

M Series

MOTOR SPEED INTERNAL GEAR PUMPS | PRODUCT BROCHURE



Blackmer

Where Innovation Flows

ECONOMICAL MOTOR SPEED PUMPING PERFORMANCE



Blackmer M Series Motor Speed Internal Gear Pump

If efficient circulation is the name of the game, Blackmer® Motor Speed Internal Gear Pumps are essential for success. Designed to handle many fluids, the innovative M Series provides reliability, safety and easy maintenance across various applications in multiple industries.

Backed by superior customer service and support, the M Series offers peace of mind for general-purpose pumping applications. From petrochemicals and biofuels to paints, resins and waxes, the M Series provides operators with

the durability, flexibility and efficiency required for safe and secure circulation and transfer.

When it's time for a new build or to replace your existing general-purpose motor speed pump, choosing the right solution is essential to ensuring smooth, successful operation. The Blackmer M Series is an easy choice – offering quick lead times, a one-year warranty, long-lasting quality and competitive prices.

APPLICATIONS:

- Fuel oils
- Lube oils
- Distillate
- Petrol
- Kerosene
- LPG
- Solvents
- Paints
- Transformer oils
- Vegetable oils
- Chemicals

FEATURES AND BENEFITS:

- Quiet operation
- High overall efficiency
- Low maintenance, long life
- Easy pull-out construction
- Direct coupling to synchronous speed motors
- High speed performance suitable for moderate and thin viscosity applications
- Variable mounting orientation
- Lightweight, compact and robust
- Integral adjustable bypass valve (M120 and M580 only)
- Mechanical seal



M120

Lightweight, robust and compact, the M120 Motor Speed Internal Gear Pump uses low-maintenance components to deliver trouble-free operation over its extended service life. These pumps are ideal for a wide range of applications.



M580

Designed and precision-built for the efficient transfer of a variety of liquids with either lubricating or non-lubricating characteristics, the M580 Motor Speed Internal Gear Pump offers reliable operation over a long working life.

M1-4 Motivo

With a single-point end clearance adjustment and an upgraded silicon carbide seal, the M1-4 Motivo Motor Speed Internal Gear Pump is an ideal technology for operators who need to continuously move light to medium fluids in challenging industrial applications. Designed for interchangeability with competitive pumps, M1-4 Motivo pumps can achieve up to 25% longer life under certain conditions. *Note: The Motivo pump can be operated in either a clockwise or counterclockwise rotation. The shaft rotation determines which port is suction or discharge.*



Competitive Models

BLACKMER MOTIVO	VIKING®	GORMAN- RUPP®	ROPER®
M1-4	HL4195	GMS 1 1/2	2AM32

Note: Viking® is a registered trademark of Viking Pump, Inc., a unit of IDEX Corporation. Gorman-Rupp® is a registered trademark of Gorman-Rupp® Company. Roper® is a registered trademark of Roper Pump Company.

Product Specifications

PUMP MODEL	PORT SIZES	MATERIALS	SEAL TYPE	NOMINAL PUMP RATING		MAX DISCHARGE PRESSURE	MAX TEMPERATURE	VISCOSITY
				RPM	GPM (M³/H)	PSIG (BAR)	FAHRENHEIT (CELSIUS)	SSU (CST)
M1-4 Motivo	1-1/2" NPT	Cast Iron	Mechanical	1,750	30 (6.8)	150 (10.3)	400°F (204°C)	2,600 (550)
M580	3/4" NPT	Cast Iron	Mechanical	1,800	7.5 (1.7)	203 (14)	212°F (100°C)	45,500 (10,000)
M120	1/2" NPT	Cast Iron	Mechanical	1,800	3.6 (0.8)	203 (14)	212°F (100°C)	45,500 (10,000)

M120 and M580 pumps utilize right hand rotation (when viewed from drive end). M1-4 Motivo pumps feature bi-directional rotation capability.

Warranty Info

Blackmer Motor Speed Internal Gear products (pumps, accessories and parts) are backed with a one-year warranty. Each product manufactured by Blackmer is built to meet the highest standards of quality. Blackmer warrants that pumps, accessories and parts manufactured or supplied by it are free from defects in material and workmanship. For more details, please refer to the Installation Operation Maintenance Manual.



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