ELECTRONIC DOSING PUMP
LMI SERIES B1 / C1

Main technical Specifications

- Mechanically actuated diaphragm electromagnetic pump
- Maximum temperature of pumped chemical: 50 °C
- Self priming hight: 1.5 m
- Accuracy: ± 2% of adjusted output

B1 Series

- Maximum output: 26 l/h
- Maximum pressure: 10.3 bar
- Adjustable frequency: 1 to 100 str/min
- Adjustable stroke length: 0 to 100% Recommanded minimum: 10%

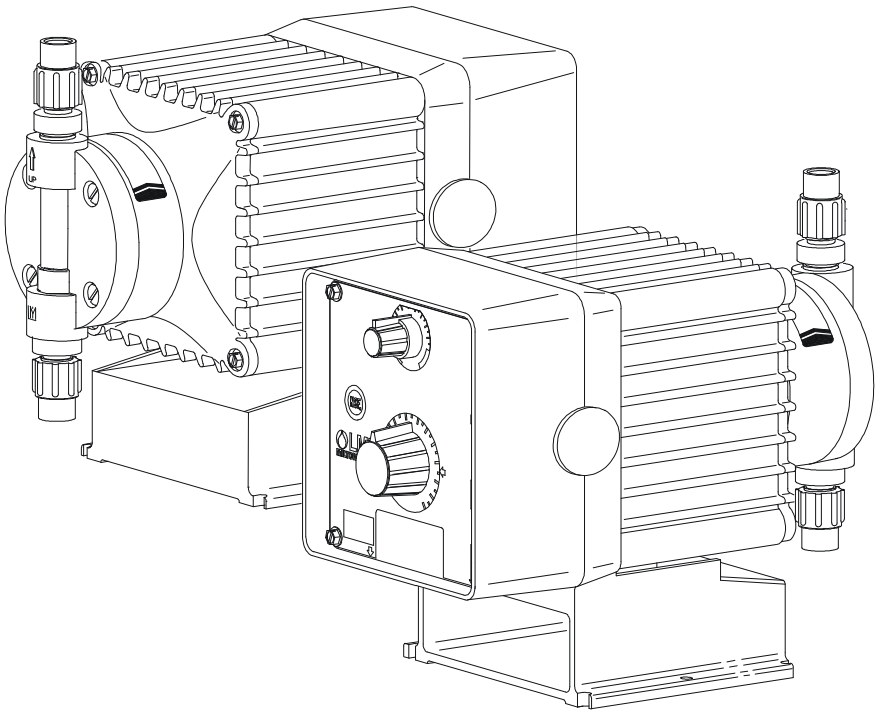
C1 Series

- Maximum output: 76 1/h
- Maximum pressure: 20.7 bar
- Adjustable frequency: 1 to 100 str/min
- Adjustable strokelength: 0 to 100% Recommanded minimum: 10%

Wide Variety of Applications

- Pump head and valves in PVC PVDF, Acrylic or Inox plus designs for high viscosity polymer.
- Ceramic balls and Polyprel® or PTFE seats.
- Composite pump diaphragms of the superior Fluorofilm® assure reliable and leak free operation in a wide variety of chemicals.

Fluorofilm® is a copolymer of tetrafluoroethylene and perfluoroalkoxy. Polyprel® is a copolymer of tetrafluoroethylene and propylene.
Both are registered trade names of LMI.



Unique Features

- Uses LMI's unique molded long life Electromagnetic Power Unit (EPU) with electromagnetically balanced construction.
- Clog resistant injection check valves with flexible flapper nozzle are standard.
- LMI's unique 4-Function Valve or multifunction Auto-Bleed Valve are low cost options.

Simple Rugged Construction

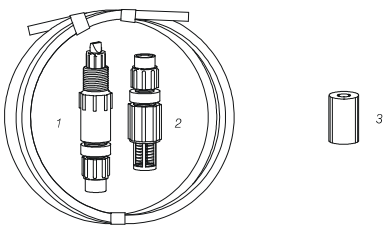
- Thick wall glass fiber or carbon fiber reinforced thermoplastic construction plus integrated metal-plastic structural and magnetic components result in vibration and shock resistance not ordinarily found in competitive products.
- Strong automotive type wire and electrical connectors add to its construction strength.

Totally Enclosed Corrosion Resistant IP65

- O-Ring sealed corrosion resistant enclosure of glass fiber reinforced polypropylene protects the pump from harsh chemicals and tough environments.

Complete with Accessories

- LMI B1 / C1 dosing pumps come complete with:
  1. injection check valve,
  2. foot valve,
  3. ceramic weigth.
- Most models are also available with factory tubing.



All pumps come complete with these accessories.

Specifications

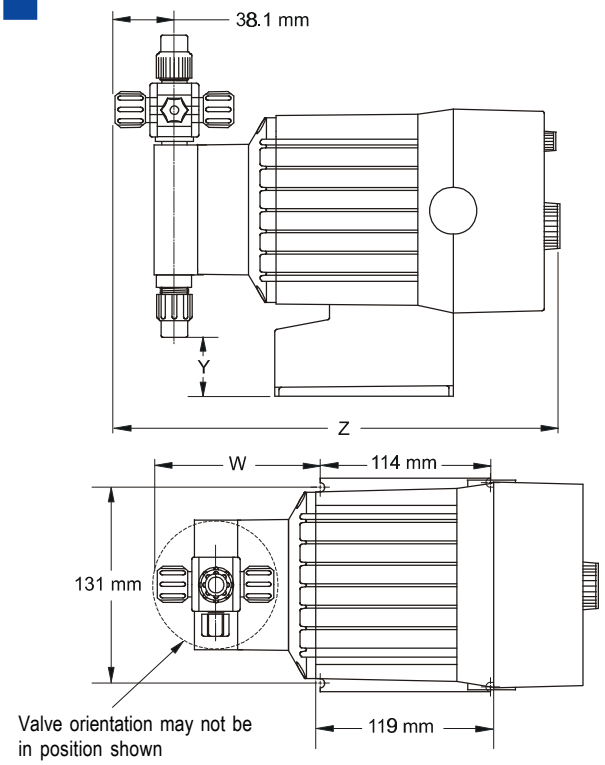
Model	OUTPUT (l/h) max.	PRESSURE (bar) max.	LIQUIFRAM size	STROKE CAPACITY (ml) min.	STROKE CAPACITY (ml) max.	FREQUENCY (str./mn) min.	FREQUENCY (str./mn) max.	LIQUID END MATERIAL PVC	PVDF/Polyp.	PVDF/PTFE	Acrylic	316SS. (1)	High Visc.(2)	TUBING CONNECTIONS Inch	Metric
B11*	6.0	10.3	0.9	0.10	1.00	1	100	398XY	392XY	393XY	390XY	297	85HV	.375"OD	6x8 mm
B12*	9.5	6.9	0.9	0.16	1.58	1	100	398XY	392XY	393XY	390XY	297	85HV	.375"OD	6x8 mm
B13*	17	3.4	1.8	0.28	2.83	1	100	368XY	362XY	363XY	360XY	277	75HV	.375"OD	6x8 mm
B14*	26	2.0	3.0	0.44	4.42	1	100	318XY	312XY	313XY	310XY	27	25HV	.500"OD	9x12 mm
C10*	4.9	20.7	0.9	0.08	0.81	1	100	94 (S)	—	—	—	297	—	1/4NPTm	—
C11*	9.5	10.3	1.8	0.16	1.58	1	100	368XY	362XY	363XY	360XY	277	75HV	.375"OD	6x8 mm
C12*	15	6.9	1.8	0.25	2.52	1	100	368XY	362XY	363XY	360XY	277	75HV	.375"OD	6x8 mm
C13*	30.4	4.1	3.0	0.51	5.05	1	100	318XY	312XY	313XY	310XY	27	25HV	.500"OD	9x12 mm
C14*	76	1.7	6.0	1.26	12.60	1	100	35T/M(3)	—	32/M	30/M	37	—	.500"OD	9x12 mm

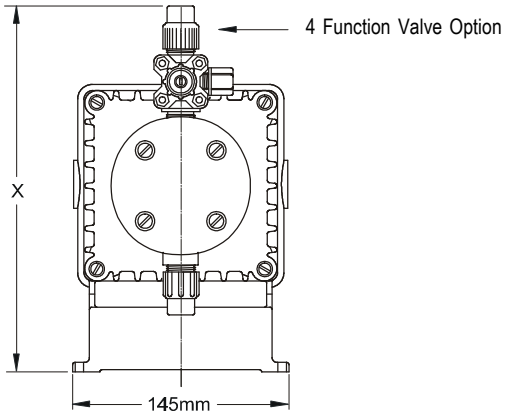
* When ordering, specify the voltage code by using one of the following numbers:
1 = 115 V
3 = 230 V Din Plug
5 = 230 V UK Plug
7 = 230 V CH Plug

(1) 1/4" NPTm connection - 1/2" NPTm for 27 and 37
(2) .500" OD / .938" OD or 9 x 12 / 15 x 23
(3) PP/PTFE

X	Y	
		Refer to Liquid end chart for complete option code
	I	Inch tubing
	M	Metric tubing
	P	1/4" NPTm
B		Bleed 4 Function valve included
N		No Function valve
S		4 Function valve included
T		3 Function valve included

Dimensions





	W	X	Y	Z
Pump without function valve	82.5	216	16.5	272
Pump with function valve	115.5	246	16.5	305
Pump with large head (C14x)	107	244	0	295
High viscosity pump	90	241	16.5	279
Packing: B = 325 x 235 x 290 mm			Gross Weight: B = 6.9 kg	
C = 380 x 235 x 290 mm			C = 8.7 kg	

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