



Progressive Cavity (PC) Pump

Single Component Metering and Dispensing System



PROVEN QUALITY. LEADING TECHNOLOGY.

Maximum Service Life with Minimum Maintenance

Designed for maximum service life with minimum maintenance, Graco's Progressive Cavity Pump efficiently handles single component middle to high viscosity materials, as well as highly abrasive thermal interface material (TIM).

- **Progressive cavity valve technology:** Continuous feed and progressive cavity metering ensure repeatability of (\pm) 1%, which saves filling time and improves dispensing efficiency
- **Adjustable flow range:** Flexible adjustment of dispensing process enables higher productivity and delivery
- **Special wear-resistant fluid path for TIM dispensing:** The fluid path is specially designed to minimize downtime and reduce requirements for spare parts
- **Direct feed from cartridge eliminates the feed system:** The compact design significantly saves space

Material Inlet

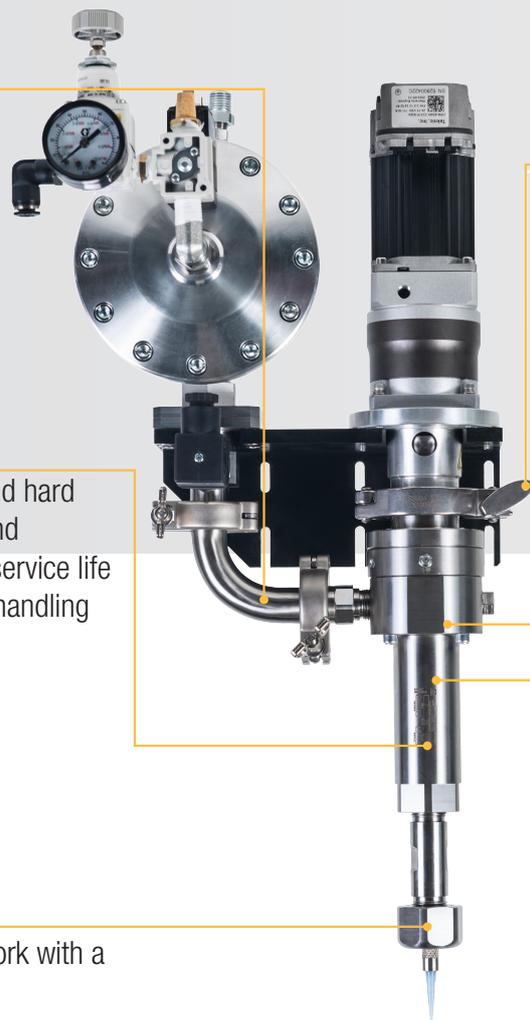
Fluid path has no dead spots where material can build up, improving inlet path and reducing pressure limits

Improved Rotor

Durable construction and hard coating prevent wear and scratches, maximizing service life and making it ideal for handling abrasive material

Stator Selection

Available in Viton® to work with a variety of materials



Quick-Change Clamps

The pump body can be easily removed from the flange for cleaning and maintenance

Universal Joint

The special material and unique structure enhance the abrasion resistance, resulting in longer service life

Rotor Connection

The bolted connection of the rotor and universal joint enables quick removal and flexible maintenance

Applications:



Encapsulation



Sealing



Bonding



Underfilling

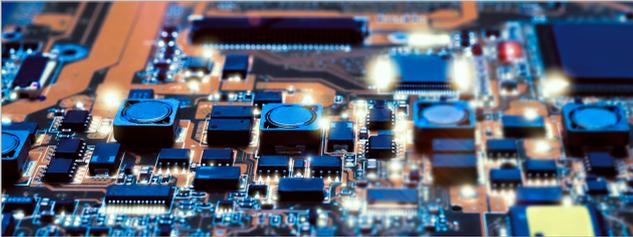


Thermal Management

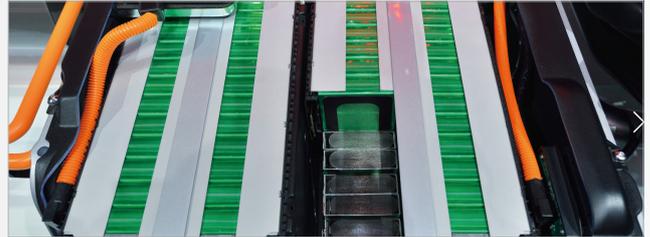


Potting

Industries:



Electronics



EV Battery



Automotive



General Industry



Medical Device

Materials:

- Thermal interface material (TIM)

- Epoxy

- Silicone

- Polyurethane (PU)

Technical Specifications

Volume/Rev.	0.30 cc	1.00 cc	1.45 cc
Max RPM		150	
Max Flow Rate	45 cc/min	150 cc/min	217 cc/min
Min Shot Size	0.03 cc	0.08 cc	0.12 cc
Max Operating Pressure	400 psi (2.75 MPa, 27.5 bar)		
Operating Temperature	75 °C (167 °F)		
Material Viscosity	1-1,000,000 MPa · s (depending on size)		
Wetted Parts	SST, FKM, UHMW, alloy, acetal, chrome		
Inlet Thread	#6 JIC		
Outlet Thread	5/16-28 (f)		
Weight (motor and gear box not included)	2.60 kg (5.73 lb)	2.62 kg (5.78 lb)	2.90 kg (6.39 lb)



PCB Controller (Default model)

- Designed for the electronics industry
- Communication: I/O
- Dimensions: 274*230*192 mm
- Motor: 48V DC
- Boot load
- CE, ETL, ROHS certifications



PLC Controller

- Designed for the general industry, automotive and auto tier 1
- Various dispensing modes available
- Communication: Profinet, I/O
- Dimensions: 275*250*146 mm
- Motor: 220V AC

Ordering Information

Progressive Cavity (PC) Pump Selection

PCP	First Digit	Second Digit	Third Digit	Fourth Digit	Fifth Digit					
PCP-	1	0.30 cc PC pump	1	No feed	1	I/O	1	PCB controller	1	Ambient
	2	1.00 cc PC pump	2	Feed from supply pump	2	Profinet	2	PLC controller		
	3	1.45 cc PC pump	3	Feed 75 cc cartridge						
			4	Feed 300 cc cartridge						

PC Pump Model Number Example:

PCP 3 2 1 1 1

PCP = Progressive Cavity Pump

Number	PC Pump Specifications
1	0.30 cc PC pump
2	1.00 cc PC pump
3	1.45 cc PC pump

Number	Feed Mode
1	No feed
2	Feed from supply pump
3	Feed from 75 cc cartridge
4	Feed from 300 cc cartridge

Number	Communication
1	I/O
2	Profinet

Number	Controller
1	PCB controller
2	PLC controller

Number	Heating
1	Ambient



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, namely 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.

Contact Graco

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Sales/Distribution/ Service

To learn more about our products or request a demonstration, please call

800-746-1334 or visit www.graco.com.

Graco inc. is registered to I.S.EN ISO 9001