

PR70™

Meter, Mix and Dispense Systems



PR70. Performance You Can Trust



Reliable meter, mix and dispense systems

Graco PR70™ Meter, Mix and Dispense Systems offer superior accuracy for a broad range of applications including bonding and sealing, potting, gasketing, encapsulation and syringe filling.

Handles most two-component materials

- Stainless steel design reduces the chance of a material incompatibility
- Positive displacement pumps deliver ratio accuracy to ±1%
- Linear transducer monitors piston velocity to provide ratio assurance, and reduce scrap and re-work
- Single stroke shot size ranges from 2 to 70 cc's
- Ratio range from 1:1 to 24:1, with a 2-to-1 adjustment using the PR70v

Rugged, reliable and durable

- · Long-lasting wear parts mean lower cost of ownership
- · Cast pump bodies for improved seal alignment
- Chromex[™] shafts and Severe Duty[™] cylinders combined with stainless steel fittings provide long pump life with no corrosion
- Shaft seals designed for extended life and easy replacement
- Preventive maintenance counter to plan system rebuilds around your production schedule
- Linear thrust bearings eliminate side loading to maximize seal life and performance

Ease of operation and less downtime

- Standard electronic controls allow for digital shot entry in grams (excludes PR70e)
- Built-in, easy to set up purge timer keeps system up and production running (excludes PR70e)
- Graco Control Architecture modules, with built-in diagnostics allow for quick troubleshooting
- Modular design eliminates point-to-point wiring a quick board change-out gets your system up and running

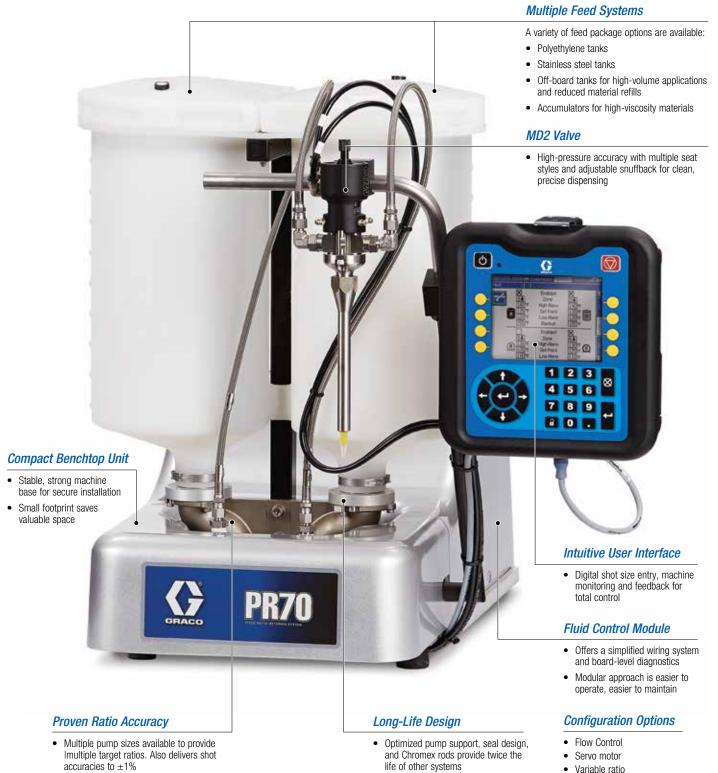
Key industries

- · Product assembly
- Automotive components
- Automotive electronics
- · Consumer electronics
- Medical
- · Sporting goods
- Appliance

Technology You Can Count On

Graco reliability. Industry-proven accuracy. Intuitive design.

The PR70 fixed ratio system accurately meters, mixes and dispenses two-component medium to low-viscosity materials for potting, gasketing, sealing, encapsulation and syringe filling. For variable ratio dispensing, the PR70v handles ratios from 1:1 to 24:1 and offers even more control with an optional Advanced Display Module. Further options include the PR70f (flow control) and PR70 Servo for bead applications.



PR70e. Reliable Dispensing at an Affordable Price

Easy to use, entry-level system.

If you are looking for a basic meter, mix and dispense system, the PR70e is the ideal model for you. It offers reliable and accurate performance, yet at a lower initial investment than other PR70 models.



 Multiple pump sizes available to provide Imultiple target ratios. Also delivers shot accuracies to ±1% Optimized pump support, seal design, and Chromex rods provide twice the life of existing systems

Superior Tracking and Monitoring Capabilities

Graco Control Architecture

PR70 Dispense Systems (excluding PR70e) feature intuitive user interfaces based on the Graco Control Architecture, a modular system of processing and control components. Products using the Graco Control Architecture provide similar interface functionality across your plant and simplify training. Maintenance and service is easier too, thanks to built-in troubleshooting tools and simple, modular part replacement.

Advanced Display Module

When you upgrade to the Advanced Display Module, you gain extra capabilities that allow you to accomplish more in your production area. The Advanced Display Module enables expanded features including:

- Recirculation capability
- Programmable shot sizes and sequencing up to 50 different shot sizes and seven sequences
- Integrated heater control
- Large, bright color screen makes the system easier to see and use
- Key pad entry makes it easy to program and reduces operator training time



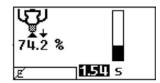
Recirc Mode option prevents materials from setting overnight



Set-up screen gives users easy access heat options

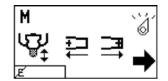
Local Control Module (PR70e only)

- Simple system electronic controls with diagnostics
- LCD graphical interface saves time by enabling accurate shot size programming
- Automatic alarms notify you when pumps need attention



Operation Screen

Shot size is displayed as a percentage of stroke length, duration of shot and progress bar.



Maintenance Mode Screen

Allows trouble shooting and easy maintenance through manual operation of system





Technical specifications

		PR70e with LCM	PR70 with DM	PR70 with ADM	PR70v with ADM	PR70f with ADM	PR70s with Servo
System	Configured system?	No	Yes	Yes	Yes	No	No
Ratios	Fixed Ratio Variable Ratio	1:1 to 12:1 NA	1:1 to 12:1 NA	1:1 to 12:1 NA	NA 1:1 to 24:1	1:1 to 12:1 1:1 to 24:1	1:1 to 12:1 1:1 to 24:1
Shots	Number of shots Based on Percentage of stroke Weight Based Shots Multi-stroke shots (over 100%) Shot Sequencing	1 Yes No No No	5 No Yes Yes Optional	50 No Yes Yes Yes	50 No Yes Yes Yes	50 No Yes Yes Yes	10 No No Yes No
Monitoring	Pressure Monitoring Ratio Monitoring	No No	Optional Optional	Optional Optional	Optional Optional	Optional Optional	Optional No
Data Controls	Local Control Module (LCM) Display Module (DM) Advanced Display Module (ADM) Gel Timer Run with Automation (PLC) USB Download Light Tower	Yes No No No No No	No Yes Optional Yes Yes Optional No	No No Yes Yes Yes Yes Optional	No No Yes Yes Yes Yes Optional	No No Yes Yes Yes Optional	No No No Yes Yes Optional Optional
Flow Control	Flow Control Flow Range* PLC Flow Selections Bead Control Snake-Head Control Pump Re-Loading Capability Bead/Dispense Pausing Remote Analog Flow Control	No N/A N/A No No No No	No N/A N/A No No No No	No N/A N/A No No No No	No N/A N/A No No No No	Yes 0.014-226 15 Yes Yes Yes Yes Yes No	Yes 0-47 Infinite Yes Yes Yes Yes Yes Yes Yes

^{*} Flow ranges are in cc/second. Be sure to choose proper pump sizes to achieve desired flow rate.

Accessories and configurations — Available for all models except where noted below.

Valves	1:1 MD2 Valve 10:1 MD2 Valve	Optional Optional	Optional Optional	
Hose options	2.5 ft (76 cm), 10 ft (3 m), 15 ft (4.6 m)	Accessory	Optional	
Tanks, Accumulators, Heated Equipment, Accessories	Plastic Tanks On-Board Stainless Steel Tanks 1-1/2 NPT Flange Kit for bulk feed Off-Board Stainless Steel Tanks Heated Tanks Agitation Tank Level Sensors Low Tank Level Sensors High Accumulators Auto Refill Mixers & Shrouds Valve Mounting Heated Hoses Recirculation	Accessory Accessory Accessory No Accessory No No No No No Accessory Accessory No No No No No Accessory Accessory Accessory	Optional Optional Optional Optional Optional Optional Optional No No No Optional Optional Optional No	Optional items can be selected from the configurator and are factory installed. Accessories are ordered when you order the machine, but you assemble it onto the machine at your location.

Technical Specifications

Instruction Manuals PR70 with Display Module Operation & Maintenance	Large Air Cylinder Effective Area. 15.9 in² (10260 mm Maximum Stroke Length. 1.50 in (38.1 mm Minimum Stroke Length. 0.23 in (5.8 mm Volume per Cycle. 0.12 − 4.3 in² (2 − 70 c Pump Cycles per 1L (26 gal) 500 − 14 Ratios (fixed). 1:1 to 12:1 depending on cylinders selecte Ratios (variable) 1:1 to 24:1 depending on cylinders selecte Maximum Fluid Working Pressure 3000 psi (207 bar, 20.7 MP Maximum Air Input Pressure. 100 psi (7 bar, 0.7 mm Maximum Cycle Rate 30 cp Maximum Operating Temperature 50° C (120° F) UHMWPE pistons or PE tank Air Inlet Size. 50° C (120° F) UHMWPE pistons or PE tank Air Inlet Size. 50° C (120° F) UHMWPE pistons or PE tank Air Inlet Size. 903, -04, -06, -08 or -12 JIC fittings fi 3/16 in (4.8 mm), 1/4 in (6.4 mm), 3/8 in (9.5 mm), 1/2 in (12.7 mm), 3/4 in (19.1 mm) hose Wetted Parts. 303/304, 17-4 PH, hard chrome, Chromex™, carbide, chemical resistant O-rings, PTFE, nylon, UHMWF Weight − PR70. 120 lb (55 kg) typical with two 7.5 I tank Weight − PR70 160 kg (by pical with two 7.5 I tank Weight − PR70 100 kg (by pical with two 7.5 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (by pical with two 60 I tank Weight − PR70 100 kg (Metering Pump Effective Area	
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PR70e Operation & Maintenance	PR70e Operation & Maintenance		
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