Auto-Flo™ Automatic Dispensing Valve with Locatable Nozzle

Customer Product Manual
Part 303798C
Issued 3/02
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Auto-Flo Automatic Dispensing Valve with Locatable Nozzle

Safety

Read and follow these safety instructions. Task- and equipment-specific warnings, cautions, and instructions are included in equipment documentation where appropriate.

Make sure all equipment documentation, including these instructions, is accessible to persons operating or servicing equipment.

Qualified Personnel

Equipment owners are responsible for making sure that Nordson equipment is installed, operated, and serviced by qualified personnel. Qualified personnel are those employees or contractors who are trained to safely perform their assigned tasks. They are familiar with all relevant safety rules and regulations and are physically capable of performing their assigned tasks.

Intended Use

Use of Nordson equipment in ways other than those described in the documentation supplied with the equipment may result in injury to persons or damage to property.

Some examples of unintended use of equipment include

- using incompatible materials
- making unauthorized modifications
- removing or bypassing safety guards or interlocks
- using incompatible or damaged parts
- using unapproved auxiliary equipment
- operating equipment in excess of maximum ratings

Regulations and Approvals

Make sure all equipment is rated and approved for the environment in which it is used. Any approvals obtained for Nordson equipment will be voided if instructions for installation, operation, and service are not followed.
Personal Safety

To prevent injury follow these instructions.

- Do not operate or service equipment unless you are qualified.
- Do not operate equipment unless safety guards, doors, or covers are intact and automatic interlocks are operating properly. Do not bypass or disarm any safety devices.
- Keep clear of moving equipment. Before adjusting or servicing moving equipment, shut off the power supply and wait until the equipment comes to a complete stop. Lock out power and secure the equipment to prevent unexpected movement.
- Relieve (bleed off) hydraulic and pneumatic pressure before adjusting or servicing pressurized systems or components. Disconnect, lock out, and tag switches before servicing electrical equipment.
- While operating manual spray guns, make sure you are grounded. Wear electrically conductive gloves or a grounding strap connected to the gun handle or other true earth ground. Do not wear or carry metallic objects such as jewelry or tools.
- If you receive even a slight electrical shock, shut down all electrical or electrostatic equipment immediately. Do not restart the equipment until the problem has been identified and corrected.
- Obtain and read Material Safety Data Sheets (MSDS) for all materials used. Follow the manufacturer’s instructions for safe handling and use of materials, and use recommended personal protection devices.
- Make sure the spray area is adequately ventilated.
- To prevent injury, be aware of less-obvious dangers in the workplace that often cannot be completely eliminated, such as hot surfaces, sharp edges, energized electrical circuits, and moving parts that cannot be enclosed or otherwise guarded for practical reasons.

High-Pressure Fluids

High-pressure fluids, unless they are safely contained, are extremely hazardous. Always relieve fluid pressure before adjusting or servicing high pressure equipment. A jet of high-pressure fluid can cut like a knife and cause serious bodily injury, amputation, or death. Fluids penetrating the skin can also cause toxic poisoning.

If you suffer a fluid injection injury, seek medical care immediately. If possible, provide a copy of the MSDS for the injected fluid to the health care provider.
The National Spray Equipment Manufacturers Association has created a wallet card that you should carry when you are operating high-pressure spray equipment. These cards are supplied with your equipment. The following is the text of this card:

**WARNING:** Any injury caused by high pressure liquid can be serious. If you are injured or even suspect an injury:

- Go to an emergency room immediately.
- Tell the doctor that you suspect an injection injury.
- Show him this card
- Tell him what kind of material you were spraying

**MEDICAL ALERT—AIRLESS SPRAY WOUNDS: NOTE TO PHYSICIAN**

Injection in the skin is a serious traumatic injury. It is important to treat the injury surgically as soon as possible. Do not delay treatment to research toxicity. Toxicity is a concern with some exotic coatings injected directly into the bloodstream.

Consultation with a plastic surgeon or a reconstructive hand surgeon may be advisable.

The seriousness of the wound depends on where the injury is on the body, whether the substance hit something on its way in and deflected causing more damage, and many other variables including skin microflora residing in the paint or gun which are blasted into the wound. If the injected paint contains acrylic latex and titanium dioxide that damage the tissue’s resistance to infection, bacterial growth will flourish. The treatment that doctors recommend for an injection injury to the hand includes immediate decompression of the closed vascular compartments of the hand to release the underlying tissue distended by the injected paint, judicious wound debridement, and immediate antibiotic treatment.
**Fire Safety**

To avoid a fire or explosion, follow these instructions.

- Ground all conductive equipment. Use only grounded air and fluid hoses. Check equipment and workpiece grounding devices regularly. Resistance to ground must not exceed one megohm.
- Shut down all equipment immediately if you notice static sparking or arcing. Do not restart the equipment until the cause has been identified and corrected.
- Do not smoke, weld, grind, or use open flames where flammable materials are being used or stored.
- Do not heat materials to temperatures above those recommended by the manufacturer. Make sure heat monitoring and limiting devices are working properly.
- Provide adequate ventilation to prevent dangerous concentrations of volatile particles or vapors. Refer to local codes or your material MSDS for guidance.
- Do not disconnect live electrical circuits when working with flammable materials. Shut off power at a disconnect switch first to prevent sparking.
- Know where emergency stop buttons, shutoff valves, and fire extinguishers are located. If a fire starts in a spray booth, immediately shut off the spray system and exhaust fans.
- Shut off electrostatic power and ground the charging system before adjusting, cleaning, or repairing electrostatic equipment.
- Clean, maintain, test, and repair equipment according to the instructions in your equipment documentation.
- Use only replacement parts that are designed for use with original equipment. Contact your Nordson representative for parts information and advice.
Halogenated Hydrocarbon Solvent Hazards

Do not use halogenated hydrocarbon solvents in a pressurized system that contains aluminum components. Under pressure, these solvents can react with aluminum and explode, causing injury, death, or property damage. Halogenated hydrocarbon solvents contain one or more of the following elements:

<table>
<thead>
<tr>
<th>Element</th>
<th>Symbol</th>
<th>Prefix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluorine</td>
<td>F</td>
<td>“Fluoro-”</td>
</tr>
<tr>
<td>Chlorine</td>
<td>Cl</td>
<td>“Chloro-”</td>
</tr>
<tr>
<td>Bromine</td>
<td>Br</td>
<td>“Bromo-”</td>
</tr>
<tr>
<td>Iodine</td>
<td>I</td>
<td>“Iodo-”</td>
</tr>
</tbody>
</table>

Check your material MSDS or contact your material supplier for more information. If you must use halogenated hydrocarbon solvents, contact your Nordson representative for information about compatible Nordson components.

Action in the Event of a Malfunction

If a system or any equipment in a system malfunctions, shut off the system immediately and perform the following steps:

- Disconnect and lock out system electrical power. Close hydraulic and pneumatic shutoff valves and relieve pressures.
- Identify the reason for the malfunction and correct it before restarting the system.

Disposal

Dispose of equipment and materials used in operation and servicing according to local codes.

Description

The Auto-Flo automatic dispensing valve with locatable nozzle is used in a variety of applications to dispense adhesives, sealants, and other materials. Made of aluminum, this valve is lightweight and versatile.

The Auto-Flo automatic dispensing valve with locatable nozzle is rated for a maximum pressure of 345 bar (5000 psi).
Theory of Operation

See Figure 1.

When air is supplied to the valve-open air inlet (2), the piston is pushed upward, pulling the ball tip (4) off the seat (5). Material flows in the material inlet (3) and out the nozzle. When air is shut off from the valve-open air inlet, a spring on top of the piston forces the ball tip back in the seat and stops material dispensing. For faster dispensing response, install a quick-release valve in the air supply line near the valve-open air inlet. For optimal performance, supply air to the valve-close air inlet (1). The air forces the piston downward to return the ball tip to the seat quickly.

Figure 1  Cutaway View of Dispensing Valve

1. Valve-close air inlet
2. Valve-open air inlet
3. Material inlet
4. Ball tip
5. Seat
Installation

WARNING: Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.

Inspection

Inspect the dispensing valve for damage. If any damage is visible, contact a Nordson representative immediately.

Dispensing Valve Mounting

WARNING: System or material pressurized. Relieve pressure. Failure to observe this warning may result in serious injury or death.

The Auto-Flo automatic dispensing valve with locatable nozzle can be mounted to fixed, mobile, and robotic fixtures. Mounting configurations may vary greatly. Consult your Nordson service representative for specific information on your application.

See Figure 2.

Figure 2 Mounting Dimensions
1. Mounting plate holes
2. Dispensing valve body
3. Hollow dowel pin (2 shipped with each dispensing valve)

To prepare the mounting plate, you will need to drill two holes in the mounting plate. The specifications for those holes are:

- drill 0.165 in. \( \varnothing \) x 0.63 in. deep, maximum
- counterbore 0.320 in. / 0.328 in. \( \varnothing \) x 0.187 in. deep
- tap for an M5 x 0.8-6h threads x 0.50 in. deep or #10-32 threads by 0.50 in. deep
Dispensing Valve Mounting (contd)

See Figure 3.

NOTE: For manifold mount guns, you will need to bore the air-open and material inlet ports into the mounting plate.

![Dispensing Valve Port and Mounting Dimensions](image)

Figure 3 Dispensing Valve Port and Mounting Dimensions

1. Exhaust
2. Air inlet
3. Material inlet

Supply Air Connection

See Figure 1.

Air must be supplied to the valve-open air inlet (2). Multiple valves can be activated with the single air supply. A spring will force the valve closed when air is shut off to the valve-open air inlet. To obtain quicker response:

- mount an air-operated, quick-release valve near the valve-open air inlet, or
- supply air to the valve-close air inlet (1).

Supply air must be taken from an oil-free shop air outlet that will maintain a pressure of at least 4 bar (60 psi). The dispensing valve will not operate properly without the required amount of air pressure (4 to 8 bar (60 to 120 psi)). Dispensing performance will increase at higher pneumatic pressures.
**Material Supply Line**

The Auto-Flo automatic dispensing valve with locatable nozzle has two material inlet ports located on opposite sides of the body. Use either port and leave the other plugged.

Connect a Nordson swivel (purchased separately) to the material inlet. Refer to the manual, *Nordson High Pressure Fluid Swivel Connections*, for appropriate part numbers, connector sizes, and possible configurations. If additional assistance is needed, contact your Nordson representative.

If a standard material inlet fitting is required, use either a straight fitting or a 90° elbow with a JIC-6 hose connection (9/16-18 thread).

**Nozzles**

Your Nordson representative can help select the correct nozzles for your applications. Nozzle selection depends on the type of material being dispensed, the desired bead size, and your production rate requirements.
Temperature Conditioning

The dispensing valve can be temperature conditioned using a fluid system to heat the material between 15–65 °C (60–150 °F). The temperature-conditioned material is then pumped to the dispensing valve. Use the following steps to modify the dispensing valve to accept the temperature conditioning material.

NOTE: Disregard this procedure if temperature conditioning is not required.

See Figure 4.

1. Screw in the two 1/8 NPT elbows into holes marked 1.
2. Screw in 1/16 pipe plug into hole marked 2.

NOTE: The two 1/8 NPT elbows and the 1/16 pipe plug are included with the dispensing valve.

Figure 4  Temperature Conditioning the Dispensing Valve
Operation

**WARNING:** Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.

**Introduction**

Begin material dispensing by activating the valve-open air through the A port of the solenoid valve. Stop dispensing by turning off the air through the A port. For air-assisted closure, activate the valve-close air through the B port of the solenoid valve.

**Dispensing Valve Purging**

After the dispensing valve has been installed, purge it to remove air from the material hose and nozzle. Place a material waste container under the nozzle.

Purge the dispensing valve until material flows freely from the nozzle.

**Maintenance**

Follow a preventive maintenance schedule to keep your dispensing valves operating efficiently.

**WARNING:** System or material pressurized. Relieve pressure. Failure to observe this warning may result in serious injury or death.

**WARNING:** Wear protective clothing, safety goggles, and approved respiratory protection. Failure to observe may result in serious injury.

**Daily**

- Check the nozzle for wear. Replace it when necessary.

**Periodically**

- Check the air lines and the material supply hose for leaks or damage. Replace lines and hoses when necessary.
- Make sure the dispensing valve is mounted securely.
- Clean the filter in the air supply line.
Troubleshooting

WARNING: Allow only qualified personnel to perform the following tasks. Observe and follow the safety instructions in this document and all other related documentation.

This section contains troubleshooting procedures. These procedures cover only the most common problems that you may encounter. If you cannot solve the problem with the information given here, contact your local Nordson representative for help.

Troubleshooting Charts

NOTE: Some problems presented in this section may originate with other components in the system and not with the dispensing valve. If the corrective actions described here do not solve the problem, see the appropriate system manuals for further suggestions.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Leaking around nozzle or nozzle nut</td>
<td>Dirty or damaged metal sealing surfaces</td>
<td>Clean the nozzle.</td>
</tr>
<tr>
<td>2. Leaking through weep hole in valve body</td>
<td>Worn packing cartridge</td>
<td>Replace the packing cartridge and install the seal kit.</td>
</tr>
<tr>
<td>3. Dispensing valve responds slowly</td>
<td>Air piston assembly worn or out of adjustment</td>
<td>Replace the packing cartridge.</td>
</tr>
<tr>
<td></td>
<td>Low air pressure to solenoid</td>
<td>Increase the air pressure to the solenoid.</td>
</tr>
<tr>
<td></td>
<td>Long air supply lines to valve</td>
<td>Mount the solenoid on the valve or as close as possible.</td>
</tr>
</tbody>
</table>
Repair

**WARNING:** Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.

**WARNING:** Disconnect equipment from line voltage. Failure to observe this warning may result in personal injury, death, or equipment damage.

Disconnect, lock out, and tag electrical power at a disconnect or breaker in the service line ahead of electrical equipment before servicing.

**WARNING:** System or material pressurized. Relieve pressure. Failure to observe this warning may result in serious injury or death.

**Clearing a Blocked Nozzle/Cap**
1. Shut off air pressure to the drum unloader.
2. Bleed off residual pressure through the in-line pressure relief valve in the material supply line. This valve should be located near the drum unloader.
3. Shut off and lock out all power to the system.
4. Remove the nozzle cap and nozzle tip assembly. Clean the nozzle thoroughly with an appropriate solvent.
5. Reinstall the nozzle, nozzle cap, and nozzle tip assembly.

**Removing the Valve from the Fixture**
1. Shut off the drum unloader.
2. Purge the dispensing valve to relieve the pressure in the hose and valve.
3. Shut off and lock out all power to the system.
4. Disconnect the material supply hose from the material inlet fitting on the valve.
5. Disconnect the air lines from the valve.
6. Remove the valve from the fixture.
**Disassembling the Dispensing Valve**

Follow these steps to disassemble the Auto-Flo automatic dispensing valve with locatable nozzle.

See Figure 5.

**NOTE:** Figure 5 shows a typical dispensing valve. Your valve body may differ.

1. Remove the screws (1) and air cylinder cap (2) from the body (5).
2. Remove the spring (3).

**CAUTION:** Do not damage the dispensing valve body seals while removing the packing cartridge.

3. Use a small screwdriver to pry the packing cartridge (4) from the body.

**Assembling the Dispensing Valve**

See Figure 5.

Follow these steps to assemble the Auto-Flo automatic dispensing valve with locatable nozzle.

1. Insert the packing cartridge (4) into the dispensing valve body (5).
2. Place the spring (3) on top of the packing cartridge (4).
3. Place the air cylinder cap (2) on top of the dispensing valve body.
4. Secure with screws (1).
Figure 5  Dispensing Valve Components

1. Screw
2. Air cylinder cap
3. Spring
4. Packing cartridge
5. Body
Parts

To order parts, call the Nordson Customer Service Center or your local Nordson representative. Use this five-column parts list, and the accompanying illustration, to describe and locate parts correctly.

Using the Illustrated Parts List

Numbers in the Item column correspond to numbers that identify parts in illustrations following each parts list. The code NS (not shown) indicates that a listed part is not illustrated. A dash (—) is used when the part number applies to all parts in the illustration.

The number in the Part column is the Nordson Corporation part number. A series of dashes in this column (- - - - -) means the part cannot be ordered separately.

The Description column gives the part name, as well as its dimensions and other characteristics when appropriate. Indentions show the relationships between assemblies, subassemblies, and parts.

<table>
<thead>
<tr>
<th>Item</th>
<th>Part</th>
<th>Description</th>
<th>Quantity</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>—</td>
<td>0000000</td>
<td>Assembly</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>000000</td>
<td>• Subassembly</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>2</td>
<td>000000</td>
<td>• • Part</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

- If you order the assembly, items 1 and 2 will be included.
- If you order item 1, item 2 will be included.
- If you order item 2, you will receive item 2 only.

The number in the Quantity column is the quantity required per unit, assembly, or subassembly. The code AR (As Required) is used if the part number is a bulk item ordered in quantities or if the quantity per assembly depends on the product version or model.

Letters in the Note column refer to notes at the end of each parts list. Notes contain important information about usage and ordering. Special attention should be given to notes.
## Auto-Flo Automatic Dispensing Valve with Locatable Nozzles for Stand Alone Guns

See Figure 6.

<table>
<thead>
<tr>
<th>Item</th>
<th>Part</th>
<th>Part</th>
<th>Description</th>
<th>Quantity</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>—</td>
<td>304175</td>
<td></td>
<td>Gun, Auto-Flo, stand alone, polymyte, with locator</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>306176</td>
<td>306176</td>
<td>Gun, Auto-Flo, stand alone, fluoromyte, with locator</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td></td>
<td>1017903</td>
<td>Gun, Auto-Flo, stand alone, UHMW, with locator</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>—</td>
<td>—</td>
<td>Screw, socket, cap, M5 x 25, with O-ring</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>237942</td>
<td>237942</td>
<td>Cap, air cylinder, Auto-Flo</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>237947</td>
<td>237947</td>
<td>Spring, compression</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>—</td>
<td>—</td>
<td>Cartridge packing</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>5</td>
<td>973466</td>
<td>973466</td>
<td>Plug, pipe, flush, 1/16 in. with sealant</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>6</td>
<td>971521</td>
<td>971521</td>
<td>Elbow, male, 1/4 tube x 1/8 in. NPT, high temperature</td>
<td>2</td>
<td>B</td>
</tr>
<tr>
<td>NS</td>
<td>973574</td>
<td>973574</td>
<td>Plug, O-ring, straight thread, 9/16-18 in.</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>NS</td>
<td>239788</td>
<td>239790</td>
<td>Kit, cartridge packing</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE A:** Order the packing cartridge kit specific to your Auto-Flo dispensing valve.

**B:** Fitting used for temperature conditioning.

**C:** Shipped with gun. Used to plug the unused material supply port.

**NS:** Not Shown
Auto-Flo Automatic Dispensing Valve with Locatable Nozzles for Manifold Guns

See Figure 6.

<table>
<thead>
<tr>
<th>Item</th>
<th>Part</th>
<th>Part</th>
<th>Part</th>
<th>Description</th>
<th>Quantity</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>—</td>
<td>306177</td>
<td>—</td>
<td>—</td>
<td>Gun, Auto-Flo, manifold, polymyte, with locator</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>306178</td>
<td>1017902</td>
<td>—</td>
<td>Gun, Auto-Flo, manifold, fluoromyte, with locator</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>—</td>
<td>—</td>
<td>1017902</td>
<td>Gun, Auto-Flo, manifold, UHMW, with locator</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>Screw, socket, cap, M5 x 25, with O-ring</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>237942</td>
<td>237942</td>
<td>237942</td>
<td>Cap, air cylinder, Auto-Flo</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>237947</td>
<td>237947</td>
<td>237947</td>
<td>Spring, compression</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>Cartridge packing</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>5</td>
<td>973466</td>
<td>973466</td>
<td>973466</td>
<td>Plug, pipe, flush, 1/16 in. with sealant</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>6</td>
<td>971521</td>
<td>971521</td>
<td>971521</td>
<td>Elbow, male, 1/4 tube x 1/8 in. NPT, high temperature</td>
<td>2</td>
<td>B</td>
</tr>
<tr>
<td>NS</td>
<td></td>
<td>973574</td>
<td></td>
<td>Plug, O-ring, straight thread, 9/16-18 in.</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>NS</td>
<td>940138</td>
<td>940138</td>
<td>238345</td>
<td>O-ring, Viton, 0.438 x 0.563 x 0.063 in.</td>
<td>1</td>
<td>D</td>
</tr>
<tr>
<td>NS</td>
<td>239788</td>
<td>239790</td>
<td>238345</td>
<td>Kit, cartridge packing</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

NOTE A: Order the packing cartridge kit specific to your Auto-Flo dispensing valve.

B: Fitting used for temperature conditioning.

C: Shipped with gun. Use this part to plug the unused material supply port.

D: Shipped with gun. Used when installing gun to a manifold.

NS: Not Shown
Figure 6  Auto-Flo Automatic Dispensing Valve with Locatable Nozzle
Nozzles and Adapters

See Figure 7.

<table>
<thead>
<tr>
<th>Item</th>
<th>Part</th>
<th>Description</th>
<th>Quantity</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>296249</td>
<td>Nozzle, dome, flange, 0.20/06, with flats</td>
<td>1</td>
<td>A, C</td>
</tr>
<tr>
<td>1</td>
<td>296250</td>
<td>Nozzle, dome, flange, 0.20/10, with flats</td>
<td>1</td>
<td>A, C</td>
</tr>
<tr>
<td>1</td>
<td>296251</td>
<td>Nozzle, dome, flange, 0.30/06, with flats</td>
<td>1</td>
<td>A, C</td>
</tr>
<tr>
<td>1</td>
<td>296252</td>
<td>Nozzle, dome, flange, 0.30/10, with flats</td>
<td>1</td>
<td>A, C</td>
</tr>
<tr>
<td>1</td>
<td>296253</td>
<td>Nozzle, dome, flange, 0.45/12, with flats</td>
<td>1</td>
<td>A, C</td>
</tr>
<tr>
<td>2</td>
<td>296254</td>
<td>Nozzle, dome, flange, 0.45/14, with flats</td>
<td>1</td>
<td>A, C</td>
</tr>
<tr>
<td>2</td>
<td>296255</td>
<td>Nozzle, dome, flange, 0.68/12, with flats</td>
<td>1</td>
<td>B, C</td>
</tr>
<tr>
<td>2</td>
<td>296256</td>
<td>Nozzle, dome, flange, 0.68/16, with flats</td>
<td>1</td>
<td>B, C</td>
</tr>
<tr>
<td>NS</td>
<td>296247</td>
<td>Adapter, nozzle, tall, with flats</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>NS</td>
<td>296248</td>
<td>Adapter, nozzle, short, with flats</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

NOTE A: This item includes the short nozzle adapter with flats, part 296248.

B: This item includes the tall nozzle adapter with flats, part 296247.

C: Order the appropriate size nozzle for your application. Contact your Nordson Corporation representative if you require assistance in ordering.

NS: Not Shown

Figure 7  Nozzles and Adapters

Specifications

<table>
<thead>
<tr>
<th>Dimensions, mm (in.)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>44.5 (1.75)</td>
</tr>
<tr>
<td>Width</td>
<td>44.5 (1.75)</td>
</tr>
<tr>
<td>Height, without cap</td>
<td>90.9 (3.59)</td>
</tr>
<tr>
<td>Weight, kg (oz)</td>
<td>0.44 (15.8)</td>
</tr>
<tr>
<td>Maximum static fluid pressure rating, bar (psi)</td>
<td>345 (5000)</td>
</tr>
<tr>
<td>Actuating air pressure, bar (psi)</td>
<td>4–8 (60–120)</td>
</tr>
</tbody>
</table>