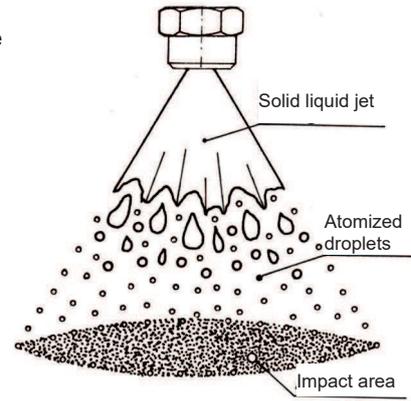


Flat fan nozzles feature a special kind of outlet, designed to generate a fan-like jet. The characteristic, solid stream is produced behind the nozzle opening. In the course of the spraying process, the fan-like jet resolves into single droplets which form an elliptic or square impact surface. The droplets continue to move along a straight line, and possess a large energetic potential due to their size and hardly any friction inside of the nozzle. They are particularly suitable for the formation of water curtains.

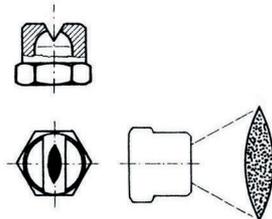
Spoon-shaped and tongue-shaped nozzles feature a different kind of outlet. Liquid exits a cylindrical bore, and is deflected from a deflector plate, which shapes a spray fan. Spray angles of up to 190° are possible.



Illu. 1

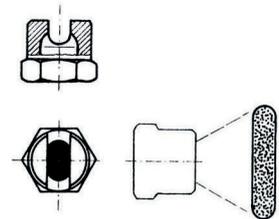
V-shaped outlets are a standard design for most nozzle types. They produce elliptical impact surfaces.

Illu. 2



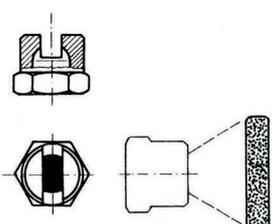
Semicircular orifices result in rather rectangular impact surfaces when using small spray angles and consistent liquid distribution.

Illu. 3



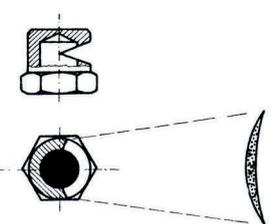
Square orifices produce visibly rectangular impact surface.

Illu. 4



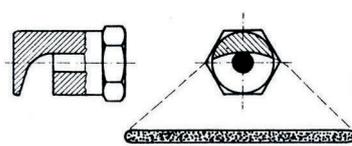
With tangential flat fan nozzles, liquid is deflected by 90°. The jet is characterized by a slightly convex, elliptical shape.

Illu. 5



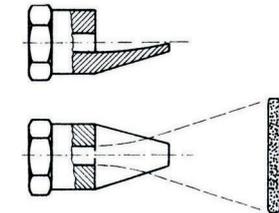
Tongue-shaped nozzles usually display a deflection of 75°. The liquid stream is led axially towards the deflection plate and forms a broad liquid jet afterwards.

Illu. 6



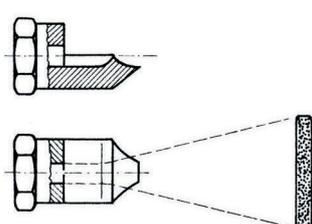
Spoon-shaped nozzles LD deflect the cylindrically- and axially-led liquid stream in a manner which produces a square and edged impact surface. The deflection angle is shown in corresponding charts.

Illu. 7



Spoon-shaped nozzles L and LK can be manufactured with varying spray angles. According to their size, they have either a slight deflection or a deflector flange, which fan out the cylindrically- and axially-led liquid stream.

Illu. 8



Solid stream nozzles are a special form. Here, a fanning-out of the discharged liquid is not desired. Instead, these nozzles are characterized by a long and consistently solid stream with a small impact point and high forces of impact.

Illu. 9

