

PRIMEROY® L dosing pump

Hydraulically actuated diaphragm liquid end • Flow rate up to 3300 l/h • Pressure up to 45 bar



Main mechanical characteristics

- Reciprocating dosing pump with variable stroke length
- Stroke micrometric adjustment while running or stopped
- Multiplexing capability up to 2x3 heads
- Maximum stroke length: 50 mm
- Stroke speeds at 50 Hz - 1000 rpm: 64 and 80 spm
Stroke speeds at 50 Hz - 1500 rpm: 96, 120 and 149 spm
- Design end load: 900 daN

Main liquid end configurations

- Diaphragm liquid end ("H") or ("P"):
 - Liquid end body: 316L stainless steel ("H") or plastic ("P")
 - Diaphragm: PTFE
 - Hydraulically actuated diaphragm
 - "GSD" design (patented), life currently exceeding 20,000 hours
 - Compact footprint for high flow rates



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Main electrical characteristics

- Motor power supply: 400 V - 50 Hz - 3 phase as standard.
Other voltages/frequencies on request
- Electric equipment for non hazardous or hazardous area, large variety of protections and insulations
- Conforming to the European standards, Nema motors available

Performance

- Conformity to API 675
- In accordance with ATEX CE EX II 2 G/D c T3 or T4 on request

GSD diaphragm and metallic liquid end ("H")

| Ø Plunger (mm) | Swept volume (cm ³) | Ø Diaphragm (mm) | Stroke speed max. (spm) Motor speed 1500 rpm | Flow rate max. (l/h) | | Pressure max. (bar) | Connections |
|----------------|---------------------------------|------------------|---|----------------------|---------|---------------------|-------------|
| | | | | 10 bar | P. max. | | |
| 40 | 62.83 | 145 | 149 | 506 | 452 | 45 | 1" - VV1 m |
| 50 | 98.17 | 145 | 149 | 807 | 722 | 45 | 1" - VV1 m |
| 63 | 155.86 | 225 | 149 | 1254 | 1205 | 23 | 2" - VV1 m |
| 70 | 192.42 | 225 | 149 | 1582 | 1520 | 23 | 2" - VV1 m |
| 80 | 251.32 | 225 | 149 | 2067 | 2023 | 17 | 2" - VV1 m |
| 90 | 318.08 | 225 | 149 | 2616 | 2589 | 14 | 2" - VV1 m |
| 100 | 392.69 | 225 | 149 | - | 3300 | 11 | 2" - VV1 m |

Options

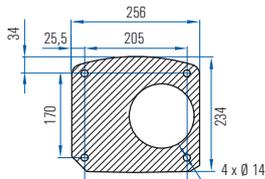
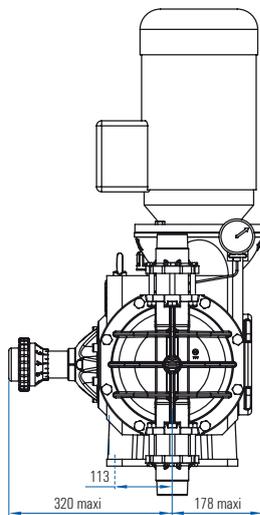
- Double or triple diaphragm
- Diaphragm failure detection
- Cooling/heating jacket
- Special materials
- Food grade design
- Slurry configuration
- Special valves
- Remote valves
- Automatic flow rate adjustment: electronic servomotor (waterproof or explosion-proof), pneumatic servomotor
- Rev counter
- Stroke counter
- Sand-proof
- Special designs available

GSD diaphragm and plastic liquid end ("P")

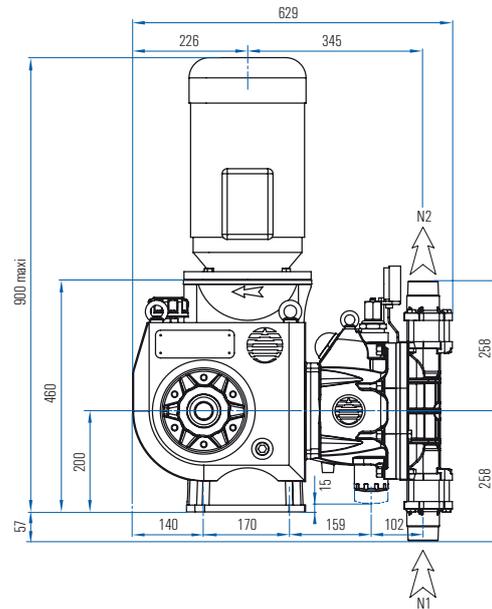
| Ø Plunger (mm) | Swept volume (cm ³) | Ø Membrane (mm) | Stroke speed max. (spm) Motor speed 1500 rpm | Flow rate max. (l/h) | Pressure max. (bar) | Connections |
|----------------|---------------------------------|-----------------|---|----------------------|---------------------|----------------|
| 50 | 98.17 | 145 | 149 | 807 | 10 | 1" - WV1 f |
| 63 | 155.86 | 225 | 149 | 1254 | 10 | 1" 1/2 - WV1 f |
| 70 | 192.42 | 225 | 149 | 1582 | 10 | 1" 1/2 - WV1 f |
| 80 | 251.32 | 225 | 149 | 2067 | 10 | 1" 1/2 - WV1 f |
| 90 | 318.08 | 225 | 120 | 2107 | 10 | 1" 1/2 - WV1 f |
| 100 | 392.69 | 225 | 120 | 2657 | 10 | 1" 1/2 - WV1 f |

General dimensions (in mm)

GSD diaphragm liquid end simplex configuration



N1: Suction
N2: Discharge



The general dimensions are given as an indication only.
 The dimensions given correspond to the maximum dimensions (largest liquid end, most powerful motor).

Weight and packing

| Version | Net weight (*) kg | Gross weight (*) kg | Packing (mm) (L x W x H) |
|---------------------|-------------------|---------------------|--------------------------|
| PRIMEROY® L simplex | 220 | 310 | 1100 x 680 x 1350 |

(*) Approximately



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