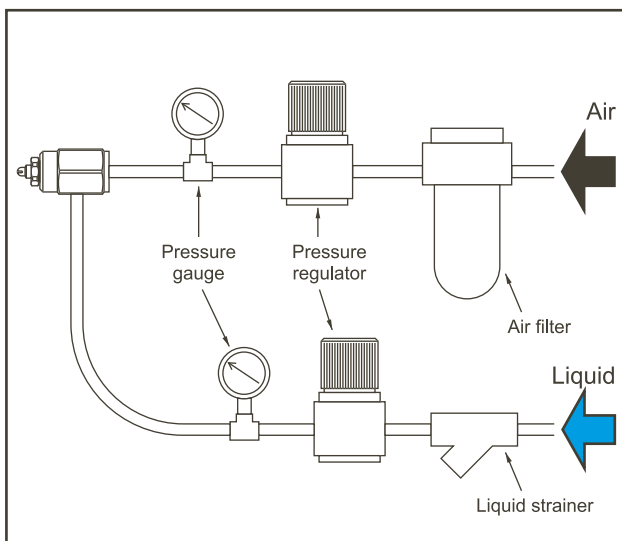


2. Liquid feeding system

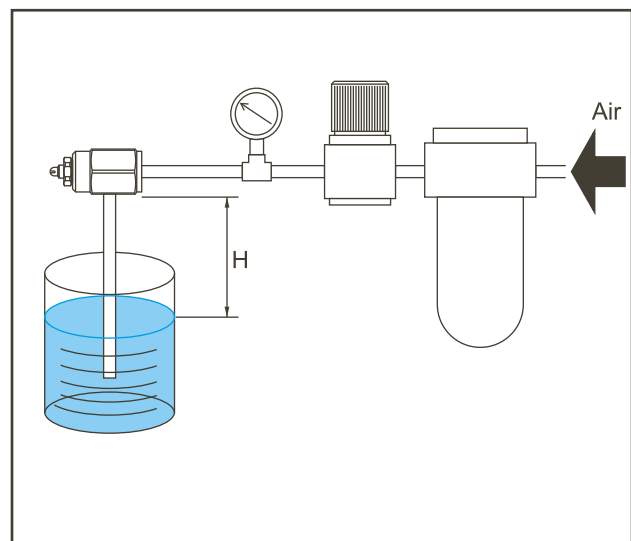
Two liquid feeding systems are available.

One is the **liquid pressure system** (using pressurized liquid) and the other one is the **liquid siphon system** (using liquid sucked up by compressed air).

Liquid pressure system

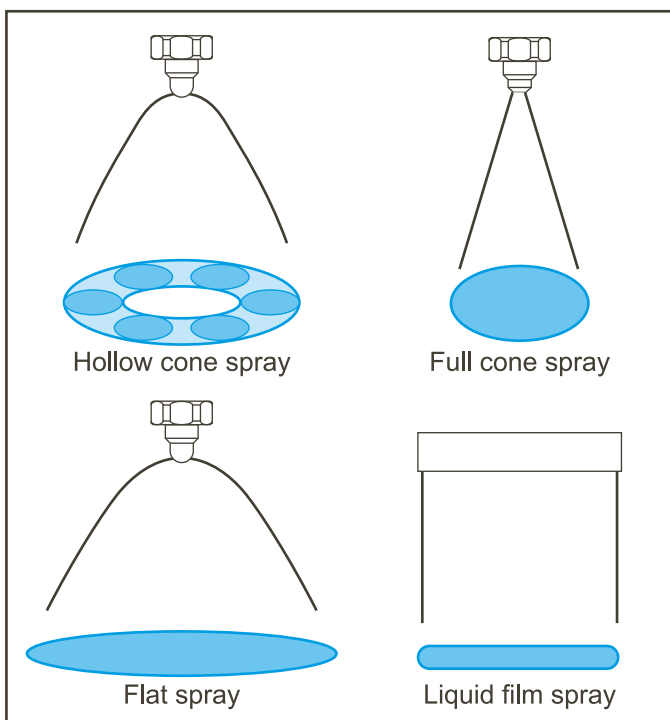


Liquid siphon system



Spray capacity differs depending on liquid siphon height (H).

3. Spray pattern



Spray pattern means the cross sectional shape of spray.

As illustrated, spray patterns are available in cone spray (hollow cone spray and full cone spray), flat spray, and liquid film spray.

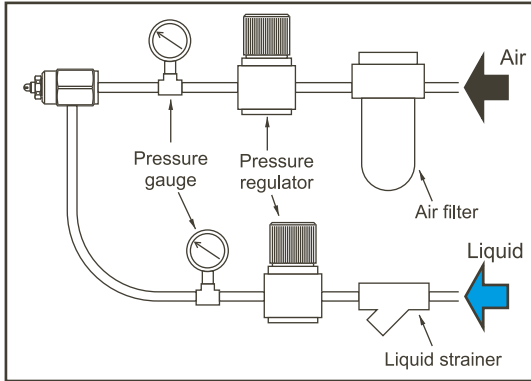
It is important to select a spray pattern suited for each application, thus, delivering the optimal nozzle performance.

Hollow cone sprays and full cone sprays are suitable for humidification, cooling gases, chemical reactions and moisture control, etc., while flat sprays and liquid film spray are suitable for cooling, coating, etc.

The spray patterns of pneumatic spray nozzles deform significantly as the distance from the nozzle becomes greater.

Technical Information on Pneumatic Spray Nozzles

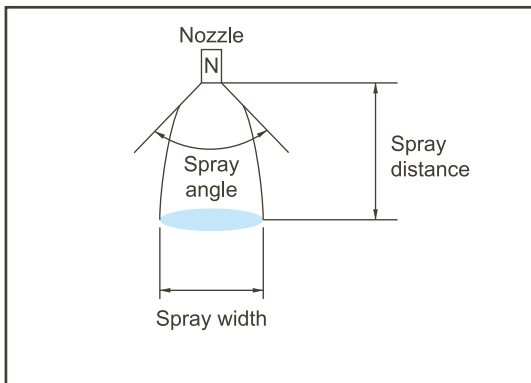
4. Spray pressure



For each series of pneumatic spray nozzles, the most commonly used pressures or pressures at which the characteristics can be achieved are defined as the standard pressures.

The figures in this catalog are based on compressed air and tap water at room temperature and the pressures are measured at the immediate upstream of each nozzle.

5. Spray angle

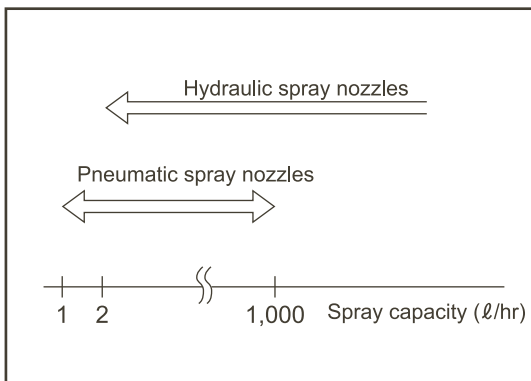


The spray angle is measured at the top of the spray made by straight lines extending along the outer edges of the spray.

Pneumatic spray nozzle's flow velocity is so fast that the specified spray angle is maintained only at the top of spray.

For nozzle alignment, please refer to the spray width data indicated in each table.

6. Spray capacity



The spray capacity is the water volume flow rate sprayed from the nozzle. One of the features of pneumatic spray nozzle is to spray at extremely small capacity such as 1.7 cc/min. or 0.1 ℓ/hr.

Spray capacities shown in this catalog are based on tap water at room temperature.

(The air consumption is expressed as the normal volume at atmospheric pressure.)

Standard pressure and spray capacity inspection standard (at each standard pressure) are set for each pneumatic spray nozzle series.

Only the nozzles that pass the inspection will be shipped.