

# SERIES D

## Dosing Pump

## DATA SHEET

**Maximum Flow rate: 90 l/h • Maximum Pressure: 18 kg/cm<sup>2</sup>g • Electro Magnetically Actuated Diaphragm**

### Technical characteristics

#### Standard:

- Flow rate up to: 90 l/h
- Pressure up to: 18 kg/cm<sup>2</sup>g
- Manual/automatic speed control adjustable while running or stopped.
- Electronically operated Mechanically actuated diaphragm
- Manual stroke length adjustable while running
- Electro Magnetic Drive: Less moving parts.
- Composite PTFE faced Hypalon Diaphragm for longer life
- Adjustment of flow rate while running or stopped: from 0 to 100%
- Accuracy:  $\pm 2\%$  of rated flow from 10% to 100% stroke
- Suction lift: up to 1.5 m water max.
- Viscosity handled: up to 50 cps



Series D Dosing Pump

### Characteristics of drive

#### Standard Drive Data

- Electromagnetic Power Unit (EPU) 230V, 50Hz / 60Hz, Single Phase A.C
- Power Consumption Approx. 100 Watts.
- “9” series are automated pumps (i.e. 4.20mA)
- 9E (Enhanced) Pumps have digital display, internal or external mode select, mA input, pulse control, low-level shutoff with Alarm output and over voltage protection

### Accessories

To meet your installation needs a large range of accessories are available on request (Pulsation dampeners, safety and backpressure valves), consult us.

### Liquid end construction

| Components       | Materials               |                         |                         |                         |
|------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Liquid end body  | PP                      | PVC                     | PVDF                    | SS-316                  |
| Valve body       | PVC                     | PVC                     | PVDF                    | SS-316                  |
| Ring Seal        | TEFLON                  | TEFLON                  | TEFLON                  | TEFLON                  |
| Balls            | CERAMIC                 | CERAMIC                 | CERAMIC                 | CERAMIC                 |
| Connections      | PVC                     | PVC                     | PVDF                    | SS-316                  |
| Diaphragm        | TEFLON FACED<br>HYPALON | TEFLON FACED<br>HYPALON | TEFLON FACED<br>HYPALON | TEFLON FACED<br>HYPALON |
| Foot Valve       | PVC                     | PVC                     | N/A*                    | SS-316                  |
| Antisiphon valve | PVC                     | PVC                     | PVDF                    | SS-316                  |
| Tubing           | LDPE                    | LDPE                    | LDPE                    | LDPE                    |

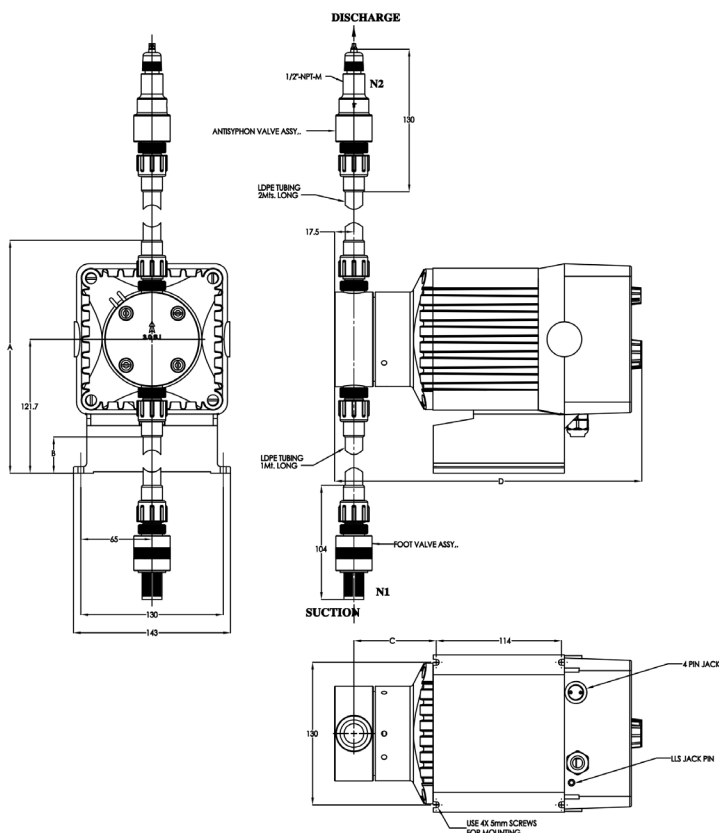
\*Alloy 20 available based on customer request

\*Online Strainer shall be offered for PVDF

## Performance

| Pump model               | Flow max. (l/h) |              | Pressure max. (KG/CM <sup>2</sup> ) | Size of Tubing<br>(Suction & Discharge)<br>[OD x ID] |
|--------------------------|-----------------|--------------|-------------------------------------|------------------------------------------------------|
|                          | Min<br>(l/h)    | Max<br>(l/h) |                                     |                                                      |
| D-10, D-70, D-90, D-90-E | 0.05            | 5            | 18                                  | 3/8" x 1/4"                                          |
| D-11,D-71,D-91, D-91-E   | 0.1             | 12           | 9                                   | 1/2" x 3/8"                                          |
| D-12,D-72,D-92, D-92-E   | 0.15            | 17           | 7                                   | 1/2" x 3/8"                                          |
| D-13,D-73,D-93, D-93-E   | 0.25            | 35           | 4                                   | 1/2" x 3/8"                                          |
| D-14, D-74, D-94, D-94-E | 0.6             | 90           | 1.5                                 | 1/2" x 3/8"                                          |

## Dimensions & Connections



### Dimensions (mm)

| Pump model               | A   | B   | C   | D   |
|--------------------------|-----|-----|-----|-----|
| D-10, D-70, D-90, D-90-E | 278 | 210 | 88  | 118 |
| D-11,D-71,D-91, D-91-E   |     |     |     |     |
| D-12,D-72,D-92, D-92-E   |     |     |     |     |
| D-13,D-73,D-93, D-93-E   |     |     |     |     |
| D-14, D-74, D-94, D-94-E | 295 | 235 | 105 | 118 |

### WEIGHT

| Pump Model               | Metallic | Plastic |
|--------------------------|----------|---------|
| D-10, D-70, D-90, D-90-E | 9        | 8.5     |
| D-11, D-71, D-91, D-91-E |          |         |
| D-12, D-72, D-92, D-92-E |          |         |
| D-13, D-73, D-93, D-93-E |          |         |
| D-14, D-74, D-94, D-94-E | 10.5     | 9       |

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