

Air Atomiser Nozzles

Fluid and compressed air are combined to produce a very fine spray and low flow rates. A variety of flat fan and full cone distribution patterns and a range of angles are possible.

Precise control of the liquid flow is possible to produce very fine mists (fog) that barely wet a surface. Typically used for environmental control such as cooling, dust suppression fire suppression or fine coating applications.



Nozzle Characteristics

Fine fog achieved by mixing compressed air and fluid for the lowest fluid useage and minimal wetting. Requires an air supply. Available with shut-off and clean out options in a very wide range of flows and spray distribution patterns. Please contact us with details of your application.

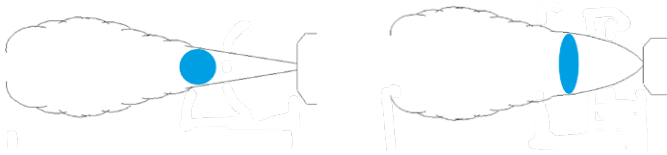


Impact	Flow	Droplet Spectrum
Low	Very low	Very fine

Spray quality can be made finer by increasing air pressure or reducing liquid pressure in the mix

Standard Spray Angles

10° - 80° to produce a wide range of fan and full cone fog patterns. Standard pressures depend on design between 1 and 6 bar. For full details of all options see www.hypro-ind.co.uk.



Spray droplets are generated by mixing air and fluid either before (internal) or after (external) expulsion through the orifice.

Materials

316 Stainless Steel (S6). Standard materials for seals are Teflon and Viton.

Connections

Flanged	Threaded	Push-Fit
	Female 1/8" or 1/4" BSP	

Applications

Washing/Rinsing	Chemical Spraying	Surface Treatment	Environmental Control/Misting
		✓	✓

Flow rates

From 1.4 litres/hour to 280 litres/hour depending on fog volume required. For full details of all the liquid and air nozzle combination references for different flows and spray patterns options see www.hypro-ind.co.uk.

Liquid Supply

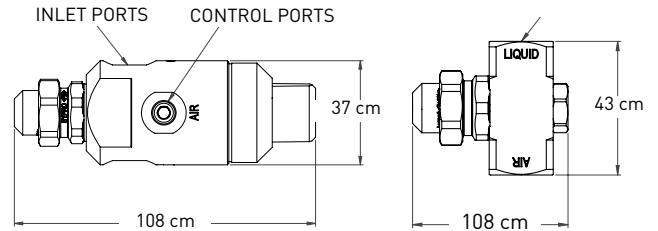
Vapro nozzles can be used in systems where the liquid is either fed to the nozzle from a pump or pressure vessel. These systems achieve a constant regulated flow.

Alternatively a gravity/siphon fed system can be used, These are suitable for low flow rates where liquid flow rate can be adjusted based on the height of the liquid container.

In both systems air pressure can be adjusted until the optimum flow rate and droplet size are achieved.



Vapro Series



Construction

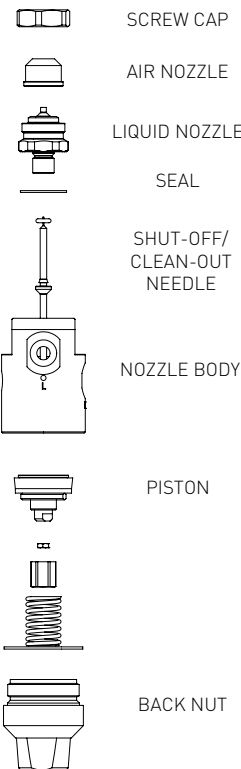
The Vapro assembly consists of an air and a liquid nozzle, the combination of which determines the flow rate and spray pattern. Different air and liquid nozzles are fully interchangeable.

The nozzle body can be supplied with an optional pneumatic cylinder connected to a needle, which opens and closes the liquid orifice on command for automatic shut-off and cleaning.

VP Body: Standard manifold body, no shut-off/clean-out.

VPL Body: Pneumatic piston with single air inlet to operate both shut-off/clean-out and cause atomisation. Min 2 bar.

VPX Body: Pneumatic piston with dual air inlets for independent operation of shut-off/clean-out and atomisation.



S6 B2 VP X C50 F

Example part number (see page 63).

Adaptors are available for mounting nozzles onto ductwork and bulkheads of varying thickness:

B6Q3356KIT: Mounting adaptor kit
B6Q3540: Spray booth mounting kit