

PC 80 PUMP SPECIFICATION

GENERAL

- Horizontal End-Suction centrifugal pump
- Centerline discharge
- Mag-drive
- Synchronous coupling
- Back-pull out design
- Maximum possible temperature: 200 °C
- Minimum possible temperature: - 20 °C
- Maximum discharge pressure: 16 bar
- Slurry: max 5% wt.; size: max. 150 µm
- Maximum diameter solids: 0.5 mm
- Minimum flow: 10% of maximum efficiency flow
- Maximum viscosity: 150cPs (Subject to power limits)
- Maximum power transmission: 0.55kW

CASING

- Top centerline discharge, self venting
- Stainless steel 316 S11 fabricated construction
- Case mounted directly to pedestal (no feet)
- Flanges: BS 4504 (ISO 2084-1974) Class PN16
BS 1560 (ANSI/ASME B16.5) Class 150
- Casing drain connection optional extra

IMPELLER

- Closed type
- Stainless steel 316 S11 fabricated 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, washer and locking nut
- Machined O-ring grooves, to carry rotating silicon carbide bearing components

PC 80 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 CONTAINMENT TUBE

- Stainless steel 316 S11 construction, with Hastelloy containment tube, for reduced eddy current generation
- Separate bearing holder, with flow induction holes for bearing lubrication
- Bolts directly to case, and allows for quick cartridge replacement

BEARINGS

- Single bearing pump
- 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 / backplate
- Central foot mounting for simple installation
- Eliminates flexible coupling, bearing frame and alignment
- Utilises standard IEC motors – To suit 71 frame
- NEMA available on request