DISPENSING SYSTEMS
Two-component dispenser
Major actor in the field of fluid transfer systems, Graco™ focused since many years on the technical excellence of his products.

Main distributor of the brand in France, 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.

---

**PRESENTATION**

**INDUSTRIES**

- Electronics
- Composites
- Aeronautics
- Automotive components
- Equipment assembly
- Consumer electronics
- Sporting goods
- Appliances
- Medical
## DISPENSING SYSTEM PR70

<table>
<thead>
<tr>
<th>System</th>
<th>System configuration</th>
<th>PR70 E (LCM)</th>
<th>PR70 (DM)</th>
<th>PR70 (ADM)</th>
<th>PR70 V (ADM)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ratio</strong></td>
<td></td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Fixed ratio</td>
<td></td>
<td>1:1 to 12:1</td>
<td>1:1 to 12:1</td>
<td>1:1 to 12:1</td>
<td>NA</td>
</tr>
<tr>
<td>Variable ratio</td>
<td></td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>1:1 to 24:1</td>
</tr>
<tr>
<td><strong>Doses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of doses</td>
<td></td>
<td>1</td>
<td>5</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Doses based upon percentage of the piston stroke</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>In weight doses</td>
<td></td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Dispense &gt; to the piston stroke</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Sequencing of dispense</td>
<td></td>
<td>No</td>
<td>In option</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Supervision</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure control</td>
<td></td>
<td>No</td>
<td>In option</td>
<td>In option</td>
<td>In option</td>
</tr>
<tr>
<td>Control ratio</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Data Control</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local control module [ lcm]</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Display module [ dm]</td>
<td></td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Advanced display module [ adm]</td>
<td>No</td>
<td>In option</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Gel timer</td>
<td></td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Plc compatibility</td>
<td></td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Usb download</td>
<td></td>
<td>No</td>
<td>In option</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
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

Proven Ratio Accuracy
Multiple tube sizes to pinpoint specific target ratios and deliver ratio accuracy to ±1%

Vacuum
A standard basic machine with standard optional elements

PERFORMANCES PR70 ET 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
- 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
  - Shot size ranges from 2 to 70 cc’s
  - Ratio range from 1:1 to 24:1 with variable drive
DISPENSE SYSTEMS : PR70 V

Variable ratio system
Changes the machine with different ratios. Supports all formulations

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 PR70 ET PR70V

- 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.

REMARKS

...
The PR70 E is the ideal model for anyone who is looking for a simple and intuitive dispense system, but providing reliable and accurate performance at a much lower cost than the PR70 or PR70 V.

Indeed, all the major functions you need are in this compact and modular design. The PR70E, mixes and dispenses the precise shot from low to medium viscosity for molding, sealing, coating and filling syringe.
## PR70 - PR70V : SPECIFICATIONS

### Stainless Steel Tank [SST]

- **Tank size**
  - Capacity 3 to 7.5 liters [stainless steel, AI]
  - Capacity 8 liters [polyethylene, PE + AI]
  - Capacity 30 to 60 liters [separated + AI]

- **Our options for tanks**
  - Covers for agitation kits
  - Covers for degassing kits
  - Covers for drying kits
  - Dust covers

- **Machine options**
  - Control gear
  - Fluid recirculation
  - Power systems
  - Heating piping and tank
  - Auto - filling tanks
  - Input / Output

### INSTRUCTIONS MANUALS

<table>
<thead>
<tr>
<th>Manual</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR70 with Display Module Operation &amp; Maintenance</td>
<td>312393</td>
</tr>
<tr>
<td>PR70/PR70v with Advanced Display Module</td>
<td>312759</td>
</tr>
<tr>
<td>MD2 Valve Instructions and Parts</td>
<td>312185</td>
</tr>
<tr>
<td>PR70/PR70v Repair and Parts</td>
<td>312760</td>
</tr>
<tr>
<td>PR70/PR70v Feed System</td>
<td>312394</td>
</tr>
<tr>
<td>PR70v Integrated Heat</td>
<td>312761</td>
</tr>
</tbody>
</table>

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metering Pump Effective Area</td>
<td>0.124 – 1.49 in² (80 – 960 mm²) per side</td>
</tr>
<tr>
<td>Small Air Cylinder Effective Area</td>
<td>7.07 in² (4560 mm²)</td>
</tr>
<tr>
<td>Large Air Cylinder Effective Area</td>
<td>15.9 in² (10260 mm²)</td>
</tr>
<tr>
<td>Maximum Stroke Length</td>
<td>1.50 in (38.1 mm)</td>
</tr>
<tr>
<td>Minimum Stroke Length</td>
<td>0.23 in (5.8 mm)</td>
</tr>
<tr>
<td>Volume per Cycle</td>
<td>0.12 – 4.3 in³ (2 – 70 cc)</td>
</tr>
<tr>
<td>Pump Cycles per 1L (0.26 gal)</td>
<td>500 – 14.3</td>
</tr>
<tr>
<td>Ratios [fixed]</td>
<td>1:1 to 12:1 depending on cylinders selected</td>
</tr>
<tr>
<td>Ratios [variable]</td>
<td>1:1 to 24:1 depending on cylinders selected</td>
</tr>
<tr>
<td>Maximum Fluid Working Pressure</td>
<td>3000 psi (207 bar, 20.7 MPa)</td>
</tr>
<tr>
<td>Minimum Air Input Pressure</td>
<td>100 psi (7 bar, 0.7 MPa)</td>
</tr>
<tr>
<td>Maximum Cycle Rate</td>
<td>30 cpm</td>
</tr>
<tr>
<td>Maximum Operating Temperature</td>
<td>70° C [160° F] nylon pistons</td>
</tr>
<tr>
<td></td>
<td>50° C [120° F] UHMWPE pistons or PE tanks</td>
</tr>
<tr>
<td>Air Inlet Size</td>
<td>1/4 NPT(f)</td>
</tr>
<tr>
<td>Pump Fluid Outlet Size</td>
<td>-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</td>
</tr>
<tr>
<td>Wetted Parts</td>
<td>303/304, 17-4 PH, hard chrome, Chromex™, carbide, chemical resistant O-rings, PTFE, nylon, UHMWPE</td>
</tr>
<tr>
<td>Weight – PR70</td>
<td>120 lb (55 kg) typical with two 7.5 l tanks</td>
</tr>
<tr>
<td></td>
<td>330 lb (150 kg) typical with two 60 l tanks</td>
</tr>
<tr>
<td>Weight – PR70v</td>
<td>160 lb (73 kg) typical with two 7.5 l tanks</td>
</tr>
<tr>
<td></td>
<td>370 lb (168 kg) typical with two 60 l tanks</td>
</tr>
<tr>
<td>Weight – PR70v</td>
<td>100 lb (46 kg) typical without tanks</td>
</tr>
<tr>
<td>Electrical Power</td>
<td>100-240V 50/60Hz 1 phase for machine – 80 watts</td>
</tr>
<tr>
<td></td>
<td>208–240V 50/60Hz 1 phase for heat – 10 kW max</td>
</tr>
<tr>
<td></td>
<td>120 or 240V 50/60Hz 1 phase for on-board agitators</td>
</tr>
<tr>
<td>Compressed Air</td>
<td>&lt; 10 scfm typical (varies with cycle time)</td>
</tr>
</tbody>
</table>
MD2 DISPENSING VALVE

Manual Dispense Gun Option

Lever-Actuated Dispense Valve

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 Snuff-back Control

Dispenses material only where you need it

Independant 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

Adjustable Inlet Position

Flexibility during system installation
Minimizes dead spaces in fluid path

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
HFR METERING SYSTEM

PRESENTATION

The piston rods Chromex and Severe Duty cylinders 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 predict 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.

With the Graco HFR Metering System, you accurately measure a specific ratio and volume – first time, every time. As the machine dispenses material, it automatically fine-tunes and adjusts to achieve a consistent material flow or pressure. With a +1% ratio accuracy, you reduce scrap and rework with accurate, on-ratio dispensing.

The Graco HFR Metering System is a high-quality meter, mix and dispense system that offers more technology and functionality – at a lower price than traditional custom RIM systems. A low initial investment allows you to participate in the marketplace where it may not have been possible before.

The system’s horizontal pumps can be rebuilt at your facility, eliminating costly rebuilds and the need for backup pumps. Less downtime, reduced maintenance costs, and lower parts inventory mean more profits for your company.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>122 x 150 x 86 cm (48W x 59H x 34D in )</td>
</tr>
<tr>
<td>Mix ratio range</td>
<td>Fixed ratio, 1:1 to 16:1, shot to continuous flow</td>
</tr>
<tr>
<td>Ratio tolerance range</td>
<td>Up to +1%</td>
</tr>
<tr>
<td>Fluid filtration</td>
<td>20 mesh standard</td>
</tr>
<tr>
<td>Minimum Flow rates</td>
<td>7.5 cc/s (0.12 gpm)</td>
</tr>
<tr>
<td>Maximum Flow rates</td>
<td>316 cc/s (5.0 gpm)</td>
</tr>
<tr>
<td>Fluid inlets without feed kits</td>
<td>3/4 npt</td>
</tr>
<tr>
<td>Max. mixed fluid working pressure</td>
<td>207 bar, 20.7 MPa (3000 psi)</td>
</tr>
<tr>
<td>Min. pump inlet fluid pressure</td>
<td>0.3 bar, 0.03 MPa (50 psig)</td>
</tr>
<tr>
<td>Max. ambient temperature</td>
<td>49°C (120°F)</td>
</tr>
<tr>
<td>Weight Base machine</td>
<td>287.6 kg (634 lb)</td>
</tr>
<tr>
<td>Weight Fully configured</td>
<td>393.7 kg (868 lb)</td>
</tr>
<tr>
<td>Wetted parts</td>
<td>Stainless steel, PTFE, UHMWPE, tungsten carbide</td>
</tr>
<tr>
<td>Pumps (A and B)</td>
<td>Stainless steel, PTFE, UHMWPE, tungsten carbide</td>
</tr>
<tr>
<td>Manifold</td>
<td>Aluminum or stainless steel</td>
</tr>
<tr>
<td>Applicator</td>
<td>Varies based on applicator chosen</td>
</tr>
<tr>
<td>Primary heaters</td>
<td>Aluminum, carbon steel</td>
</tr>
<tr>
<td>Fluid viscosity range</td>
<td>Until 30 000 cp</td>
</tr>
</tbody>
</table>
Advanced Display Module

Provides easy setup, monitoring and system diagnostics
USB drive for data reporting
Stores 100 shot sizes and five sequences of 20 positions each

IsoGuard Select System

Prevents isocyanate crystallization – less maintenance, more uptime

Fully Configurable

Select what you need for your material and application - no more, no less
Shorter lead time than custom solutions
Standard wear parts are quickly available

Motor Control Module

In constant communication the Advanced Display and Motor Control Modules make real-time adjustments to deliver a highly precise dispense

Power Distribution Box

Modular assembly replaces complex wiring

Graco Z-Series Horizontal Pumps

Provide precision control to eliminate pressure spikes
Positive displacement pumps are easy to service with easy-to-replaced cartridge packings, seals and pumps seats

Compact Design

Small footprint saves valuable space in your plant
122 x 150 x 86 cm (48W x 34D x 59H in)

ADVANTAGES

A modular design gives you the freedom and flexibility to configure the components that are essential for your specific application requirements – no more, no less. Standard configured equipment can be delivered to your door much faster than a custom solution.

And with Graco’s established global distribution network, service is there when you need it.

-) Provides precision control to eliminate pressure spikes
-) Positive displacement pumps are easy to service
-) “Real” positive displacement pump
-) Elastomeric seals and positive ball checks
-) Wide variety of materials – Fillers, high viscosity, abrasive fluids
-) Close loop control on pressure and flow

REMARKS

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GRACO EP POUR GUN

The Graco EP Pour Gun is sure to change the way the industry thinks about mixheads. That’s because it’s engineered to be reliable, light and versatile with features and technology that reduce your cost of ownership in the long run.

The Graco EP Pour Gun is truly an innovative advancement for the polyurethane processing industry. First of all, it’s engineered with technology that allows for on-site rebuilds. Which means significantly less downtime and no more expensive backup mixheads. Secondly, it’s affordable, with a low initial investment. Best of all, the Graco EP Pour Gun provides accurate on-ratio dispensing and handles a variety of materials.

- Low initial investment
- Updated technology allows for on-site rebuilds
- Reduces downtime
- Eliminates expense of backup mixheads
- Processes both rigid and flexible polyurethanes
- Handles filled materials
- Maintains accurate mix ratio
- Responsive trigger delivers repeatable and accurate shots
- Weighs 6.4 to 7.4 lb (2.9 to 3.4 kg)
- Manual and automated capabilities
- Graco HFR Metering System™
The Graco HFR Metering System features intuitive user interfaces based on the Graco Control Architecture,™ a modular system of processing and control components. Products using 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.

Material dispensing reaches a new level of precision due to proprietary algorithms and adaptive technology. The Graco Metering System uses advanced controls to monitor the system and control the dispensing and material conditioning processes. The system is capable of producing either a constant pressure material output or a constant flow rate material output.

The advanced Display Mode is easy to understand and operate. Because it’s easy to use, you spend less time on training and reduce operator error as well.

---

**MATERIALS**

<table>
<thead>
<tr>
<th>Polyurethane foams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyurethane elastomers</td>
</tr>
<tr>
<td>Epoxies</td>
</tr>
<tr>
<td>Silicones</td>
</tr>
<tr>
<td>Polyureas</td>
</tr>
<tr>
<td>Soft filled materials</td>
</tr>
</tbody>
</table>

**APPLICATIONS**

<table>
<thead>
<tr>
<th>Polyurethane processing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
</tr>
<tr>
<td>Potting</td>
</tr>
<tr>
<td>Encapsulating</td>
</tr>
<tr>
<td>Vacuum infusion</td>
</tr>
</tbody>
</table>

**ADVANCED DISPLAY MODULE**

- Programmable shot sizes and sequencing
- Easy configuration of integrated temperature controls
- Immediate access to error/event history
- Material usage and pump cycle counter
- Simple interface for machine calibration
- Allows you to archive valuable setup parameters
PD44 DISPENSING SYSTEM : HIGH PERFORMANCE VALVE

PRESENTATION

The patented PD44 valve features balanced inlet/outlet spool assemblies that do not displace material while shifting from the reload to the dispense position. This allows pressure feeding of the “A” and “B” components up to 1200 psi during reloading while isolating the materials from the mixer inlet. Upon shifting to the dispense position without any material displacement, an accurate volume of “A” and “B” components is injected into the disposable mixer inlet by rod displacement metering technology.

The PD44 provided by PDS is specifically designed to dispense small amounts of thin water to paste viscosity materials from 0.005cc’s to 5cc’s. The metering rods are matched with machined seals for improved seal life. There are no material hoses between the rod pump outlets and mixer inlet which eliminates potential ratio or shot size problems (phasing) due to hose expansion and contraction.

BENEFICES

- Improved low viscosity spool design
- Rod positive displacement metering
- Precise mix ratio and shot repeatability
- Eliminates cleaning and potential hardening of materials in the valve

REMARKS

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PD44: HOW IT WORKS

RELOAD
- Spools shift to the right
- Material feed inlets are opened
- Materials are transferred into the metering chambers by a pressurized feed system
- Outlet ports are blocked
- Metering rods are retracted to a precise position determining the volume of each material

SHIFT
- The balanced spool assemblies shift to the dispense position
- Material path to the mixer inlet is opened
- Material feed inlet ports are blocked
- Metering rods remain in the retracted position

DISPENSE
- Metering rods drive down
- A and B materials are simultaneously dispensed from the metering chamber into the disposable mixer
- A and B materials are dispensed at the predetermined ratio
- Upon completion of the dispense stroke, the metering rod and spool assemblies shift back to the reload position

TO ORDER, PLEASE CALL +33 (0)1 39 62 40 92
PD44 : VALVE

Shroud and disposable mixer
Material Feed Inlet Block
Balanced Inlet/Outlet Spool/Sleeve Assembly
Machined Seals for longer cycle life
"A" and "B" Precision Metering Rods for accurate and repeatable volume ratio control
Upgraded Sensors for faster response and reliable position control for long term performance

PATENTED PD44 METERING VALVES

- Manual control of shot size
  Pneumatically-driven valves have micrometer adjuster to easily set the desired shot size. The micrometer features a locking mechanism to fix the selected shot size.

- Programmable Shot size control
  Linear actuator provides shot size control. Useful feature when a different programmable shot size is required.

- Programmable flow and shot size control
  Electric drive motor allows programmable shot size and flow rate. This is important when adapting the PD44 valve to X-Y-Z motion tables and to provide precise flow rate control when applying continuous beads of material.
### “A” and “B” Metering Rods

A wide selection of standard size metering rods are available depending on the ratio and shot sizes desired. Custom sized metering rods can be machined to accommodate most material ratios. The standard construction of the main body is 303/304 stainless steel. The standard construction of the metering assembly is a nitrided tool steel rod and a nitrided tool steel tube. Optional materials include stainless steel rod with UHMW polyethylene tube and a tungsten rod with UHMW polyethylene tube.

<table>
<thead>
<tr>
<th>Ratio Range</th>
<th>1:1 to 25:1 by volume depending on the size of the metering rods selected.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shot Size Capability</td>
<td>0.005 cc’s to 5.0 cc’s depending on the size of the metering rods selected.</td>
</tr>
</tbody>
</table>

**Cycle Rate**

- Up to 60 cycles per minute with pneumatic drive
- Max cycle depends on the length of the stroke, size of metering rods, material viscosity, mixer, outlet needle employed and any back pressure or flow limitations created by the product into which material is being dispensed.

**Balanced Inlet/Outlet Spool Assemblies**

The pneumatically actuated spool assemblies keep the “A” and “B” materials separate in the valve and isolate the material inlets from the outlets to the mixer. The standard construction of the spool assembly is a nitrided tool steel spool and a nitrided tool steel sleeve. Optional materials include stainless steel spool with UHMW polyethylene sleeve and a tungsten spool with UHMW polyethylene sleeve.

**Material Feed System**

Pressure feed systems including cartridges, tanks and transfer pumps, can be employed to feed “A” and “B” components up to 1200 PSI. The appropriate selection of feed equipment is dependent on material viscosity and processing requirements.

**Accessories**

Level controls, agitators, follower plates, vacuum degassing, nitrogen blanketing, etc. are readily available.

**Mixers**

Disposable Posimixers are available in sizes from 1/8” [3.175mm] to 3/8” [9.525mm] in diameter and in a various number of elements to provide through blending of most reactive resin systems. Lab tests may be required to determine the specific mixer required for a particular application.

**Disposable Needles**

From 14 gauge to 30 gauge. A variety of Luer Lock needle sizes are available to adapt to the Posimixer outlets.

**Metering Drives**

The standard drive is an air cylinder with a precise manual stroke adjustment. Additional drive options include:
- A linear resistive transducer air cylinder providing electronic shot size control.
- A stepper or servo ready lead screw actuator for precise shot and flow control.

**Machine Controls**

Free standing table-top control panels are available for air cylinder and motor driven valves. Standard hardware includes: Monochrome touch screen, audio alarm and foot switch. Standard features include: Purge timer, cycle counter and totalizer. Motor driven controls include a NEMA 23 stepper motor featuring shot size and flow rate control.

**Dimensions**

<table>
<thead>
<tr>
<th>Component</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>15” [381mm] H x 4 1/8” [105mm] L x 7 9/16” [192mm] Width</td>
</tr>
<tr>
<td>Mixer</td>
<td>Add 4” [100mm] to 14 3/4” [375mm] H to the height.</td>
</tr>
<tr>
<td>Pneumatic Controller</td>
<td>15” [381mm] W x 12” [305mm] D x 13” [330mm] Height</td>
</tr>
<tr>
<td>Electric Controller</td>
<td>20” [508mm] W x 8” [203mm] D x 20” [508mm] Height</td>
</tr>
</tbody>
</table>

**Weight**

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD44 valve only</td>
<td>6.35 kg - 6.80 kg (depends on drive).</td>
</tr>
<tr>
<td>PD44 bench stand and controller</td>
<td>22.68kg to 34.02kg (depends on options)</td>
</tr>
</tbody>
</table>

**Service Requirements**

Normal industrial compressed air supply - 0.1 [0.0028 m³/min] to 2.58 CFM [0.07m³/min] at 80psi (5.62 Kg/cm²).

Electric - 120/230V, 50/60Hz
CONTROLLER

PNEUMATIC CONTROLLER

- Used for Manual and Programmable dispensing
- Shot Size Control

Sensors in the valve monitor the position of the spool assemblies and metering rods. These sensors interface with the control panel to assure proper valve operation. PD44 systems can help you save material and labour costs for a variety of dispensing applications, whether you are using manual, semi-automated or automated manufacturing processes.

ELECTRIC CONTROLLER

- Used for Programmable dispensing
- Flow and Shot Size

This free-standing table-top controller includes a NEMA 23 stepper motor for precise flow and shot control. Other features include:

- A monochrome touch screen, audio alarm and foot switch
- Seven programmable shot sizes and flow rates
- Customer I/O connections for integration with auxiliary equipment.
Cartridge Feed Systems

Cartridges of various sizes can be placed in pressurized retainers to allow low to medium viscosity materials to transfer to the PD44 valve.

Transfer Pumps and Rams

Low to high viscosity materials can be pumped directly from bulk containers using pail and drum rams, transfer pumps and feed hoses as required.

Reservoir Tanks

Various sized reservoir tanks can be used to transfer low to medium viscosity materials to the PD44 valve.

Complete System

PD44 with pneumatic controller, manual micrometer shot adjuster and dual one gallon transfer pump feed package.

More information at power units and devices chapter or at www.polydispensing.com
The fluid dispensing being the cornerstone of numerous production chains, PDS
emphasizes on this specific need by proposing a wide range of innovative and
efficient dispensing equipments.

French leader on this area, its specialty is to design and implement solutions
to put down and dispense every type of fluid in an accurate and repeatable
way during the process of assembly. Thanks to its vast field of activity and
application, no doubt that PDS will know how to resolve your most complex
problems of deposit and brings you the suited recommendations to optimize
your production’s capacities.

Persuaded that our expertise must be complete, we also supply you tools in
order to prepare your fluid (mixture and degassing) and polymerize your glues
(UV sunstroke). Our range of consumables (needles, syringes, static mixers etc
are also considered as the best in the market.

So we provide you every type of dispensing equipments to allow you to use
efficiently your fluids regardless of the viscosity : glues, greases, lubricants,
pastes, solvents, silicones, inks, activators, RTV, paints.

Present in more than 20 countries in the world, performance, quality, service
and technology are at the center of all our concerns.