

# **PGM Metering System**

Precision Gear Metering Dispense System for Sealants and Adhesives



## Provides precise metering and ultimate control for smooth, consistent bead and ribbon dispensing

- Provides high flow rates with high-viscosity hot melt materials
- Offers precise starts and stops
- Touch-screen controls are easy to use, easy to integrate

PROVEN QUALITY. LEADING TECHNOLOGY.

## Graco PGM Metering System

Boost productivity with superior bead control and high flow rates

### The rules have changed

The Graco PGM Metering System<sup>™</sup> provides precise metering and ultimate control for delivering smooth, consistent bead dispense. Precision dispense combined with high flow rates – even with high viscosity materials – means you can dramatically improve production rates and ROI within your operation.

#### **Bead control saves material costs**

Gear meters are used to control bead dispense where application control is most critical. The PGM offers precise starting and stopping, minimizing "stringers" and "snakeheads." Precision dispense means less wasted material and savings on material costs. It also means less scrap and fewer wasted parts.

#### Machine-mountable design assures precise dispense control

The PGM can be mounted at the point of dispense for an extremely accurate dispense.

#### High flow rates improve your production capacity

With the higher flow rates of the Graco PGM, you can achieve greater productivity in your manufacturing process.

#### **Materials**

- Ambient, warm melt and hot melt materials to 204°C (400°F)
- Low to high-viscosity materials
- Unlimited volume

#### Applications Solar panel manufacturing:

- Polyisobutylene (PIB) perimeter seal
- Dessicated butyl
- Silicone secondary seal

#### Automotive manufacturing:

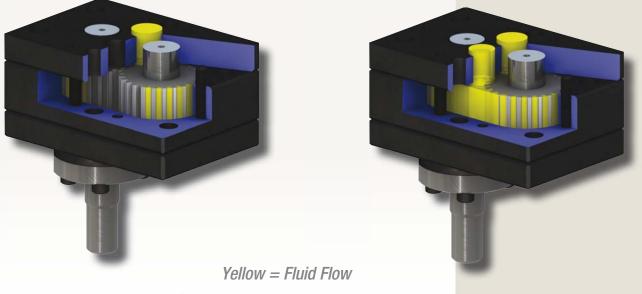
- Urethane windshield sealants
- Robotized front and rear windows sealing line
- Headliner assembly

## Window and door manufacturing:

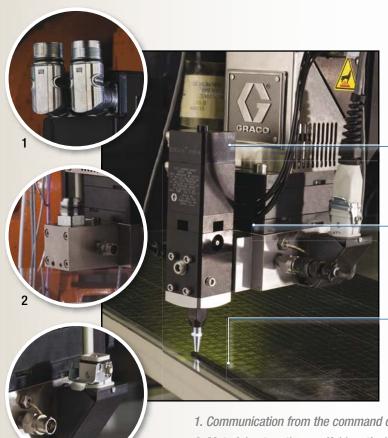
Insulated glass

#### **General assembly:**

- Any process requiring a precise bead or ribbon profile
- Appliances
- Filters
- Electronics
- Small engine gaskets



Gear metering technology



Compact, fixed or machine-mountable design

Positive displacement gear pump technology provides superior, consistent bead and ribbon profile quality

## Delivers clean starts and stops for less material waste

- 1. Communication from the command center provides precise control for the servo drive.
- 2. Material enters the manifold vertically, allowing the gearhead to rotate during a dispense
- 3. Robust power and sensor connections create a reliable system

#### **Operator-friendly touch-screen controls**

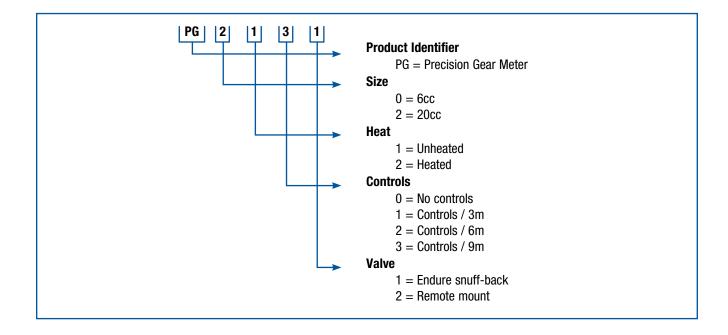
- Easy-to-use controls reduce training time
- Integrated self-diagnostics and serviceable design make service quick and easy
- Easy to integrate the system into your plant
- Controls and monitors dispense



## **Technical Specifications**

Everything you need to make an informed decision

## **Selection Matrix**



#### Flow rates\*

	Max. (6 cc/rev Pump)	
	Max. (20 cc/rev Pump)	
Max. fluid workin		103.42 bar, 10.34 MPa (1500 psi)
Max. fluid workin	g outlet pressure	172.36 bar, 17.24 MPa (2500 psi)
Fluid filtration		
Weight		
	6 cc/rev Pump	
	20 cc/rev Pump	
Wetted parts		Stainless steel, tool steel, aluminum,
		chrome, carbide, acetal plastic, PTFE, chemical resistant O-rings
Power requireme	nts	
Power supply volt	chrome, carbide, acetal plastic, PTFE, chemical resistant 0-ri ements	
Operating temper	ature range	
	Heated Pump	
	Ambient Pump	
Dimensions		
	6 cc/rev Pump	
* Flow rates and vi	scosities are general estimates.	

## **Ordering Information**

Everything you need to make an informed decision

#### **Remote Dispense Valves**

243694	. Heated Dispense Valve
244951	. Endure <sup>™</sup> Valve, Heated, 1/2 in npt male outlet
244909	. Endure Valve, Heated

#### **Fixed Dispense Valves**

244907..... Endure Valve

#### Parts and Accessories

24D824	. Automation I/O Cable
24E654	. Ribbon Nozzle Kit, 10 x 1.5 mm
24E655	. Bead Nozzle Kit, 3 mm dia
24E575	. Dynamic Air Regulator for TOF
24E607	. Gear Pump Seals, 6 cc
24E619	. Gear Pump Seals, 20 cc
24E677	. O-ring Kit, 6 cc
24E626	. O-ring Kit, 20 cc
24E678	. Heated Nest, Pilot
24E679	. Heated nest, Ribbon or Bead

HOSES    *indicates PTFE hose, all others Buna-N								
	HOT MELT					AMBIENT		
ength		-8 3/4"-16 JIC	-10 7/8"-14 JIC	-12 1-1/16"-12 JIC	-16 1-5/16"-12 JIC	3/8"	1/2"	
	6 ft	None	115875	None	115884	109163	626723	
Hose length	10 ft	115873	115876	115880	115885	117821	215441	
	15 ft	None	None	None	None	109165 685602*	511381*	
FITTINGS <i>+</i> indicates swivel								
PGM Inlet (-16 SAE)		None	None	124238	124239 124243⁺ 124236 (90⁰)	None	None	
PGM Outlet (3/4" npt)		124286	C20595	15M863	107127	124290+	124289+	
Dispense Valve Inlet		124287	C20768	107052	124288	158256⁺	190451+	

### WARM MELT

### **Precision Temperature Control**

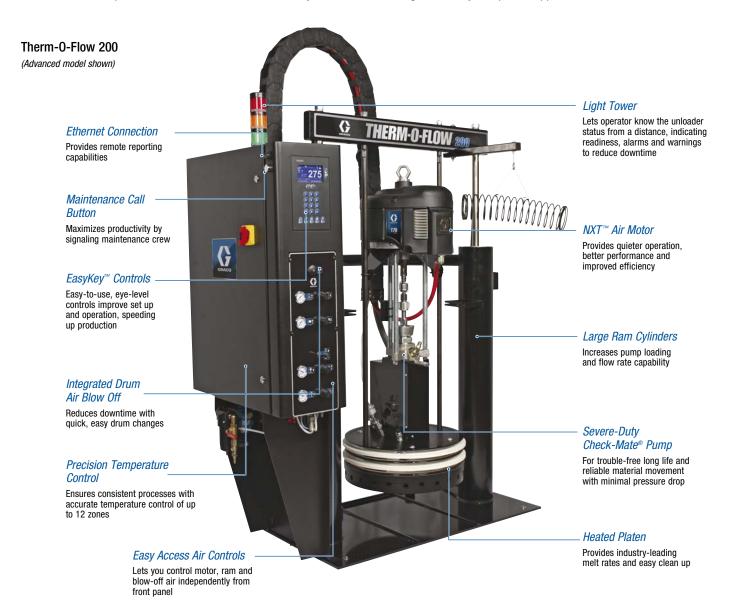
Designed specifically for warm melt materials and temperature conditioning applications, Graco Warm Melt Supply Systems deliver superior heat control and performance in a reliable, easy-to-use, easy-to-maintain package. Instead of investing in a custom solution or equipment meant for other applications, Graco Warm Melt Supply Systems offer performance and flexibility at a reasonable price.



## HOT MELT

### A highly advanced technology on the market

Therm-O-Flow solutions are amongst the best performing industrial bulk melt systems on the market. Therm-O-Flow's advanced temperature control virtually eliminates overshoot of temperature, resulting in better adhesive quality and reduced rework due to damaged material. Graco offers a complete line of Therm-O-Flow bulk melt systems – each configured to fit your specific application.





#### Therm-0-Flow 200

- The ultimate hot melt bulk system
- Six to eight zones standard, up to 12 heat zones with an optional four-zone expansion box
- Main unit easily integrated with a second Therm-0-Flow 200 or Therm-0-Flow 20 for tandem operation



#### Therm-O-Flow 20/NXT

- Perfect for 20 I applications
  where high performance is still needed
- Double the power for high melt rate needs
- Allows accurate temperature control of six zones (standard). Up to 10 heat zones with an optional four-zone expansion box
- Main unit easily integrated with a second Therm-0-Flow 200 or Therm-0-Flow 20 for tandem operation



#### **ABOUT GRACO**

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

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All written and visual data contained in this document are based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

Graco is certified ISO 9001.

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