

DIAPHRAGM-TYPE INJECTION METERING PUMPS



FPUDV1101 shown smaller than actual size.

FPUD1000 Series



- ✓ Adjustable Stroke Length for High Accuracy Pumping with Front Mount Mechanical Feed Rate Adjustment
- ✓ Variable Speed Models with Digital or Dial Knob Control
- ✓ Fixed Speed Models with Available Cycle Time Control
- ✓ High Output Flow Rate to 1363 LPD/360 GPD (56.8 LPH/15 GPH)
- ✓ 10.3 bar (150 psig) Maximum Outlet Pressure
- ✓ Double Ball Inlet and Outlet Cartridge Type Ceramic Check Valves
- ✓ 20:1 Turndown Ratio (5 to 100%) Stroke Length Adjustment

- ✓ Variable Speed and Cycle Time Models Feature Additional 20:1 Turndown for 400:1, Total Turndown (0.25 to 100%)
- ✓ Double-Ball Inlet and Outlet Cartridge Type Ceramic Check Valves

The FPUD1000 Series positive displacement metering pumps can inject chemicals into piping systems against a high pressure system of up to 10.3 bar (150 psig). A front mounted mechanical flow rate adjustment knob varies the stroke length to vary the feed rate.

SPECIFICATIONS

Maximum Working Pressure: 10.3 bar (150 psig)
Maximum Fluid Temperature: 54°C (130°F)
Ambient Temperature: -10 to 43°C (14 to 110°F)
Maximum Viscosity: 1000 centipoise
Maximum Suction Lift: 3 m (10') water, 0 psig
Stroke Adjustment Range: 20:1, 5 to 100% stroke length

Cycle Time Adjustment Range (FPUD1100 Models Only): 20:1, 5 to 100% cycle time
Motor Speed Adjustment Range (FPUDM and FPUDVM Models Only): 20:1, 5 to 100%
Duty Cycle: Continuous
Enclosure: NEMA (IP21), FPUD1100 & FPUDM models; NEMA 3R (IP23), FPUDV and FPUDVM models; VALOX® thermoplastic
Wetted Materials: Polypropylene pump head, footvalve/strainer and check valve body/insert, PVDF cartridge valve body and tube adaptors, ceramic check balls; TFE/P and FKM O-rings; Hastelloy C-276 spring
Power: 115 Vac/60 Hz, 1.87 A maximum; 220 Vac/60 Hz, 220 or 240 Vac/50 Hz also available (special order only)
Connections: 3/8" OD suction and discharge tubing
Dimensions: 159 H x 235 W x 254 mm D (6.25 x 9.25 x 10")
Weight: 5.4 kg (12 lb) maximum
FPUDV Digital Display Models Additional Specifications
External Speed Control: 4 to 20 mA, 0 to 10 Vdc, and pulse inputs
Display: LCD; indicate motor speed or input signal values, and service and alarm indicator icons
Dimensions: 159 H x 267 W x 254 mm D (6.25 x 10.5 x 10")



FPUDM1101 shown smaller than actual size.

To Order						
Diaphragm-Fixed Speed		Variable Speed		Max Feed Rate @ 0 psi		
Mechanical Stroke Control	60 Seconds Adjustable Cycle Time	Dial Knob Control	Digital Touchpad	GPD	GPH	LPH
FPUDM1101	FPUD1101	FPUDVM1101	FPUDV1101	360.0*	15.0	56.8
FPUDM1102	FPUD1102	FPUDVM1102	FPUDV1102	305.7*	12.7	48.2
FPUDM1103	FPUD1103	FPUDVM1103	FPUDV1103	260.8*	10.8	41.1
FPUDM1104	FPUD1104	FPUDVM1104	FPUDV1104	155.9*	6.4	24.6
FPUDM1105	FPUD1105	FPUDVM1105	FPUDV1105	119.7*	4.9	18.9
FPUDM1106	FPUD1106	FPUDVM1106	FPUDV1106	91.2*	3.8	14.4
FPUDM1107	FPUD1107	FPUDVM1107	FPUDV1107	73.0*	3.0	11.5
FPUDM1108	FPUD1108	FPUDVM1108	FPUDV1108	57.7*	2.4	9.1
FPUDM1109	FPUD1109	FPUDVM1109	FPUDV1109	38.0*	1.5	6.0

* Note: 260.8 GPD = 100 psi maximum; 305.7 GPD = 80 psi maximum; 360.0 GPD = 25 psi maximum.

Accessories

Model No.	Description
TYPE-3814-100	3/8 x 1/4" PE tubing, 30 m (100')
TYSP5F-3814-50	3/8 x 1/4" santoprene tubing, 15 m (50')
FPUD1000-V	Top and bottom valve assembly kit
FPUD1000-BC	Bullet cartridges (4-pack)
FPUD1000-D	Diaphragm PTFE/EP
FPUD1000-PHK	Complete pumphead kit (pumphead, top and bottom valves, diaphragm and 4 mounting screws)
FPU1000-IF	Injection fitting
FPUSV-V	Foot valve strainer
FPU1000-AB	Armature bearings (life cycle, 5000 hours)
FPUD1000A-BK	Replacement brush kit for analog models
FPUD1000D-BK	Replacement brush kit for digital models

Comes complete with suction tube foot valve and strainer, suction tube weight, 1.5 m (5') PVC suction tubing, 3 m (10') PE discharge tubing and injection fitting with internal backflow check valve, mounting hardware and operator's manual.

Ordering Examples: FPUDV1101, variable-speed pump 15 GPH (56.8 LPH).

FPUD1107 electronic percentage diaphragm pump.