

# Electronic dosing pump LMI series B1/C1



## B1 series

- Maximum output: 26 l/h
- Maximum pressure: 10.3 bar
- Adjustable frequency: 1 to 100 spm
- Adjustable stroke length: 0 to 100%, recommended minimum: 10%

## C1 series

- Maximum output: 76 l/h
- Maximum pressure: 20.7 bar
- Adjustable frequency: 1 to 100 spm
- Adjustable stroke length: 0 to 100%, recommended minimum: 10%

## Main technical specifications

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

## Simple rugged construction

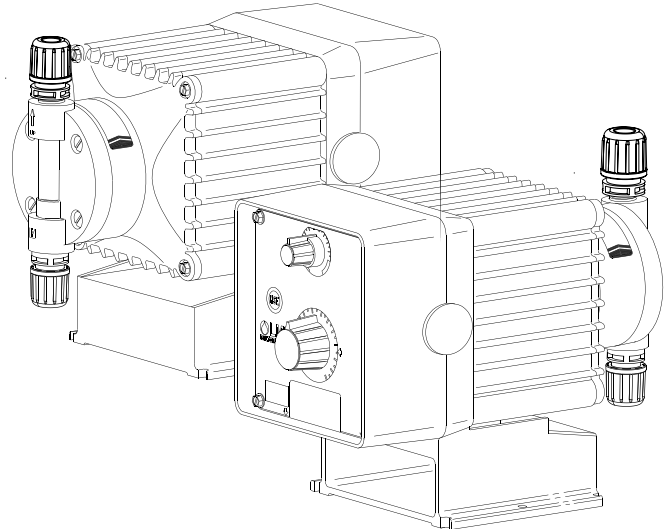
- Thick wall glass fiber or carbon fiber reinforced thermoplastic construction plus integrated metal-plastic structural and magnetic components result in vibration and shock resistance not ordinarily found in competitive products.
- Strong automotive type wire and electrical connectors add to its construction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

## 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.

## Wide variety of applications

- Pump head and valves in PVC, PVDF, Acrylic or 316L S.S. plus designs for high viscosity polymer.
- Ceramic balls and Aflas or PTFE seats.
- Composite pump diaphragms of the superior Fluorofilm® assure reliable and leak free operation in a wide variety of chemicals.



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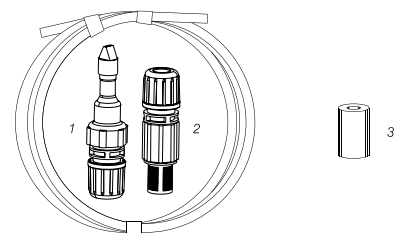
## Totally enclosed corrosion resistant IP65

- 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 weight.
- Most models are also available with factory tubing.

### ACCESSORIES



All pumps come complete with these accessories.

## Specifications

| Model | Output<br>(l/h)<br>max. | Pressure<br>(bar)<br>max. | Liquifram<br>size<br>(inch <sup>2</sup> ) | Stroke capacity (ml) |       | Frequency (spm) |      | Liquid end body / Seats material |                |               |                     |                              |                              | Tubing connections |         |
|-------|-------------------------|---------------------------|---|----------------------|-------|-----------------|------|----------------------------------|----------------|---------------|---------------------|------------------------------|------------------------------|--------------------|---------|
|       |                         |                           |   | min.                 | max.  | min.            | max. | PVC/Aflas                        | PVDF/<br>Aflas | PVDF/<br>PTFE | Acrylic/<br>Aflas   | 316L/<br>PTFE <sup>(1)</sup> | High<br>visc. <sup>(2)</sup> | 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  | 94S <sup>(3)</sup>               | -              | -             | -                   | 297                          | -                            | 1/4"NPTm           | -       |
| 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 <sup>(4)</sup>             | -              | 32/M          | 30/M <sup>(3)</sup> | 37                           | -                            | .500"OD            | 9x12 mm |

\* When ordering, specify the voltage code by using one of the following numbers:

- 1 = 115 V, US plug
- 3 = 230 V, EEC plug
- 5 = 230 V, UK plug
- 7 = 230 V, CH plug
- 8 = 115 V, without plug

<sup>(1)</sup> 1/4" NPTm connection for 277 and 297 · 1/2" NPTm for 27 and 37

<sup>(2)</sup> .500" OD / 15x23

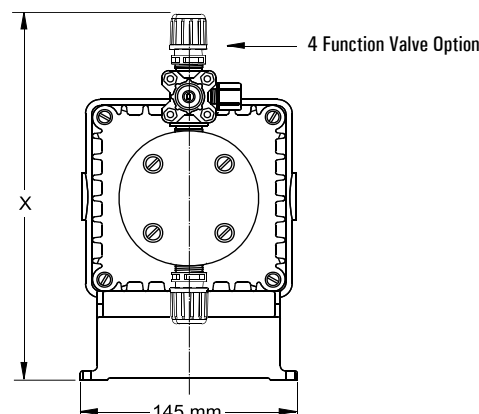
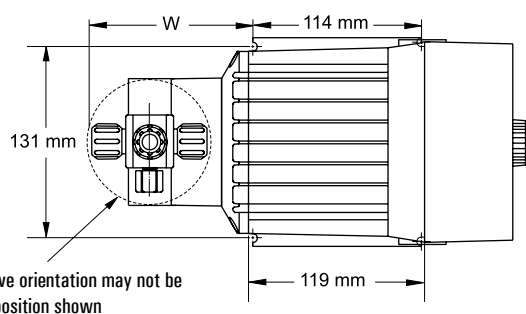
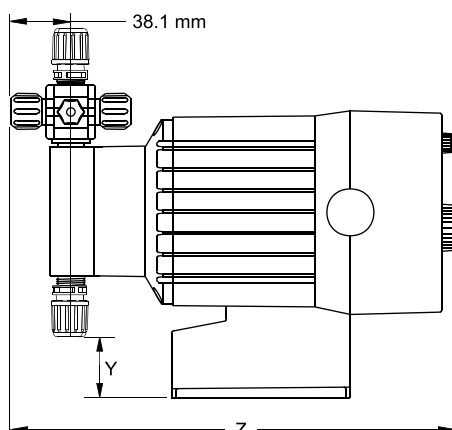
<sup>(3)</sup> Seats in PTFE

<sup>(4)</sup> PP/PTFE

X Y Refer to liquid end chart for complete option code

|   |                                 |
|---|---------------------------------|
| 0 | Pipe thread 1/2" BSP            |
| 2 | Inch tubing                     |
| 3 | Metric tubing                   |
| 4 | Reinforced PVC tubing 6x12      |
| B | Bleed 4 function valve included |
| N | No function valve               |
| S | 4 function valve included       |
| T | 3 function valve included       |

## Dimensions



| Dimensions   | W                                       | X   | Y    | Z   |
|--|---|-----|------|-----|
| Pump without function valve                                | 82.5                                    | 216 | 16.5 | 272 |
| Pump with function valve                                   | 115.5                                   | 259 | 16.5 | 305 |
| Pump with large head (C14)                                 | 107                                     | 244 | 0    | 295 |
| High viscosity pump  | 90                                      | 241 | 16.5 | 279 |
| Packings: B = 325 x 235 x 290 mm<br>C = 380 x 235 x 290 mm | Gross Weights: B = 6.9 kg<br>C = 8.7 kg |     |      |     |



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