A nozzle is a device which converts the energy from a fluid into velocity of the spray droplets. Applications in many industrial processes are numberless, with spray nozzles being very often a critical component in determining the final quality of the product or the efficiency of the process.

For this reason the available nozzle range types for industrial applications can be found in PNR nozzle catalogue, as well as a concise but complete information about the most important parameters which can give a technical definition of a spray and its quality. We have grouped in the following the most useful formulas for designing a spray system, showing the influence of the different factors which can affect the process of spraying.

More information about the working life of a nozzle and the best suited material for a given purpose can be found at page 17 of this publication.

All the following data, when not otherwise specified, refer to spraying water at 15° C.