**Overview**

If your application requires precise, automated control of intermittent spraying, you'll find dozens of options in this section. Choose from air or electric operation in a wide variety of configurations, capacities, cycling speeds, materials and more.

Our automatic spray nozzles use the same spray set-ups as our air atomizing spray nozzles or our UniJet® nozzles. Once you've determined which nozzle type is best for your application, please refer to other sections of this catalog for performance data. (Informational notes will direct you to the appropriate section for the spray set-up or spray tip of interest.)

To optimize the performance of automatic spray nozzles, consider adding a spray controller. AutoJet® Technologies, the turnkey systems division of Spraying Systems Co., provides spray control solutions and turnkey spray systems. See Optimization Tips on the following page for more information on how integrated spray control can enhance the operation of these products.

**Product Range:**

- **Automatic air atomizing spray nozzles** can be air- or electrically-actuated.
  - Air-actuated air atomizing nozzles use compressed air along with a pressurized or siphoned liquid to produce a wide variety of spray patterns and drop sizes and can be used with many different liquid viscosities. Models include our JAU, JJAU, 10530 and Variable Spray Series.
  - Electrically-actuated air atomizing nozzles utilize an internal 24 VDC solenoid coil to directly drive a carbide ball tipped shut-off stem. Cycle speeds as high as 10,000 cycles per minute can be achieved. No compressed air is required. Models include our PulsaJet® 10000, AA28 and AA29 Series.

- **Hydraulic automatic spray nozzles** can also be air- or electrically-actuated.
  - Air-actuated hydraulic nozzles use nozzle orifice geometry to precisely disperse and meter a pressurized liquid. Options include AA24AUH, JAUH and JJAUH Series.
  - Electrically-actuated hydraulic nozzles use an internal 24 VDC solenoid coil. Models include our PulsaJet 10000 and AA26AUH Series.

Additional information can be found in Section F, Air Atomizing Spray Nozzles and Sections B, C and D where UniJet spray nozzles are featured.
Optimization Tips

Optimize the performance of your automatic spray nozzles with advanced spray control.

Powered by onboard spray application software, AutoJet® Spray Controllers can monitor and precisely adjust spray variables. From simple timing control to complex closed-loop control, patented technology enables these controllers to optimize the performance of your spray nozzles or manifolds.

How AutoJet Spray Controllers can improve your spray operations:
• Fine-tune timing of automatic spray nozzles to accurately spray moving targets and prevent dripping on nozzle actuation or shut-off.
• Maximize cycle speed of automatic spray nozzles.
• Precisely control liquid pressure, atomizing air pressure and fan air pressure to ensure proper flow rate, spray angle and drop size.
• Establish automatic clean-out cycles to minimize nozzle plugging.
• Easily program system set point parameters.
• Use Pulse Width Modulation (PWM) to vary the flow rate of electric spray nozzles at a fixed pressure.
• Improve troubleshooting of spray performance.
• Notify operators or shut down on specified faults.
• Integrate control of your spray application with existing plant control systems.

AutoJet Spray Controllers from AutoJet Technologies accurately monitor and control spray applications for increased production efficiency.

Self-contained AutoJet Modular Spray Systems provide a convenient way to automate your spray applications. Fully integrated electrical and pneumatic control panels enhance the performance of automatic spray nozzles.

See Introductory Section or visit www.autojet.com for more information on AutoJet Technologies.

Applications ideally suited for spray control:
• Batch spray control
• Coating
• Conveyor spraying
• Even cooling of web- and sheet-based products
• Gas cooling and conditioning
• Lubricating
• Marking
• Tank cleaning

Pulse width modulated flow control involves switching an automatic spray nozzle on and off repeatedly at a controlled rate. PWM provides distinct advantages for some spray applications.
• Easily and very precisely control flow rate without adjusting spray pressure or affecting spray integrity.
• Reduce misting by producing a larger drop size than typical for a given flow and pressure.
• Decrease nozzle clogging by using a larger nozzle orifice while limiting flow rate.
• Provide an extremely high flow turndown ratio that can be achieved at a single pressure (up to 10:1 or more depending on the regulating frequency and spray gun used).

AutoJet Spray Controllers can also utilize a signal from a pressure transducer to automatically compensate for variable supply pressures by adjusting the duty cycle to maintain a constant flow rate.

Note: PWM is not appropriate for all applications. Consult your local sales engineer.
Features and Benefits

- Internal air cylinder for controlled on/off operation up to 180 cycles per minute.
- On/off cycle interrupts only the liquid portion of the spray. (Liquid flow to the nozzle may be by siphon, gravity-feed or pressure-feed.)
- Available in a wide variety of spray set-ups with unique Drip Free™ design for a complete selection of capacities and spray patterns.

**Key feature overview for 1/4JAU:**
- Used with smaller capacity fluid caps.
- 10880-1/4JAU is specified for use with spray set-ups containing fluid cap 08150DF or 100150.

**Key feature overview for 1/4JAUMCO:**
- Index metering adjustment.
- Precise liquid flow metering. Control percentage of total flow in 5% increments from zero to 100%.
- Ideal for manifold situations where adjustments are required on individual nozzles.
- 63003 conversion kit converts existing 1/4JAU nozzles to metering versions.

**Key feature overview for 6218-1/4JAU:**
- Single air line used both for spray atomization and for operation of the air cylinder.
- Air line is regulated at the desired on/off cycle time causing simultaneous flow of atomizing air and liquid.
- Operates up to 180 cycles per minute and requires a minimum air pressure of 30 psi (2 bar).

**Key feature overview for 6083-1/4JAU:**
- Auxiliary shut-off assembly allows temporary liquid shut-off of individual nozzles in a system.
- Compact, precision nozzle has the unique Drip Free design and all the same operating features of the 6218-1/4JAU.

**Key feature overview for 7310-1/4JAU:**
- Knurled head screw control permits manual nozzle shut-off without disturbing operation of other nozzles on a manifold.
- Shares the same overall Drip Free design and operating features with the 1/4JAU.

**Key feature overview for 1/4JAUCO:**
- Clean-out needle which cleans the fluid orifice with each on/off cycle of the nozzle.

**Key feature overview for 1/4JAUPM:**
- Designed to meet special mounting applications and offers all the tested features and choice of Drip Free spray set-ups as the 1/4JAU spray nozzle.
- For easy removal or replacement, the nozzle body is attached to the mounting plate by a single nut.
- For quick and easy service of the nozzle without disturbing air and liquid line connections, all inlets are at the rear of the mounting plate.

**Key feature overview for 19330-1/4JAUPM:**
- Set the precise adjustment of spray atomization with the regulating screw and then lock in the setting with the hex locknut.
- In addition to infinite adjustability, offers the same choice of Drip Free spray set-ups as the 1/4JAU.
- For easy removal or replacement, the nozzle body is attached to the mounting plate by a single nut.
- For quick and easy service of the nozzle without disturbing air and liquid line connections, all inlets are at the rear of the mounting plate.

**Key feature overview for mounting kits:**
- Constructed of stainless steel with 1/2” (13 mm) diameter mounting holes.

Split-eyelet connectors with 38180 swivel union to simplify nozzle installation
Spraying polymer base chemical on cellulose cords for added adhesion and strength.
Optimization Tips

• For the fastest and most precise control of spray cycling and spray pressures possible, use the AutoJet® Spray Controllers with this automatic spray nozzle.
• See page G2 for optimization tips.

Applications

• Die lubrication
• Moistening
• Pattern lubrication
• Spray injection
• Web spraying

Ordering Info

<table>
<thead>
<tr>
<th>COMPLETE NOZZLE ASSEMBLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4 JAU – SS + SUE15A – SS</td>
</tr>
</tbody>
</table>

*Includes retainer and gasket.
BSPT connections require the addition of a “B” prior to the inlet connection.
To order fluid cap only, use fluid cap number (as shown in Section F: 1/8J and 1/4J Series performance data) and material code: J2050-SS.
To order air cap only, use air cap number (as shown in Section F: 1/8J and 1/4J Series performance data) and material code: J73160-SS.
To order spray nozzle without set-up, use inlet connection, nozzle body and material code: 1/4JAU-SS.
Automatic air-actuated nozzles use the same set-ups as standard air atomizing nozzles.
†Spray set-up shown is an example, for more information on spray set-ups and performance data, see Section F, Air Atomizing Spray Nozzles, 1/8J and 1/4J Series.

Materials

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<tr>
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<tr>
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<td>Fluid Cap</td>
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</table>
Air Atomizing, Air-Actuated, JJAU Series

Features and Benefits

- Compact, precision nozzle.
- Internal air cylinder for controlled on/off operation up to 180 cycles per minute.
- The on/off cycle interrupts only the liquid portion of the spray.
- Liquid flow to the nozzle may be by siphon, gravity-feed or pressure-feed.
- Stainless steel return stroke spring results in instantaneous shut-off and long life.
- Air operated cylinder is designed for instant retraction of shut-off needle to start spraying.
- Available in a wide variety of spray set-ups that allow a variety of capacities and spray patterns.

**Key feature overview for 1/8JJAU:**
- Compact with the operating features of the JAU series – designed for use in small areas.
- A minimum pressure of 30 psi (2 bar) for air cylinder operation and a maximum liquid pressure of 125 psi (9 bar) recommended.
- Incorporates Drip Free™ design set-ups for complete shut-off.

**Key feature overview for 16883-1/8JJAU:**
- Compact with a single inlet for both atomizing and cylinder air.
- Designed to spray at a 45° angle to the nozzle inlet axis.

**Key feature overview for 38499-1/8JJAU:**
- Compact with the operating features of the JJAU series.
- Uses all 1/4J spray set-ups for ultimate adaptability.
- Two cylinder air connections allow ganging units and simplify hookups.
- A minimum of 30 psi (2 bar) for air cylinder operation and a maximum liquid pressure of 125 psi (9 bar) recommended.

**Key feature overview for extension 17690-1/8JJAU:**
- Spray set-up extension attached to the stainless steel nozzle assembly.
- Extensions are available in 3", 6", 9" and 12" (8, 15, 23 and 30 cm) lengths. Other lengths available by request.
**Optimization Tips**

- For the fastest and most precise control of spray cycling and spray pressures possible, use the AutoJet® Spray Controllers with this automatic spray nozzle.
- See page G2 for more optimization tips.

**Applications**

- Die lubrication
- Moistening
- Pattern lubrication
- Spray injection
- Web spraying

**Materials**

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<tr>
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**Ordering Info**

Complete Nozzle Assembly

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<td>1/8 JJAU - SS</td>
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*Includes retainer and gasket.

BSPT connections require the addition of a “B” prior to the inlet connection.

To order fluid cap only, use fluid cap number (as shown in Section F: 1/8JJ Compact Series performance data) and material code: J2050-SS.

To order air cap only, use air cap number (as shown in Section F: 1/8JJ Compact Series performance data) and material code: J73160-SS.

To order spray nozzle without set-up, use inlet connection, nozzle body and material code: 1/8JJAU-SS.

†Spray set-up shown is an example, for more information on spray set-ups and performance data, see Section F, Air Atomizing Spray Nozzles, 1/8JJ compact series.

**See Also**

- For 1/8JJAU, request Data Sheet 14402
- For 16883-1/8JJAU, see Data Sheet 16992
- For 38499-1/8JJAU, request Data Sheet 38499
- For Extension-17690-1/8JJAU, request Data Sheet 17740
- Automatic air-actuated nozzles use the same set-ups as standard air atomizing nozzles. For performance data, see section F, 1/8JJAU, 1/8JJ.
**Automatic Spray Nozzles**

**Air Atomizing, Air-Actuated, Variable Spray Series**

---

**Features and Benefits**

- Provide uniform spray distribution even when spraying viscous liquids.
- Independent control of liquid, atomizing air and fan air pressures is possible for fine-tuning of flow rate, drop size, spray distribution and coverage.
- Patent pending modular body and threadless fluid cap design.
- Easy access dramatically cuts cleaning and maintenance downtime and requires no tools for disassembly.
- Independent air atomizing line can be adjusted to vary spray drop size without affecting liquid flow rates.
- Additional inlet/outlet port allows for liquid recirculation that effectively maintains the flow of viscous liquids.

**VMAU**

- VAU offers automatic operation with two actuator versions to choose from.
- Built-in shut-off/clean-out needle is activated during each cycle to eliminate plugging.
- O-ring sealed air cap on the fluid tip for positive alignment and sealing.
- Anti-bearding set-ups available.
- Variety of external mix spray set-ups available.
- With the fan air in operation, a flat spray pattern is produced.
- A round spray pattern is produced when the fan air is off.
- 1/4" NPT, 1/4" BSPT and sanitary connections available.

**1/4VMAA**

- 1/4" NPT or BSPT or sanitary flange
- Back plug version for applications that do not require an actuator

**Mounting Kits**

- 28945-001-316SS uses clamps to mount VMAU nozzles
- 28945-002-SS uses rods to mount VMAU nozzles

---

**Optimization Tips**

- For the fastest and most precise control of spray cycling and spray pressures possible, use the AutoJet® Spray Controllers with this automatic spray nozzle.
- See page G2 for more optimization tips.

**Applications**

- Food product coating
- Lubrication
- Moisturizing
- Recirculating system
- Viscous liquids

---

**Materials**

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<thead>
<tr>
<th>Material</th>
<th>Material Code</th>
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**Ordering Info**

**NOZZLE BODY**

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Air Atomizing, Air-Actuated, 10530 Series

10535-1/4J

Features and Benefits

- Versatile and practical to meet a variety of liquid spray requirements.
- Produces fine atomization by mixing air and liquid supplied at line pressures up to 125 psi (9 bar).
- Self-contained air cylinder provides controlled on/off operation at any desired frequency up to 180 cycles per minute.
- Completely separate nozzle body and air cylinder assemblies require minimum maintenance and nozzle cleaning is fast and easy.
- For high temperature applications, PTFE packing and gaskets in the nozzle withstand continuous use at temperatures up to 400°F (205°C). Air cylinder packing is recommended for temperatures up to 150°F (65°C).
- Key feature overview for 10535-1/4J:
  - Offers a wide range of capacities up to 72 gph (280 l/h) and a choice of round, wide angle round and flat spray patterns are available with either siphon or pressure Drip Free™ spray set-ups.
- Key feature overview for 10556-1/2J:
  - Offers a wide range of capacities up to 306 gph (1158 l/h) and a choice of round, wide angle round and flat spray patterns are available with either siphon or pressure Drip Free spray set-ups.
- Key feature overview for 10537-1J:
  - Offers a wide range of capacities up to 29 gpm (107 l/min) and a choice of round, wide angle round and flat spray patterns are available with either siphon or pressure Drip Free spray set-ups.

Optimization Tips

- For the fastest and most precise control of spray cycling and spray pressures possible, use the AutoJet® Spray Controllers with this automatic spray nozzle.
- See page G2 for more optimization tips.

See Also

- For 10535-1/4J, request Data Sheet 10535
- For 10536-1/2J, request Data Sheet 10536
- For 10537-1J, request Data Sheet 10537
- Automatic air-actuated nozzles use the same set-ups as standard air atomizing nozzles. For performance data, see section F; 1/4J, 1/2J, 1J.

Materials

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<td>303 Stainless Steel</td>
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<td>●</td>
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</tbody>
</table>

Spray Set-ups:

| Nickel-plated Brass Air Cap and 303 Stainless Steel Fluid Cap | SSBR | ● | ● | ● |
| 303 Stainless Steel | SS | ● | ● | ● |

O-ring Material:

| Viton** | (none) |
| PTFE    | TEF    |
| FDA Viton | VIFDA |
| Buna-N  | BU     |
| Ethylene Propylene Rubber | EPR   |

Ordering Info

**Viton is the standard O-ring material.

COMPLETE NOZZLE ASSEMBLY

| NOZZLE BODY* | 1/4 | J | SS | + | SU11DF | SS | TEF |
|--------------|-----|---|----|+  |--------|----|-----|

*Includes retainer and gasket.

†Spray connections require the addition of a “B” prior to the inlet connection.

See Also

- http://www.spray.com
- Phone 1-800-95-spray, FAX 1-888-95-spray
- Visit Our Web Site: www.spray.com, Email: info@spray.com
Air Atomizing, Electrically-Actuated, PulsaJet® 10000JJAU Series

10000JJAU

Features and Benefits

- Specifically designed for fast on-off operation.
- Electronically activated air atomizing spray nozzle. Compact, lightweight design with liquid and electrical connections on back end, ideal for automatic or robotic applications.
- Designed for use with the 2250 AutoJet® Spray Controller, but will work with any 24V power supply device.
- Continuous duty or high speed cycling; up to 10,000 cycles per minute, when used with the 2250 AutoJet Spray Controller.
- No packing or seals against moving parts to wear out.
- Automatic air atomizing nozzles use the same set-ups as standard air atomizing nozzles.
- Constructed of stainless steel, Ryton® and Peek™ for maximum chemical resistance, seals are Viton®.

Optimization Tips

- For the fastest and most precise control of spray cycling and spray pressures possible, use the AutoJet Spray Controllers with this automatic spray nozzle.
- See page G2 for more optimization tips.

See Also

- For 10000JJAU, request Data Sheet 10000JJAU
- PulsaJet 10000JJAU

Applications

- Coating
- Lubricating
- Marking
- Moisturizing
- Robotic
- Sealing
- Sealing

Ordering Info

**COMPLETE NOZZLE ASSEMBLY**

<table>
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<td>Model No.</td>
<td>Spray Set-up</td>
<td>Retainer Cap</td>
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</tbody>
</table>

For 10000JJAU, request Data Sheet 10000JJAU

PulsaJet 10000JJAU

Coating, Lubricating, Marking, Moisturizing, Robotic, Sealing

See also page G2 for more optimization tips.

Visit Our Web Site: www.spray.com, Email: info@spray.com
Air Atomizing, Electrically-Actuated, AA28JJAU Series

Features and Benefits

- **Key feature overview for AA28JJAU-49815:**
  - Compact, high-speed, electrically-actuated, intermittent nozzle used primarily in applications where space is tight.
  - All connections are located at the rear of the gun to minimize nozzle profile.
  - The mounting and connections are not disturbed during maintenance because of a quick-change fluid module for replacing wear parts.
  - Can be used for continuous spraying or high-speed cycling – up to 2000 cycles per minute.
  - Maximum liquid pressure is 125 psi (9 bar) and maximum air pressure is 100 psi (7 bar).
  - All fluid wetted parts are stainless steel, carbide, EPDM rubber or nylon for long life and efficient cleanup.
  - May be mounted in any position using a flat bracket or 5/16” (7.9 mm) diameter rod.
  - In-line, 45° or 75° spray direction fluid modules are available. Maximum fluid orifice is .028” (.71 mm).

- **Key feature overview for AA28JJAU-50940:**
  - Same features as the in-line AA28JJAU-49815 and provides additional chemical and corrosion resistance.
  - Lightweight – Celcon® outer body and housing with stainless steel 50945-fluid modules.

- **Key feature overview for AA28JJAU-46090:**
  - Same features as the in-line AA28JJAU but uses a soft shut-off seat design in the fluid cap to provide positive shut-off and a clean, accurate spray plus eliminates problems with needle-sticking common to many nozzles.
  - Available with a shut-off needle or clean-out needle.

Optimization Tips

- **For the fastest and most precise control of spray cycling and spray pressures possible, use the AutoJet® Spray Controllers with this automatic spray nozzle.**
- **See page G2 for more optimization tips.**

Applications

- Can coating

See Also

- For AA28JJAU-50940, request Data Sheet 50940.
- For AA28JJAU, request Data Sheet 28JJAU.
- For performance data, see Section F; 1/4JAU, 1/8 and 1/4J.

Ordering Info

**COMPLETE NOZZLE ASSEMBLY**

<table>
<thead>
<tr>
<th>AA28JJAU-1/8</th>
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<tr>
<td>Nozzle Body</td>
<td>15 Spray Set-up</td>
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</table>

BSPT connections require the addition of a “B” prior to the inlet connection.

Automatic air actuated nozzles use the same set-ups as standard air atomizing nozzles.

1Spray set-up shown is an example, for more information on spray set-up and performance data, see Section F, Air Atomizing Spray Nozzles, 1/8J, and 1/4J Series.
Air Atomizing, Electrically-Actuated, 29JAUCO Series

29JAUCO

1/4" NPT or BSPT air and liquid inlet connections

Features and Benefits

- Key feature overview for 29JAUCO:
  - Electrically operated air atomizing spray nozzle.
  - Clean-out needle standard for all fluid cap sizes.
  - Designed for use with threadless 1/4J fluid caps.
  - Use with all standard 1/4J air caps.
  - Mounts to flat surface or bracket.
  - Wetted parts are constructed of stainless steel, Ryton®, PTFE and PEEK™ for maximum chemical resistance. Seals are Viton®.
  - Maximum operating pressure: 60 psi (4.1 bar) liquid, 100 psi (6.9 bar) air.
  - Maximum flow rate: 0.8 gpm (3.0 l/m) at 20 psi (1.4 bar).
  - Maximum fluid operating temperature: 150°F (66°C).

Optimization Tips

- For the fastest and most precise control of spray cycling and spray pressures possible, use the AutoJet® Spray Controllers with this automatic spray nozzle.
- See page G2 for more optimization tips.

See Also

- 29JAUCO Automatic Air Atomizing Spray Nozzle.
- For 29JAUCO, request Data Sheet 29JAUCO.
- For performance data, see Section F; Air Atomizing Spray Nozzles, 1/8J and 1/4J Series.

Applications

- Coating
- Food processing
- Lubrication
- Marking
- Moisturizing
- Robotic
- Sealing

Ordering Info

<table>
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</table>

Phone 1-800-95-spray, FAX 1-888-95-spray
Visit Our Web Site: www.spray.com, Email: info@spray.com
Hydraulic, Air-Actuated, JJAUH and JAUH Series

Features and Benefits

- Compact and designed for use with UniJet® spray tips for precise, automated control of intermittent spraying.
- Minimum of 30 psi (2 bar) air pressure is required for operation.
- Cycles per minute: 180.
- Maximum fluid pressure: 125 psi (9 bar).

1/8JJAUH

1/8" NPT or BSPT (F) air and liquid inlets
Capacity: 0.3 gpm (1.1 l/min)

1/4JAUH

1/4" NPT or BSPT (F) liquid inlet connection
1/8" NPT or BSPT (F) air cylinder inlet connection
Capacity: 0.8 gpm (3 l/min)

Applications

- Chain lubrication
- Die lubrication
- Moisturizing
- Spray coating
- Web spraying

See Also

†Spray tip shown is an example, for more information on spray tip and performance data see Section B, Full Cone Nozzles, Section C, Flat Spray Nozzles, Section D, Hollow Cone Nozzles and Section E, Fine Spray Nozzles.

Materials

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<td>1/4JAUH</td>
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</table>

Other materials available upon request.

Ordering Info

COMPLETE NOZZLE ASSEMBLY

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<th>Inlet Conn.</th>
<th>Nozzle Body</th>
<th>Material Code</th>
<th>Tip Type</th>
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<tr>
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<td>+ TP 00050 - SS</td>
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</table>

†Spray tip shown is an example, for more information on spray tip and performance data see Section B, Full Cone Nozzles, Section C, Flat Spray Nozzles, Section D, Hollow Cone Nozzles and Section E, Fine Spray Nozzles.

BSPT connections require the addition of a “B” prior to the inlet connection.
Features and Benefits

• Provides a controlled intermittent liquid spray using only liquid pressure as the force for atomization.
• An internal air cylinder automatically interrupts the liquid flow at any desired frequency up to 180 cycles per minute.
• A minimum air pressure of 45 psi (3 bar) is required for the air cylinder. The nozzle operates at liquid pressures up to 600 psi (40 bar).

**Key feature overview for 22AUH:**
- 1/2" (12.7 mm) diameter mounting hole and locking screw for quick installation and positioning on a mounting bar.
- Constructed of brass with nickel-plated external surfaces. Valve seat and packing are made of PTFE and the valve stem is made of stainless steel.
- A variety of flat spray, hollow cone and full cone spray tips are available.

**Key feature overview for 22AUH-SS:**
- Same as 22AUH but have an inlet body and cap assembly of stainless steel.

**Key feature overview for 22AUH-7676:**
- Stainless Steel Valve Seat

**Key feature overview for 22AUH-SS-11024:**
- Same as 22AUH but has two liquid inlets that allow continuous recirculation of the sprayed liquid between the nozzle and the liquid supply.

**Key feature overview for 22AUH-SS-14799:**
- Additional adjusting screw that can limit the stroke of the shut-off needle to control response time more precisely.
- Requires minimum air pressure of 75 psi (5 bar).

**Key feature overview for 22AUH-7676:**
- Same basic design as the 22AUH but equipped with an extension in a choice of lengths.
- Stainless steel valve stem extends throughout the length of the extension and the valve seat is directly behind the spray tip for instantaneous, drip-free control.
- Operates at liquid pressures up to 250 psi (17 bar).

---

**22AUH**
Fluid pressure: 600 psi (40 bar)
Capacity: 5 gpm (19 l/min)

**22AUH-SS**
Maximum fluid pressure: 600 psi (40 bar)
Capacity: 5 gpm (19 l/min)

**22AUH-SS-11024**
Maximum fluid pressure: 800 psi (55 bar)
Capacity: 2 gpm (7.6 l/min)

**22AUH-SS-14799**
Maximum fluid pressure: 800 psi (55 bar)
Capacity: 2 gpm (7.6 l/min)

**22AUH-7676**
Maximum pressure: 250 psi (17 bar)
Capacity: 2 gpm (7.6 l/min)
Hydraulic, Air-Actuated, 22AUH Series

Optimization Tips

• For the fastest and most precise control of spray cycling and spray pressures possible, use the AutoJet® Spray Controllers with this automatic spray nozzle.
• See page G2 for more optimization tips.

Applications

• Food spraying
• Glue spraying
• Lubrication
• Marking
• Metal coating

See Also

• For 22AUH, request Data Sheets 8605 and 18183
• For 22AUH-SS-11024, request Data Sheet 11115
• For 22AUH-SS-14799, request Data Sheet 15343
• For 22AUH-7676, request Data Sheet 8286

†Spray tip shown is an example, for more information on spray tip and performance data, see:
Section B, Full Cone Spray Nozzles
Section C, Flat Spray Nozzles
Section D, Hollow Cone Spray Nozzles
Section E, Fine Spray Nozzles

Ordering Info

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Materials

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<td>Packing Material:</td>
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Cleaning and drying work rolls with AA22AUH air-actuated nozzles in an aluminum finishing mill.
Hydraulic, Air-Actuated, 24AUA Series

**Features and Benefits**

- Lightweight and produces a finely atomized, intermittent liquid spray using only the liquid pressure as the force for atomization.
- Internal air cylinder automatically interrupts the liquid flow at any desired frequency up to 180 cycles per minute.
- Minimum air pressure of 75 psi (5 bar) is required for the air cylinder.
- The nozzle operates at liquid pressures up to 4000 psi (280 bar).

**Key feature overview for 24AUA:**
- 1/2" (12.7 mm) diameter mounting hole and locking screw for quick installation and easy positioning on a mounting bar.
- Shut-off needle and valve seat are available in tungsten carbide or stainless steel.
- Valve seat is located directly behind the spray tip for drip-free shut-off.
- Rear knob locks the shut-off needle in place to prevent accidental discharge while changing spray tips.
- The liquid inlet connection is available in the standard "down" position or one of seven other positions in intervals of 45°.

**24AUA**

- Maximum fluid pressure: 4000 psi (280 bar)
- Capacity: 0.6 gpm (2.3 l/min)

**24AUA-20190**

- Maximum fluid pressure: 3000 psi (210 bar)
- Capacity: 0.6 gpm (2.3 l/min)

**24AUA-8395**

- Maximum fluid pressure: 4000 psi (280 bar)
- Capacity: 0.6 gpm (2.3 l/min)

**24AUA-8980**

- Maximum fluid pressure: 4000 psi (280 bar)
- Capacity: 0.6 gpm (2.3 l/min)

**Key feature overview for 24AUA-20190:**
- Same as 24AUA but has an aluminum support body and end cap which reduce the nozzle’s total weight to just 1-1/4 lbs. (0.6 kg).
- Operates at liquid pressures up to 3000 psi (210 bar) and requires a minimum air pressure of 42 psi (3 bar) for the air cylinder.

**Key feature overview for 24AUA-8395:**
- Same as 24AUA but with two liquid inlets that allow continuous recirculation of the sprayed liquid between the nozzle and the liquid supply.

**Key feature overview for 24AUA-8980:**
- Same as 24AUA but equipped with an extension in a choice of lengths.
- Valve stem extends throughout the length of the extension and the valve seat is directly behind the spray tip for instantaneous, drip-free control.
Hydraulic, Air-Actuated, 24AUA Series

Optimization Tips

• For the fastest and most precise control of spray cycling and spray pressures possible, use the AutoJet® Spray Controllers with this automatic spray nozzle.
• See page G2 for more optimization tips.

Applications

• Applying buffing compounds
• Coatings
• Paint spraying
• PVC sealant spraying

See Also

• For 24AUA, request Data Sheets 10751 and 13086
• For 24AUA-20190, request Data Sheet 20190
• For 24AUA-8980, request Data Sheet 15577

†Spray tip shown is an example, for more information on spray tip and performance data, see:
Section B, Full Cone Spray Nozzles
Section C, Flat Spray Nozzles
Section D, Hollow Cone Spray Nozzles
Section E, Fine Spray Nozzles

Ordering Info

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Materials

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†Spray tip shown is an example, for more information on spray tip and performance data, see:
Section B, Full Cone Spray Nozzles
Section C, Flat Spray Nozzles
Section D, Hollow Cone Spray Nozzles
Section E, Fine Spray Nozzles

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Hydraulic, Electrically-Actuated, PulsaJet® Series

Features and Benefits

- Provides clean and accurate atomized sprays and complete shut-off for high speed automatic applications.
- Electrically activated hydraulic atomizing valve accurately controls flow rate.
- Provides fast on/off operation.
- Using the AutoJet® Spray Controllers, the PulsaJet 10000 provides Pulse Width Modulation (PWM) to adjust flow rate at a given spray pressure while maintaining spray pattern integrity. See page G2, Optimization Tips for more information on the benefits of PWM.
- Compact design eliminates the need for compressed air.
- Minimizes overspray in a wide range of applications.
- Uses standard UniJet® spray tips in a wide range of spray capacities.
- Maximum pressure: 100 psi (7 bar) for all versions.

Key feature overview for AA10000AUH-01:
- Use with standard UniJet spray tip capacities up to the -01 size.
- When paired with the 2250 AutoJet Spray Controller, capable of operating up to 10,000 cycles per minute.

Key feature overview for AA10000AUH-03:
- Use with standard UniJet spray tip capacities from the -015 size to the -03 size.
- When paired with the 2250 AutoJet Spray Controller, capable of operating up to 10,000 cycles per minute.

Key feature overview for AA10000AUH-10:
- Use with standard UniJet spray tip capacities from the -03 size to the -10 size.
- When paired with the 2250 AutoJet Spray Controller, capable of operating up to 5,000 cycles per minute.

Key feature overview for AA10000AUH-30:
- Use with standard UniJet spray tip capacities from the -10 size to the -30 size.
- When paired with the 2250 AutoJet Spray Controller, capable of operating up to 2,500 cycles per minute.

Applications

- Coatings
- Lubricating
- Marking
- Moisturizing
- Robotics
- Sealing

Optimization Tips

- For the fastest and most precise control of spray cycling and spray pressures possible, use the AutoJet Spray Controllers with this automatic spray nozzle.
- See page G2 for more optimization tips.

See Also

- PulsaJet 10000

†Spray tip shown is an example, for more information on spray tip and performance data, see:
- Section B, Full Cone Spray Nozzles
- Section C, Flat Spray Nozzles
- Section D, Hollow Cone Spray Nozzles
- Section E, Fine Spray Nozzles

Ordering Info

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</table>

1/8” NPT or BSPT inlet connection

1/8” NPT or BSPT inlet connection

1/8” NPT or BSPT inlet connection

1/4” NPT or BSPT inlet connection

For more information on spray tip and performance data, see:
- Section B, Full Cone Spray Nozzles
- Section C, Flat Spray Nozzles
- Section D, Hollow Cone Spray Nozzles
- Section E, Fine Spray Nozzles

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Hydraulic, Electrically-Actuated, 26AUH Series

Features and Benefits

- Key feature overview for 26AUH:
  - High speed, high-pressure, airless electric spray nozzle.
  - Automatic spray nozzle for applications requiring an intermittent spray.
  - The liquid pressure alone provides an atomized spray.
  - The nozzle sprays up to 1000 cycles per minute.
  - Faster version is also available which sprays up to 1500 cycles per minute.
  - A removable fluid module contains all fluid handling parts and can be replaced without disturbing the mounting or electrical connections.
  - Wetted parts are made of stainless steel or tungsten carbide for maximum corrosion resistance.
  - Internal seal material is EPDM rubber. Other materials available on request.

- Key feature overview for 26AUH-24200-2-1/2:
  - Same as 26AUH with 2-1/2” (63.5 mm) extension for interior can coating.
  - 22629 swivel nut branch tee (For 26AUH only. See page L34).
  - 50935 mounting kit (For 10000AUH only.)

Optimization Tips

- For the fastest and most precise control of spray cycling and spray pressures possible, use the AutoJet® Spray Controllers with this automatic spray nozzle.
- See page G2 for more optimization tips.

See Also

- For 26AUH, request Data Sheets 26AUH and 26157-1
- For 26AUH-24200-2-1/2, request Data Sheets 26AUH-24200-2-1/2 and 26156
- 26AUH Series nozzle assemblies work with most UniJet spray tips, see:
  - Section B, Full Cone Spray Nozzles
  - Section C, Flat Spray Nozzles
  - Section D, Hollow Cone Spray Nozzles
  - Section E, Fine Spray Nozzles

Ordering Info

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- Nozzle Body
- Model Number
- Extension Size

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Features and Benefits

• **51120 heat jacket:**
  - Keeps viscous fluids warm as they pass through air atomizing nozzles thus reducing clogging.
  - Provides uniform temperature control.
  - Easy installation by slipping over the nozzle and stays connected to heat source while the nozzle is removed for service.
  - Versions for VAU, VMAU, JAU and JJAU air atomizing nozzles.

• **Solenoid valves:**
  - Designed for automatically operated systems requiring on/off flow.
  - Solenoid valves are normally closed and provide dependable service in both air and liquid lines within 40°F to 165°F (5°C to 75°C).
  - 10 watt class “F” coils for continuous duty and UL/CSA approved.
  - Ambient operating temperatures range from 15°F to 122°F (–10°C to 50°C). Coils rated for dual frequency operation suitable for international use. Coil is encapsulated in a molding compound to resist high humidity and fungus growth.
  - Enclosure can be rotated 360° and includes a 1/2” NPT connection.
  - Solenoid valve bodies are available in stainless steel or brass.
  - For high velocity flow, a stainless steel pilot orifice helps eliminate premature leaking and increases service life. Kel-F® or Viton® seals are molded into stainless steel floating bottom plungers.
  - Floating plungers automatically compensate for vibration, shock, wear and deformation providing a bubble-tight seal. Buna-N material is used with diaphragm valves.
  - The solenoid valves can be mounted in any position and are direct pipe mounted.
  - Additional bottom mounting is provided on 11438-20, -21 and -22 by two 10-24 tapped holes.
  - The valve action within these models is diaphragm, pilot-operated diaphragm or direct acting poppet.

• **38680 quick exhaust valve:**
  - Quick exhaust valve increases line exhaust to a full 1/4” port (Cv = 1.0).
  - Air-actuated spray nozzles are quickly shut off without spitting, especially when the quick exhaust valve is mounted more than 3’ (1 m) from the spray gun.

• **Electric band heater:**
  - Ensures easy and economical spraying of atomized viscous liquids.
  - Trouble-free atomization of hard-to-spray liquids such as wax, adhesives, starches and syrups ensures product and process quality and minimizes maintenance time caused by nozzle clogging.
  - Easily slips over the body of a VMAU variable automatic spray nozzle.
  - Heat is efficiently transferred to the band heater in seconds.
  - Even heating of the nozzle inlets, body and air cap assures a consistent liquid temperature and achieves optimal spray performance.
  - Easy removal and disassembly for cleaning saves on maintenance time – especially important when used in dirty environments.
  - Maximum operating temperature: 250°F (121°C).
  - Fiberglass reinforced silicone rubber heat band.
  - Silicone insulated lead wires.
  - Suitable for use with all VMAU variable automatic nozzles in stand-alone and manifold configurations.

See Also

- Request Data Sheet 11438-Solenoid (1), (2)
- Request Data Sheet 38680
- Request Electric Band Heater Data Sheet
- Request Data Sheet 51120-JAU
- Request Data Sheet 51120-JJAU
- Request Data Sheet 51120-VAU
- Request Data Sheet 51120-VMAU

**AA10000AUH-01**

**AA10000AUH-01**

**38680**

**Quick Exhaust Valve**

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