Duet™
Variable Dispense Applicators

Optimize adhesive use for high performance elastic attachment

Benefits:
- Produce high-quality, high-performance elastic features
- Optimize adhesive usage
- Reduce maintenance time and cost of ownership
- Maximize production efficiency

The patented Nordson Duet dual-module applicators deliver different add-on rates at the ends of the elastic strands than in the center. The heavier adhesive add-on at the ends yields high bond strength while the lighter add-on in the center provides a stabilizing bond. The optimized stabilizing bond in the center retains the retractive force of the elastic strand while reducing adhesive use.

The Duet applicator’s narrow profile and small footprint facilitate installation in tight production spaces. And, the pair of Duet applicators – one operator side and one drive side – when used together provides for application flexibility during product changeover. The patented Universal™ nozzle clamping mechanism allows easy changing of the Allegro® and SureWrap® nozzles that promote optimized coating of elastic strands.

The high-speed, long-life Nordson Speed-Coat® modules accurately and reliably dispense hot melt adhesive to support demanding, high-speed production. And, retract-on-close module operation delivers exceptional cutoff.

Quick-change heaters, sensors, filters and modules improve serviceability, simplify maintenance and minimize production downtime. And, the rebuildable Speed-Coat modules help reduce maintenance costs and improve service life.

Modules can be rotated 90° from vertical to allow installation flexibility.
Specifications

Nozzle Compatibility
Allegro* & SureWrap* nozzles

Operating Temperature
70º to 205ºC (160º to 400ºF)

Working Hydraulic Pressure
13.8 to 55.2 bar (200 to 800 psi)

Maximum Hydraulic Pressure
89.6 bar (1300 psi)

Maximum Hydraulic Flow
110 grams per minute at 10,000 centipoise,
14 grams per square meter at 300 m/min.

Actuation Air Pressure¹
5 to 6 bar (73 to 88 psi) recommended

Cycle Rate²
Up to 9000 cycles per minute or 6 milliseconds for on/off cycle

Maximum Process Air Flow
1.5 scfm

Solenoid Voltage
23.5 to 28 VDC

Solenoid Power Consumption
5 watts

Solenoid Connection
Quick-disconnect with strain relief and LED indicator

Solenoid Air Consumption
21 liter/min (0.75 cubic feet/min) @ 3000 cycles/min
63 liters/min (2.25 cubic feet/min) @ 9000 cycles/min

¹Oil-free air must be used.
²Maximum number of cycles depends on operating and control air pressures, and adhesive viscosity.

Dimensions - in. / (mm)

For more information, speak with your Nordson representative or contact your Nordson regional office.

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