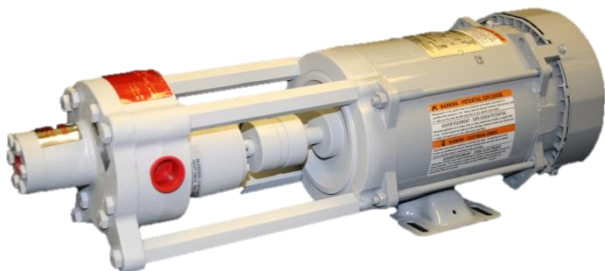


Small Capacity Pumps

D-Series Pumps

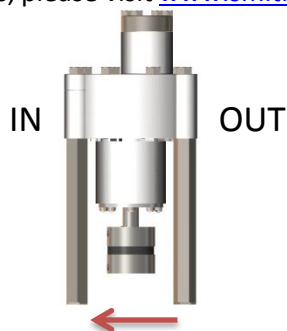
Flow Rates of 10-15 GPM (38 – 57 L/min)



- Most economical pump for intermittent duty, cylinder filling applications
- Comes with a built-in bypass valve preset to 90 psid to be used in place of an external bypass valve
- Built in strainer screen
- Shaft seal assembly/gears can be serviced in the field without disrupting the piping

Pumps Only		Average Delivery Rate (See page 10 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)
DW-1Z MAX 3600 RPM	3600 (60 Hz) 3000 (50 Hz)	8.5 GPM (27 LPM)	7 GPM (21 LPM)	125 PSI (8 BAR)	¾" (DN 20)	1 HP (0.55 kW)
DW-HZ MAX 3600 RPM	3600 (60 Hz) 3000 (50 Hz)	13.5 GPM (38 LPM)	12 GPM (31 LPM)	125 PSI (8 BAR)	1" (DN 2)	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: 115/208-230V, 3 phase: 208/230/460 V. All motors contain thermal overload protection and are 56C-frame with feet allowing the motor to be directly mounted to the pump. Foot-mount options are also available for motors with different frame sizes. ATEX certified motors also available. For external dimension drawings, please visit www.smithpumps.com.



Counterclockwise

Model	Length of time to fill LP-gas cylinders		Weight (Pump only)	Weight (Pump, coupling, motor)
	20 lb. (9kg)	100 lb. (45 kg)		
ALL D-series Models	Less than 1 minute	3-4 minutes	22 lbs (10 kg)	60-67 lbs (27-30 kg)

E-Series Pumps

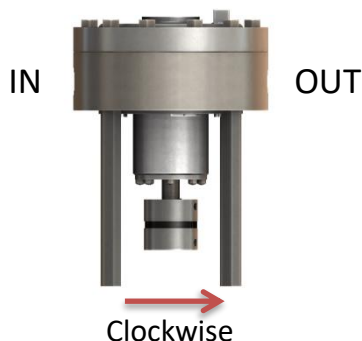
Flow Rates of 10-15 GPM (38 – 57 L/min)

- Most popular pump for intermittent duty, cylinder filling applications
- Comes with a built-in bypass valve preset to 90 psid (110 setting also available) that can be used internally or externally.
- Built in strainer screen
- Shaft seal assembly/gears can be serviced in the field without disrupting the piping
- Pump may be mounted right side up or upside down to accommodate piping



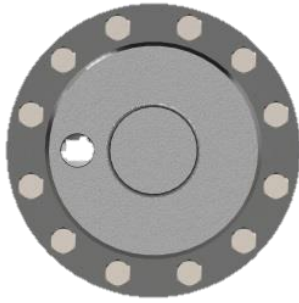
Pumps Only		Average Delivery Rate		Maximum Differential Pressure (UL rating)	Inlet/Outlet Size	Motor*
Model	Motor Speed (RPM)	40 PSID (3 bar)	75 PSID (5 bar)	PSI (BAR)	FNPT (DN)	HP (kW)
EG-1Z MAX 3600 RPM	3600 (60 Hz)	8.5 GPM	7 GPM	125 PSI	¾"	1 HP
	3000 (50 Hz)	(25 LPM)	(21 LPM)	(8 BAR)	(DN 20)	(0.55 kW)
EC-HZ MAX 3600 RPM	3600 (60 Hz)	13.5 GPM	12 GPM	125 PSI	1"	1-1/2 HP
	3000 (50 Hz)	(38 LPM)	(31 LPM)	(8 BAR)	(DN 25)	(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: 115/208-230V, 3 phase: 208/230/460 V. All motors contain thermal overload protection and are 56C-frame with feet allowing the motor to be directly mounted to the pump. Foot-mount options are also available for motors with different frame sizes. ATEX certified motors also available. For portable, gasoline engine units and external dimension drawings, please visit www.smithpumps.com



Model	Length of time to fill LP-gas cylinders		Weight (Pump only)	Weight (Pump, coupling, motor)
	20 lb. (9 kg.)	100 lb. (45 kg.)		
ALL E-series Models	Less than 1 minute	3-4 minutes	25 lbs (12 kg)	77-92 lbs (35-42 kg)

E-Pump Bypass Options



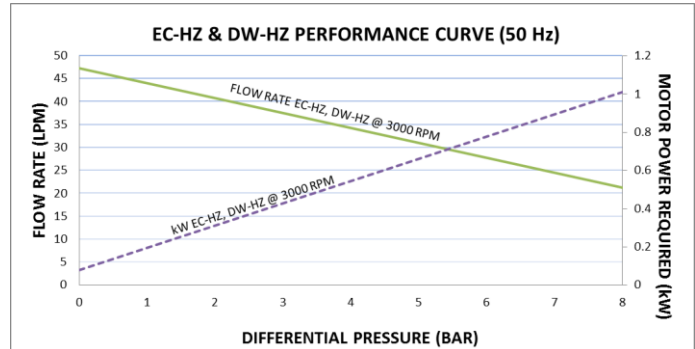
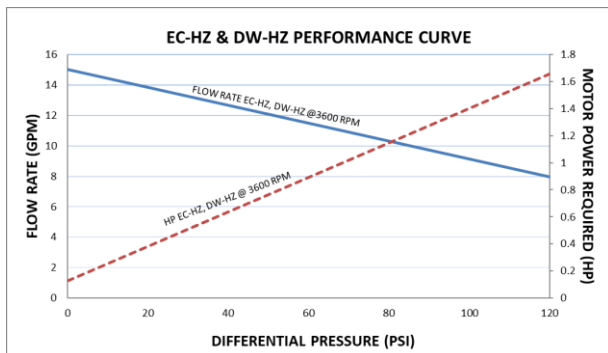
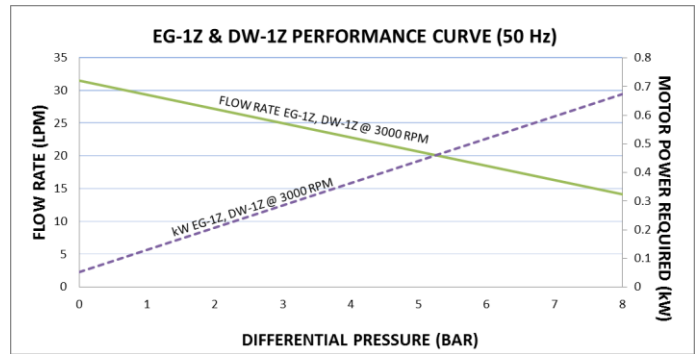
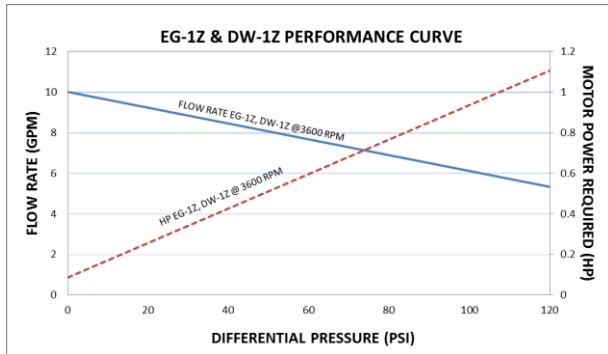
**9 O'clock position
(plug is left in place,
bypass valve is internal,
separate external bypass
must be used)**

Refer to our Training
Videos online at
www.smithpumps.com
for more information



**12 O'clock position
(plug is removed, bypass
valve is now external, no
separate external bypass
valve is needed)**

Pump Performance Curves



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: E and D series pumps will not develop more than 90psid due to the internal relief valve setting (110 psid setting also available). For other liquid services or for more information on predicted pump output, please visit our pump performance calculator at smithpumps.com

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



GC-1LZ PUMP

Pumps Only		Average Delivery Rate		Maximum Differential Pressure (UL Rating)	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)	11 GPM	9 GPM	125 PSI	¾"	1-1/2 HP
	3000 (50 Hz)	(33 LPM)	(27 LPM)	(8 BAR)	(DN 20)	(0.75 Kw)
MC-1Z MAX 3600 RPM	3600 (60 Hz)	8.5 GPM	7 GPM	125 PSI	¾"	1-1/2 HP
	3000 (50 Hz)	(25 LPM)	(21 LPM)	(8 BAR)	(DN 20)	(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: 115/208-230V, 3 phase: 208/230/460 V. All motors contain thermal overload protection and are 56C-frame with feet allowing the motor to be directly mounted to the pump. Foot-mount options are also available for motors with different frame sizes. ATEX certified motors also available. For portable, gasoline engine units and external dimension drawings, please visit www.smithpumps.com.

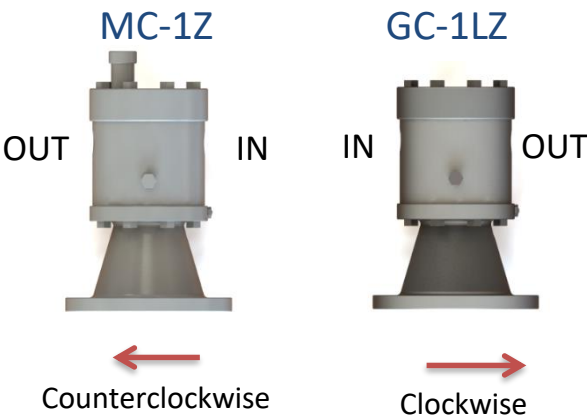
The GC-1LZ contains an internal, permanently set relief valve set to 150 psid. The GC-1LZ mechanical seal is exposed to inlet pressure only, extending shaft seal life.

The MC-1 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.

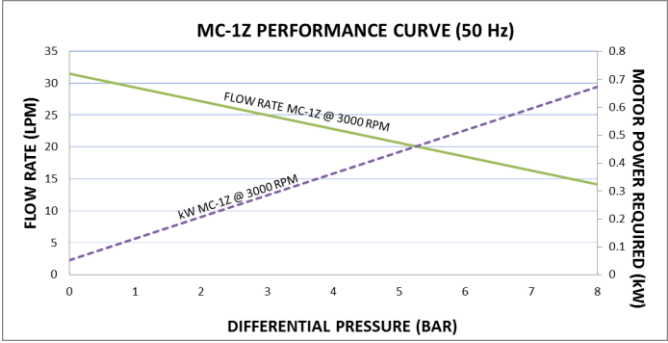
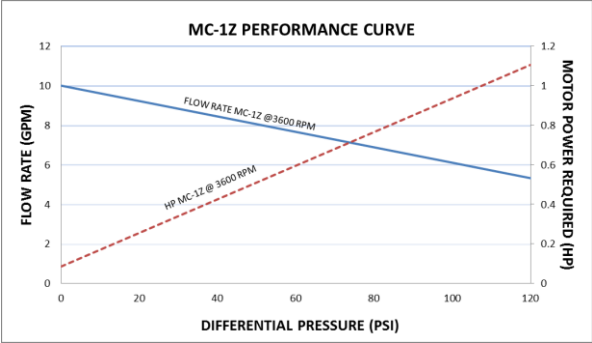
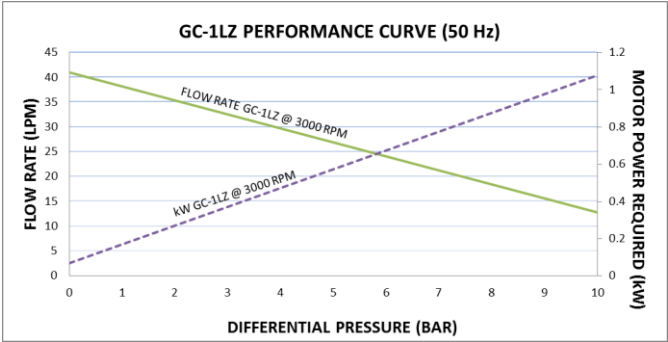
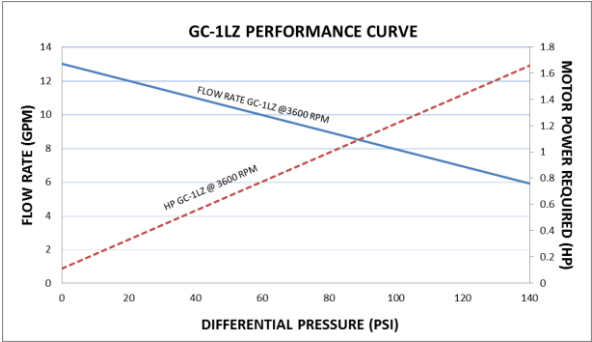


MC-1 PUMP



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.