

# Introduction to the Graco PR70e



# **PR70e Introduction**

- Base unit includes:
  - Fixed Ratio Base
  - 2.5 foot (0.8m) hoses
  - 8L PE Tanks
  - MD2 Valve
  - LCM
- Different from PR70
  - LCM Screen
  - Shot size control (0%-100% of stroke)
- Same as PR70
  - Hardware
  - Accuracy
  - Repeatability
- Base System List price \$10,000





### **Key Industries**

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

## **PR70e Introduction**





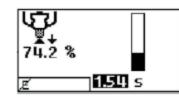
# **PR70e Introduction**





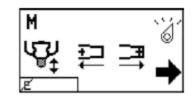
#### Local Control Module (PR70e only)

- · 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

# PR70e Vs PR70



		PR70e with LCM	PR70 with DM	PR70 with ADM	PR70v with ADM
System	Configured system?	no	yes	yes	yes
Ratios	Fixed Ratio	1:1 to 12:1	1:1 to 12:1	1:1 to 12:1	NA
	Variable Ratio	NA	NA	NA	1:1 to 24:1
Shots	Number of shots	1	5	50	50
	Shots Based on Percentage of stroke	Yes	No	No	No
	Weight Based Shots	No	Yes	Yes	Yes
	Multi-stroke shots (over 100%)	No	Yes	Yes	Yes
	Shot Sequencing	No	Optional	Yes	Yes
Monitoring	Pressure Monitoring	No	Optional	Optional	Optional
	Ratio Monitoring	No	Optional	Optional	Optional
Data Controls	Local Control Module (LCM)	Yes	No	No	No
	Display Module (DM)	No	Yes	No	No
	Advanced Display Module (ADM)	No	Optional	Yes	Yes
	Gel Timer	No	Yes	Yes	Yes
	Run with Automation (PLC)	No	Yes	Yes	Yes
	USB Download	No	Optional	Yes	Yes

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# PR70e Vs PR70



		PR70e with LCM	PR70 with DM	PR70 with ADM	PR70v with ADM
Webser	1:1 MD2 Valve	Optional	Optional	Optional	Optional
Valves	10:1 MD2 Valve	Optional	Optional	Optional	Optional
	2.5 ft (76 cm) Hoses	Accessory	Optional	Optional	Optional
Hoses	10 ft (3 m) Hoses	Accessory	Optional	Optional	Optional
	15 ft (4.6 m) Hoses	Accessory	Optional	Optional	Optional
	Plastic Tanks	Accessory	Optional	Optional	Optional
	On-Board Stainless Steel Tanks	Accessory	Optional	Optional	Optional
	1-1/2 NPT Flange Kit for bulk feed	Accessory	Optional	Optional	Optional
	Off-Board Stainless Steel Tanks	Accessory	Optional	Optional	Optional
	Heated Tanks	No	Optional	Optional	Optional
Tanks,	Agitation	Accessory	Optional	Optional	Optional
Accumulators,	Tank Level Sensors Low	No	Optional	Optional	Optional
Heated Equipment,	Tank Level Sensors High	No	No	Optional	Optional
Accessories	Accumulators	No	No	Optional	Optional
	Auto Refill	No	No	Optional	Optional
	Mixers & Shrouds	Accessory	Optional	Optional	Optional
	Valve Mounting	Accessory	Optional	Optional	Optional
	Incoming air shutoff & filter	Accessory	Standard	Standard	Standard
	Heated Hoses	No	No	Optional	Optional
	Recirculation	No	No	Optional	Optional

Optional items can be selected from the configurator and are factory installed. Accessories are orded when you order the machine, but you assemble it onto the machine at your location.

## How to Order a PR70e (6 Steps)\*



### **STEP 1:** Select your PR70e system for air motor size & valve

The four PR70e system part numbers shown below include the fixed ratio PR70e frame, feed system inlet manifold, one MD2 valve, ADM with 6 foot (2 m) umbilical and basic metering pump components. Note that these system part numbers do not include any metering pumps, outlet hoses, feed reservoirs, air inlet moisture trap, foot switch, mixers, shroud etc.

System	MD2 Valve Volume Ratio	Air Motor in. (cm)	Required Line Voltage	Machine Operation Voltage psi (MPa, bar)	Maximum Working Pressure psi (MPa, bar)	Maximum Air Inlet Pressure
24S054	1:1	0.70				
24S055	10:1	3 (7.6)	3 (7.6) 100-240 V, 50/60 Hz,	24 VDC	3000 (21, 207)	100 (0.7, 7)
24S056	1:1	4.5 (11.4)	1 Phase - 50 Watts			
24S057	10:1	4.3 (11.4)				

\*Examples only. Download Flyer 349269A.F from website for complete info



### **STEP 2:** Determine your pump size based on min / max shot size

Pump Tube Combination Information					Power Facto	or
Volumetric Ratio (X:1)	Large Piston (mm)	Small Piston (mm)	Minimum Shot Size (cc)	Maximum Shot Size (cc)	3 in. Air Motor	4.5 in. Air Motor
1	960	960	12.4	71	2	5
1	640	640	8.3	47.3	4	8
1	480	480	6.2	35.5	5	11
1	320	320	4.1	23.7	7	16
1	240	240	3.1	17.7	10	21
1	160	160	2.1	11.8	14	Х
1	120	120	1.6	8.9	19	Х
1	80	80	1	5.9	29	Х
1.5	240	160	2.6	14.8	11	26
1.5	960	640	10.4	59.1	3	6
1.5	480	320	5.2	29.6	6	13
1.5	120	80	1.3	7.4	23	Х
2	960	480	9.3	53.2	3	7
2	640	320	6.2	35.5	5	11
2	480	240	4.7	26.6	6	14
2	320	160	3.1	17.7	10	21

## How to Order a PR70e



### **STEP 3:** Select your Piston Package based on your requirements

The metering pump components are called the "Piston Package." Each piston package consists of a metering tube, piston, washer screw, O-Rings (as shown in the column headings below). For example, if you have a 4:1 volume mix ratio, and want a 960mm / 240mm nylon pump combination, you could order the LC1960 and LC1240 Piston Package as shown in the chart below.

		Reference Number and Description					
Piston	Piston	601	602	603	604	605	606
Size (mm)	Package	Tube, Pump	Nylon Piston	Washer	Ring, Support, Piston	Screw	0-Ring
80	LC1080	LCC080	LCB080	1510000			
100	LC1100	LCC100	LCB100	15M089			
120	LC1120	LCC120	LCB120				
140	LC1140	LCC140	LCB140				
160	LC1160	LCC160	LCB160				
180	LC1180	LCC180	LCB180				
200	LC1200	LCC200	LCB200	15M099	15K887		
220	LC1220	LCC220	LCB220				

#### Nylon Piston, Stainless Steel Metering Tube Assemblies

## How to Order a PR70e



#### STEP 4: Select your tank or open inlet flanges

24W415 Twin 8L Polyethylene tanks with lids

24W416 Twin 8L Polyethylene tanks with lids and shut off valves

24W417 11/2 in NPT open inlet flanges for both pumps

### STEP 5: Select your hoses by length and diameter required

Individual hoses are called the "Hose Package." Each hose package consists of the hose with the fittings required to connect the hose to the PR70 and the MD2 valve.

For example, with 4:1 volume mix ratio material, you could select the following hose packages: LC0813 (% x 120 in Hose Package) LC0808 (3/8 x 120 in Hose Package)

			Reference Number and Description				
		1401	1402	1403	1404		
Hose Package	Description	Hose Assembly	90 Deg Elbow	Adapter	Bushing		
LC0801	3/16 in. x 30 in.	16C501	94/0144-S/25	94/1000/98	94/0488/98		
LC0802	3/16 in. x 120 in.	16C506	94/0144-S/25	94/1000/98	94/0488/98		
LC0803	3/16 in. x 180 in.	16C507	94/0144-S/25	94/1000/98	94/0488/98		
LC0804	1/4 in. x 30 in.	16C510	94/0148-S/25	J6900040			
LC0805	1/4 in. x 120 in.	16C515	94/0148-S/25	J6900040			
LC0806	1/4 in. x 180 in.	16C516	94/0148-S/25	J6900040			
LC0807	3/8 in. x 30 in.	16C519	94/0149-S/25	94/1007/98			

## How to Order a PR70e



#### **STEP 6:** Complete your PR70e order by selecting accessory items

Refer to the "PR70 Accessories" page in this brochure and select the items needed to meet your requirements.

For example, you most likely will need an incoming air filter and vented ball valve (PN 24R707) and a foot switch (PN 255244).

Note that all PR70e component pricing can be found on GEDI under Order & Pricing / Graco Ohio/Price and Availability.

Acc	essories				
Reservoir	Atmosphere Conditioning	Service Kit	ts for PR70/PR70v		
LC0097 LC0098 LC0095* LC0096*	LC0098 Desiccant Dryer Refill Cartridge LC0095* Nitrogen Kit for 30L and 60L tank, 1 tank		MD2, Convert soft seat nose to hard seat (hard seat rebuild), needle and nose Clear membrane covers for the Advanced Display Module screens, 10 pack Clear membrane covers for the Standard		
Reservoir Vacuum Conditioning for PR70/PR70v			Display Module screens, 10 pack		
LC0099	9 Vacuum Transfer Pumps, 120V, Down to 25 Torr (Requires Vacuum Transfer Connect Kit)		Service Kits for All PR70 Models		
LC0100	Vacuum Transfer Pumps, 240V, Down to 25 Torr (Requires Vacuum Transfer Connect Kit)	LC0008 255219	Cord, I/O interface with footswitch port MD2, Soft seat rebuild, needle and nose		
256205 256206	Vacuum Transfer Connect Kit, Single On-Board Tank Vacuum Transfer Connect Kit, Dual On-Board Tanks	255218	MD2, Kit rebuild, back end of wet section (no needle or seat)		
256207 256209	(1 Vacuum pump) Vacuum Transfer Connect Kit, Single Off-Board Tank Vacuum Transfer Connect Kit, Dual Off-Board Tanks (1 Vacuum pump)	255217 16H378 LC0091 LC0092	MD2, Kit rebuild, air cylinder Clear membrane covers for Local Display Module screens, 10 pack 3.0 in Air Cylinder Rebuild Kit 4.5 in Air Cylinder Rebuild Kit		
256577	Auto-refill, tank-mount valve (1), solenoid, and mounting bracket for fluid shutoff	LC0093 LC0094	Check Valve Rebuild Kit Rear Pump Seal Rebuild Kit		