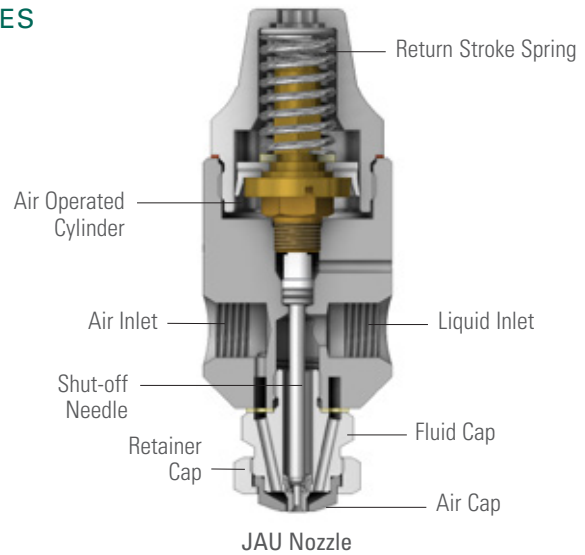


**OVERVIEW: AIR-ACTUATED AIR ATOMIZING NOZZLES**

- Compressed air is used to control air cylinder operation for accurate intermittent spraying (up to 180 cycles per minute) and also for liquid atomization
- Wide variety of nozzle bodies is available for convenient mounting and positioning
- Models available with clean-out needles, shut-off needles, swivels and strainers to optimize performance
- Liquid lines can be pressure-fed, siphon-fed or gravity-fed
- Spray set-ups, consisting of an air cap and a fluid cap can mix the fluids either internally or externally to produce a fine spray pattern
- Dozens of Drip Free™ air atomizing spray set-ups available for a wide range of flow capacity and spray patterns



JAU Nozzle  
JAU air atomizing nozzles mix compressed air and liquid to form a finely atomized spray. An air-actuated internal cylinder with a return stroke spring cycles the nozzle up to 180 times per minute.

**QUICK REFERENCE GUIDE**

Product Number	Inlet Connection Size (in.)	Max Liquid Pressure	Min Air Cylinder Pressure	Max Flow	Max Temp (liquid)	Max Speed	Spray Set-Ups
<b>JAU</b>	1/4 NPT or BSPT (air and liquid)	125 psi (8.6 bar)	30 psi (2.1 bar)	1.2 gpm (4.5 lpm)	160°F (71°C)	180 cpm	1/4J set-ups (page D24)
<b>1/8JAU</b>	1/8 NPT or BSPT (air and liquid)	125 psi (8.6 bar)	30 psi (2.1 bar)	0.55 gpm (2.1 lpm)	160°F (71°C)	180 cpm	1/8JJ set-ups (page D35)
<b>VX-70</b>	1/4 NPT or BSPT (air, fan air and liquid)	100 psi (7 bar)	45 psi (3 bar)	1.3 gpm (4.9 lpm)	180° F (82° C)	250 cpm	VX set-ups (pages D66)
<b>VX-72</b>	1/4 NPT or BSPT (air, fan air and liquid)	100 psi (7 bar)	45 psi (3 bar)	1.3 gpm (4.9 lpm)	180° F (82° C)	250 cpm	VX set-ups (pages D66)
<b>VX-80</b>	1/4 NPT or BSPT (air, fan air and liquid)	100 psi (7 bar)	45 psi (3 bar)	1.3 gpm (4.9 lpm)	180° F (82° C)	250 cpm	VX set-ups (pages D66)
<b>VX-82</b>	1/4 NPT or BSPT (air, fan air and liquid)	100 psi (7 bar)	45 psi (3 bar)	1.3 gpm (4.9 lpm)	180° F (82° C)	250 cpm	VX set-ups (pages D66)
<b>1/8VAU</b>	1/8 NPT or BSPT (atom. air, fan air and liquid)	90 psi (6.2 bar)	35 psi (2.4 bar)	0.83 gpm (3.15 lpm)	200°F (93°C)	180 cpm	SUV set-ups (page D62)
<b>1/4VMAU</b>	1/4 NPT or BSPT, or sanitary flange (atom. air, fan air and liquid)	90 psi (6.2 bar)	35 psi (2.4 bar)	1.22 gpm (4.62 lpm)	200°F (93°C)	180 cpm	SUVM set-ups (page D59)
<b>10535-1/4J</b>	1/4 NPT or BSPT (air and liquid)	125 psi (8.6 bar)	30 psi (2.1 bar)	1.2 gpm (4.5 lpm)	400°F (204°C) liquid 150°F (66°C) air	180 cpm	1/4J set-ups (page D24)
<b>10536-1/2J</b>	1/2 NPT or BSPT (air and liquid)	125 psi (8.6 bar)	30 psi (2.1 bar)	5.1 gpm (19.3 lpm)	400°F (204°C) liquid 150°F (66°C) air	180 cpm	1/2J set-ups (page D43)
<b>D55500-JAU</b>	1/8 NPT or BSPT (air and liquid)	43 psi (3 bar)	72 psi (5 bar)	0.42 gpm (1.6 lpm)	158°F (70°C)	600 cpm	1/4J or DSU set-ups (page D24 & D34)
<b>D55500-JAUCO</b>	1/8 NPT or BSPT (air and liquid)	58 psi (4 bar)	72 psi (5 bar)	0.42 gpm (1.6 lpm)	158°F (70°C)	300 cpm	1/4J or DSU set-ups (page D24 & D34)

### JAUA SERIES NOZZLES

- Flow rates up to 1.2 gpm (4.5 lpm)
- Drip Free™ set-ups provide complete shut-off
- Nickel-plated brass or stainless steel construction



JAUA  
Nozzle

### JAUA NOZZLE OPTIONS



**JAUACO** – Clean-out needle operates with every spray cycle to reduce clogging



**JAUAN** – Knurled head screw control permits manual nozzle shut-off without disturbing operation of other nozzles on a manifold



**JAUAD** – Single air inlet for cylinder and atomizing air



**JAUADN** – Single air inlet for cylinder and atomizing air. Includes manual shut-off assembly to temporarily block liquid flow



**JAUAPM** – Plate-mounted nozzle with all inlet connections at the rear of the mounting plate



**JAUAMCO** – Metering knob provides precise adjustment of liquid flow in 5% increments from zero to 100%

### MORE OPTIONS

**JAUAPMCO** – Combines clean-out needle for reduced clogging with convenience of plate-mounting

**1/8JJAU SERIES NOZZLES**

- Compact design ideal where space is limited
- Flow rates up to 0.55 gpm (2.1 lpm)
- Drip Free™ set-ups provide complete shut-off
- Nickel-plated brass or stainless steel construction



**1/8JJAU  
Nozzle**

**1/8JJAU NOZZLE OPTIONS**



**14700-1/8JJAU** – Knurled head screw control permits manual nozzle shut-off without disturbing operation of other nozzles on a manifold



**14675-1/8JJAU** – Single air inlet for cylinder and atomizing air



**16860-1/8JJAU** – Sprays at a 45° angle from nozzle inlet axis



**38499-1/8JJAU** – Uses 1/4J spray set-ups.



**17690-1/8JJAU** – Available with extensions up to 18" (457 mm)



**49660-1/8JJAU** – Available with extensions and either 45° or 90° spray direction from nozzle body

**MORE OPTIONS**

**1/8JJAUMCO** – Metering knob provides precise adjustment of liquid flow in 5% increments from zero to 100%

**16883-1/8JJAU** – Single air inlet for cylinder and atomizing air. Sprays at a 45° angle from nozzle inlet axis

**PLACING YOUR ORDER**

Call 1.800.95.SPRAY for application assistance or to place an order.

FOR DETAILED SPRAY SET-UP PERFORMANCE DATA  
**SEE SECTION D**



## AIR-ACTUATED AIR ATOMIZING NOZZLE OPTIONS

**VX Variable Spray Series**

- Flow rates from 0.013 gpm (.05 lpm) to 1.3 gpm (4.9 lpm)
- Independent control of liquid, atomizing air and fan air
- Pre-set air cap indexing increments ensure repeatability
- Optional metering knobs to simplify manual adjustments to air and liquid volumes
- Integrated anti-bearding technology to resist buildup on the air cap
- Quick release mounting block for fast and easy nozzle change out
- Liquid recirculation reduces clogging
- VX-70 and VX-72 feature stainless steel and anodized aluminum construction
- VX-80 and VX-82 feature 316 stainless steel sanitary nozzle bodies and components in compliance with FDA and EU regulations

**VAU/VMAU Variable Spray Series**

- Flow rates up to 1.22 gpm (4.62 lpm)
- Independent control of liquid, fan air and atomizing air provides maximum control of spray coverage
- Dual liquid inlets allow recirculating of sprayed fluid
- VMAU offers modular construction for reduced maintenance time
- Stainless steel construction

**10535-1/4J**

- Flow rates up to 1.2 gpm (4.5 lpm)
- Self-contained air cylinder provides controlled intermittent spraying
- Drip Free spray set-ups provide complete shut-off
- Nickel-plated brass or stainless steel construction

**10536-1/2J**

- Flow rates up to 5.1 gpm (19.3 lpm)
- Self-contained air cylinder provides controlled intermittent spraying
- Drip Free spray set-ups provide complete shut-off
- Nickel-plated brass or stainless steel construction

**72100-1/8JJAU**

- Smallest automatic air atomizing nozzle available
- Flow rates up to 0.22 gpm (0.83 lpm)
- Less than 1.5" (38 mm) in length; 1.2 oz. (34 g) net weight
- Optional clean-out needle reduces clogging
- Nickel-plated brass or stainless steel construction

**D55500-JAU/JAUCO**

- Block design 30% smaller than standard 1/4JAU
- Flow rates up to 0.42 gpm (1.6 lpm)
- Available with plate mount and wall mount options
- Drip Free™ spray set-ups provide complete shut-off
- Stainless steel construction
- D55500-JAUCO includes clean-out needle to reduce clogging

