Pneumatic atomizing nozzles, for atomizing viscous media
Series 176 ViscoMist™

The ViscoMist™ series offers independent regulation of both atomising air and fan air, which provides the user with infinite control over the viscous fluid’s spray pattern and droplet size.

The ViscoMist™ nozzle features a standard ‘Liquid Shut-Off/Clean-Out Needle’ function. This design element activates and deactivates the liquid supply, while simultaneously removing excess fluid from the fluid nozzle preventing clogging. This feature is especially vital when the viscous liquids are being applied in continuous process environments.

The modular design of the ViscoMist™ allows maximum flexibility to meet the exact spray requirements.

Interchangeable air caps and various flow capacities are available to suit any spraying application needs.

One nozzle – three spray characters
- Solid stream
- Flat fan
- Independent regulation of liquid, atomising air and fan air
- Fluid circulation possible (Nozzle body with 5 connections)

Atomising air / Fan air / Signal air
The atomising air causes the liquid to atomise at the nozzle orifice. The spray character can be adjusted with the fan air to suit the application. The signal air activates the nozzle.

Outside mixing to spray viscous liquids, for example:
- Coating
- Moisturising
- Lubrication
- Glazing
- Sanitising

Fluid cap options
Ø 0.38 mm to 2.54 mm

Valve position
Normally closed, fail-safe with loss of air

Signal air pressure
Min. 1.5 bar
Max. 3 bar

Cycles per minute (short term):
180 cycles / min

Material
1Y (1.4404 (316L))
36 (Nickel plated brass)

Ports
01 (1/8" NPT (F))
11 (1/8" BSPP (F))

Flow rate range
- Water: 78 to 307 l/h, bei 2 bar
- Air: 75 to 28.4 m³/h LNL, at 2 bar

Further information and ordering data on request.

Nozzle body configurations

Nozzle body configuration 2
Atomising Air / Fan Air
Signal Air
Liquid
3 connections

Nozzle body configuration 4
Atomising Air
Signal Air
Fan Air
Liquid
4 connections

Nozzle body configuration 5
Signal Air
Atomising Air
Liquid
Fan Air
Liquid
5 connections