

Milroyal G PD 3611 Issued 8/6/04

MILROYAL G METERING PUMPS

Hydraulically Actuated Diaphragm Liquid End

The robust Milroyal G[™] metering pump doses all traditional liquids used in water treatment and industrial processes including: acids, bases, coagulants, chlorinated products, and many others. Designed for ease of maintenance and start-up, the Milroyal G features Milton Roy's advanced hydraulically actuated High Performance Diaphragm (HPD) liquid end coupled to a durable variable eccentric drive. The absence of contour plates in this liquid end results in "straight-thru" flow ideal for handling polymers and slurries. A unique tri-mode hydraulic system valve allows for purging of any entrapped gases in the hydraulic oil without disturbing the relief valve setting. Also integral to the liquid end is a view port for visual indication of a relief condition in the hydraulic system. The smooth sinusoidal flow produced by the variable eccentric drive minimizes flow pulsations and mechanical shock to system components.

Product Features

- HPD liquid end design eliminates contour plates.
- Double diaphragm w/leak detection option available.
- Liquid End Materials: PVC, PVDF, 316SS, Alloy 20.
- High viscosity and slurry liquid end options.
- NEMA and IEC motor options.
- Integral tri-mode valve in hydraulic oil system: automatic air bleed, safety/relief valve, air purge button.
- View port provides visual indication of tri-mode valve operation.
- Non-lost motion drive design minimizes flow pulsations and mechanical shock.
- Optional AC & DC variable speed drives available for automatic control from a 4 -20 mA signal.
- Optional Electronic capacity control (stroke length control) from a 4-20 mA signal.

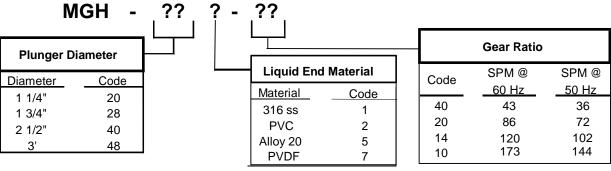
| Plunger Diameter | Gear Code | SPM @ | | GPH @ | | Max PSI | | LPH @ | | Max BAR | |
|---------------------|--------------|-------|-------|-------|-------|---------|---------|-------|-------|---------|---------|
| | | 60 Hz | 50 Hz | 60 Hz | 50 Hz | Metal | Plastic | 60 Hz | 50 Hz | Metal | Plastic |
| 1 ¼" | 40 | 43 | 36 | 5 | 4 | 600 | 150 | 19 | 16 | 41 | 10 |
| | 20 | 86 | 72 | 10 | 8 | | | 38 | 32 | | |
| | 14 | 120 | 102 | 14 | 12 | | | 53 | 44 | | |
| | 10 | 173 | 144 | 20 | 17 | | | 76 | 63 | | |
| 1 ¾" | 40 | 43 | 36 | 11 | 9 | 300 | | 42 | 35 | 21 | |
| | 20 | 86 | 72 | 22 | 18 | | | 83 | 69 | | |
| | 14 | 120 | 102 | 32 | 27 | | | 121 | 101 | | |
| | 10 | 173 | 144 | 45 | 38 | | | 170 | 142 | | |
| 2 ½" | 40 | 43 | 36 | 22 | 18 | 150 | | 83 | 69 | 10 | |
| | 20 | 86 | 72 | 45 | 38 | | | 170 | 142 | | |
| | 14 | 120 | 102 | 64 | 53 | | | 242 | 202 | | |
| | 10 | 173 | 144 | 90 | 75 | | | 341 | 284 | | |
| 3" | 40 | 43 | 36 | 32 | 27 | 100 | 100 | 121 | 101 | 7 | 7 |
| | 20 | 86 | 72 | 65 | 54 | | | 246 | 205 | | |
| | 14 | 120 | 102 | 92 | 77 | | | 348 | 290 | | |
| | 10 | 173 | 144 | 130 | 108 | | | 492 | 410 | | |



Milroyal G Metering Pump

Product Selection Code

Actual product code will include additional information describing options selected

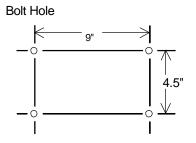


Materials of Construction

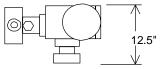
| Liquid End Primary Mat'l | Diaphragm Head | Check Valves | Ball Checks | Ball Seats | Diaphragm | Wetted Seals |
|-----------------------------|-------------------|-----------------|----------------|---------------|---------------|-----------------|
| PVC | PVC | PVC | Ceramic | PVC | | |
| 316SS | 316SS | 316SS | 316SS | 316SS | PTFE/Nitrile* | Viton |
| Alloy 20 | Alloy 20 | Alloy 20 | Alloy 20 | Alloy 20 | | |
| PVDF | PVDF | PVDF | Ceramic | PVDF | | |

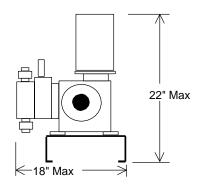
* Diaphragm is PTFE/Nitrile Composite. Only PTFE is in contact with the process fluid.

Dimensions



Envelope Dimensions





Available Options Include:

- Electronic Stroke Length Adjustment (4-20 mA input signal)
- Double Diaphragm
- Various Motors and Variable Speed Drives
- Slurry Check Valves
- Process Fluid Air Purge

Flanged Connections
Diaphragm Rupture Detection System
NPT or BSP Piping Connections
High Viscosity Check Valves
Modifications per Customer Requirements

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