



First choice when
quality counts.™

Gear Meter

**Continuous
bead control
for automatic
and robotic
dispensing of
sealants and
adhesives**

Graco's Gear Meter system enables you to dispense a precise, continuous bead of sealant or adhesive for automatic or robotic applications. The Gear Meter utilizes an electrically-driven, variable-speed motor with pneumatic clutch and brake to provide immediate response at the start and end of a bead.

Dispensing flexibility and system reliability are yours with this flow control gear meter system, even when handling high-viscosity, moisture-sensitive materials.

Graco's Gear Meter delivers ...

Increased Productivity

Continuous bead flow means faster production cycle times, since you eliminate the need to reload material (typically required by shot meter systems).

Reduced Maintenance

Fewer components (such as inlet and outlet valves and linear position sensors) result in less system maintenance.

Application Consistency

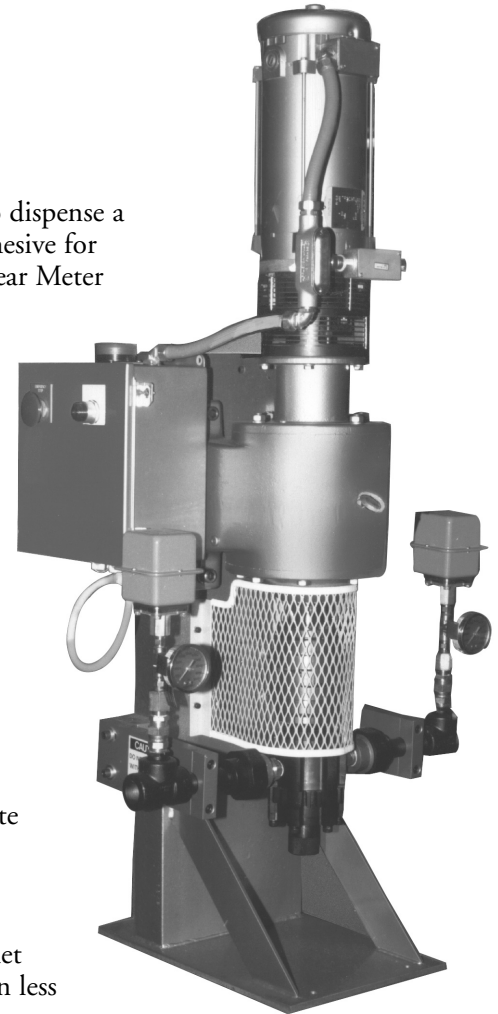
Response is immediate. There is no speed ramp-up or ramp-down required to initiate or to stop dispensing. The unit's motor control may be interfaced to a robot controller to provide superior bead quality at varying dispense rates.

Fault Monitoring

An outlet pressure transducer indicates sufficient supply and outlet overpressure preventing production losses and quality problems.

User-Friendly Operation

System controls can be specified to be as simple as a relay panel or customized to incorporate any programmable logic controller.



SEALANT ADHESIVE EQUIPMENT

Package Ordering Information

Servo Gear Meters

Includes: servo gear meter module, main control panel, high pressure SST braid fluid dispense hose, and 3/4 npt automatic dispense valve. Supply pumps not included.

970-175 Bottom Inlet/Outlet

970-176 Top Inlet/Outlet

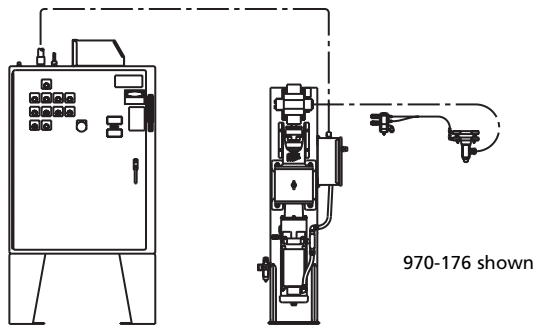
970-177 Horizontal Inlet/Outlet

970-194 Horizontal Mount – Heated Components

Includes: 4-zone temperature control panel, heated fluid hose, heated automatic dispense valve with nozzle.

970-076 Gear Meter, Hot Melt

Includes: main control panel with 5-temperature control zones, heated fluid hoses, and heated automatic snuff back dispense valve with nozzle.



970-176 shown

Module Ordering Information

All modules include: gear pump, gear reducer, clutch brake, electric motor, junction box, and frame.

918-477 Bottom-Mounted Gear Meter Assembly

918-465 Top-Mounted Gear Meter Assembly

918-473 Horizontal-Mounted Gear Meter Assembly

918-539 3/4 npt Ball Seat Applicator

Technical Specifications

Control Unit

Height 64 in. (1626 mm)

Width 38 in. (965 mm)

Depth 12 in. (305 mm)

Weight 450 lbs. (204 kg)

Electrical requirements 480 volt, 1 phase, 15 FLA

Mechanical Gear Meter

Height 59 in. (1500 mm)

Width 26 in. (660 mm)

Depth 23 in. (585 mm)

Weight 550 lbs. (250 kg)

Air pressure required 0-2 scfm at 60 psi

Flow rate range 0-90 cu. in./min.

Material viscosity range 100,000 to 5,000,000 cps

Max. fluid inlet pressure . . . 5000 psi (34.5 MPa, 345 bar)

Fluid inlet port 1-1/2 npt(f)

Outputs Available (120 VAC)

- Sealer Ready
- Sealer in Cycle
- Sealer Maintenance Required

Inputs Available (120 VAC)

- Robot Dispense
- 0-10 VDC Analog Signal

Accessories

970-178 Pressure Monitor Kit

Includes: control panel, nozzle adapter and transducer assembly.

970-179 Manual Dispense Kit, Header Drop

Includes: electric solenoid air-operated ball valve, 10 ft. (3 m) SST braid hose, and electric switch in-line flow valve.

C51-172 Urethane Dispense Nozzle

Plastic with M-shaped side outlet.