



PR70
DISPENSING SYSTEMS

POLY DISPENSING SYSTEMS
SYSTEMES DE DOSAGE INDUSTRIEL

Dispensing System Graco PR70

PDS offers systems with fixed and variable ratios of all PR70 range, dispense systems recognized for their quality with a unanimous success throughout all users.

The complete serie of dispense systems PR70, dispenses, mixes and distributes accurately two components material, of a high-low viscosity, for the flows, gaskets, sealing, pottings, coatings and filling of the syringe.

So all the features you want are grouped into a single, compact and modular machine.



- Fixed or variable ratio
- Dispensing accuracy of 1%
- Accuracy ratio 1%
- Perfectly volumetric
- Different pump sizes and ratios
- Two-component system at affordable price
- Wide range of options available (heating - agitation etc.)
- All stainless steel system for a long term use
- Requires no maintenance
- Optimisation of tightness
- Adjustable power
- Reinforcement of steel parts in Chromex™

PR70 | Industries and applications

- Electronics
- Composites
- Aeronautics
- Automotive components
- Equipment assembly
- Consumer electronics
- Sporting goods
- Appliances
- Medical

PR70

Two-Component dispenser

MD2 Valve

High-pressure accuracy with multiple seat styles and adjustable snuffback for clean, precise dispensing

Compact Benchtop Unit

Stable, strong machine base for secure installation. Small footprint saves valuable space

Intuitive User Interface

Digital shot size entry, machine monitoring and feedback for total control

Multiple Feed Systems

A variety of feed package options are available :

- Polyethylene tanks
- Stainless steel tanks
- Off-board tanks for high-volume applications and reduced material refills
- Accumulators for high-viscosity materials

Fluid Control Module

Offers a simplified wiring system and board-level diagnostics

Modular approach is easier to operate, easier to maintain



Long-Life Design

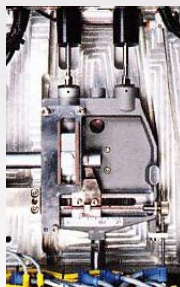
Optimized pump support, seal design, and Chromex rods provide twice the life of other systems

Vacuum



Dispense Systems : PR70V

Variable ratio system



Optional accumulator

Allows you to manipulate high viscosity products



Advanced Display Module

Advanced Control screen for extended functions, including:

- Recirculation
- Programmable distribution, including independent sequences and up to 50 doses
- Cycle counters
- Keypad for easy data entry

Option dispensing valve

Choose between a fixed installation or a manually operated handle for better adaptation to your application

Performances

Stainless Steel Tank (SST)



Tank size

Capacity 3 to 7.5 liters
(stainless steel, Al)

Capacity 8 liters (polyethylene,
PE + Al)

Capacity 30 to 60 liters
(separated + Al)

Our options for tanks

Covers for agitation kits
Covers for degassing kits
Covers for drying kits
Dust covers

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

Handles most two-component materials

- Stainless steel design reduces the chance of a material incompatibility
- Positive displacement pumps deliver ratio accuracy to $\pm 1\%$
- Linear transducer monitors piston velocity to provide ratio assurance, and
- reduce scrap and re-work
- Shot size ranges from 2 to 70 cc's
- Ratio range from 1:1 to 24:1 with variable drive

Reliability and durability to maximize system performance

- Body molded pumps for better alignment of seals.
- The piston rods Chromex and Severe Duty cylinders piston associated with stainless steel fittings ensure a long service life of the pump without corrosion.
- Seals piston rods designed for extended life and easy replacement.
- Preventive maintenance counter to advise maintenance of the unit based on the production schedule.
- Linear thrust bearings which eliminate side loads to maximize the lifetime and the performance of seals.

MD2 Dispensing Valve

Adjustable Snuff-back Control

Dispenses material only where you need it

Independent Air Cylinder

Improves mean time to repair (MTTR)

Chromex™ Shafts

Extends shaft life to better handle abrasive materials

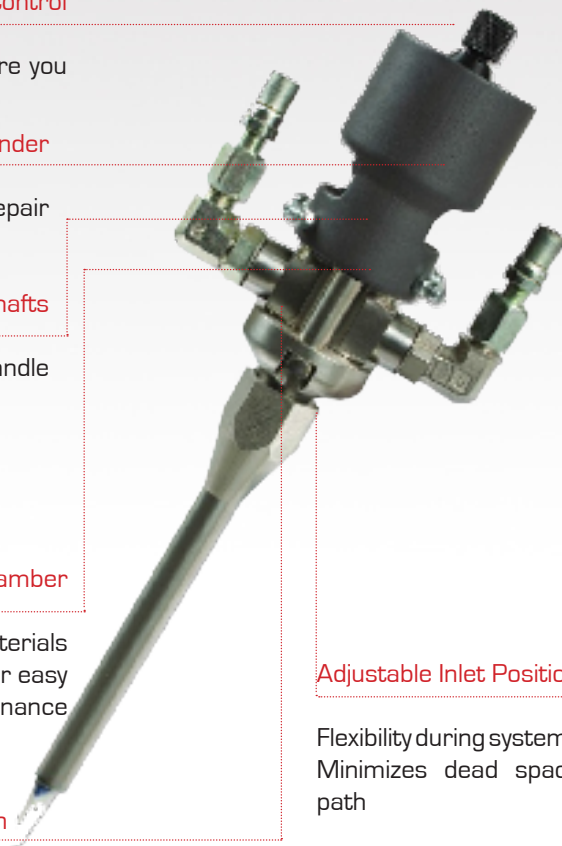
Grease Isolation Chamber

Ideal for moisture-sensitive materials
Accessible grease fittings for easy maintenance

All-SST Wetted Section

Maximizes material compatibility

- Minimizes maintenance time and costs while maximizing dispense time
- Designed with fewer parts and is easy to clean
- Streamlines maintenance and service
- Complete modular design adapts to different installation needs
- No unique tools required



Adjustable Inlet Position

Flexibility during system installation
Minimizes dead spaces in fluid path



Manual Dispense Gun Option



Lever-Actuated Dispense Valve

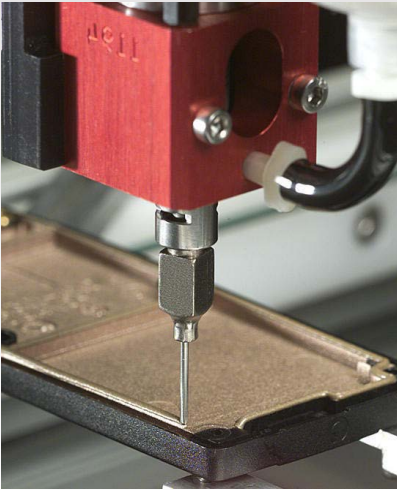
Specifications

Metering Pump Effective Area	0.124 – 1.49 in ² (80 – 960 mm ²) per side
Small Air Cylinder Effective Area	4560 mm ² (7.07 in ²)
Large Air Cylinder Effective Area	10260 mm ² (15.9in ²)
Maximum Stroke Length	38.1 mm (1.5in)
Minimum Stroke Length	5.8 mm (0.23in)
Volume per Cycle	2 - 70 cm ³ (0, 12 - 4 , 3 in ³)
Pump Cycles per 1L (.26 gal)	500 - 14.3
Ratios (fixed)	1:1 to 12:1 depending on cylinders selected
Ratios (variable)	1:1 to 24:1 depending on cylinders selected
Maximum Fluid Working Pressure	207bar (3000 psi, 20.7 MPa)
Maximum Air Input Pressure	7bar (100psi, 0.7 MPa)
Maximum Cycle Rate	30 cpm
Maximum Operating Temperature	70° C (160° F) nylon pistons 50° C (120° F) UHMWPE pistons or PE tanksE
Air Inlet Size	1 / 4 npt (f)
Pump Fluid Outlet Size	-03, -04, -06, -08 or -12 JIC fittings for 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) hoses
Wetted Parts	303/304, 17-4 PH, hard chrome, Chromex™, carbide, chemical resistant O-rings, PTFE, nylon, UHMWPE
Weight – PR70	120 lb (55 kg) typical with two 7.5 l tanks 330 lb (150 kg) typical with two 60 l tanks
Weight – PR70v	160 lb (73 kg) typical with two 7.5 l tanks 370 lb (168 kg) typical with two 60 l tanks
Electrical Power	100 - 240 V 50/60 Hz 1 phase pour chauffage - 10 kW max 208 - 240 V 50/60 Hz 1 phase pour chauffage - 10 kW max 120 ou 240 V 50/60 Hz 1 phase pour agitateurs sur réservoir
Compressed Air	< 10 scfm typical (varies with cycle time)

Instructions Manuals

PR70 with Display Module Operation & Maintenance	312393
PR70/PR70v with Advanced Display Module	312759
MD2 Valve Instructions and Parts	312185
PR70/PR70v Repair and Parts	312760
PR70/PR70v Feed System	312394
PR70v Integrated Heat	312761

Poly Dispensing Systems



PDS S.A.S is a french company that commercializes a wide range of dosage equipments, proven and effective.

Distributed in over 20 countries around the world, these equipments provide tailored solutions to many users in order to improve technically their manufacturing and reduce their productions costs.

Our collaborators and sales engineers all have a strong technical competences. They are able to answer your questions and offer you, after analysis, the right solution for your particular need

FRANCE - SWITZERLAND
NORTH AFRICA

Poly Dispensing Systems
122, Chemin de la Cavée
78630 Orgeval

FRANCE

☎ + 33 (0)1 39 62 40 92

📠 + 33 (0)1 39 62 40 94

www.polydispensing.com

BELGIUM- HOLLANDE
LUXEMBOURG

Gentec Benelux
Rue de L'Industrie, 12
B-1400 Nivelles

BELGIUM

☎ +32 2 351 1800

📠 +32 2 351 1962

www.gentec-benelux.com

- NON CONTRACTUAL DOCUMENT -

POLY DISPENSING SYSTEMS

S Y S T E M E S D E D O S A G E I N D U S T R I E L

122, Chemin de la Cavée - 78630 Orgeval • contact@polydispensing.com • Tel : 01.39.62.40.92

www.polydispensing.com