HIGH SYSTEM PRESSURE 100/125 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: 100 bar (higher upon request)
- 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: 2.2kW Standard (3.0kW Available with optional motor flange adapter)

FRONT COVER

- One piece stainless steel 316 S11 construction
- Flanges: BS 4504 (ISO 2084-1974) Class PN64, PN100 or PN160
- BS 1560 (ANSI/ASME B16.5) Class 600, 900 or 1500

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 PN64, PN100 or PN160
  BS 1560 (ANSI/ASME B16.5) Class 600, 900 or 1500

IMPELLER

- Closed type, one piece construction
- Stainless steel 316 S11fabricated construction/Cast CF8M
- Bored and keyed to suit standard Global pump shafts

HIGH SYSTEM PRESSURE 100/125 PUMP SPECIFICATION – Cont'd

INNER MAGNET – PUMP SHAFT

- Stainless steel 316 S11internal 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

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

CONTAINMENT TUBE

- Hastelloy / Stainless for 50 bar units. Inconel 625 construction for 100 bar units
- Separate bearing holder, with flow induction holes for bearing lubrication

BEARINGS

- Single front bearing pump with rear thrust ring
- Silica free silicon carbide front bearings fitted as standard
- Fluoroscint rear thrust ring supplied as standard – (Full Silica free silicon carbide rear bearings optional)
- 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 80 / 90 frame (100 adapter option)
- NEMA available on request