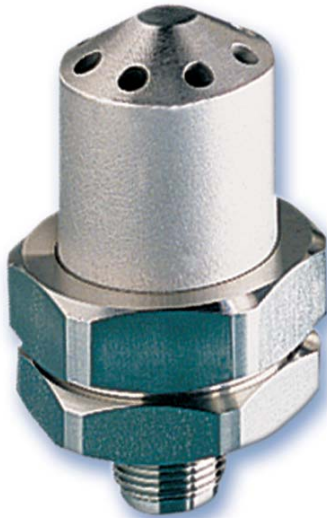




# High-Efficiency FloMax<sup>®</sup> Air Atomizing Nozzles



## Unique atomization process

produces smaller drops using less air than competitive nozzles and makes FloMax nozzles the preferred choice in gas conditioning applications.

## Benefits

- Very small drop size reduces dwell time required for complete evaporation and minimizes the risk of wetting. Plus, the liquid being sprayed generates more surface area per gallon for a complete reaction and total absorption
- Extremely efficient use of air – as little as 30 scfm per nozzle (51 Nm<sup>3</sup>/hr) – lowers energy costs and extends compressor life
- Unsurpassed uniformity of drop size distribution ensures precise, tight control of drop size. FloMax nozzles provide a narrower Relative Span Factor (RSF)\* than other air atomizing nozzles at all air pressures
- Large free passage minimizes the risk of clogging and enables the use of river water, basins and run-off water
- Adjust liquid while maintaining constant air pressure for more operating flexibility
- Large flow rate per nozzle means fewer nozzles are required for cooling. Lower initial purchase cost and less on-going maintenance
- Quick and easy maintenance. Nozzle design consists of just a few components – replacement of the nozzle or just the air cap and/or air annulus can be done without tools
- Sized for gas conditioning applications with flow rates ranging from 0.7 to 30.0 gpm (2.6 to 114 l/min)
- Comprehensive drop size data to assist with nozzle selection and compressor sizing:  $D_{32}$ ,  $D_{Max}$  and  $D_{V0.9}$

\*Relative Span Factor (RSF) is a single number that is indicative of the uniformity of the drop size distribution

## Specifications

### Flow rate ranges:

FM5A: 0.7 to 7.0 gpm (2.6 to 26.5 l/min)

FM10A: 1.3 to 13.0 gpm (4.9 to 49.2 l/min)

FM25A: 10.0 to 30.0 gpm (37.8 to 114 l/min)

High turndown ratio

Patent-pending design

Large free passage

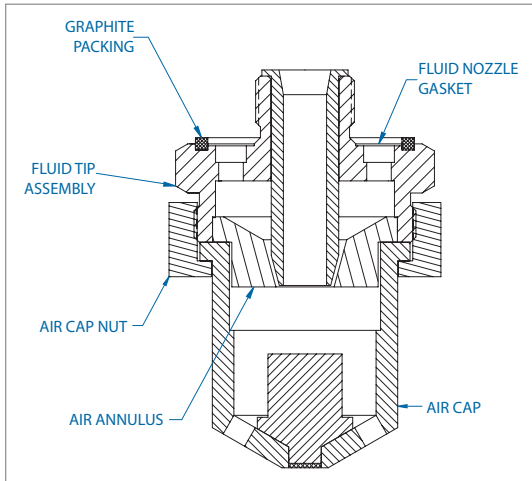
Materials: 310 stainless steel and 316 stainless steel.  
Other materials available upon request

Standard and custom spray lances available in a wide range of materials and configurations



## Description

### FloMax Air Atomizing Nozzles



Data sheets and performance information for the FM5A, FM10A and FM25A can be found at [www.spray.com/gasconditioning](http://www.spray.com/gasconditioning) or requested from your Spraying Systems Co. sales engineer.

Performance data, based on both constant air pressure and constant air volume, includes:

**D<sub>32</sub>**: Sauter Mean Diameter (SMD). This expresses the fineness of a spray in terms of the surface area produced by the spray. The SMD is the diameter of a drop having the same volume to surface area ratio as the total volume of all the drops to the total surface area of all the drops.

**D<sub>Max</sub>**: This is the maximum drop size by volume present in the spray. This diameter is also used when complete evaporation of the spray is required.

**D<sub>v0.9</sub>**: This is the value where 90 percent of the total volume of liquid sprayed is made up of drops with diameters smaller or equal to this value.

#### Ordering Information

FM5A	—	55	—	316SS
 Model Number		 Spray Angle		 Material

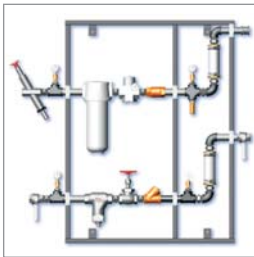
## Spray lances, regulation packages and automated systems



In addition to our FloMax nozzles, we offer components and systems to help ensure optimal performance in gas conditioning applications.

#### Spray lances:

We offer a wide variety of standard and custom spray lances. Choose from air purge, insulated, recirculation, retractable, long kiln lances and more.



#### Valve Regulation Package:

All the components you need to operate FloMax nozzles and lances are assembled on this durable, easy-to-mount rack. Eliminates potential performance problems due to improper sizing and placement of valves, gauges and flowmeters.



#### AutoJet® Gas Conditioning System:

To maximize the performance of FloMax nozzles and experience the benefits of completely automated operation, consider our turnkey solution. Our AutoJet Gas Conditioning System includes a proprietary control system to continuously monitor and adjust the closed loop system. Liquid and air flow to the nozzles is based on data gathered from temperature sensors and ensures the highest level of reactivity and accuracy for the system.



**Spraying Systems Co.®**  
Experts in Spray Technology

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