

LARGE CAPACITY PUMPS

MC-3/H SERIES PUMPS | Flow Rates of 83 – 100 GPM (315 – 380 LPM)



MC-3Z

- 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
- Flanged option pumps (“F”) available in 2” threaded, butt-weld, or socket-weld versions
- Reversible for loading/unloading.
- No greasing or lubrication required
- Supplied as a complete unit (pump, base, motor, coupling, coupling guard protection) or pump only
- Direct drive reduces maintenance

Pumps Only		Average Delivery Rate (See page 21 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-3, MC-3F MAX 1800 RPM	1800 (60 Hz)	84 GPM	70 GPM	125 PSI	2-1/2" 2" (flanged) (DN 65)	5 HP (3.7 kW) to 40 psid (3 bar)	1
	1500 (50 Hz)	(255 LPM)	(202 LPM)	(8 BAR)	(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) (DN 65)	5 HP (3.7 kW) to 40 psid (3 bar)	1
	1500 (50 Hz)	(318 LPM)	(265 LPM)	(8 BAR)	(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: 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: 230V (suitable for 208V), 3 phase: 208/230/460 V. Motors are base mounted, direct drive as standard option with coupling, coupling guard and thermal overload protection. ATEX/UKEX certified motors also available. For external dimension drawings, please visit www.smithpumps.com.



Threaded Flange

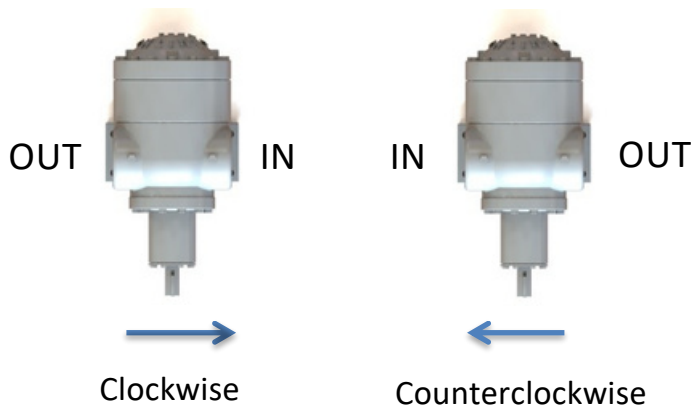


Butt-Weld Flange



Socket Weld Flange

Flanges are constructed of carbon steel. Other flange materials available upon request.

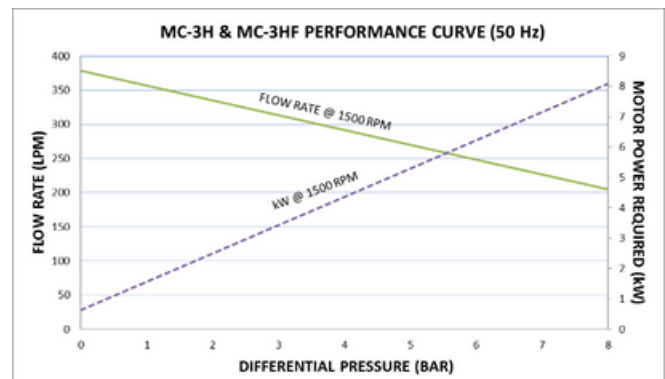
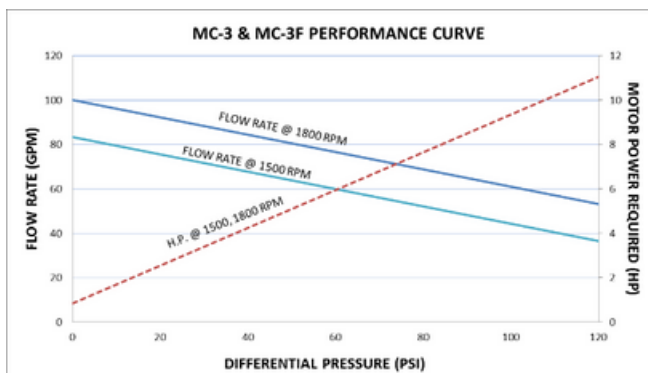


For models MC-3, MC-3F, MC-3H, MC-3HF

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.