Liquiflo
EQUIPMENT COMPANY

Endura® MC
General Description

The Endura MC-Series is a **M**agnetically **C**oupled end-suction centrifugal pump line, manufactured by Liquiflo Equipment Company. This line is available in close-coupled (C-Face mounting) or long-coupled (Power Frame) styles.

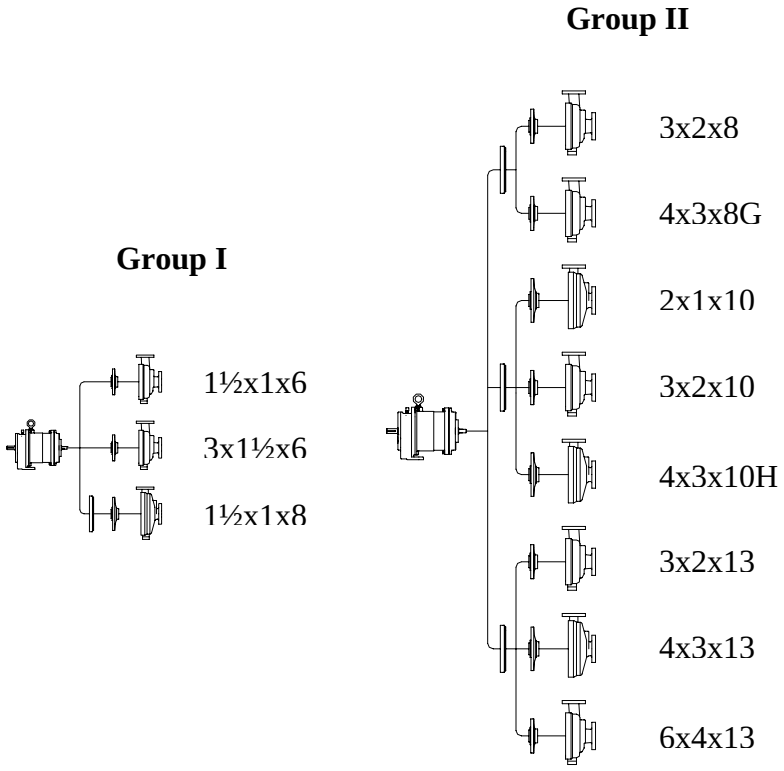
DIMENSIONAL ENVELOPE

The **long-coupled** option is dimensionally in full compliance with the ANSI B73.1 specification and **will retrofit any existing ANSI pump installation.**

The **close-coupled** option requires **no piping modifications**, and the magnetic coupling mounts directly on the motor shaft, requiring the motor to be moved forward. This C-Face mounting eliminates the need for manual coupling alignment.

The back pull-out design enables the removal of the rotating assembly without removing the casing from the piping.

ANSI STANDARD SIZES



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STANDARD AVAILABLE SIZES

Group	Size/Model	Max RPM
I	MC 1.5 x 1 x 6	3560
	MC 3 x 1.5 x 6	3560
	MC 1.5 x 1 x 8	3560
II	MC 3 x 2 x 8	3560
	MC 4 x 3 x 8G	3560
	MC 3 x 2 x 10	3560
	MC 4 x 3 x 10H	1780

IMPELLER

All MC pumps listed above use a closed impeller design.

FLANGES

The MC is fitted with a 150# serrated Raised Face flanged casing standard. 300# serrated Raised Face flanged casings are optional.

MATERIALS

The standard options for the wet-end basic materials are 316 Stainless Steel or Hastelloy-C. Consult the factory Applications Group for the availability, price and delivery of non-standard materials.

Journal bearings for the MC are pure alpha-sintered silicon carbide (SiC) and have tolerance rings for support and alignment.

ELASTOMERS

Teflon O-rings are standard for the casing and containment can. Consult the factory for other materials.

TEMPERATURE RANGE

The standard MC can be applied between +70 °F and +350 °F.

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PRESSURE CAPABILITY

MC pumps are rated for 275 PSI at temperatures up to +100 °F. Above 100 °F, the rated pressure is linearly de-rated, and at 350 °F is 205 PSI (316 SS).

CONTAINMENT SHELL

The standard MC containment cans match the metallurgy of the pressure boundary. However, Transformation-Toughened Zirconia (TTZ) containment cans are available to eliminate eddy current power losses.

All cans are 100% hydrostatically tested at 412 PSI.

MINIMUM FLOW RATE

A generally accepted industry practice for minimum flow rate is 10-20% of the best efficiency point (BEP). However, consult the factory for special requirements.

SOLIDS HANDLING CAPABILITY & DRY RUNNING

The MC is capable of running with up to 2% solids, 50 micron size, and **should not, under any circumstances, be operated dry**. (Refer to the Endura-AB version for higher solids handling requirements and dry running capability.)

MAXIMUM VISCOSITY

The maximum viscosity of the MC pump is similar to any ANSI pump and is generally applied under 200 centipoises (cP). Refer to the Hydraulic Institute viscosity correction chart or consult the Liquiflo Equipment Company Applications group.

VENT & DRAIN

The MC pump is self-venting, due to its top discharge, ANSI design. It is supplied with a standard ½" NPT drain plug.

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SPECIAL FEATURES & ADVANTAGES

- Impeller is keyed to the shaft and secured with a nut to prevent backing off into casing if rotation is incorrect
- Shaft is oversized to minimize deflections
- Close-coupled or Power Frame
- ANSI-dimensional for easy change out

RECOMMENDED SPARES

Module – Complete spare rotating assembly. This is a complete mag-drive pump less the volute, outer magnet and mounting bracket. It is recommended when a quick turn-around is essential for plant operation.

Parts – All individual parts can be purchased separately (refer to pump Bill of Materials).