

# Medium Capacity Pumps

## MC-1044/H Series Pumps

Flow Rates of 17-35 GPM (65-133 LPM)



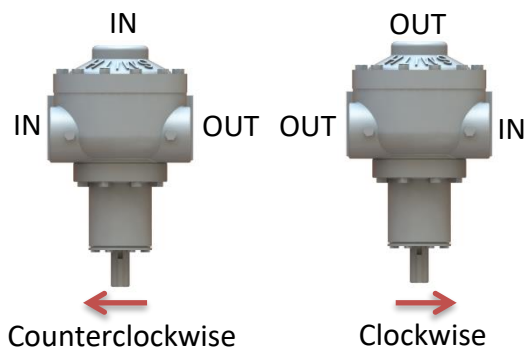
- Ideal for small bulk transfer applications, truck loading/unloading, or filling multiple cylinders at one time
- Extra inlet in cover eliminates elbows
- Reversible
- Two ¼" NPT ports in main housing for pressure gauge or hydrostatic relief valve
- No lubrication required
- Direct drive reduces maintenance

| Pumps Only                      |                   | Average Delivery Rate |                 | 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)                               |
| MC-1044<br><b>MAX 1800 RPM</b>  | 1800 (60 Hz)      | 17 GPM                | 14 GPM          | 125 PSI                       | 1-1/2"             | 1-1/2 HP (0.75 kW) to 40 psid (3 bar) |
|                                 | 1500 (50 Hz)      | (27 LPM)              | (21 LPM)        | (8 BAR)                       | (DN 40)            | 2 HP (1.5 kW) over 75 psid (5 bar)    |
| MC-1044H<br><b>MAX 1800 RPM</b> | 1800 (60 Hz)      | 30 GPM                | 25 GPM          | 125 PSI                       | 1-1/2"             | 2 HP (1.5 kW) to 75 psid (5 bar)      |
|                                 | 1500 (50 Hz)      | ( 87 LPM)             | (72 LPM)        | (8 BAR)                       | (DN 40)            | 3 HP (2.25 kW) over 75 psid (5 bar)   |

\*Recommended liquid outlet size on supply tanks/inlet line size: 1-1/2" – 2"

\*\*Explosion Proof motors are UL listed and available in 1 or 3 phase electricity for 60 Hz (1800 RPM) or 50 Hz (1500 RPM) locations, 1 phase: 115/208-230V, 3 phase: 208/230/460 V. All motors contain thermal overload protection and are base mounted, direct drive as standard option. ATEX certified motors also available. For external dimension drawings, please visit [www.smithpumps.com](http://www.smithpumps.com).

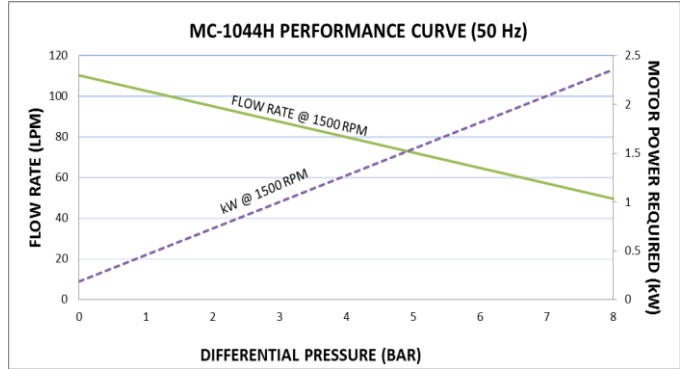
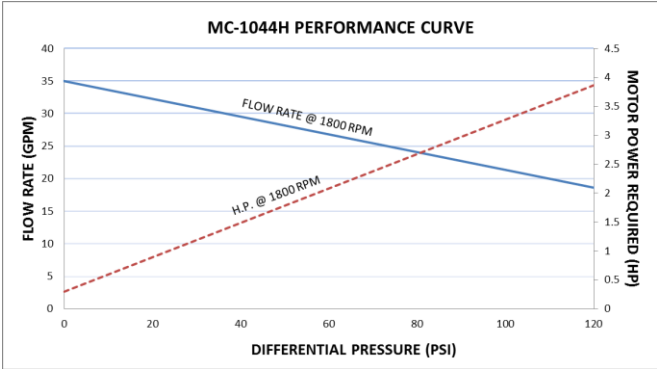
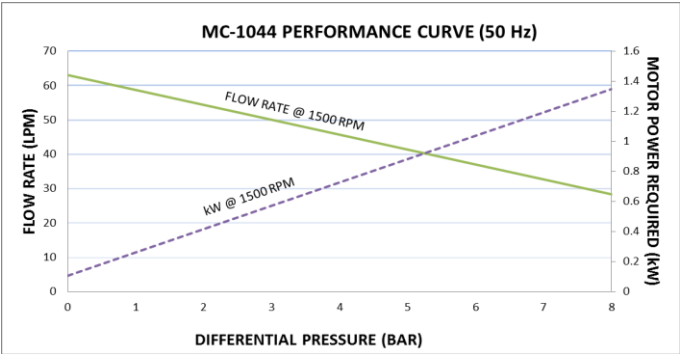
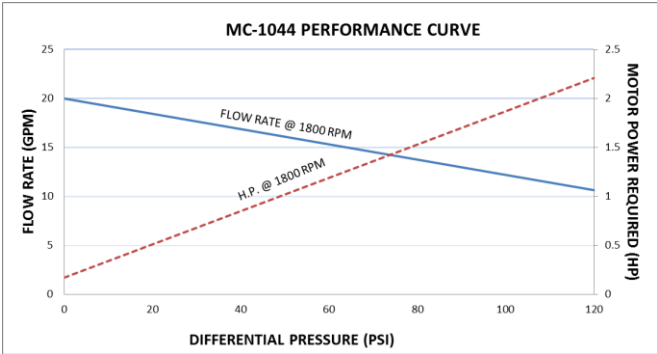
Both MC-1044 & MC-1044H pumps are reversible for loading/unloading applications



| Model               | Length of time to fill 4 100 lb (45 kg) LP-gas cylinders | Weight (Pump only) | Weight (Pump, coupling, motor) |
|---------------------|----------------------------------------------------------|--------------------|--------------------------------|
| MC-1044 @ 1800 RPM  | 4-5 minutes                                              | 45 lbs (21 kg)     | 190-230 lbs* (85-105 kg)       |
| MC-1044H @ 1800 RPM | 3-4 minutes                                              | 45 lbs (21 kg)     | 190-265 lbs* (85- 120 kg)      |

\* Weight varies depending on motor, contact factory for specific weight

# Pump Performance Curves



Performance curves based on delivery rates of LP-gas at 70°F (21°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).

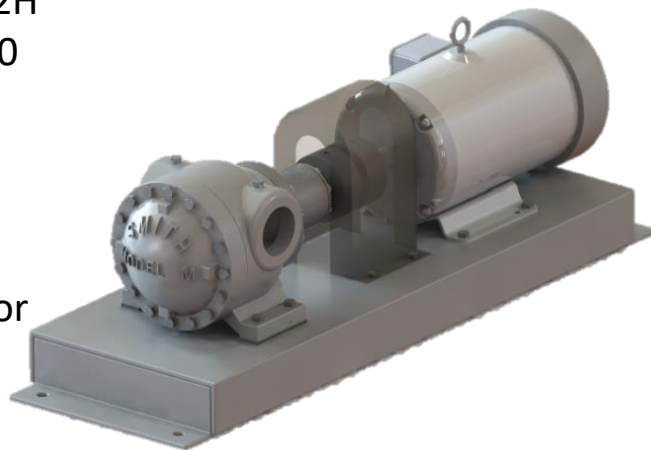
Note: For other liquid services or for more information on predicted pump output, please visit our pump performance calculator at [smithpumps.com](http://smithpumps.com).

# Medium Capacity Pumps

## MC-2/H SERIES PUMPS

Flow Rates of 42-50 GPM (160-190 LPM)

- The “workhorse” of small bulk plant installations
- Developed for 50 Hz Countries, the MC-2H has identical flow rate as the MC-2 (1800 RPM) when operated at 1500 RPM
- For increased pump longevity, operate a “non-H” pump at 1500 RPM or lower
- Our “F” type pumps come with flanges available in the 2” threaded, butt-weld, or socket-weld versions
- Reversible for loading/unloading
- Ideal for installations where 3 phase electricity is not available



Note: Pump/motor assembly above comes with coupling guard protection

| Pumps Only                               |                   | Average Delivery Rate |                 | Max Differential Pressure | Inlet/Outlet Size*       | Motor**                            | NPSHr         |
|------------------------------------------|-------------------|-----------------------|-----------------|---------------------------|--------------------------|------------------------------------|---------------|
| Model                                    | Motor Speed (RPM) | 40 PSID (3 bar)       | 75 PSID (5 bar) | PSI (BAR)                 | FNPT (DN)                | HP (kW)                            | Feet (meters) |
| MC-2, MC-2F<br><br><b>MAX 1800 RPM</b>   | 1800 (60 Hz)      | 42 GPM                | 35 GPM          | 125 PSI                   | 2-1/2" 2" flanged        | 3 HP (2.25 kW) to 40 psid (3 bar)  | 1             |
|                                          | 1500 (50 Hz)      | (125 LPM)             | (102 LPM)       | (8 BAR)                   | (DN 65) (DN 50, flanged) | 5 HP (3.7 kW) over 75 psid (5 bar) | (0.3 m)       |
| MC-2H, MC-2HF<br><br><b>MAX 1500 RPM</b> | 1200 (60 Hz)      | 32 GPM                | 25 GPM          | 125 PSI                   | 2-1/2" 2" (flanged)      | 3 HP (2.25 kW) to 40 psid (3 bar)  | 1             |
|                                          | 1500 (50 Hz)      | (157 LPM)             | (134 LPM)       | (8 BAR)                   | (DN 65) (DN 50, flanged) | 5 HP (3.7 kW) over 75 psid (5 bar) | (0.3 m)       |

\*Recommended liquid outlet size on supply tanks/inlet line size: 2-3" (DN 50 – DN 80)

\*\*Explosion Proof motors are UL listed and available in 1 or 3 phase electricity for 60 Hz (1800 RPM) or 50 Hz (1500 RPM) locations, 1 phase: 115/208-230V, 3 phase: 208/230/460 V. All motors contain thermal overload protection and are base mounted, direct drive as standard option with coupling and coupling guard. ATEX certified motors also available. For external dimension drawings, please visit [www.smithpumps.com](http://www.smithpumps.com).



Threaded Flange



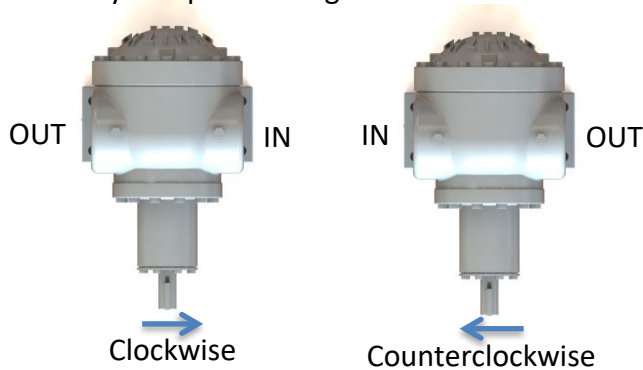
Butt-Weld Flange



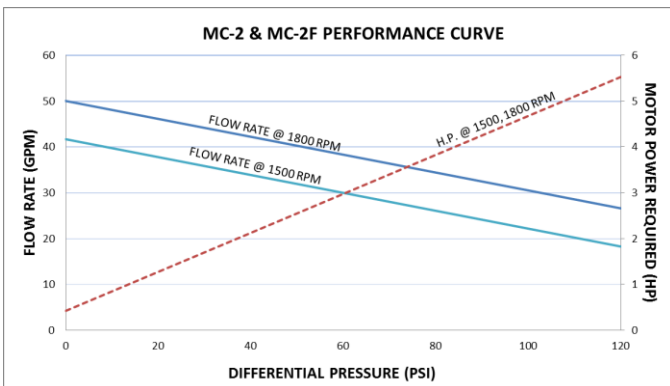
Socket Weld Flange

| Model                    | Length of time to fill 5 100 lb (45 kg) LP-gas cylinders | Weight (Pump only) | Weight (Pump, base, coupling, coupling guard, motor) |
|--------------------------|----------------------------------------------------------|--------------------|------------------------------------------------------|
| MC-2, MC-2F @ 1800 RPM   | 4 minutes                                                | 75 lbs (34 kg)     | 285-350 lbs* (129-159 kg)                            |
| MC-2H, MC-2HF @ 1500 RPM | 4 minutes                                                | 75 lbs (34 kg)     | 285-350 lbs* (129-159 kg)                            |

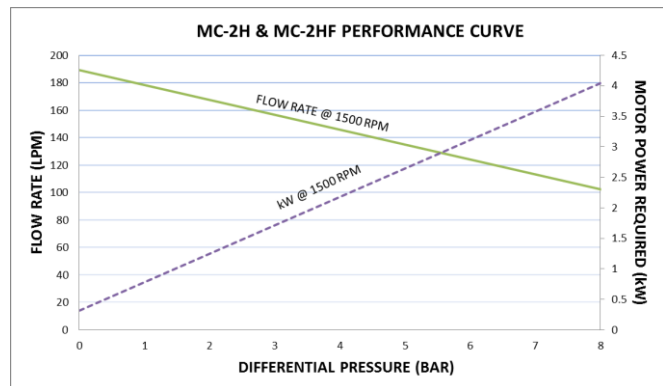
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