



## TECHNICAL DATA

### USE OF CORRECT INSTALLATION WRENCHES FOR ESFR SPRINKLERS (VK500, VK503, VK510, VK514 AND VK520)

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### CORRECT INSTALLATION WRENCHES FOR USE WITH VIKING ESFR SPRINKLERS

ESFR sprinklers must be installed using the manufacturer's special installation wrench only, while taking care not to over-tighten or damage the sprinkler operating parts. Figure 1 below shows an example of correct use of a designated ESFR sprinkler wrench. Use of any other wrench, such as those shown in Figures 2 through 4 below, could damage the unit.

- Viking ESFR Upright Sprinklers: Use Viking Wrench Part Number 05118CW/B.
- Viking ESFR Pendent K14 and K16.8 Sprinklers: Use Viking Wrench Part Number 10285W/B or double-ended 13635W/B (Side A).
- Viking ESFR Pendent K25.2 Sprinklers: Use Viking Wrench Part Number 12143W/B or double-ended 13635W/B (Side B).
- Viking ESFR Pendent K28 Sprinklers: Viking Wrench Part Number (double-ended) 13635W/B (Side B only).

The sprinkler is contained in a plastic cap for protection during shipping and installation. With the sprinkler contained in the plastic cap, apply a small amount of pipe-joint compound or tape to the male threads of the sprinkler and then install the ESFR sprinkler by applying the wrench to the sprinkler wrench flats only. DO NOT use the deflector or fusible element to start or thread the sprinkler into a fitting.

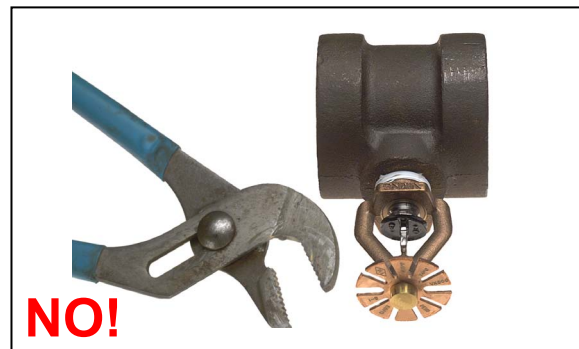
**Take care not to over-tighten the sprinkler and/or damage its operating parts!**

**Maximum Torque: 3/4" NPT: 20 ft-lbs. 1" NPT: 30 ft-lbs.**

**DO NOT** install sprinklers onto piping at the floor level. Install sprinklers after the piping is in place at the ceiling to prevent mechanical damage.



**Figure 1:** Correct use of designated installation wrench with ESFR Pendent K14 Sprinkler SIN VK500 and sprinkler cap



**Figure 2:** Incorrect installation wrench (ESFR sprinkler shown with Channel Locks)



**Figure 3:** Incorrect installation wrench (ESFR sprinkler shown with a crescent wrench)



**Figure 4:** Incorrect installation wrench (ESFR sprinkler shown with a pipe wrench)

**NOTE:** The sprinklers are contained in plastic caps for protection during shipping and installation. Remove the caps from the sprinklers **AFTER** installation. Use care when removing the caps to prevent dislodging the ejector spring or damaging the fusible element. The caps **MUST** be removed from sprinklers **BEFORE** placing the system in service!

**Warning:** Never install sprinklers that have been dropped, damaged, or exposed to temperatures in excess of the maximum ambient temperature allowed. Any sprinkler with damage to the operating element should be destroyed.

Refer to the latest appropriate technical data pages for complete care, handling, and installation instructions. Data pages are included with each shipment from Viking or Viking distributors. They can also be found on the Viking Web site at [www.vkinggroupinc.com](http://www.vkinggroupinc.com).