

Pro-Meter[®] VDK

Dispensing Systems

Compact gear meter technology delivers precise, consistent material application.

The Nordson[®] Pro-Meter VDK dispensing module combines gear metering technology with compact size to provide unmatched precision and control in dispensing high-viscosity silicones, butyls, epoxies and hot melt materials. The module is designed for use in form-in-place gasketing, bonding and sealing operations.

The wrist-mountable design positions the Pro-Meter module close to the point of application, minimizing the effects of pressure and viscosity changes. With the Pro-Meter VDK module, you achieve precision bead profiles, accurate shot weights and consistent gasket sizes, realizing potential material savings.

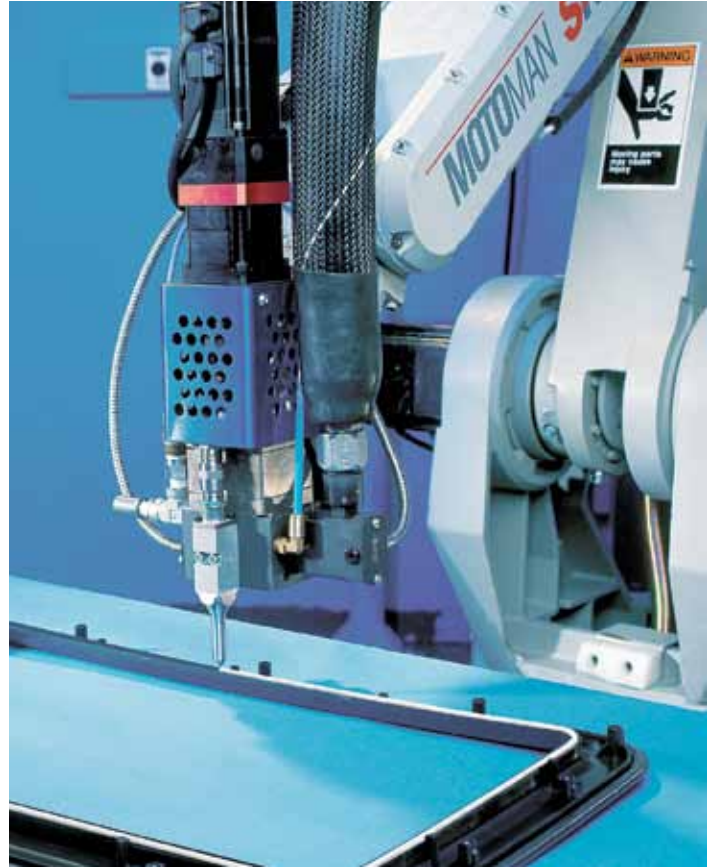
Precise Metering

Positive-displacement, spur gear pumps are linked to an encoder feedback servo drive within the Pro-Meter VDK module. This closed-loop control provides precise volumetric output. Spur gear design eliminates side loads that can lead to premature wear. External speed input reference signals allow synchronization with automation speed providing uniform material deposition.

Nozzle Pressure Control

Typical pressure-fed systems are subject to differences between their dynamic and static pressures, and are generally only accurate to ± 10 percent. The Pro-Meter VDK gear metering system controls material delivery by positive displacement, limiting pressure differentials. This dispensing system is capable of ± 1 percent.

Placing the gear meter close to the point of material application minimizes variation in the nozzle pressure. Close proximity also provides faster response time when changing flow rates and output. Nozzle output pressure is controlled so is not affected by system pressure drops.



Application Versatility

The Pro-Meter VDK dispensing module can be retrofitted to existing systems to improve output control and may be installed with new systems to meet a wide range of application requirements.

Standard Pro-Meter VDK models have output ranges from as low as 0-15 cc per minute with a small displacement pump and from 0-600 cc per minute using the largest displacement pump. Mounting configurations include direct module attachment with a Nordson Blue Series[™], Auto-Flo[™] or AG900 gun, or remote mount with a gun of choice.

Diagnostics and Options

The Pro-Meter VDK module monitors volumetric output, flow rate and system pressure; readings are displayed on two individual digital readouts. Separate alarm signals are generated if pressure or output volume exceed preset limits.

Features and Benefits

- **Compact, wrist-mountable design** allows module to be positioned close to the dispense point for accurate material control and better response time compared to pressure-fed systems.
- **Dispense control accuracy** of ± 1 percent.
- **Precise dispensing** results in accurate bead profiles, shot weights, gasket sizes and material savings.
- **Multiple temperature and mounting configurations** provide application versatility for a wide variety of heated and ambient temperature applications with a broad range of flow rates.
- **Nozzle output pressure** is controlled so output is not affected by system pressure drops.
- **Proportional output** is synchronized with a control signal to match robot or line speeds.

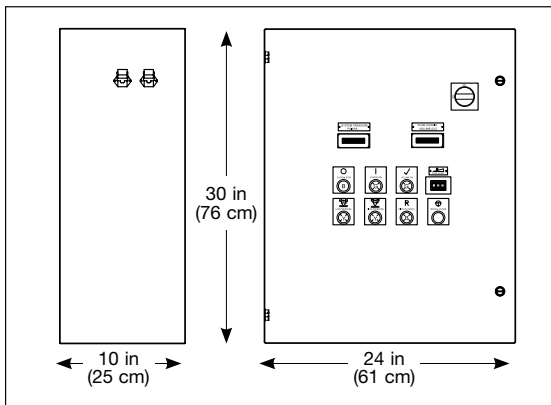


Specifications

Temperature Configurations	Ambient temperature Temperature conditioned Heated 100° to 425° F (37° to 216° C)
Inlet Pressure	2000 psi maximum
Output Pressure	± 200 -300 psi difference to inlet pressure
Dispense Module	
Height	17 in (43 cm)
Width*	4 in (10 cm)
Depth	4 in (10 cm)
Weight (max)	18.5 lb (8.4 kg)
Output	
Small Pump	0-15 cc/min
Large Pump	0-600 cc/min

*Does not include drain tee.

Control Dimensions



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