

# ATUL ENGINEERING WORKS

## Atomizing Spray Nozzle



# ATUL ATOMIZING SPRAY NOZZLES

“ATUL Air Atomizing Nozzle” is a unique two-substance nozzle used where very large and high viscous quantities of liquid and pastes have to be turned to mists or fine atomized. Highly atomized sprays can be obtained at comparatively low flow rates. Liquid is fed under suction or by pressure. These nozzles provide an independent passage for liquid and air, whose flow can also be controlled allowing accurate metering.

The mixing in these nozzles takes place in 2 different ways. **1. Internal mix. 2. External mix.**

**Internal mixing** is used where low viscous fluids need to be sprayed, but pressure control for Liquid and Air is required.

**External mixing** is preferred for atomizing viscous fluids thereby avoiding clogging. In this the mixing is done out of nozzle, avoid precise control of liquid and air.

All individual components are available as spare parts. i.e.: nozzle bodies, liquid inserts, Air caps, needle and needle related spares etc. The precise manufacturing of replacement parts ensures interchangeability and retains the desired performances. All parts are manufacturing strictly in SS 316 and SS 316 L materials.



# ATUL BINDER - SPRAY AUTOMIZER

A spray nozzle is a precision device that facilitates dispersion of liquid into a spray. Nozzle are used for three purposes : to distribute a liquid over an area, to increase liquid surface area and create impact force on solid surface. Spray nozzles can be categorized based on the energy input used to cause atomization, the breakup of the fluid into drops. Spray nozzles can have one or more outlets; a multiple outlet.

- Suitable for spraying viscous material.
- Useful for Pharma Food Industries.
- Used in RMG, Chips Making Machines.



A56.10 - VERTICAL BINDER



A56.11 - HORIZONTAL BINDER



A56.12 - MULTIHEAD BINDER

# ATUL COATING NOZZLES

This nozzle is available in a flat fan pattern. This Air Atomizing nozzle is mainly developed for spraying viscous liquids. This nozzle is ideal for atomizing large quantity of liquids in a lesser time. It has 4 independent connections, each for atomizing air, Auto shut off, Fan air and liquid inlet. The independent atomizing air inlet helps in varying the droplet size without affecting the flow rate. All respective inlet connections are of 1/8" BSP(F).

- Useful for Pharma Food Industries.
- Used in Auto Coated Tablet Coating.
- Lab & Production Models available.



Model - A56.18.108.01



Model - A56.15.108.01



Model - A56.9A.106.00



Model - A56.9.106.01



Model - A56.7.082.00



Model - A56.6.102.00



Model - A56.6.104.02



Model - A56.6.104.01



# ATUL PROCESSOR NOZZLES

This nozzle is specially designed to achieve 120° angle and large diameter coverage. This design is available in a cluster of 3, 5, 7, 9 and 11 heads. Full cone nozzles mounted on the nozzle head. It has independent connections for Atomizing and Auto Shut Off Air and Liquid.

- Used in Pharma, Steel, Cement Industries.
- Useful for Gas Cooling and Conditioning.
- Air Pollution Control, Dust Settlement, Atmosphere Humidification.



## PROCESSOR NOZZLE



Model - A56.1.102.00



Model - A56.3.102.02



Model - A56.4.102.01



Model - A56.8.108.01



Model - A56.20.108.01



Model - A56.17.102.01



Model - A56.16.102.00/B



Model - A56.16.102.00/A



Model - A56.21.053.00