

MII PUMP SPECIFICATION

GENERAL

- Horizontal End-Suction centrifugal pump
- Centerline discharge
- Mag-drive
- Synchronous coupling
- Back-pull out design
- Maximum temperature: 200 °C
- Minimum temperature: - 20 °C
- Maximum discharge pressure: 16 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 316 C16 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

IMPELLER

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

INNER MAGNET – PUMP SHAFT

- Stainless steel 316 S11 internal pump shaft
- Hollow shaft flow induction system
- Magnets fully encapsulated with tough 316 sheath
- Coupled to impeller by key, dome nut and locking tab washer
- Machined O-ring grooves, to carry rotating silicon carbide bearing components

MII PUMP SPECIFICATION – Cont'd

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 S11 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 316 S11 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