

Dosing pump series G™ B

Flow rate up to 1200 l/h • Pressure up to 10 bar • Mechanically actuated diaphragm
• Variable eccentric drive mechanism



Main technical characteristics

- Flow rate up to 1200 l/h
- Pressure up to 10 bar
- High-efficiency, rolling PTFE diaphragm, Profil+®
- Mechanically actuated diaphragm
- Stroke adjustment by variable eccentric minimising pulsation and shock
- Simplex version
- Maximum temperature of pumped liquid: 50 °C ⁽¹⁾
- Adjustment of flow rate while running or stopped: from 0 to 100%
- Accuracy: ± 2% of rated flow from 10% to 100% stroke
- Suction lift: up to 4 m water ⁽²⁾
- Maximum suction pressure: 2 bar ⁽¹⁾
- Cast aluminium housing with polyurethane RAL 1018 - 65 µ paint
- Lubrication by oil bath
- Option: double diaphragm

(1) Above, please consult

(2) 3 m water above 590 l/h



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Electrical characteristics of motors

General characteristics:

- Power supply: 230/400 V - 50 Hz - three-phase
- Degree of protection: IP55, tropicalized for 90% humidity
- Insulation: class F
- Motor mounting:
 - G51 and G52: F130 flange, shaft end 14x30, frame 71
 - G53 to G78: F165 flange, shaft end 19x40, frame 71
- In compliance with European and international standards

Options:

- G51 and G52: motor mounting F165 flange, shaft end 19x40
- Special motors: consult us

Construction of liquid ends

| Versions / Liquid end components | Polypropylene (PP) | PVDF | S. Steel (316L) |
|-------------------------------------|------------------------|---------------------------|--------------------------|
| Liquid end body | PP | PVDF | 316L |
| Valve body | PVDF ⁽⁴⁾ | PVDF | 316L |
| Seats | PE | PVDF | 316L |
| Balls | Glass ⁽¹⁾ | Ceramic ⁽³⁾ | 316L |
| Connections | PVC | PVDF | 316L |
| Diaphragm | PTFE/PP ⁽²⁾ | PPTFE/PVDF ⁽²⁾ | PTFE/316L ⁽²⁾ |
| Seals | Viton | Viton / FEP | Viton ⁽³⁾ |

⁽¹⁾ PVC for versions > 430 l/h

⁽²⁾ Diaphragm insert on pumped fluid side

⁽³⁾ PTFE for versions > 430 l/h

⁽⁴⁾ PP for versions > 430 l/h

Accessories

To meet your installation needs (long lengths of discharge, discharge pressure < 1.5 bar...) a large range of accessories is available on request (pulsation dampeners, safety and back pressure valves), consult us.

Other liquid end construction:

- **Polyelectrolyte** version: PP liquid end with seats and balls in 316L S.S. and Hastelloy C springs.
- **Slurries** version: Up to 430 l/h - 316L S.S. liquid end with 440C balls, 316L S.S. seats and Viton seals / Above 430 l/h - 316L S.S. liquid end with 440C balls, 420 seats and PTFE seals.
- **Mixed PP/316L S.S.** version: Up to 430 l/h - PP liquid end with balls and seats in 316L S.S. and PVDF ball guide / Above 430 l/h - PP liquid end with balls and seats in 316L S.S.
- **Concentrated H₂SO₄** version: Up to 430 l/h - 316L liquid end with 904L S.S. seats, balls in Hastelloy C and Viton seals / Above 430 l/h - 316L liquid end with balls and seats in 904L S.S. and PTFE seals.

Performances

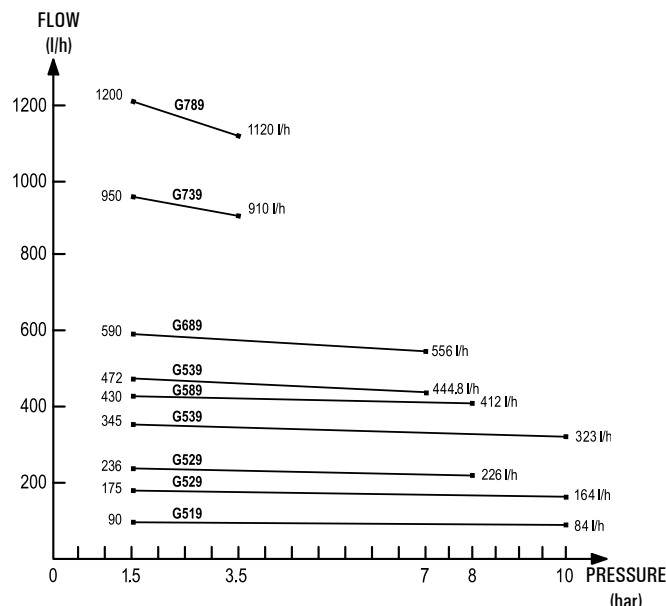
| Type | Flow max. (l/h) ⁽¹⁾⁽²⁾ | Pressure max. (bar) | Stroke length (mm) | Stroke speed (spm) ⁽²⁾ | Motor speed (rpm) ⁽²⁾ | Motor power (W) ⁽³⁾ - 3 ph |
|------|--------------------------------------|------------------------|-----------------------|--------------------------------------|-------------------------------------|------------------------------------------|
| G51 | 90 | 10 | 12 | 36 | 1500 | 0.37 |
| G52 | 175 | 10 | 12 | 72 | 1500 | 0.37 |
| G52 | 236 | 8 | 12 | 72 | 1500 | 0.37 |
| G53 | 345 | 10 | 12 | 144 | 1500 | 0.55 |
| G58 | 430 | 8 | 12 | 180 ⁽⁴⁾ | 1500 | 0.55 |
| G53 | 472 | 7 | 12 | 144 | 1500 | 0.55 |
| G68 | 590 | 7 | 12 | 180 ⁽⁴⁾ | 1500 | 0.55 |
| G73 | 950 | 3.5 | 12 | 144 | 1500 | 0.55 |
| G78 | 1200 | 3.5 | 12 | 180 ⁽⁴⁾ | 1500 | 0.55 |

⁽¹⁾ Maximum flow at 1.5 bar

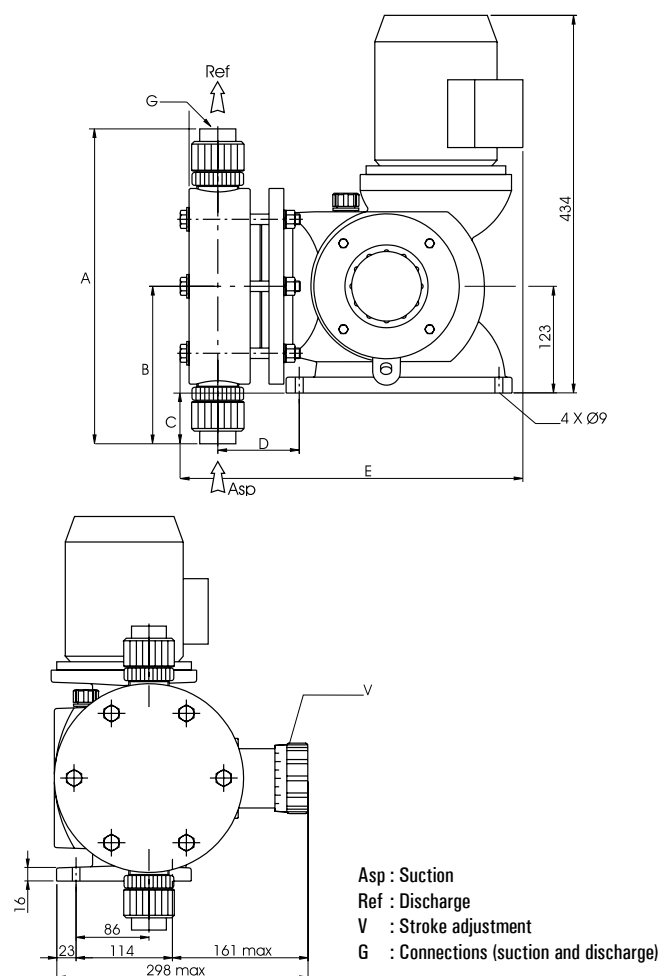
⁽²⁾ Values with motor at 50 Hz (multiply by 1.2 for 60 Hz)

⁽³⁾ Power supply at 50 Hz or 60 Hz with three-phase motor

⁽⁴⁾ Do not use with 60 Hz motor



Dimensions and connections



Dimensions (mm)

| Type | | PP | PVDF | 316L S.S. |
|--------------------------|----------|------|---------|-----------|
| G51 G52 G53 G58 | A | 254 | 262 | 262 |
| | B | 127 | 131 | 131 |
| | C | 4 | 8 | 8 |
| | D | 65 | 65 | 65 |
| | E | 357 | 356 | 357 |
| G52 G68 | G (tube) | DN15 | F1/2" G | F1/2" G |
| | A | 286 | 296 | 334 |
| | B | 143 | 148 | 167 |
| | C | 20 | 25 | 44 |
| | D | 76 | 76 | 81 |
| G73 G78 | E | 372 | 372 | 372 |
| | G (tube) | DN25 | F1" G | M1" G |
| | A | 362 | 372 | 414 |
| | B | 181 | 186 | 207 |
| | C | 58 | 63 | 84 |
| G73 G78 | D | 93 | 93 | 98 |
| | E | 392 | 391 | 392 |
| | G (tube) | DN25 | F1" G | F1" G |

Weight and packing

| | Net weight ⁽¹⁾ (kg) | Gross weight ⁽¹⁾ (kg) | Packing ⁽²⁾ (L x W x H - mm) |
|-------------------------------|-----------------------------------|-------------------------------------|--------------------------------------------|
| Minimum (plastic liquid end) | 32 | 40 | 515 x 465 x 720 |
| Maximum (S. Steel liquid end) | 60 | 68 | 790 x 390 x 740 |

⁽¹⁾ Approximately - ⁽²⁾ Standard cardboard packing

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