

Electronic dosing pump LMI series AA7



AA7 series

- Maximum output: 7.6 l/h
- Maximum pressure: 17.3 bar

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
- Adjustable stroke frequency: 1 to 100 spm
- Adjustable stroke length: 0 to 100%
Recommended minimum:
30% for AA77x - AA78x
20% for AA74x - AA75x - AA76x
- External proportional control: voltage free contact closure or open collector from water meter or pulse generator
- Optional level switch
- Optional 4-20 mA control
- Optional pulse multiplier or divider

Simple rugged construction

- Ideal for indoor, outdoor and OEM 'in machine' applications where simplicity means increased reliability.
- 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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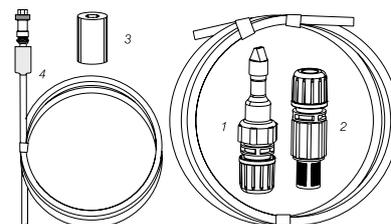
Totally enclosed corrosion resistant IP65

- O-Ring sealed corrosion resistant enclosure of glass fiber reinforced polypropylene protects the pump from harsh chemicals and tough environments.
- A clear cover protects control panel from chemical splashes.

Complete with accessories

- LMI AA7 dosing pumps come complete with:
 1. injection check valve,
 2. foot valve,
 3. ceramic weight,
 4. external control cable.
- Most models are also available with factory tubing.

ACCESSORIES



All pumps come complete with these accessories.

Specifications

| Model | Output (l/h) max. | Pressure (bar) max. | Liquifram size (inch ²) | Stroke capacity (ml) | | Frequency (spm) | | Liquid end body / Seats material | | | | | | Tubing connections | |
|-------|-------------------|---------------------|-------------------------------------|----------------------|------|-----------------|------|----------------------------------|------------|-----------|---------------|--------------------------|---------------------------|--------------------|--------|
| | | | | min. | max. | min. | max. | PVC/Aflas | PVDF/Aflas | PVDF/PTFE | Acrylic/Aflas | 316L/PTFE ⁽¹⁾ | High visc. ⁽²⁾ | Inch | Metric |
| AA77* | 1.6 | 9.7 | 0.5 | 0.08 | 0.26 | 5 | 100 | 358XY | 352XY | 353XY | 350XY | 257 | 155HV | .250"OD | 3x6 mm |
| AA74* | 2.2 | 17.3 | 0.5 | 0.07 | 0.37 | 5 | 100 | 358XY | 352XY | 353XY | 350XY | 257 | 155HV | .250"OD | 3x6 mm |
| AA78* | 2.8 | 5.5 | 0.9 | 0.14 | 0.47 | 5 | 100 | 398XY | 392XY | 393XY | 390XY | 297 | 85HV | .375"OD | 6x8 mm |
| AA75* | 3.8 | 7.6 | 0.9 | 0.13 | 0.63 | 5 | 100 | 398XY | 392XY | 393XY | 390XY | 297 | 85HV | .375"OD | 6x8 mm |
| AA76* | 7.6 | 3.5 | 1.8 | 0.25 | 1.26 | 5 | 100 | 368XY | 362XY | 363XY | 360XY | 277 | 75HV | .375"OD | 6x8 mm |

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

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

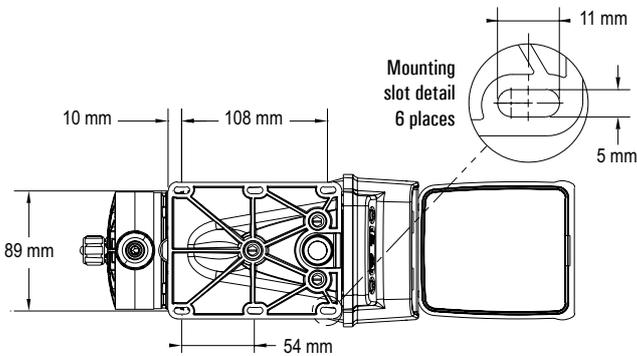
⁽¹⁾ 1/4" NPTm connection

⁽²⁾ .500" OD / 15x23

X Y Refer to liquid end chart for complete option code

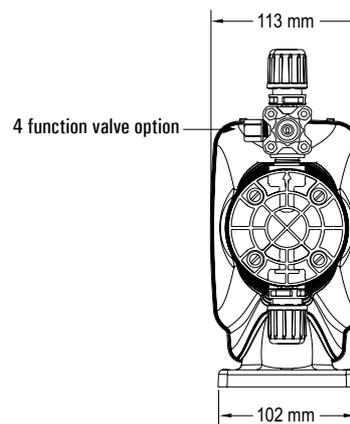
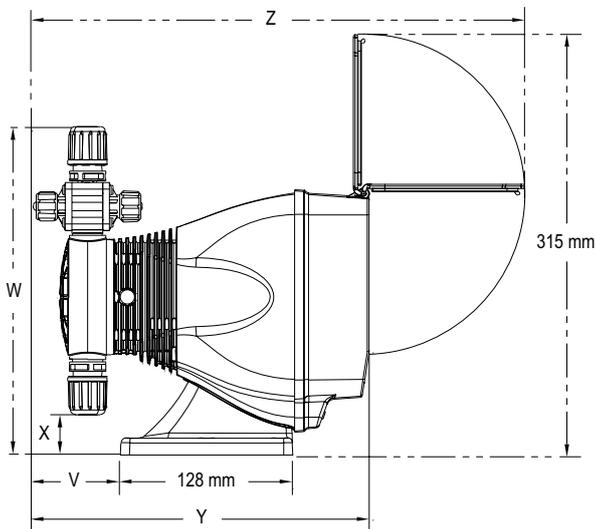
| | | |
|---|---|---------------------------------|
| ↓ | 0 | Pipe thread 1/2" BSP |
| | 2 | Inch tubing |
| | 3 | Metric tubing |
| | 4 | Reinforced PVC tubing 6x12 |
| ↓ | B | Bleed 4 function valve included |
| | N | No function valve |
| | S | 4 function valve included |
| | T | 3 function valve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

Dimensions



| Dimensions * | V | W | X | Y | Z |
|--------------------------------|----------------------|-----|----|-----|-----|
| Pump without function valve | 52 | 213 | 18 | 239 | 352 |
| Pump with function valve | 72 | 250 | 18 | 259 | 372 |
| Pump with stainless steel head | 30 | 191 | 41 | 227 | 340 |
| High viscosity pump | 46 | 220 | 35 | 243 | 356 |
| Packing: 325 x 235 x 290 mm | Gross weight: 4.5 kg | | | | |

* Dimensions shown are maximum for largest liquid end available.
 These dimensions vary depending on the liquid end selected.



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