



PRECISION SHOT METER (PSM) DISPENSE SYSTEMS

For One Component Sealants and Adhesives



PROVEN QUALITY. LEADING TECHNOLOGY.

Precision Shot Meter (PSM)

For highly accurate automated metering and dispense of one component material

An innovative fluid path and robust construction make this precision shot meter (PSM) ideal for automatically applying one component epoxies, silicones, acrylics, urethanes, polysulfides and thermal interface materials (TIMs).

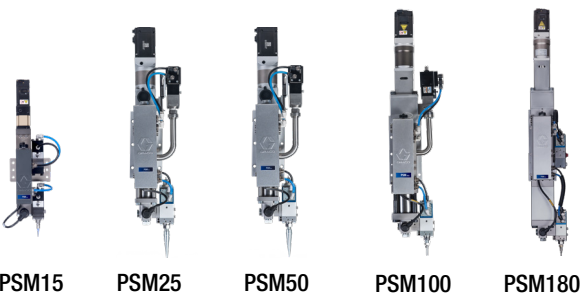
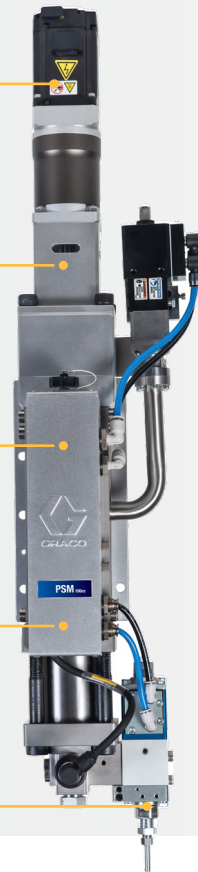
High accuracy: Servo motor control and high precision meter ensure +/- 1 percent shot repeatability.

Compact structure and lightweight design: Modular system fits into almost any automated assembly line and easy for integration.

Wide shot size range: Configurations with maximum shot sizes of 15ccs, 25 ccs, 50 ccs, 100 ccs or 180 ccs fit multiple applications.

Low maintenance: Patented first-in-first-out (FIFO) fluid path keeps materials from blocking and curing inside the supply pump.

Dependable outlet valve: Available in tip seal, snuff back, or ball seat models, the Graco iQ Dispense Valve delivers long-lasting performance.



Wear Resistant and Warm Melt Options

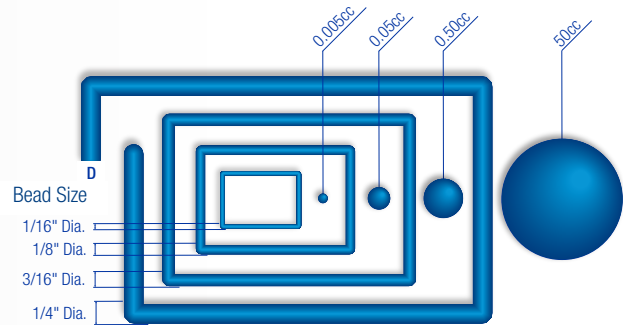
If your manufacturing requirements involve abrasive or warm melt material, consider these PSM options:

- Ultra wear resistant construction withstands abrasive and viscous material, reducing maintenance.
- Heating function brings material temperature up to 70°C (158°F).

INCREASE PRODUCTIVITY WITH HIGH ACCURACY AND EFFICIENCY

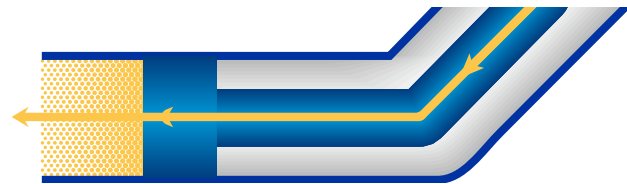
High Repeatability of Each Bead, Dot and Pattern

- Servo drive design allows for accurate and highly repeatable dispense.
- On-demand flow control synchronizes dispense rates with automation speeds



Engineered for Low Maintenance and High Efficiency

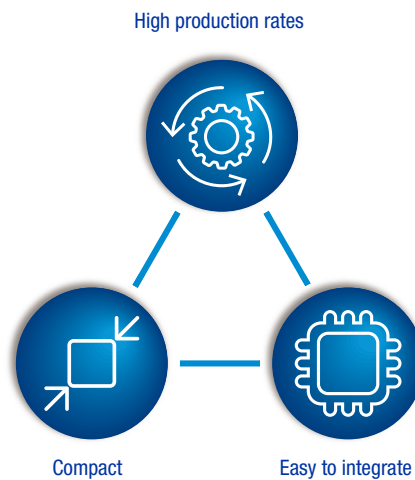
- Patented first-in-first-out (FIFO) fluid path keeps material from settling or curing inside the metering tube. This prevents clogging
- Durable construction and fluid path geometry resist wear from abrasive materials and extend service life.



First-in-first-out (FIFO) fluid path

Compact Design and Easy Integration Lead to High Production Rates

- Small size and low mass mean installation flexibility for stand-alone benchtop and automated applications.
- Simple communication protocols provide seamless integration with robots, automated work cells, and data tracking systems.
- Multiple system configurations level up production by improving material transfer and dispense



Applications, Industries and Materials

Applications:



Bonding



Sealing



Anti-flutter



Hemming



Potting



Gasketing



Thermal Management

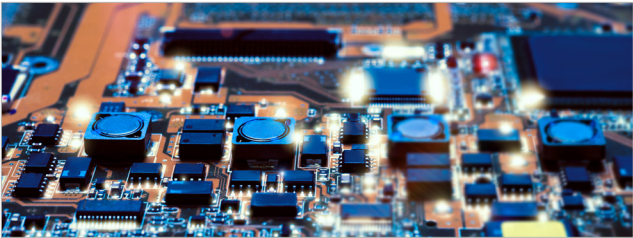
Industries:



Automotive Manufacturing



Automotive Electronics



Electronics



Telecommunications

Materials:

- Epoxies
- Polysulfides
- Silicones
- Thermal Interface Materials
- Acrylics
- Polyurethanes



Easy Integration for Automation

Printed circuit board (PCB) controller fits efficiently into automated assembly lines.

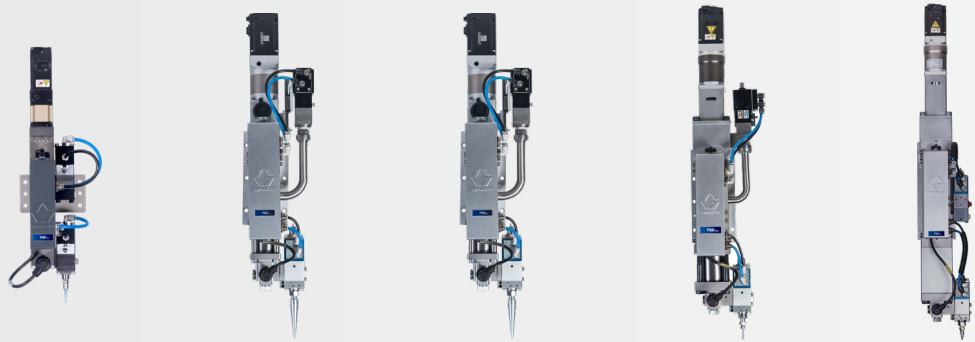
- Large screen for easy operation
- Wall mount for small spaces
- Various dispensing modes for changing needs

Communication protocols integrate with robots, automated work cells, and data tracking systems.

- All PSM systems come equipped with I/O (input/output) communication.
- For PROFINET and EtherNet/IP integration, use These communication gateway module (CGM) kits allow further integration:
 - PROFINET CGM, 2005273
 - EtherNet/IP CGM, 2000362



Technical Specifications



Model	PSM15	PSM25	PSM50	PSM100	PSM180
Travel	32 mm	38 mm	38 mm	60 mm	100mm
Shot Size Range	0.005-15cc	0.01 - 25 cc	0.2 - 50 cc	0.5 - 100 cc	0.5 - 180cc
Maximum Flow Rate	1.8 cc/s	10 cc/s	18 cc/s	18 cc/s	18 cc/s
Dimensions (L x W x H) (without mixing nozzle)	425x125x120 mm	590x156x142 mm	647x162x155 mm	737x162x155 mm	865x143.5x155.5mm
Weight	5 Kg / 11 lbs	11 Kg / 24 lbs	13 Kg / 29 lbs	16 Kg / 35 lbs	22.5 Kg / 50 lbs
Maximum Operating Temperature	70°C (158 °F)				
Maximum Air Humidity	20 - 80%				
Maximum Working Fluid Pressure	1200 psi, 8.3 Mpa, 82.7 bar		3000 psi, 20.7 Mpa, 206.8 bar		
Maximum Air Pressure	100 psi, 0.7 Mpa, 7 bar				
Power Supply	200-240 Vac, 50 Hz / 60 Hz, 10 A				
Air inlet size	1/4 in. or 6 mm				
Fluid Inlet	1/4 npt(f)				
Fluid Outlet	1/4 npt (f) and 3/4–16 unf (m)				
Fluid Viscosity Range	20-1,000,000 cps				

Ordering Information

Precision Shot Meter Systems

Part No.	Description	Part No.	Description
2006051	PSM15 System, Direct, Standard, I/O	25S142	PSM50 System, Direct, Standard, I/O, Snuff-Back
2006052	PSM15 System, Direct, High wear, I/O	25S167	PSM50 System, Direct, High wear, I/O, Snuff-Back
2006931	PSM15 System, Direct, Standard, PROFINET	2000830	PSM50 System, Direct, Standard, I/O, Tip Seal
2006932	PSM15 System, Direct, High wear, PROFINET	2000831	PSM50 System, Direct, High wear, I/O, Tip Seal
2006933	PSM15 System, Direct, Standard, ETHERNET/IP	2001635	PSM50 System, Direct, Standard, I/O, Ball Seat
2006934	PSM15 System, Direct, High wear, ETHERNET/IP	2001636	PSM50 System, Direct, High wear, I/O, Ball Seat
25S141	PSM25 System, Direct, Standard, I/O, Snuff-Back	25S143	PSM100 System, Direct, Standard, I/O, Snuff-Back
25S148	PSM25 System, Direct, High wear, I/O, Snuff-Back	25S170	PSM100 System, Direct, High wear, I/O, Snuff-Back
2000828	PSM25 System, Direct, Standard, I/O, Tip Seal	2000832	PSM100 System, Direct, Standard, I/O, Tip Seal
2000829	PSM25 System, Direct, High wear, I/O, Tip Seal	2000833	PSM100 System, Direct, High wear, I/O, Tip Seal
2001633	PSM25 System, Direct, Standard, I/O, Ball Seat	2001637	PSM100 System, Direct, Standard, I/O, Ball Seat
2001634	PSM25 System, Direct, High wear, I/O, Ball Seat	2001638	PSM100 System, Direct, High wear, I/O, Ball Seat

Remote Hose Kits

Part No.	Description	Part No.	Description
2000842	HOSE, PSM, JIC fitting, 3/32X60	2000852	HOSE, PSM, JIC fitting, 3/8X36
2000843	HOSE, PSM, JIC fitting, 1/8X60	2000853	HOSE, PSM, JIC fitting, ,3/8X48
2000844	HOSE, PSM, JIC fitting, 3/16X36	2000854	HOSE, PSM, JIC fitting, 3/8X60
2000845	HOSE, PSM, JIC fitting, 3/16X48	2000855	HOSE, PSM, JIC fitting, 3/8X72
2000847	HOSE, PSM, JIC fitting, 3/16X72	2000856	HOSE, PSM, JIC fitting, 1/2X36
2000848	HOSE, PSM, JIC fitting, 1/4X36	2000857	HOSE, PSM, JIC fitting, 1/2X48
2000849	HOSE, PSM, JIC fitting, 1/4X48	2000858	HOSE, PSM, JIC fitting, 1/2X60
2000850	HOSE, PSM, JIC fitting, 1/4X60	2000859	HOSE, PSM, JIC fitting, 1/2X72
2000851	HOSE, PSM, JIC fitting, 1/4X72	2000712	HOSE, PSM, ORFS fitting, 3/8X72



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

Mailing Address

P.O. Box 1441
Minneapolis, MN 55440-1441
Product Hotline: 612-623-6000
Fax: 612-623-6777

United States

Minnesota

Worldwide Headquarters
Graco Inc.
88-11th Avenue N.E.
Minneapolis, MN 55413

Europe

Belgium

European Distribution Center
Graco Distribution BV
Industrieterrein-Oude Bunders
Slakweidestraat 31
3630 Maasmechelen,
Belgium
Product Hotline: 32 89 770 700
Fax: 32 89 770 777

Asia Pacific

Australia

Graco Australia Pty Ltd.
Suite 17, 2 Enterprise Drive
Bundoora, Victoria 3083
Australia
Product Hotline: 61 3 9468 8500
Fax: 61 3 9468 8599

China

Graco Fluid Equipment (Shanghai)
Co., Ltd
Building 7
1029 Zhongshan Road South
Huangpu District
Shanghai 200011
The People's Republic of China
Product Hotline: 86 512 6260 5711
Fax: 86 21 649 50077

India

Graco India Pvt Ltd.
Plot No 295, Udyog Vihar Phase-IV
Gurugram - 122015 (Haryana)
India
Phone: 91 124 661 0200
Fax: 91 124 661 0201

Japan

Graco K.K.
1-27-12 Hayabuchi
Tsuzuki-ku
Yokohama City, Japan 2240025
Product Hotline: 81 45 593 7300
Fax: 81 45 593 7301

Korea

Graco Korea Inc.
38, Samsung 1-ro 1-gil
Hwaseong-si, Gyeonggi-do. 18449
Republic of Korea
Tel: 82 31 8015 0961
Fax: 82 31 613 9801

Sales/ Distribution/ Service

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

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

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