

# Automatic Dispensing Modules



**High-performance automatic dispensing modules provide uniform material deposition and excellent flow control for precise, consistent material application.**

Nordson automatic on/off dispensing modules provide accurate deposition and control for applications requiring sharp material cut-off, as well as uniform beads and spray patterns. These modules are designed to handle a wide range of high-performance, high-viscosity adhesives and sealants, including RTV silicones, grease, mastics, plastisols, epoxies, weldable sealers, urethanes and weldable/expandable sealers.

Nordson dispensing modules are available with operating pressures up to 5,000 psi, and are capable of dispensing materials with viscosities up to 3,000,000 cps. Refer to the application chart in this literature to determine which module best meets your specific material application requirements.



## Features and Benefits

All Nordson automatic dispensing modules incorporate the following features:

- Air-actuated open/spring closed feature assures full flow in all applications.
- Spring-closed with air-closed option prevents leaking under high pressures.
- Precision mounting for end-of-arm robot tooling with precisely positioned dowel pins assure correct distance from the module to the part, minimizing robot re-programming.
- Replaceable seal cartridges allow for easy maintenance and repair of modules.



## Auto-Flo™ Extrude Module

The Nordson Auto-Flo extrude module is recommended for applications requiring high-pressure dispensing at high flow rates. Specially designed with a large ball-and-seat, the Auto-Flo is capable of handling pressures up to 5,000 psi.

- Recommended for dispensing high-viscosity RTV silicones, grease, mastics, plastisols, epoxies and weldable sealers.
- Large ball-and-seat design for improved material flow.
- Dispenses material in a uniform bead or kiss.

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## Auto-Flo Spray Modules

Applying adhesives and sealants with spray equipment provides non-contact dispensing and rapid



*Air spray module.*

coverage with a thinner layer of material. Nordson spray modules are designed for applications where specific pattern characteristics and

consistency are critical. These modules provide uniform coverage, even on irregular substrates, leading to reduced rework and higher productivity.

### Nordson spray modules include:

- On/Off Airless Spray Module
- On/Off Standard Spray Module
- On/Off Manifold-Mount Air-Spray Module



*Airless spray module.*

■ Recommended for dispensing mastics, plastisols and epoxies.

■ Modules dispense material in uniform controlled spray patterns.

## Auto-Flo Zero Cavity Modules

Nordson zero cavity guns provide accurate deposition and flow control for applications requiring clog-free operation, sharp cut-off and uniform bead patterns. Zero cavity guns feature a close-tolerance matched needle-and-seat assembly that eliminates the formation of minute



*Zero cavity module.*

material pockets. This design provides a self-cleaning action, preventing material blockages that can cause tails and adhesive stringing.

### Nordson zero cavity guns include:

- Stand-alone or manifold mount configurations
- 3mm or 4mm orifices
- Recommended for dispensing low viscosity materials.
- Needle-and-seat design provides positive bead cut-off, eliminating tails and stringing.

## Anti-Drool Module

Nordson anti-drool modules are designed for positive on/off flow control, reducing the need for clean-up and rework due to material drips and run-on between beads and shots. The anti-drool module features a negative pressure cut-off to ensure clean, drip-free application, even with low-viscosity materials.



*Anti-Drool module.*

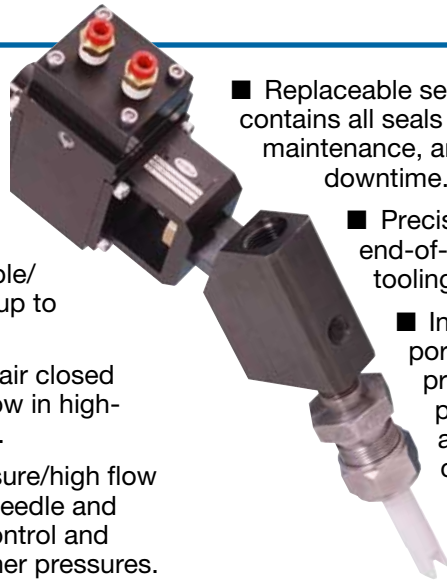
■ Recommended for dispensing high-viscosity RTV silicones, grease, mastics, plastisols, epoxies and weldable sealers.

■ Negative pressure cut-off reduces drips, tails and stringing.

■ Air open/air closed operation assures full flow with positive cut-off and prevents leakage under high pressure.

## HIVISC Module CE20

- Recommended for dispensing extremely viscous materials including urethanes and weldable/expandable sealants up to 3,000,000 cps.
- Air-actuated open/air closed feature assures full flow in high-pressure applications.
- Durable high-pressure/high flow design with tapered needle and seat for better flow control and cleaner cut-off at higher pressures.



- Replaceable seal bonnet contains all seals for faster, easier maintenance, and reduced downtime.
- Precision mounting for end-of-arm robot tooling.
- In-line inlet/outlet port configuration prevents unwanted pressure drop, assuring consistent and accurate material deposition.

## Engineering Assistance

While the chart below offers guidelines for selecting the right dispensing module, Nordson can assist you in the selection of the best dispensing module for new, existing or unique applications. In addition, we can engineer total systems, including pumps, dispensing modules, hoses and custom designed headers. Working with your material suppliers, we can supply the most efficient system for your manufacturing operation.

For more information, CALL TOLL FREE (800) 241-8777.

## Automatic Dispensing Modules Selection Guide

Part #	Description	Seat Type	Inlet Port	Working Pressure	Weight	Dimensions (inches)
238418	Auto Flo Extrude Stand-Alone	1/4" ball & seat	SAE-6	5000 psi	15.81 oz	1.75 X 1.75 X 3.73
304175	Extrude Stand-Alone with Nozzle Locating Tabs	1/4" ball & seat	SAE-6	5000 psi	15.81 oz	1.75 X 1.75 X 3.73
238421	Manifold Mount	1/4" ball & seat	Manifold Mount	5000 psi	15.81 oz	1.75 X 1.75 X 3.73
306177	Manifold Mount with Nozzle Locating Tabs	1/4" ball & seat	Manifold Mount	5000 psi	15.81 oz	1.75 X 1.75 X 3.73
308324	Airless Spray	1/4" ball & seat	SAE-6	5000 psi	19.82 oz	1.75 X 1.75 X 4.16
238426	Air Spray	1/4" ball & seat	SAE - 6	5000 psi	19.82 oz	1.75 X 1.75 X 5.06
308501	Air Spray Manifold Mount	1/4" ball & seat	Manifold Mount	5000 psi	19.82 oz	1.75 X 1.75 X 5.06
308502	Zero Cavity Stand-Alone	3mm needle & seat	SAE - 6	5000 psi	15.1 oz	1.75 X 1.75 X 4.53
308511	Zero Cavity Stand-Alone	4mm needle & seat	SAE - 6	5000 psi	15.1 oz	1.75 X 1.75 X 4.53
308503	Zero Cavity Manifold Mount	3mm needle & seat	Manifold Mount	5000 psi	15.1 oz	1.75 X 1.75 X 4.53
308512	Zero Cavity Manifold Mount	4mm needle & seat	Manifold Mount	5000 psi	15.1 oz	1.75 X 1.75 X 4.53
181934	Anti-Drool	1/4" ball & seat	SAE - 6	4000 psi	17 oz	1.75 X 1.75 X 4.70
220356	HIVISC CE20 Cold	Tapered needle	SAE -10	3000 psi	4.42 lbs	6.07 X 2.25 X 7.51
295760	HIVISC CE20 Temperature Conditioned	Tapered needle	SAE -10	3000 psi	4.42 lbs	6.07 X 2.25 X 7.51
295761	HIVISC CE20 120V	Tapered needle	SAE - 10	3000 psi	4.42 lbs	6.07 X 2.25 X 7.51
295762	HIVISC CE20 240V	Tapered needle	SAE - 10	3000 psi	4.42 lbs	6.07 X 2.25 X 7.51

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