

## FIRE PIPE (DRY RISER)

### 1. Product image



### 2. Product description

Fire pipes are installed for the fire brigade in industrial, office and commercial buildings, as well as in residential buildings. Fire pipes make the fire brigade's extinguishing work faster and more efficient and speed up the start of extinguishing. Water is conducted along the pipe to the roof, the pipe has hose connections that are compatible with the water hoses of the fire brigade, both at the top and bottom.

With the valve underneath, the pipe can be drained, and pressure released, allowing the claw connector underneath to be opened. As an option, the top end of the pipe has a shut-off valve to cut off the water supply from the roof, for example, to move the hoses. This makes extinguishing work easier.

If the dry riser pipe is required to be in the basic equipment level of the building, the dry riser pipe must be manufactured in accordance with standard SFS 4317. In this case, both the shut-off valve at the top and the drain valve at the bottom belong to the equipment level of the pipe. In this case, the size of the line valve is DN 40. The fire pipe is made of  $\varnothing$  88.9 mm stainless steel.

Long pipes are delivered in parts of the agreed length. The ends of the extended pipes have a PN40 pressure-rated clamp tightened with two M10 bolts.

The water pump of the fire engine will deliver pressure shocks to the fire pipe, which may put a strain on the wall mounting points. Therefore, the lower end of the fire pipe should rest on a firm fixed point or the lowest support legs of the ladder should be taken up to the plinth. Similarly, the upper end of the pipe should be supported so that it does not swing with moderate force.

If the pipe is tested after installation, all pipe joints are checked after the test. In the image, the support between the legs of the service ladder is enough to stiffen the lower mounting point.



The dry riser pipes can be attached either directly to the wall or to the service ladder using additional support parts. The bottom and top of the pipe must be adequately supported. The lowest legs of the ladder are attached to the plinth.

The length of the dry riser pipes is dimensioned according to the building. The maximum the length is 6,000 mm. Pipes longer than this are made with connecting joints, which enable a solution that facilitates the installation and transport of the pipe. Shut-off valves speed up and increase the efficiency of the fire brigade in the event of a fire.

### 3. Product principle drawing

#### Stainless steel dry riser pipe with 3" fire connectors

- The top dry riser pipe is equipped with 3" fire connectors (1) at both the bottom and top end. The pipe extensions have PN40 class clamp joints (2).
- Pressure relief valve (3) at the bottom of the pipe.
- The pipe is equipped with wall/ladder fasteners approximately every 3 metres or on both sides of each extension.

#### Stainless steel dry riser pipe with 3" fire connector With DN 40 ball valve + 2" fire connector (SFS 4317)

- The dry riser pipe below is equipped with a 3" fire connector (1) at the bottom end and a DN40 valve and a 2" fire connector at the top end (2).
- The pipe extensions have PN40 class clamp joints (3).
- Pressure relief valve (4) at the bottom of the pipe.
- The pipe is equipped with wall/ladder fasteners approximately every 3 metres or on both sides of each extension.

