------|---------------------------|----------|
| Finish suffix key: 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) | | | | | | | |
| 23174 (T) 23463 (P) | Round (Large diameter) | F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B | 135 °F (57 °C) = A (Only for VK457, VK474, VK4570, VK4740, VK488, VK4880) | 3-5/16" | 84 mm | VK457 ⁴ (Obs) | F_072607 |
| | | | 139 °F (59 °C) = C | | | VK474 (Obs) | F_012109 |
| | | | | | | VK4570 ⁴ (Obs) | F_100710 |
| | | | | | | VK4740 (Obs) | F_012811 |
| | | | | | | VK488 (Obs) | F_073012 |
| | | | | | | VK4880 (Obs) | F_061214 |
| | | | | | | VK494 | F_012116 |
| | | | | | | VK4940 | F_120517 |
| | | | | | | VK496 | F_032218 |
| | | | | | | VK4960 | F_012419 |
| 165 °F (74 °C) = C | VK498 | F_112817 | | | | | |
| VK4980 | F_120617 | | | | | | |
| <p>1. For complete part number, refer to Viking's current price list.</p> <p>2. Custom colors are also available. Refer to the sprinkler data page.</p> <p>3. Screen printing is available for this cover. Refer to tables 12.2 and 12.3.</p> <p>4. Not compatible with the 165 °F (74 °C) temperature rated covers.</p> <p>5. (T) = thread-on style and (P) = push-on style. If an indicator is not present, the cover plate is push-on style.</p> | | | | | | | |


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Table-2: Residential Cover Plate Assemblies

| Cover Part Number ^{1,5} | Cover Type | Finishes Suffixes Available ² | Cover Temp. Rating | Cover Diameter | Sprinkler Models | Sprinkler Data Pages | |
|--|---|---|---|----------------|------------------|--------------------------|----------|
| Finish suffix key: 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) | | | | | | | |
| 23179 ⁴ (T) 23482 ⁴ (P) | Square (large diameter) | F, F-/B, B, B-/A, B-/B, E-/B, M-/W, M-/I, M-/B | 135 °F (57 °C) = A (Only for VK457, VK474, VK4570, VK4740, VK488, VK4880) | 3-5/16" | 84 mm | VK457 ⁴ (Obs) | F_072607 |
| | | | VK474 (Obs) | | | F_012109 | |
| | | | VK4570 ⁴ (Obs) | | | F_100710 | |
| | | | VK4740 (Obs) | | | F_012811 | |
| | | | VK488 (Obs) | | | F_073012 | |
| | | | VK4880 (Obs) | | | F_061214 | |
| | | | VK494 | | | F_012116 | |
| | | | VK4940 | | | F_120517 | |
| | | | VK496 | | | F_032218 | |
| | | | VK4960 | | | F_012419 | |
| VK498 | F_112817 | | | | | | |
| VK4980 | F_120617 | | | | | | |
| 16207 ⁴ | Round (large diameter) | M-/W, F | 139 °F (59 °C) = A | 3-5/16" | 84 mm | VK480 | F_121609 |
| | | | 165 °F (74 °C) = C | | | VK490 | F_032116 |
| | | | | | VK4800 | F_100810 | |
| 23183 ⁴ (T) 23473 ⁴ (P) | Stainless steel round (large diameter) | Painted | 139 °F (59 °C) = A | 3-5/16" | 84 mm | VK494 | F_012116 |
| | | | 165 °F (74 °C) = C | | | | |
| 23193 ⁴ (T) 23455 ⁴ (P) | Stainless steel round | Painted | 139 °F (59 °C) = A | 2-3/4" | 70 mm | VK494 | F_012116 |
| 1. For complete part number, refer to Viking's current price list. 2. Custom colors are also available. Refer to the sprinkler data page. 3. Screen printing is available for this cover. Refer to tables 12.2 and 12.3. 4. Not compatible with the 165 °F (74 °C) temperature rated covers. 5. (T) = thread-on style and (P) = push-on style. If an indicator is not present, the cover plate is push-on style. | | | | | | | |



TECHNICAL DATA SHEET

CONCEALED SPRINKLER COVER PLATE ASSEMBLIES

8.3 Cover Plate Part Numbers and Associated SIN Numbers

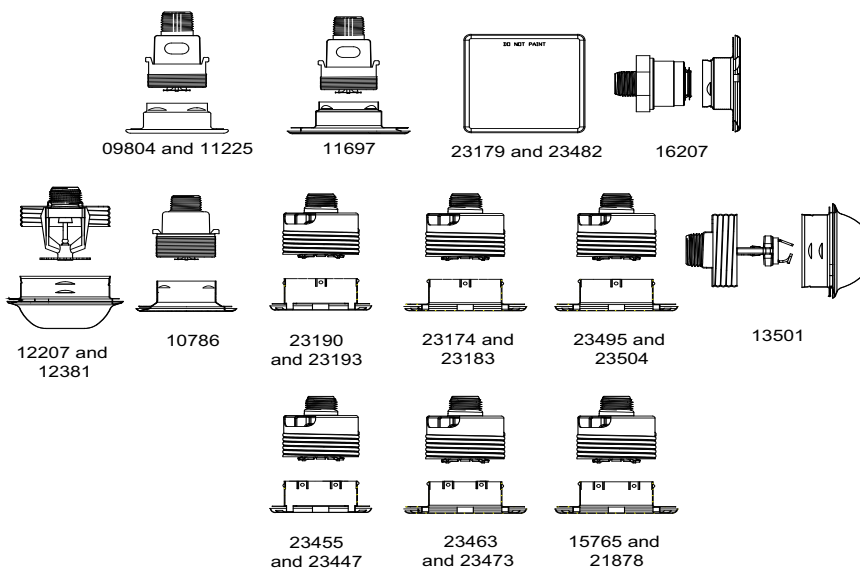


Figure – 7 Cover Plate Associated SINs

| Cover Plate Base Part Numbers | Associated SINs | Associated Label Part Nos. |
|--|--|--|
| 12381 | VK102-D, VK190, VK192, VK194, VK196, VK202-D, VK302-D, VK352-D, VK353-D, VK614-D/VK616-D (Obs), VK618-D (Obs) | L12382A, L12382C |
| 09804, 11225 | VK404 (Obs), VK454 (Obs) | L09806C, L11226, |
| 09804, 11225 | VK405 (Obs) | L09806C, L11226 |
| 10786 | VK425 (Obs) | L10826 |
| 23190, 23174, 23179, 23447, 23463, 23482 | VK457 (Obs), VK4570 (Obs), VK461 (Obs), VK463 (Obs), VK464 (Obs), VK465 (Obs), VK474 (Obs), VK4740 (Obs), VK488 (Obs), VK4880 (Obs), VK4940, VK496, VK4960, VK498, VK4980, VK632, VK634, VK492 (Obs) | L23192A, L23176A, L23181C, L23449A, L23465A, L23484A |
| 23190, 23174, 23179, 23193, 23183, 23447, 23463, 23482, 23455, 23473 | VK462 (Obs), VK494, VK4611, VK4621, VK4921, VK4651 | L23192A, L23176A, L23181C, L23194A, L23185A, L23449A, L23465A, L23484A, L23456A, L23475A |
| 12207 | VK458-D (Obs), VK466-D (Obs), VK468-D | L12194 |
| 13501 | VK630-D, VK631-D (Obs) | L13584A, L13584C |
| 15765, 23495 | VK469, VK636 | L14923A, L14923C, L23497A |
| 16207 | VK480, VK4800, VK481, VK490, VK680 | L16209A, L16209C |
| 15765, 21878, 23495, 23504 | VK538 | L14923A, L14923C, L121874A, L23497A, L23505A |



9. HANDLING

⚠ CAUTION

Damaged cover plates may not activate properly. Concealed cover assemblies are fragile. To assure satisfactory performance of the product, handle with care.

NOTICE

For complete care, handling, and installation instructions, refer to the sprinkler data page and the appropriate sprinkler general care, installation, and maintenance guide

9.1 General Handling and Storage Instructions

- Do not store sprinklers in environments with temperatures that exceed 100 °F (38 °C), in direct sunlight, or in confined areas that are subject to heat.
- Protect sprinklers and cover assemblies when storing, transporting, handling, and after installation.
 - Use original shipping containers.
 - Sprinklers or cover assemblies should **never** be loose in boxes, bins, or buckets.
- Keep every sprinkler body covered with a protective sprinkler cap during shipping and handling, system testing, and while finish work is being completed.
- Use only the designated Viking sprinkler wrench to install Viking sprinklers. Refer to the appropriate sprinkler technical data page(s) for more details. (**NOTE:** The protective cap is temporarily removed during installation and then placed back on the sprinkler for protection until finish work is completed.)
- Do not over-tighten a sprinkler into a fitting.
- Do not use a sprinkler's deflector to thread or push the sprinkler into a fitting.
- Do not attempt to remove drywall, paint, etc. from the sprinklers.
- **PROTECTIVE CAPS MUST BE REMOVED FROM SPRINKLERS BEFORE PLACING THE SYSTEM IN SERVICE.** Prior to attaching the cover plate assembly, remove the sprinkler's plastic protective cap. .



10. INSTALLATION

10.1 Cover Plate Installation (Or Re-Installation)

After concealed sprinkler installation, system testing, leak repair, and wall and ceiling finishing, install the cover plate assembly. To install the assembly, do the following:

1. Remove the plastic protective cap from the sprinkler.
2. Gently remove the cover plate assembly from the protective box. (Harsh treatment will damage the assembly.)
3. Gently place the base of the cover plate assembly over the installed sprinkler.

NOTE: The size of the ceiling or wall opening depends on the sprinkler model being used. For more details, see the appropriate sprinkler technical data page(s).

4. Carefully pushing or threading the cover plate assembly onto the sprinkler, using even pressure, until the assembly is flush with the ceiling or wall. The maximum adjustment available is 1/2" (13 mm). (For the VK480, VK481, and VK680, the maximum adjustment available is 1/4" (6.4 mm)).

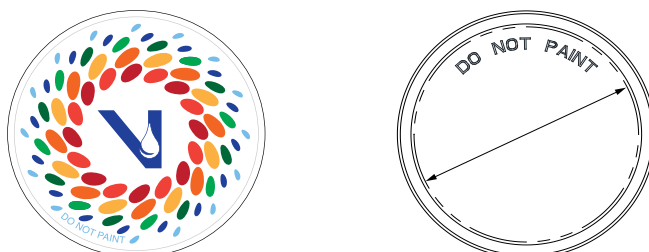
NOTE: Do NOT modify the cover plate assembly. If necessary, re-cut the sprinkler nipple.

10.2 Disassembly

Cover plates can be removed by gently twisting or pulling them off sprinkler bodies. (Whether the assembly needs to be twisted versus pulled depends on the cover plate style being used.)

11. SCREEN PRINTED COVER PLATES

11.1 Screen Printed Cover Plate Area



Screen Print Area:

2-3/4" (70 mm) plates = Ø2.395" (61 mm)

3-5/16" (84 mm) plates = Ø2.957" (75 mm)

Design must include the text:

"Do Not Print"

Figure – 8 Screen Printing Area Details


TECHNICAL DATA SHEET
**CONCEALED SPRINKLER COVER
PLATE ASSEMBLIES**
11.2 Screen Printed Residential Cover Plates

| Sprinkler SIN | Cover Plate Base Part Number ¹ | | Type | Size | UL | | FM | |
|--|--|---------|-----------|-----------------|-------------------|-------------------|-------------------|-------------------|
| | | | | | Ordering Suffix | | | |
| | Thread-On | Push-On | | | A | C | A | C |
| | | | | | 139 °F (59 °C) | 165 °F (74 °C) | 139 °F (59 °C) | 165 °F (74 °C) |
| VK494 | 23190SC | 23447SC | Round | 2-3/4" (70 mm) | Yes | Yes | | |
| | 23174SC | 23463SC | Round | 3-5/16" (84 mm) | Yes | Yes | | |
| | 23179SC | 23482SC | Square | 3-5/16" (84 mm) | Yes | Yes | | |
| | 23193SC | 23455SC | SST Round | 2-3/4" (70 mm) | Yes | Yes | | |
| | 23183SC | 23473SC | SST Round | 3-5/16" (84 mm) | Yes | Yes | | |
| VK4940 VK496 VK4960 VK498 VK4980 | 23190SC | 23447SC | Round | 2-3/4" (70 mm) | Yes | Yes | | |
| | 23174Sc | 23463Sc | Round | 3-5/16" (84 mm) | Yes | Yes | | |
| | 23179SC | 23482SC | Square | 3-5/16" (84 mm) | Yes | Yes | | |
| VK480 VK4800 | Not Available | 16207SC | Round | 3-5/16" (84 mm) | Yes | -- | | |
| VK490 | Not Available | 16207SC | Round | 3-5/16" (84 mm) | Yes | Yes | | |

¹ Screen printing is available on brass finishes, painted finishes, and/or stainless steel materials.

11.3 Screen Printed Commercial Cover Plates

| Sprinkler SIN | Cover Plate Base Part Number ¹ | | Type | Size | UL | | FM | |
|------------------|--|---------|-----------|-----------------|-------------------|-------------------|-------------------|-------------------|
| | | | | | Ordering Suffix | | | |
| | Thread-On | Push-On | | | A | C | A | C |
| | | | | | 139 °F (59 °C) | 165 °F (74 °C) | 139 °F (59 °C) | 165 °F (74 °C) |
| VK462 (Obs) | 23190SC | 23447SC | Round | 2-3/4" (70 mm) | Yes | Yes | Yes | Yes |
| | 23174SC | 23463SC | Round | 3-5/16" (84 mm) | Yes | Yes | Yes | Yes |
| | 23179SC | 23482SC | Square | 3-5/16" (84 mm) | Yes | | Yes | Yes |
| VK4621 | 23193SC | 23455SC | SST Round | 2-3/4" (70 mm) | Yes | Yes | Yes | Yes |
| | 23183SC | 23473SC | SST Round | 3-5/16" (84 mm) | Yes | Yes | Yes | Yes |


TECHNICAL DATA SHEET
**CONCEALED SPRINKLER COVER
PLATE ASSEMBLIES**

| Sprinkler SIN | Cover Plate Base Part Number ¹ | | Type | Size | UL | | FM | |
|--|--|---------|-----------|-----------------|-------------------|-------------------|-------------------|-------------------|
| | | | | | Ordering Suffix | | | |
| | Thread-On | Push-On | | | A | C | A | C |
| | | | | | 139 °F (59 °C) | 165 °F (74 °C) | 139 °F (59 °C) | 165 °F (74 °C) |
| VK4611 VK4651 | 23190SC | 23447SC | Round | 2-3/4"(70 mm) | Yes | Yes | | |
| | 23174SC | 23463SC | Round | 3-5/16" (84 mm) | Yes | Yes | | |
| | 23179SC | 23482SC | Square | 3-5/16" (84 mm) | Yes | | | |
| | 23193SC | 23455SC | SST Round | 2-3/4"(70 mm) | Yes | Yes | | |
| | 23183SC | 23473SC | SST Round | 3-5/16" (84 mm) | Yes | Yes | | |
| VK4921 | 23190SC | 23447SC | Round | 2-3/4"(70 mm) | Yes | Yes | Yes | Yes |
| | 23174SC | 23463SC | Round | 3-5/16" (84 mm) | Yes | Yes | Yes | Yes |
| | 23179SC | 23482SC | Square | 3-5/16" (84 mm) | Yes | Yes | Yes | Yes |
| | 23193SC | 23455SC | SST Round | 2-3/4"(70 mm) | Yes | Yes | Yes | Yes |
| | 23183SC | 23473SC | SST Round | 3-5/16" (84 mm) | Yes | Yes | Yes | Yes |
| VK461 (Obs) | 23190SC | 23447SC | Round | 2-3/4"(70 mm) | Yes | Yes | Yes | Yes |
| | 23174SC | 23463SC | Round | 3-5/16" (84 mm) | Yes | Yes | Yes | Yes |
| | 23179SC | 23482SC | Square | 3-5/16" (84 mm) | Yes | | Yes | Yes |
| VK463 (Obs) VK464, VK465 (Obs) VK632 VK634 | 23190SC | 23447SC | Round | 2-3/4"(70 mm) | Yes | Yes | | |
| | 23174SC | 23463SC | Round | 3-5/16" (84 mm) | Yes | Yes | | |
| | 23179SC | 23482SC | Square | 3-5/16" (84 mm) | Yes | | | |
| VK492 (Obs) | 23190SC | 23447SC | Round | 2-3/4"(70 mm) | Yes | Yes | Yes | Yes |
| | 23174SC | 23463SC | Round | 3-5/16" (84 mm) | Yes | Yes | Yes | Yes |
| | 23179SC | 23482SC | Square | 3-5/16" (84 mm) | Yes | Yes | Yes | Yes |
| VK481 | Not available | 16207SC | Round | 3-5/16" (84 mm) | Yes | Yes | Yes | Yes |
| VK680 | Not available | 16207SC | Round | 3-5/16" (84 mm) | Yes | | | |
| VK538 | 23495SC | 15765SC | Round | 3-5/16" (84 mm) | Yes | Yes | | |
| | 23504SC | 21878SC | SST Round | 3-5/16" (84 mm) | Yes | Yes | | |
| VK469 VK636 | 23495SC | 15765SC | Round | 3-5/16" (84 mm) | Yes | Yes | | |

¹ Screen printing is available on brass finishes, painted finishes, and/or stainless steel materials.


TECHNICAL DATA SHEET
**CONCEALED SPRINKLER COVER
PLATE ASSEMBLIES**
12. CONTACT

Sprinklers, cover plates, and associated accessories are available through Viking distributors only. For assistance, contact your local Viking sales office. Sales office information can be found on our website:

Americas and Asia: www.vikinggroupinc.com/locations OR Europe, Middle East, Africa (EMEA):
www.viking-emea.com/contact

Manufacturer:

The Viking Corporation
5150 Beltway SE
Caledonia, MI 49316
Tel.: (800) 968-9501
Fax: 269-818-1680
Technical Services: 1-877-384-5464
techsvcs@vikingcorp.com

Importer EU:

Viking S.A.
21, Z.I, Haneboesch
L-4562 Differdange / Nieder Korn
Tel.: +352 58 37 37 – 1
Fax: +352 58 37 36
vikinglux@viking-emea.com

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