

Masterflex® L/S® Benchtop Pump System

Conveniently compact footprint

- Preconfigured Masterflex L/S peristaltic pump with two Easy-Load® II pump heads
- Platinum-cured silicone tubing offers long life with excellent compression strength

The Masterflex L/S drive is easy to use and provides precise speed control and a digital display of motor rpm, ideal for metering and dosing applications. The maintenance-free, high-accuracy motor and a graphical interface make setup and operation easy.



What's included: Masterflex L/S variable-speed drive (07528-10), two Masterflex Easy-Load II pump heads (77200-50), Masterflex BioPharm Plus silicone tubing, 10-L LDPE carboy, filler nozzle, equipment clamp, scaffold foot, frame clamp and rod, and base.

Description	Max flow	Cat. no.	Price
Masterflex L/S variable-speed pump system	1700 mL/min	GY-70793-22	

Masterflex® I/P® Metering Pump System

Convenient “plug-and-play” installation



- Emergency Stop switch cuts power to the pump drive and also closes an inlet valve to minimize fluid loss

This maintenance friendly dual-channel pump system lets you accurately dispense fluids from 0.002 to 26 LPM, achievable with a wide range of tubing formulations and sizes. The Masterflex I/P® digital process drive features a rugged, brushless low-maintenance motor with precise digital control. The motor provides ±0.1% speed control with a 6000 to 1 turndown ratio. All components are securely mounted onto a heavy-duty “skid” (or base) for easy access and maintenance.



What's included: Masterflex I/P digital process brushless drive (77420-10), two Masterflex I/P Easy-Load pump heads (77601-60), Masterflex I/P 82 Y-tubing assembly, solenoid valve, strainer, calibration column, pressure gauge with diaphragm, in-line sight flow indicator, back pressure valve, Emergency Stop switch, duplex receptacle, and base.

Description	Max flow	Catalog number	Price
Masterflex I/P process drive metering pump system	13 L/min	GY-70793-52	

Pressure Booster Pump Systems

Maintain set pressure—speed auto adjusts

- NEMA 1 or NEMA 4 variable frequency drive controller with corresponding main disconnect
- Three-phase input line voltage (single-phase systems are available)
- Two-stage pump systems available for higher pressure application

Pump supply booster systems feature a stainless steel centrifugal pump. System is controlled by the variable frequency drive (VFD) which features an LCD and adjustable pressure range; choose the VFD with either a NEMA 1 or NEMA 4 rated enclosure and main disconnect. The pump system will automatically adjust speed to maintain the set pressure (within pump's designed capability). System has a small footprint of approximately 24" x 30" (61 x 76.2 cm), and has a 1.5" NPT(F) suction and discharge connection. Piping, valve, and drain bodies are made from brass to meet most needs.

What's included: pump, VFD controller, bladder tank, suction and discharge gauges, discharge check valve, backup relief valve, and necessary piping and drain.



70794-10

Max flow GPM (L/min)	Max pressure psi (bar)	Motor			NEMA 1 controller enclosure		NEMA 4 controller enclosure	
		hp	Vac	Phase	Catalog number	Price	Catalog number	Price
Single-stage pumps								
38 (144)	35 (2.4)	3/4	230/460	3	GY-70794-00		GY-70794-40	
38 (144)	45 (3.1)	1			GY-70794-02		GY-70794-42	
38 (144)	63 (4.3)	2			GY-70794-04		GY-70794-44	
60 (227)	33 (2.3)	1			GY-70794-10		GY-70794-50	
60 (227)	44 (3.0)	1 1/2			GY-70794-12		GY-70794-52	
60 (227)	63 (4.3)	3			GY-70794-14		GY-70794-54	
83 (314)	32 (2.2)	1 1/2			GY-70794-20		GY-70794-60	
93 (352)	44 (3.0)	3			GY-70794-22		GY-70794-62	
100 (378)	56 (3.9)	3			GY-70794-24		GY-70794-64	

Note: Please specify input line voltage at time of purchase.

Tabletop Piston Pump Filling Systems

Make repetitive dispensing easy

- Dispense from <1 to 130 mL
- Maintain high accuracy (±0.5% or better) with high cycle rate
- Handle a wide range of viscosities



REQUIRED System Components

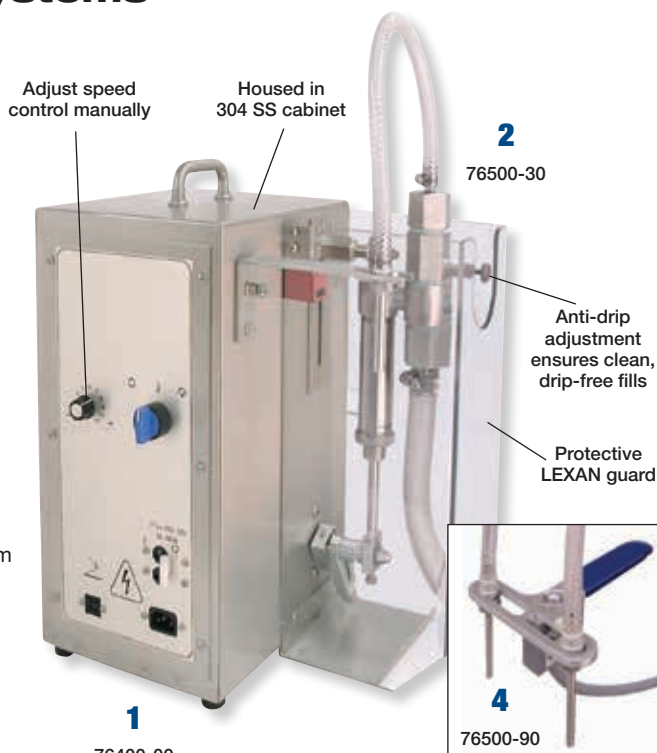
- 1) Tabletop filler
 - 2) Piston pump
- Optional**
- 3) Service kit
 - 4) Manual nozzle holder with remote switch

Ideal for free-flowing, semi-viscous, or viscous fluids. Operate the system via foot switch (included with system) or continuous cycle mode. For tabletop fillers 76400-00, -10, and -20, order the optional manual nozzle holder 76500-90 with remote switch for handheld operation.

Tabletop filler includes: foot switch and a 6-ft (1.8-m) cord with IEC 320 plug.

Pump includes: intake and discharge hoses, and stainless steel nozzle.

Service kit includes: spare O-rings and pump seals.



CE
76400-05,
76400-15 only

1. Tabletop Fillers

Description	No. of piston pumps accepted	Compatible piston pumps	Liquid viscosity	Fill sizes	Cycle rate†	Power	Catalog number	Price
Single-head piston pump tabletop filler	One	76500-00, -10, -20, -30, -60	Free-flowing††, semi-viscous††	<1 to 130 mL	3 to 35 fills/minute	110 VAC	GY-76400-00	
Dual-head piston pump tabletop filler	Up to 2	76500-10, -20, -30, -60	Free-flowing††, semi-viscous††	<1 to 130 mL	6 to 70 fills/minute	110 VAC	GY-76400-10	
						220 VAC	GY-76400-15	
Dual-head piston pump tabletop filler with valve actuator	Up to 2	76500-10, -20, -30, -60 76500-40, -50 (for valve actuated feature)	Semi-viscous††, heavy viscosity†††	<1 to 130 mL	6 to 70 fills/minute	110 VAC	GY-76400-20	
						220 VAC	GY-76400-25‡	

†Actual dispense rates may vary depending on product, fill volume, and accuracy desired. ‡Tabletop filler 76400-25 is not CE-marked.

‡†Semi-viscous = thin oils, conditioner, shampoo, thin syrup, saturated solutions, agar, hand/body lotion †††Heavy viscosity = cream, heavy shampoo, paste, detergent, heavy syrup

Specifications for Piston Pumps and Service Kits

Accuracy: ±0.5% or better

Wetted materials: stainless steel, silicone, and PTFE

Piston type: stainless steel with O-ring

2. Piston pumps							3. Service kits		
Dispensing volume	Liquid viscosity	Intake and discharge valve type	Intake hose	Discharge hose	Nozzle	Catalog number	Price	Catalog number	Price
0.1 to 1.0 mL	Free-flowing††	SS ball check, passively actuated	3/16" ID braid reinforced PVC	1/8" ID braid reinforced PVC	1/16" SS	GY-76500-00		GY-76500-01	
0.3 to 3.0 mL	Free-flowing††, semi-viscous††	SS ball check, passively actuated	3/8" ID braid reinforced PVC	1/8" ID braid reinforced PVC	1/8" SS	GY-76500-10		GY-76500-11	
1.5 to 15 mL	Free-flowing††, semi-viscous††	SS ball check, passively actuated	3/8" ID braid reinforced PVC	3/16" ID braid reinforced PVC	3/16" SS	GY-76500-20		GY-76500-21	
6.0 to 60 mL	Free-flowing††, semi-viscous††	SS ball check, passively actuated	3/4" ID braid reinforced PVC	3/8" ID braid reinforced PVC	3/8" SS	GY-76500-30		GY-76500-31	
1.0 to 10 mL	Semi-viscous††, heavy viscosity†††	Spool valve, air actuated	3/8" ID braid reinforced PVC	3/16" ID braid reinforced PVC	3/16" SS	GY-76500-40		GY-76500-41	
6.0 to 60 mL	Semi-viscous††, heavy viscosity†††	Spool valve, air actuated	3/4" ID braid reinforced PVC	3/8" ID braid reinforced PVC	3/8" SS	GY-76500-50		GY-76500-51	
13.0 to 130 mL	Free-flowing††	SS ball check, passively actuated	3/8" ID braid reinforced PVC	3/8" ID braid reinforced PVC	3/8" SS	GY-76500-60		GY-76500-61	

††Free-flowing = aqueous solutions, water-thin reagents

‡†Semi-viscous = thin oils, conditioner, shampoo, thin syrup, saturated solutions, agar, hand/body lotion

†††Heavy viscosity = cream, heavy shampoo, paste, detergent, heavy syrup

4. Manual Nozzle Holder

[GY-76500-90](#) Manual nozzle holder with remote switch. Use only with 110 VAC tabletop fillers