

Integrated Servo Dispenser

Double-acting, continuous-flow, positive-displacement metering system



Integrated Servo Dispenser (ISD) is designed to apply high-viscosity, single-component sealants and adhesives in robotic applications.

The ISD is designed to interface with robotic mounted applicators to dispense one-component sealer materials in high-volume production applications.

It's ideal for applications demanding precision bead profiles of low- to-high viscosity and abrasive materials continuously without reloading the meter.

The material is typically supplied to the meter by high-volume supply pumps.

Features and benefits

- Robot servo motor drives shot meter for desired flow rate
- Double-acting metering technology for continuous flow dispensing
- Surge-free material flow rate for precise bead profiles
- Flow rate is variable during the dispense cycle for varying tip speed or bead profile
- Designed for low- to high-viscosity unfilled and abrasive filled sealer materials
- Designed for up to 0.9 gallons per minute flow rates
- Includes wear-resistant wetted components and long life seals
- Stand-mounted or frame-mounted
- Recirculation capability to prevent material curing when not dispensing



ISD Meter System with Peltier Heat-Cool Temperature Control

Typical applications

- Paint shop sealer applications
- High-volume, continuous flow process requirements
- Extrude, ribbon, stream, spray and swirl bead profile dispensing

The double-acting meter configuration allows the meter to reposition to a stroke limit without dispensing material. This feature allows the meter to provide a surge-free output per stroke.

Material dispenses from one side of the meter while the other side of the meter is reloaded from the supply system.

ISD product specifications

Meter Volume per Stroke	12.0 Cubic Inches or 196.6 cubic Centimeters
Max. Working Pressure	3,500 PSI (241.3 bar)
Relief Pressure	4,000 PSI (nominal)
Weight	291 lbs.
Maximum Flow Rate	0.9 GPM or 75 cc/sec
Minimum Supply Requirements	600 PSI (41.37 bar) at 0.9 GPM (75 cc/min)
Maximum Inlet Pressure	No greater than 500 psi higher than normal dispensing pressure
Inlet and Outlet Connections	3/4" NPTF (inlet & outlet ports at both top & bottom of manifold)
Compressed Air Requirements	0.5 SCFM @ 80 PSI filtered to 100 micron or better
Compressed Air Connections	1/4" NPTF



The Smart-Gun has three (3) applicator dispense tips. Select any combination of stream, spray and ribbon tips for optimum bead profiles and process cycle times.



Temperature conditioning is available in water units, Peltier units or electric jackets

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This unique Nordson approach helps you reach new levels of production, while working more accurately, efficiently and competitively than ever. Precisely why manufacturers who demand quality, can rely on Nordson.

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