

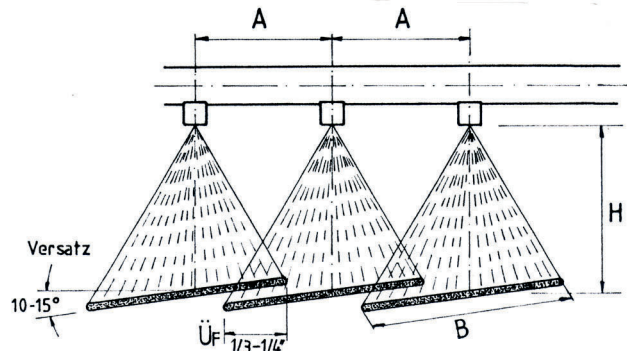
When installing more than one nozzle, it is important to ensure that their spray cones or fans overlap!

1. Installation of flat fan resp. square full cone nozzles

Flat Fan Nozzles provide a consistent, uniform coverage of the impact area if spray widths overlap by 1/3 to 1/4.

The nozzle outlets should be offset by 5°-15° to the pipe axis.

Distance A = 1/3 - 1/4 from B

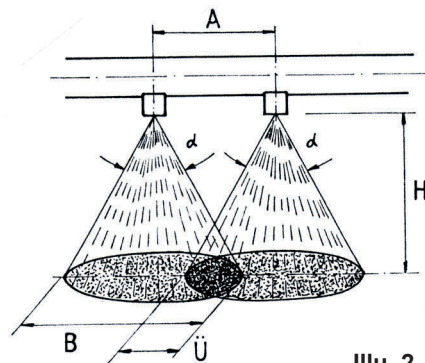


Illu. 1

2. Installation of full and hollow cone nozzles

Nozzle distance A should have a size which enables the spray cones to overlap in height H before reaching the area to be sprayed.

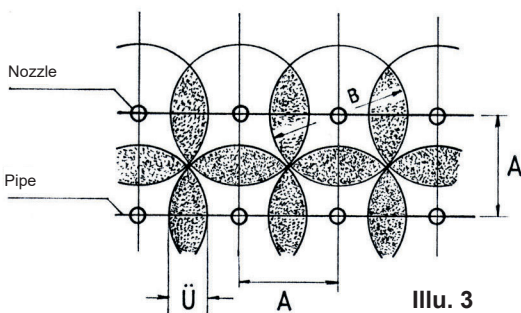
- Ü = overlap of spray angle
- h = overlapping at max. height
- B = spray diameter (actual)
- H = nozzle's installation height
- A = interval between nozzles
- α = spray angle



Illu. 2

3. Square or offset installation of full and hollow cone nozzles

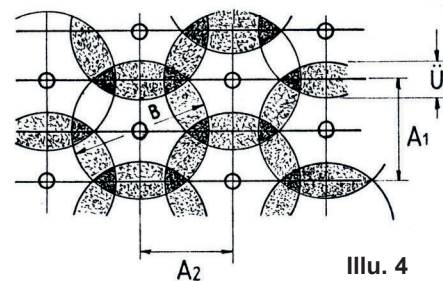
Square arrangement



Illu. 3

Nozzle interval: $A = \frac{B}{\sqrt{2}}$
 Overlap: $\ddot{U} = B - A$

Offset arrangement



Illu. 4

Nozzle interval: $A_1 = \frac{B}{2} \times \sqrt{3}$
 Nozzle interval: $A_2 = \frac{3}{4} B$
 Overlap: $\ddot{U} = B - A_1$