

X-BRACE VALVE AND FLEXIBLE CONNECTION FOR FIRE SPRINKLERS

ABSTRACT

A fire sprinkler head (12) has a valve (42) with an X-brace latch (54), and includes a flexible conduit (14). A sprinkler nozzle (16) is secured to a first end of the flexible conduit (14). The sprinkler nozzle (16) includes a first fitting (28), a sprinkler orifice (20) and fusible element (22). A second fitting (40) is secured to the second end of the flexible conduit (14) and includes the valve (42). The valve (42) has a valve element (44) which is moveable from a latched position to an unlatched position. A flexible link (56) extends from the sprinkler nozzle (16) to the X-brace valve latch (54). Breaking of the fusible element (22) releases the flexible link (56) to move from the latched position to the unlatched position, releasing the valve (42) for flow there-through.

Figure 2