

SMALL CAPACITY PUMPS

MC-1, GC-1 Series Pumps | Flow Rates of 10-13 GPM (38 – 49 LPM)

- Most diverse pump used for higher differential pressures (Autogas) or intermittent/continuous duty cylinder filling
- Cambered and hardened gear set stays in liquid phase when vapor conditions exist
- 1 phase, 1-1/2 HP motor allows for user to reduce electricity costs
- Identical mounting dimensions as the E & D series pump for ease of changeability
- Can be mounted upside down or vertical to accommodate piping
- No greasing or lubrication required
- Contains an internal, permanently set relief valve set to 150 psid.
- The mechanical seal is exposed to inlet pressure only, extending shaft seal life



GC-1LZ PUMP

| Pumps Only | | Average Delivery Rate (See page 12 for pump performance curves) | | Maximum Differential Pressure | Inlet/Outlet Size | Motor* |
|-------------------------------|------------------------------|--------------------------------------------------------------------|-------------------|-------------------------------|-------------------|-----------------------|
| Model | Motor Speed (RPM) | 40 PSID (3 bar) | 75 PSID (5 bar) | PSI (BAR) | FNPT (DN) | HP (kW) |
| GC-1LZ MAX 3600 RPM | 3600 (60 Hz) 3000 (50 Hz) | 11 GPM (33 LPM) | 9 GPM (27 LPM) | 150 PSI (10 BAR) | ¾" (DN 20) | 1-1/2 HP (0.75 Kw) |
| MC-1Z MAX 3600 RPM | 3600 (60 Hz) 3000 (50 Hz) | 8.5 GPM (25 LPM) | 7 GPM (21 LPM) | 125 PSI (8 BAR) | ¾" (DN 20) | 1-1/2 HP (0.75 kW) |

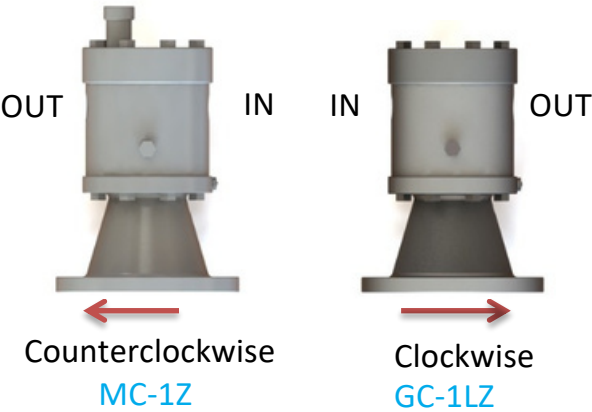
*Explosion Proof motors are UL listed and available in 1 or 3 phase electricity for 60 Hz (3600 RPM) or 50 Hz (3000 RPM) locations, 1 phase: 115/230V (suitable for 208V), 3 phase: 208/230/460 V. Motors are 56C-frame with feet allowing the motor to be directly mounted to the pump with thermal overload protection. Foot-mount options are also available for motors with different frame sizes. ATEX/UKEX certified motors also available. See page 14 for more information. For external dimension drawings, please visit www.smithpumps.com.

The MC-1Z contains an internal, *adjustable* internal relief valve set at 100 psid with maximum setting of 110 psid.

External bypass valves and Y-type strainers are recommended. See pages 28-31 for more information.

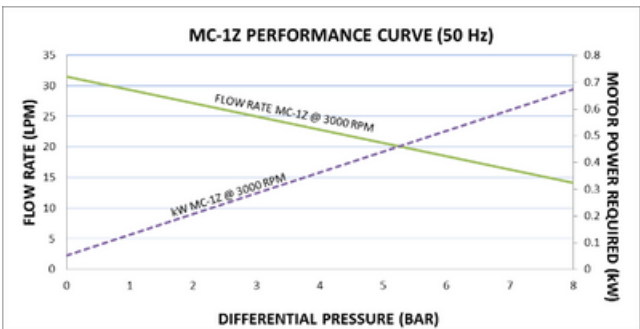
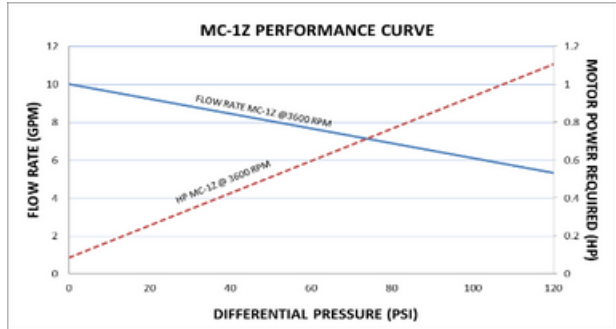
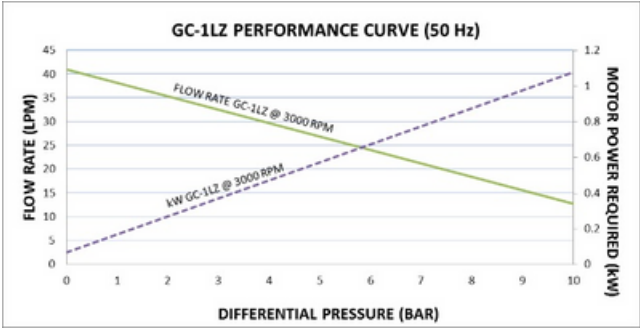
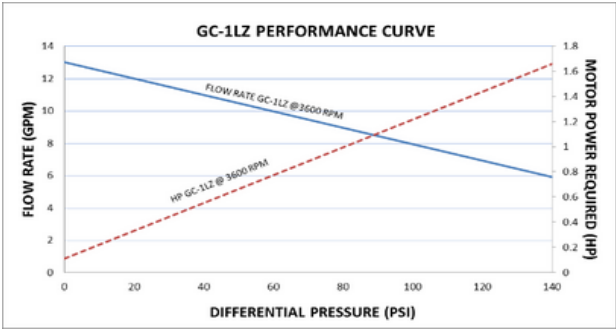


MC-1Z PUMP



| Model | Length of time to fill LP-gas cylinders | | Weight (Pump only) | Weight (Pump, coupling, motor) |
|--------------|-----------------------------------------|------------------|--------------------|--------------------------------|
| | 20 lb. (9 kg.) | 100 lb. (45 kg.) | | |
| GC-1LZ, MC-1 | Less than 1 minute | 3-4 minutes | 20 lbs (9 kg) | 73 lbs (34 kg) |

* Weight varies depending on pump model and motor, contact factory for specific weight



Performance curves based on delivery rates of Propane at 75°F (24°C). Actual flow may be 10-15% greater than predicted. Delivery rates will be reduced by approximately 15% at temperatures approaching 32°F (0°C).

Note: MC-1 series pumps will not develop more than 110 psid due to the internal relief valve setting. For other liquid services or for more information on predicted pump output, please visit our pump performance calculator at smithpumps.com.