

# Pro-Meter® VDK

## Metering Applicator

Compact gear meter technology delivers precise, consistent material application.

### Features and Benefits

- **Compact, wrist-mountable design** allows the applicator 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  $\pm 1$  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.
- **Synchronized proportional output** with a control signal to match robot or line speeds.

The Nordson® Pro-Meter® VDK metering applicator 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 applicator is designed for use in form-in-place gasketing, bonding and sealing operations.

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

### Precise Metering

The Pro-Meter® VDK applicator features a spur-gear pump driven by an encoder-equipped servo motor to enable closed-loop speed control and deliver precise volumetric output. Spur gear design eliminates side loads that can lead to premature wear.



External speed input reference signals allow synchronization with automation to deliver uniform material deposition.

### Dispense Control

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

Placing the gear meter close to the point of material application minimizes variation in the nozzle output. Close proximity also provides faster response when changing flow rates and dispense output. The low-variability dispense control is ideally suited for demanding applications.



# Pro-Meter<sup>®</sup> VDK **Metering Applicator**

## Application Versatility

The Pro-Meter<sup>®</sup> VDK applicator can either be retrofitted to existing systems to improve output control or may be integrated with new systems to meet a wide range of application requirements.

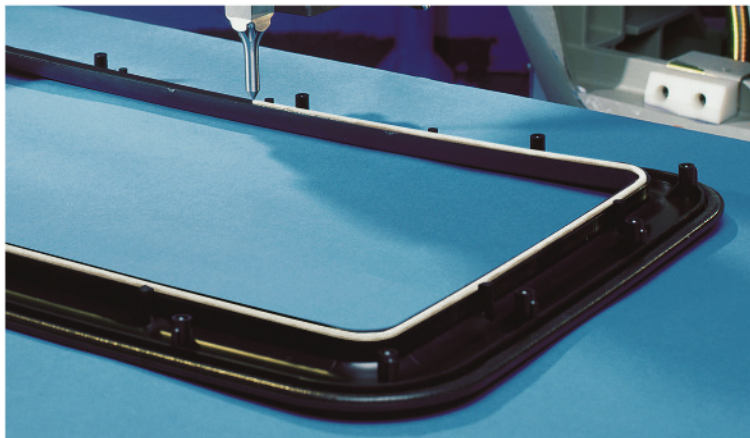
Standard Pro-Meter<sup>®</sup> VDK offerings support output ranges from as low as 0-15 cc per minute with a small displacement pump and from 0-600 cc per minute using the largest displacement pump. Configurations accommodate a number of dispense modules including Nordson Blue Series™, Auto-Flo™ or AG900.

## Diagnostics and Options

The Pro-Meter<sup>®</sup> VDK controller monitors volumetric output, flow rate and system pressure. Separate alarm signals are generated if pressure or output volume exceed preset limits.

## Specifications

<b>Temperature Configurations</b>	Ambient temperature Temperature conditioned Heated 100° to 425° F (37° to 216° C)
<b>Viscosity Range</b>	Up to 500,000 cps
<b>Inlet Pressure</b>	2000 psi maximum
<b>Output Pressure</b>	±200-300 psi difference to inlet pressure
<b>Weight (max)</b>	20 lb (9 kg)
<b>Volumetric Output</b>	Small Pump: 0-15 cc/min Large Pump: 0-600 cc/min



Pro-Meter<sup>®</sup> VDK supports form-in-place gasketing



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