

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

The Viking Adjustable Concealed Sprinkler Assembly is a pre-packaged assembly which includes a concealed sprinkler assembly, a cover adapter, and an adjustable drop nipple.

Currently, the following sprinklers are available pre-packaged with the Adjustable Concealed Drop: VK461, VK462 and VK465.

Refer to the appropriate sprinkler technical data pages for information on available/listed sprinkler temperature ratings and finishes.

2. LISTINGS AND APPROVALS

cULus Listed:

Refer to the specific sprinkler technical data pages for sprinkler listings and other technical information.

3. TECHNICAL DATA

Specifications:

Connection to Branch Line: 1" Male NPT or 1" Female NPT
 Adjustment Range (Face of Ceiling to Face of Fitting): 1" (Additional 1/2" adjustment in Cover Plate for a total of 1-1/2")

Material Standards:

Sprinkler Assembly: Refer to specific sprinkler data page.
 Stop Ring: Brass UNS-C36000
 Lower Assembly: Brass UNS-C84400
 Rubber Gasket: Buna-N
 Self Forming Screw: Zinc Plated Steel

Ordering Information (Also refer to the current [Viking price list](#)):

Available Since 2008

NOTE: For concealed sprinklers, the cover plate assembly must be ordered separately (refer to the sprinkler technical data page and Viking's current price list).

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.

Part Number List					
Mirage® Adjustable Concealed Pendent Sprinkler Assemblies					
Adjustable Concealed Sprinkler Assembly Part Number	SIN	Nominal K-Factor		Connection Type	cUL _{us} Approved?
		U.S.	metric ¹		
14927	VK461	2.8	40.3	1" NPT Male	Yes
14928				1" NPT Female	Yes
14929	VK465	4.2	60.5	1" NPT Male	Yes
14930				1" NPT Female	Yes
14918	VK462	5.6	80.6	1" NPT Male	Yes
14919				1" NPT Female	Yes

¹ Metric K-factor measurement is shown in Bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.

4. INSTALLATION

Viking Adjustable Concealed Sprinkler Assemblies are manufactured and tested to meet the rigid requirements of the approving agency. Adjustable Concealed Sprinkler Assemblies are designed to be installed in accordance with recognized installation standards. Deviation from the standards or any alteration to the sprinklers or flexible connections after they leave the factory including, but not limited to: painting, plating, coating, or modification, may render the sprinkler inoperative and would automatically nullify the approval and any guarantee made by The Viking Corporation. The use of certain types of sprinklers may be limited due to occupancy and hazard.



TECHNICAL DATA

ADJUSTABLE CONCEALED SPRINKLER ASSEMBLY

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DESIGN CRITERIA

cULus Listing Requirements:

Refer to the specific sprinkler data page for the sprinkler model used with the Adjustable Concealed Sprinkler Assemblies. The Adjustable Concealed Sprinkler Assembly is cULus Listed for installation in accordance with the latest edition of NFPA 13.

CAUTIONS:

- For use in heated areas only, including heated areas of dry systems when sprinklers are installed on return bends.
- Concealed sprinklers must be installed in neutral or negative pressure plenums only.

IMPORTANT: Always refer to Bulletin Form No. F_091699 - Care and Handling of Sprinklers. Also refer to the appropriate sprinkler data page. Viking sprinklers and Adjustable Concealed Assemblies are designed to be installed in accordance with the latest edition of Viking technical data, the latest standards of NFPA, FM Global, LPCB, APSAD, VdS or other similar organizations, and also with the provisions of governmental codes, ordinances, and standards whenever applicable. The use of certain types of sprinklers may be limited due to occupancy and hazard. Refer to the Authority Having Jurisdiction prior to installation.

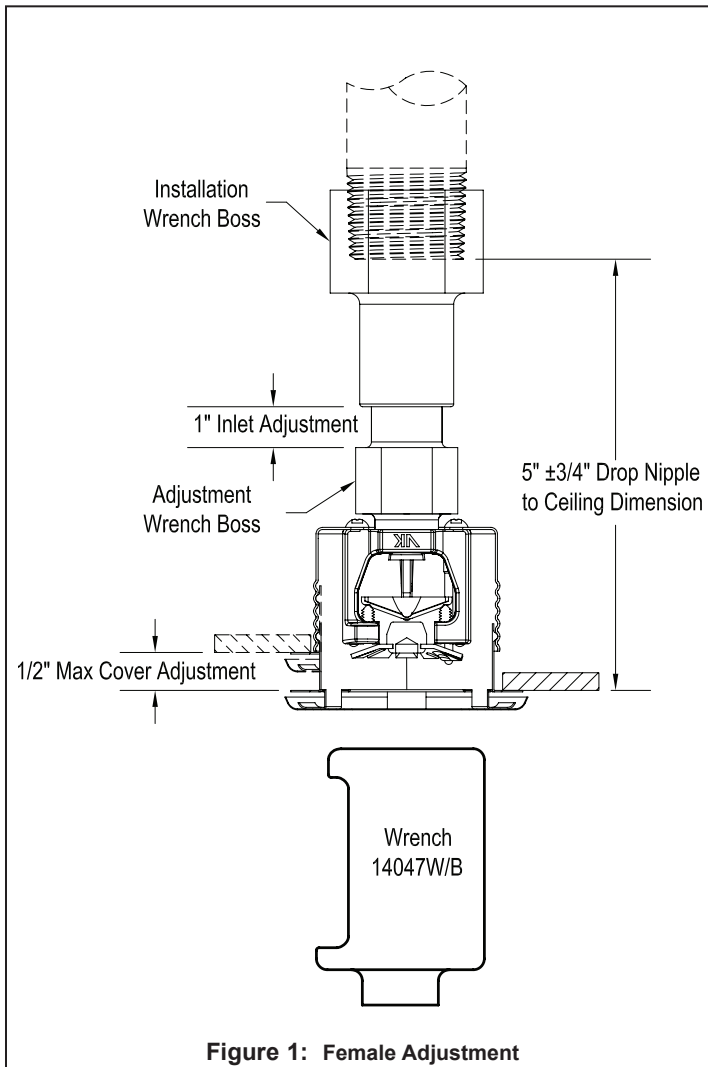


Figure 1: Female Adjustment

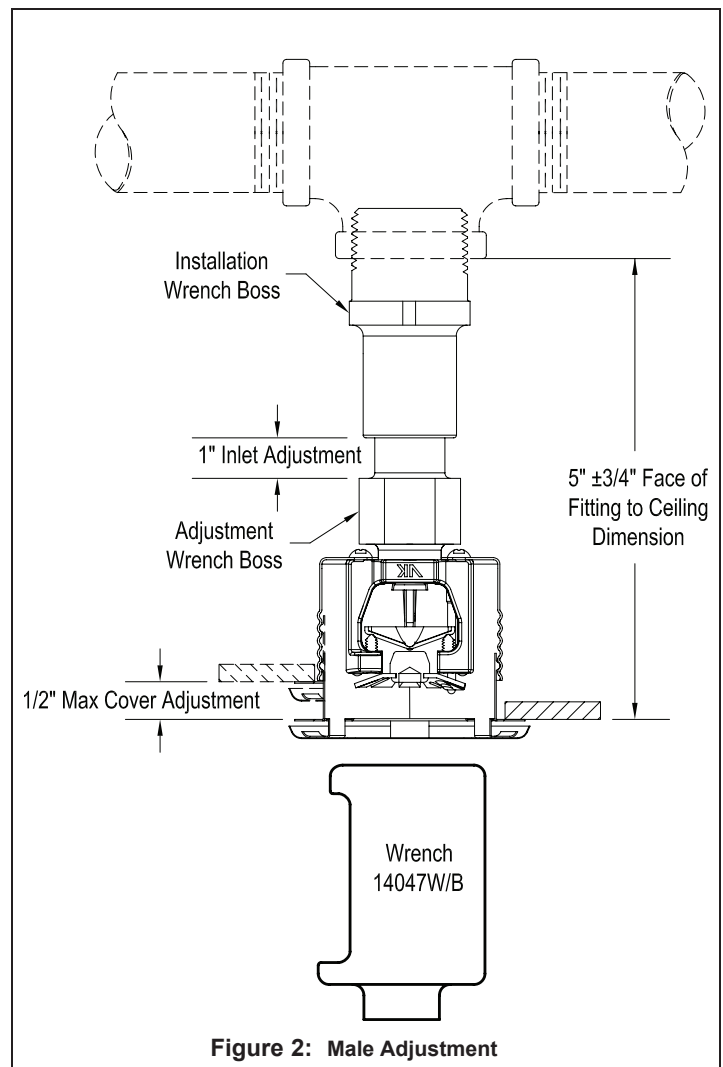


Figure 2: Male Adjustment



TECHNICAL DATA

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Refer to the Authority Having Jurisdiction prior to installation.

Before installation, be sure to have the appropriate sprinkler model and style, with the proper orifice size, temperature rating, and response characteristics. Sprinklers must be installed after the piping is in place to prevent mechanical damage. Keep sprinklers with protective shields or caps contained within the shields or caps during installation and testing, and any time the sprinkler is shipped or handled.

1. Apply Teflon® Tape and/or Pipe Compound to the threads of the adjustable drop when installing a Male Adjustable Drop Assembly, or to the drop nipple when installing a Female Adjustable Drop Assembly.
2. Hand tighten the Adjustable Concealed Sprinkler Assembly into the mating fitting.
3. Using an adjustable wrench on the installation wrench boss, tighten the Adjustable Concealed Sprinkler Assembly into the mating fitting.
4. Using an adjustable on the adjustment wrench boss, adjust the height of the sprinkler.

5. OPERATION

Refer to the sprinkler technical data page for the sprinkler model used with the Adjustable Concealed Sprinkler Assemblies.

6. INSPECTIONS, TESTS AND MAINTENANCE

NOTICE: The owner is responsible for maintaining the fire protection system and devices in proper operating condition. For minimum maintenance and inspection requirements, refer to the latest edition of Viking technical data and the NFPA standard that describes care and maintenance of sprinkler systems. The Authority Having Jurisdiction may have additional maintenance, testing, and inspection requirements that must be followed.

- A. Sprinklers must be inspected on a regular basis for corrosion, mechanical damage, obstructions, paint, etc. The frequency of inspections may vary due to corrosive atmospheres, water supplies, and activity around the device.
- B. Sprinklers that have been field painted or mechanically damaged must be replaced immediately. Sprinklers showing signs of corrosion shall be tested and/or replaced immediately as required. Installation standards require sprinklers to be tested and, if necessary, replaced after a specified term of service. Refer to the installation standards (e.g., NFPA 25) and the Authority Having Jurisdiction for the specified period of time after which testing and/or replacement is required. Sprinklers that have operated cannot be reassembled or re-used, but must be replaced. When replacement is necessary, use only new sprinklers.
- C. The sprinkler discharge pattern is critical for proper fire protection. Therefore, nothing should be hung from, attached to, or otherwise obstruct the discharge pattern. All obstructions must be immediately removed or, if necessary, additional sprinklers installed.
- D. When replacing existing sprinklers, the system must be removed from service. Refer to the appropriate system description and/or valve instructions. Prior to removing the system from service, notify all Authorities Having Jurisdiction. Consideration should be given to employment of a fire patrol in the affected area.
 1. Remove the system from service, drain all water, and relieve all pressure on the piping.
 2. Using the special sprinkler wrench, remove the old sprinkler and install the new unit. Care must be taken to ensure that the replacement sprinkler is the proper model and style, with the appropriate orifice size, temperature rating, and response characteristics. A fully stocked spare sprinkler cabinet should be provided for this purpose.
 3. Place the system back in service and secure all valves. Check for and repair all leaks.
- E. Sprinkler systems that have been subjected to a fire must be returned to service as soon as possible. The entire system must be inspected for damage, and repaired or replaced as necessary. Sprinklers that have been exposed to corrosive products of combustion or high ambient temperatures, but have not operated, should be replaced. Refer to the Authority Having Jurisdiction for minimum replacement requirements.

7. AVAILABILITY

The Viking Adjustable Concealed Sprinkler Assembly is available through a network of domestic and international distributors. See The Viking Corporation web site for the closest distributor or contact The Viking Corporation.

8. GUARANTEE

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

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