

ISD - Integrated Servo Dispenser

Continuous Flow Positive Displacement Meter



Frame mounted ISD Meter integrated with
Heat/Cool Temperature Conditioner

- ▶ Servo motor drive maintains robot command 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 low and high flow rates
- ▶ Includes wear resistant wetted components and long life seals
- ▶ Stand mounted or frame mounted with Temperature Conditioning Unit

Servo Drive Dispense System for Sealant and Adhesive Materials

The ISD – Integrated Servo Dispenser is designed to interface with robotic mounted applicators to dispense 1-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.

Typical Applications

- Paint Shop Sealer applications
- High volume, continuous flow process requirements
- Extrude, Ribbon, Stream, Spray and Swirl Bead profile dispensing
- Robotic dispensing processes

ISD – Integrated Servo Dispense System



The ISD Double Acting Meter is originally designed for use in Automotive Paint Shop sealer applications. The meter is typically supplied by 300 gallon tote pumps. The sealer is applied by extruding, streaming, ribbon, and swirl dispense valves.

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.



The SRA – Servo Ribbon Applicator uses Servo Motor and robot program technology to rotate the Ribbon Tip (or Spray Tip) for precise bead placement and shorter cycle times.

The MFG – Multi-Function Gun has three (3) applicator dispense tips. Select any combination of Stream, Spray and Ribbon tips for optimum bead profiles and process cycle times



ISD Product Specifications:

Meter Volume per Stroke	12.0 Cubic Inches or 196.6 Cubic Centimeters
Working Pressure	3000 psi
Relief Pressure	4000 psi (nominal)
Weight	291 lbs.
Maximum Flow Rate	1.2 GPM or 75 cc/sec
Minimum Supply Requirements	500 PSI at 1.2 GPM
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 @ 80psi filtered to 100 micron or better
Compressed Air Connections	1/4" NPTF



Manufacturers of Precision Dispense Systems & Valves

45677 Helm Street • P.O. Box 701460
 Plymouth, MI 48170 • USA
 Phone: (734) 459-8600 Fax: (734) 459-8686
 Web: www.SealantEquipment.com
 E-mail: sales@SealantEquipment.com