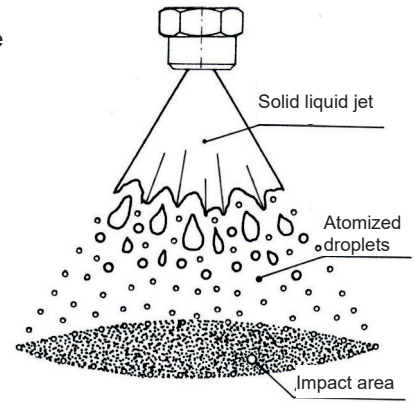


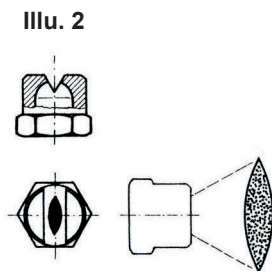
Flat fan nozzles feature a special kind of outlet, designed to generate a fan-like jet. The characteristic, solid stream is produced behind the nozzle opening. In the course of the spraying process, the fan-like jet resolves into single droplets which form an elliptic or square impact surface. The droplets 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.

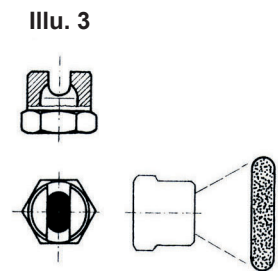


Illu. 1

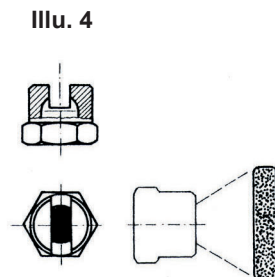
V-shaped outlets are a standard design for most nozzle types. They produce elliptical impact surfaces.



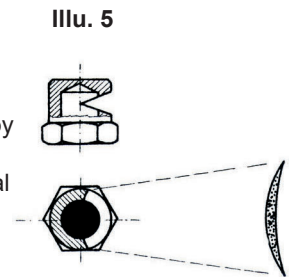
Semicircular orifices result in rather rectangular impact surfaces when using small spray angles and consistent liquid distribution.



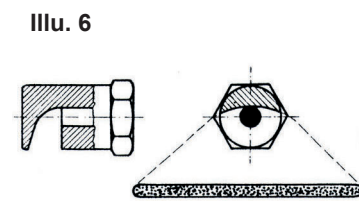
Square orifices produce visibly rectangular impact surface.



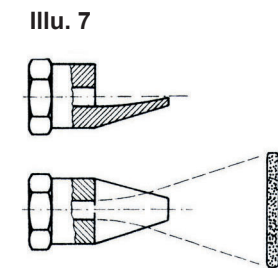
With tangential flat fan nozzles, liquid is deflected by 90°. The jet is characterized by a slightly convex, elliptical shape.



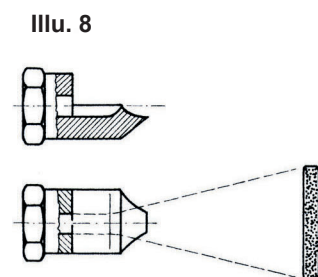
Tongue-shaped nozzles usually display a deflection of 75°. The liquid stream is led axially towards the deflection plate and forms a broad liquid jet afterwards.



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.



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.



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.

