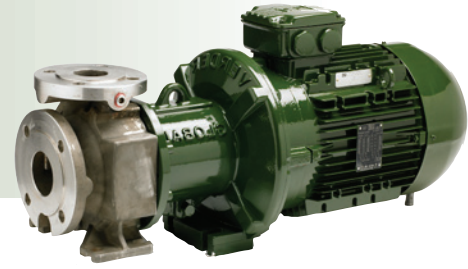


Verdermag Global MII



GENERAL

Horizontal End-Suction centrifugal pump

Centerline discharge

Mag-drive

Synchronous coupling

Back-pull out design

Maximum possible temperature: 205 °C

Minimum possible temperature -100 °C

Maximum discharge pressure: 19 bar

Slurry: max 5% wt.; size: max. 250 µm

Maximum diameter solids: 0.5 mm

Minimum flow: 10% of maximum efficiency flow

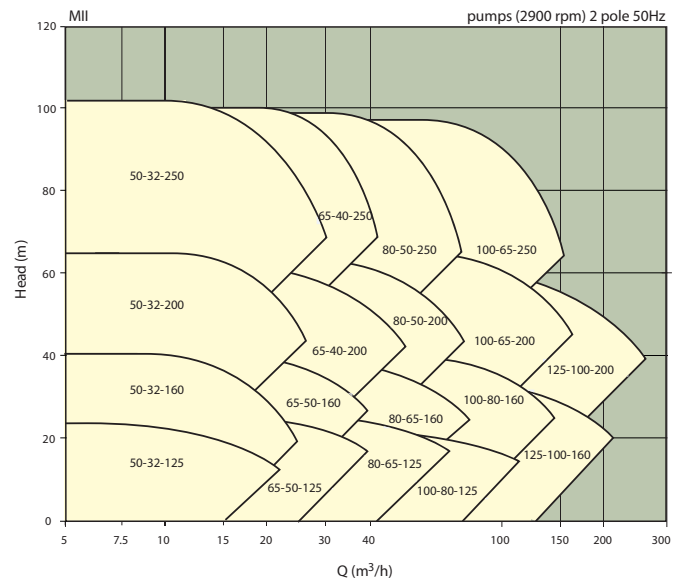
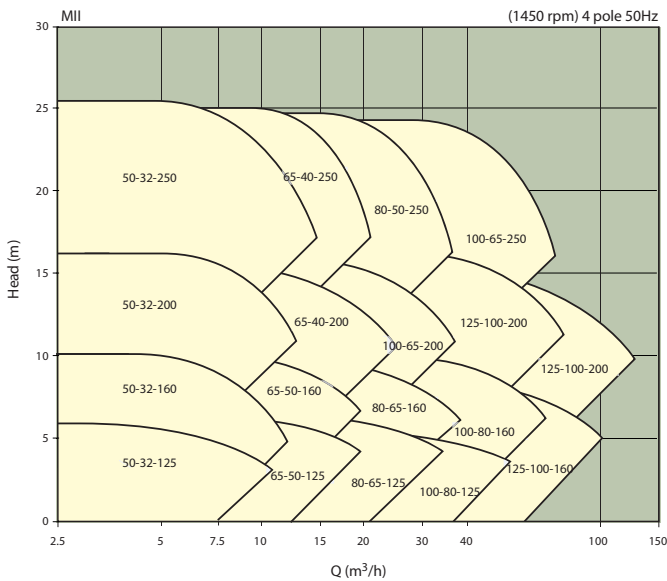
Maximum viscosity: 150cPs

Maximum power transmission: 30kW

Casing

- Meets ISO2858 : 1975, BS EN 22858 : 1993 dimensions for flange and foot position
- Top centerline discharge, self venting
- One piece solid cast stainless steel 316C16/CF8M construction
- Foot supported for maximum resistance to distortion from pipe-loads

- Flanges: Standard – BS 4504 (ISO 2084-1974) Class PN16
- Optional: Combined PN16 / ANSI 150# BS 1560 (ANSI/ASME B16.5) Class 150
- Casing vent & drain connection standard



Verdermag Global MII



Impeller

- Closed type, one piece construction
- One piece solid cast stainless steel 316C16/CF8M construction
- Bored and keyed to suit standard Global pump shafts

Inner magnet – pump shaft

- Stainless steel 316L internal pump shaft
- Hollow shaft flow induction system
- Magnets fully encapsulated with tough 316L sheath
- Coupled to impeller by key, dome nut and locking tab washer
- Machined O-ring grooves, to carry rotating silicon carbide bearing components

Outer magnet

- Mild steel outer magnet ring with resin filler and protective rings surrounding magnets
- Mounts directly to motor shaft by self centering taper lock adapter and bush

Backplate

- Stainless steel 316/CF8M construction
- Sandwich design for easy replacement of cartridge
- Integral front bearing holder
- Integral flow holes to ensure consistent lubrication as liquid flows from high pressure area of casing to low pressure area around the front bearings
- Flange connector for containment tube, suitable for several size of mag-drive ends

Containment tube

- Stainless steel 316L/CF3M construction, with Hastelloy containment tube, for reduced eddy current generation
- Integral rear bearing holder, with washer and locking nut

Bearings

- Silica free silicon carbide front and rear bearings fitted as standard
- Bearings are press fit onto elastomers O-rings – allowing:
 - Thermal shock absorption
 - Easy maintenance

Magnet coupling

- Rare Earth Samarium Cobalt high temperature grade magnets
- Synchronous, no slippage, low losses
- Eliminates need for soft starter devices

Close coupled bracket

- Provides metal to metal fit to casing
- Eliminates flexible coupling, bearing frame and alignment
- Utilises standard IEC motors to suit frame sizes from 100 - 225
- NEMA available on request

