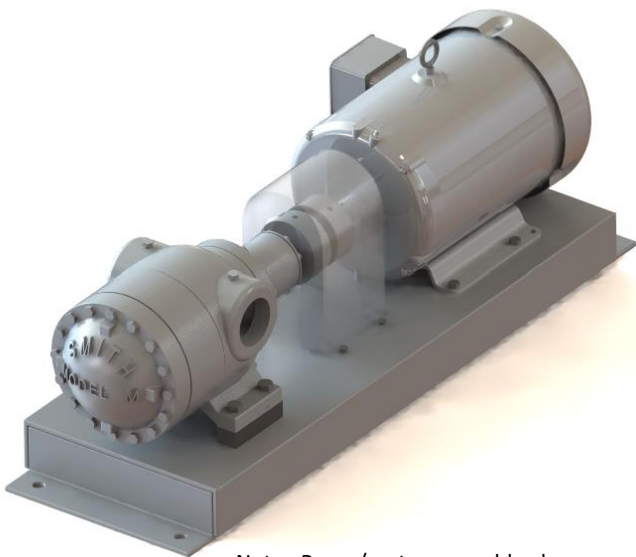


Large Capacity Pumps

MC-3/H SERIES PUMPS

Flow Rates of 83 – 100 GPM (315 – 380 LPM)



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

- Most popular pump for heavy duty bulk transfer
- Developed for 50 Hz Countries, the MC-3H has identical flow rate as the MC-3 (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 threaded, butt-weld, or socket-weld versions
- Reversible for loading/unloading

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-3, MC-3F MAX 1800 RPM	1800 (60 Hz)	84 GPM	70 GPM	125 PSI	2-1/2" 2" (flanged)	5 HP (3.7 kW) to 40 psid (3 bar)	1
	1500 (50 Hz)	(255 LPM)	(202 LPM)	(8 BAR)	(DN 65) (DN 50) flanged	7-1/2 HP (5.6 kW) over 75 psid (5 bar)	(0.3 m)
MC-3H, MC-3HF MAX 1500 RPM	1200 (60 Hz)	64 GPM	50 GPM	125 PSI	2-1/2" 2" (flanged)	5 HP (3.7 kW) to 40 psid (3 bar)	1
	1500 (50 Hz)	(318 LPM)	(265 LPM)	(8 BAR)	(DN 65) (DN 50) flanged	7-1/2 HP (5.6 kW) over 75 psid (5 bar)	(0.3 m)

*Recommended liquid outlet size on supply tanks/inlet line size: 3" (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.



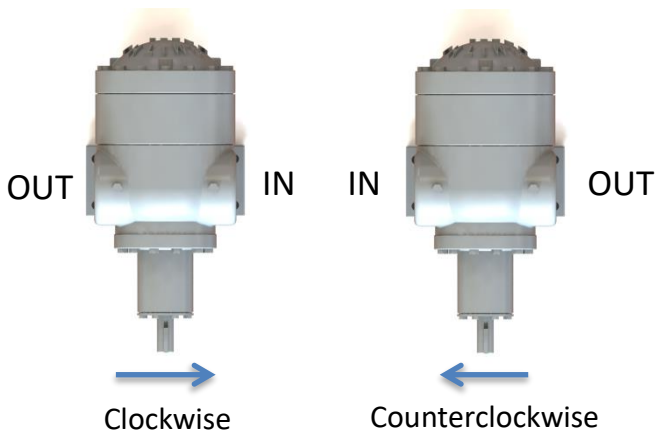
Threaded Flange



Butt-Weld Flange



Socket Weld Flange

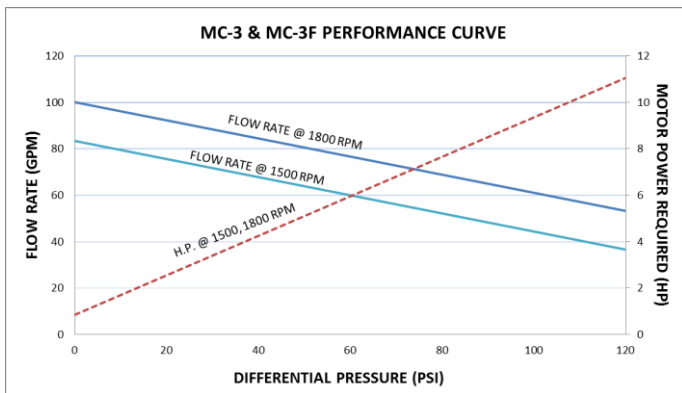


For models MC-3, MC-3F, MC-3H, MC-3HF

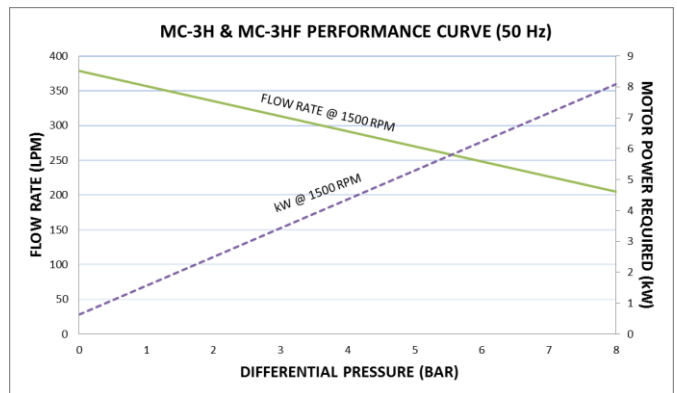
Model	Weight (Pump only)	Weight (Pump, base, coupling, coupling guard, motor)
MC-3, MC-3F, MC-3H, MC-3HF, MC-2Q	100 lbs (45 kg)	350-400 lbs* (159-182 kg)

* 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).



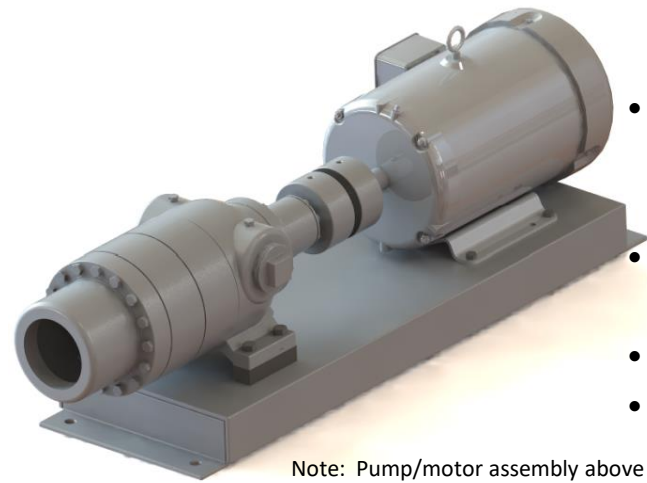
Note: For other liquid services or for more information on predicted pump output, please visit our pump performance calculator at smithpumps.com.

Large Capacity Pumps

MC-4/H Pumps

Flow Rates of 125 – 150 GPM (474 – 568 LPM)

- Same design as MC-3/H pumps, but with an added secondary housing for an increased 50 GPM
- Developed for 50 Hz Countries, the MC-4H has identical flow rate as the MC-4 (1800 RPM) when operated at 1500 RPM
- For increased pump longevity, operate a “non-H” pump at 1500 RPM or lower
- Inlet through the cover to eliminate elbows
- Our “F” type pumps come with flanges available in the threaded or welded versions



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

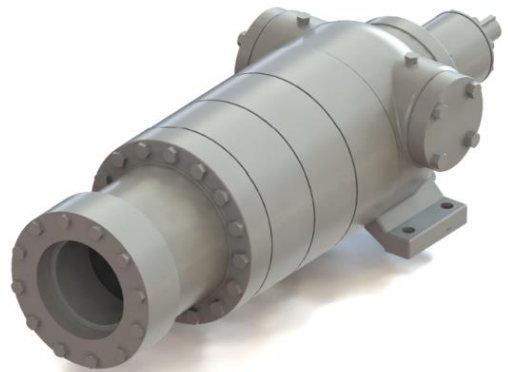
Pumps Only		Average Delivery Rate (See page 2 for pump performance curves)		Max Differential Pressure	Inlet/ Outlet Size*	Motor**	NPSHr
Model	Motor Speed (RPM)	40 PSID (3 bar)	75 PSID (5 bar)	PSI (BAR)	FNPT (DN)	HP (kW)	Feet (meters)
MC-4, MC-4F MAX 1800 RPM	1800 (60 Hz)	125 GPM	105 GPM	125 PSI	4" inlet 2-1/2" outlet [2" outlet for flanged version]	7-1/2 HP (5.6 kW) to 40 psid (3 bar)	1.5 ft
	1500 (50 Hz)	(363 LPM)	(306 LPM)	(8 BAR)	(DN 100) inlet (DN 65) (DN 50) flanged	10 HP (7.5 kW) over 75 psid (5 bar)	(0.5 m)
MC-4H, MC-4HF MAX 1500 RPM	1200 (60 Hz)	96 GPM	75 GPM	125 PSI	4" inlet 2-1/2" outlet [2" outlet for flanged version]	7-1/2 HP (5.6 kW) over 75 psid (5 bar)	1.5 ft
	1500 (50 Hz)	(475 LPM)	(398 LPM)	(8 BAR)	(DN 100) inlet (DN 65) (DN 50) flanged	10 HP (7.5 kW) over 75 psid (5bar)	(0.5 m)

*Recommended liquid outlet size on supply tanks/inlet line size: 3" (DN 80)

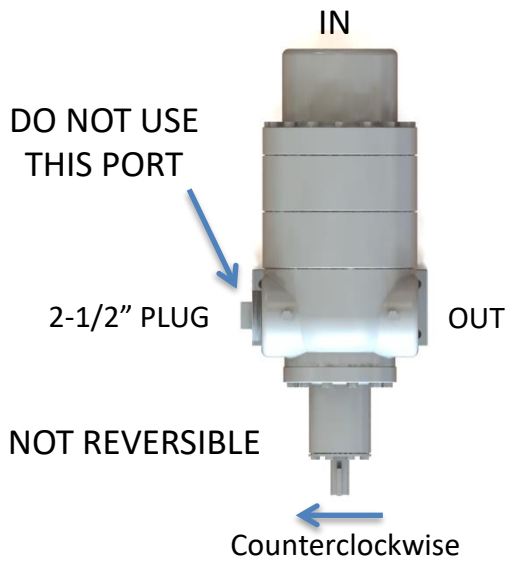
**Explosion Proof motors are UL listed and available in 3 phase electricity for 60 Hz (1800 RPM) or 50 Hz (1500 RPM) locations, 1 phase: 208/230/460 V. All motors contain thermal overload protection and are base mounted, direct drive as standard option with coupling and coupling guard. ATEX certified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



Threaded Flange



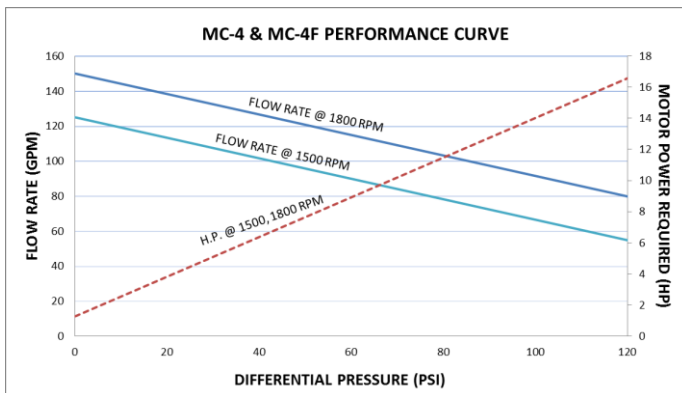
Welded Flange



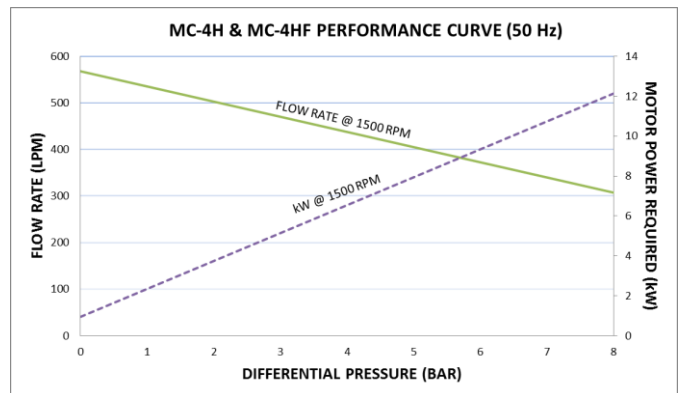
Model	Weight (Pump only)	Weight (Pump, base, coupling, coupling guard, motor)
MC-4, MC-4F, MC-4H, MC-4HF	135 lbs (62 kg)	450-500 lbs* (204-227 kg)

* 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).

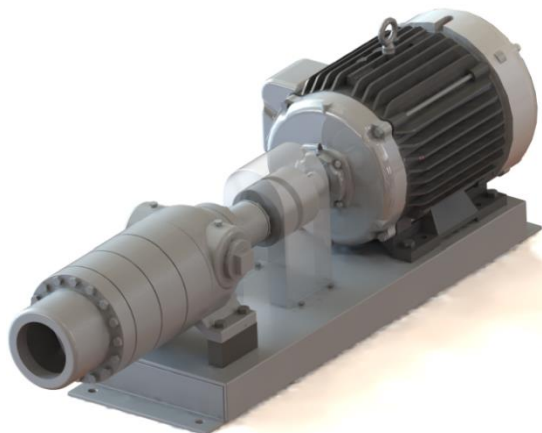


Note: For other liquid services or for more information on predicted pump output, please visit our pump performance calculator at smithpumps.com.

Large Capacity Pumps

MC-5/H Pumps

Flow Rates of 167– 250 GPM (630 – 946 LPM)



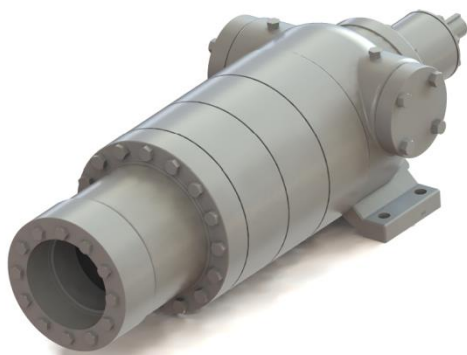
Note: Pump/motor assembly above comes with coupling guard protection

- Ideal for high capacity bulk transfer
- For higher flow rates, specify our “Large” gear option for 250 GPM
- For increased pump longevity, operate a “non-H” pump at 1500 RPM or lower
- Inlet through the cover to eliminate elbows
- Our “F” type pumps come with flanges available in the threaded or welded versions

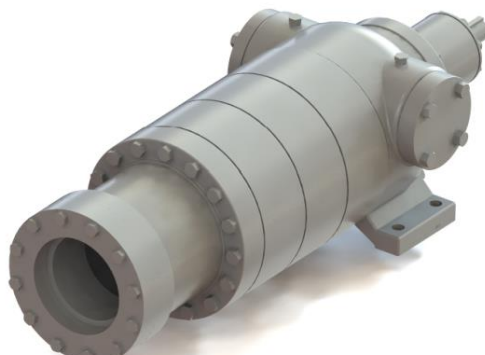
Pumps Only		Average Delivery Rate (See page 2 for pump performance curves)		Max Differential Pressure	Inlet/ Outlet Size*	Motor**	NPSHr
Model	Motor Speed (RPM)	40 PSID (3 bar)	75 PSID (5 bar)	PSI (BAR)	FNPT (DN)	HP (kW)	Feet (meters)
MC-5, MC-5F MAX 1800 RPM	1800 (60 Hz)	167 GPM	142 GPM	125 PSI	4" inlet 2-1/2" outlet [2" outlet for flanged version]	10 HP (7.5 kW) over 40 psid (5 bar)	2 ft
	1500 (50 Hz)	(511 LPM)	(409 LPM)	(8 BAR)	(DN 100) inlet (DN 65) (DN 50) flanged	15 HP (11.2 kW) over 75 psid (5 bar)	(0.61 m)
MC-5H, MC-5HF MAX 1500 RPM	1200 (60 Hz)	128 GPM	100 GPM	125 PSI	4" inlet 2-1/2" outlet [2" outlet for flanged version]	10 HP (7.5 kW) over 40 psid (5 bar)	2 ft
	1500 (50 Hz)	(640 LPM)	(538 LPM)	(8 BAR)	(DN 100) inlet (DN 65) (DN 50) flanged	15 HP (11.2 kW) over 75 psid (5 bar)	(0.61 m)

*Recommended liquid outlet size on supply tanks/inlet line size: 4-6" (DN 100 – DN 150)

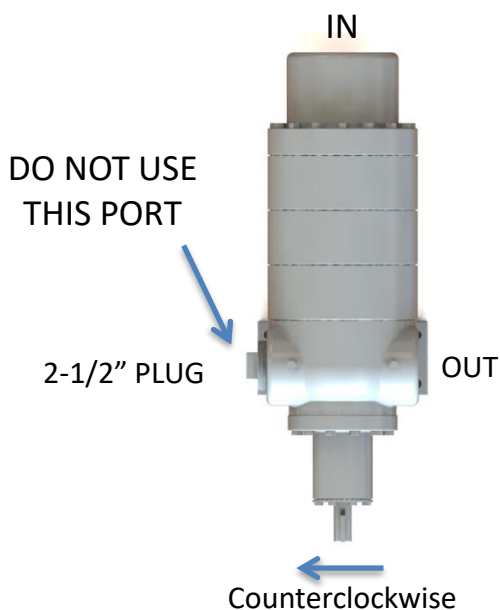
**Explosion Proof motors are UL listed and available in 3 phase electricity for 60 Hz (1800 RPM) or 50 Hz (1500 RPM) locations, phase: 208/230/460 V. All motors contain thermal overload protection and are base mounted, direct drive as standard option with coupling and coupling guard. ATEX certified motors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



Threaded Flange



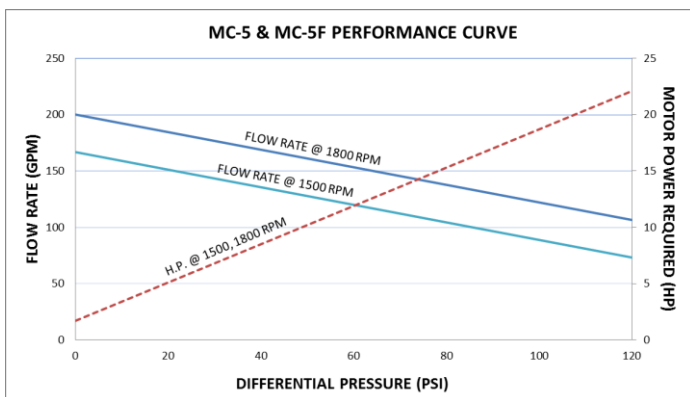
Welded Flange



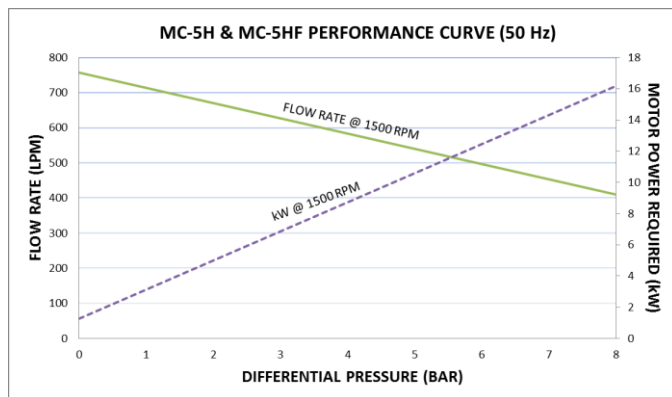
Model	Weight (Pump only)	Weight (Pump, base, coupling, coupling guard, motor)
MC-5, MC-5F, MC-5H, MC-5HF	170lbs (77 kg)	465-530 lbs* (211-240 kg)

* 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.