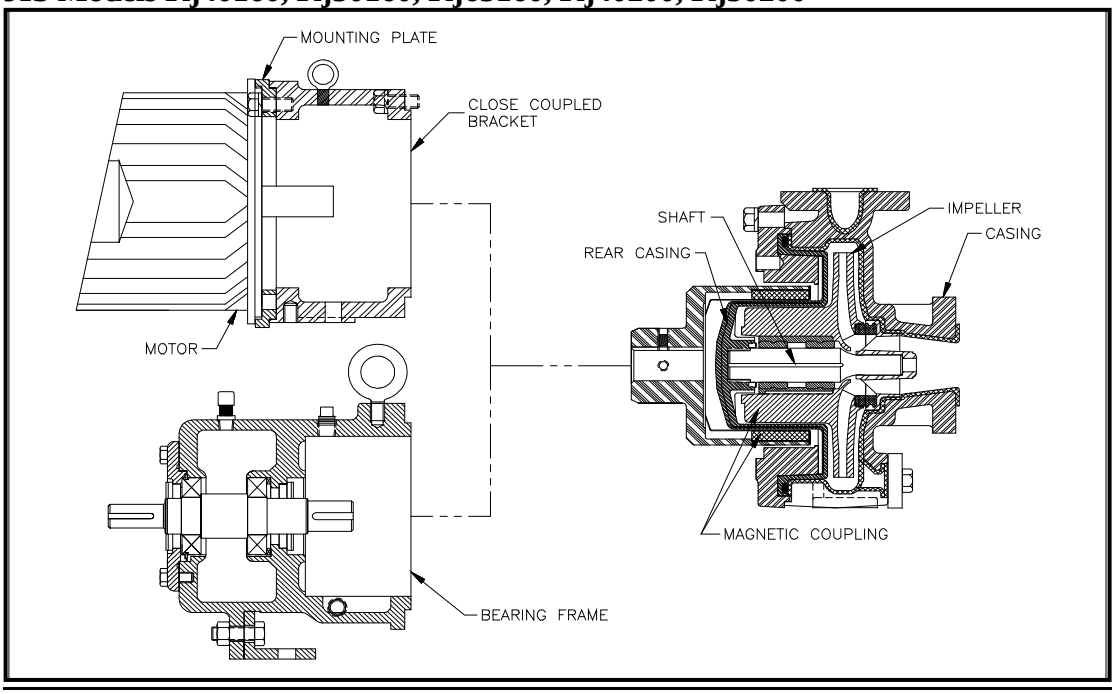
ANSIMAG K+ SERIES PUMP SPECIFICATIONS

ANSI Models K1516, K3156, K326s, K326, K436, K1518, K3158 **Feb 2009**
ISO Models Ki32160, Ki50160, Ki65160, Ki32200, Ki40200
JIS Models Kj40160, Kj50160, Kj65160, Kj40200, Kj50200



PUMP

- Horizontal End-Suction, Centerline discharge, Mag-drive Centrifugal pump.
- Synchronous drive, magnetically coupled for zero leakage applications.
- Non-metallic wetted parts.
- Meets ASME/ANSI B73.1-1991 dimensional specification for flange and foot position (close and long coupled).
- Meets ISO 2858-1975 dimensional specifications for flange and foot position (long coupled, only).
- Meets JIS B8313-1991 dimensional specifications for flange position and foot position (long coupled, only).
- Maximum power, 30 hp (22 kW) at 3500 rpm.
- Back pull out design.
- Exterior protection: Epoxy Hybrid Powder Coating (campus green)
- Maximum Slurry concentration: 40% wt.
- Maximum solids size: 1/16 inch (1.6 mm) diameter
- Max discharge pressure 285 psi.
- Max. vapor pressure: consult factory for liquids with v.p. curve that passes above 8 psia (0.54 Bar) @ 90°F (32°C).
- Maximum viscosity: *

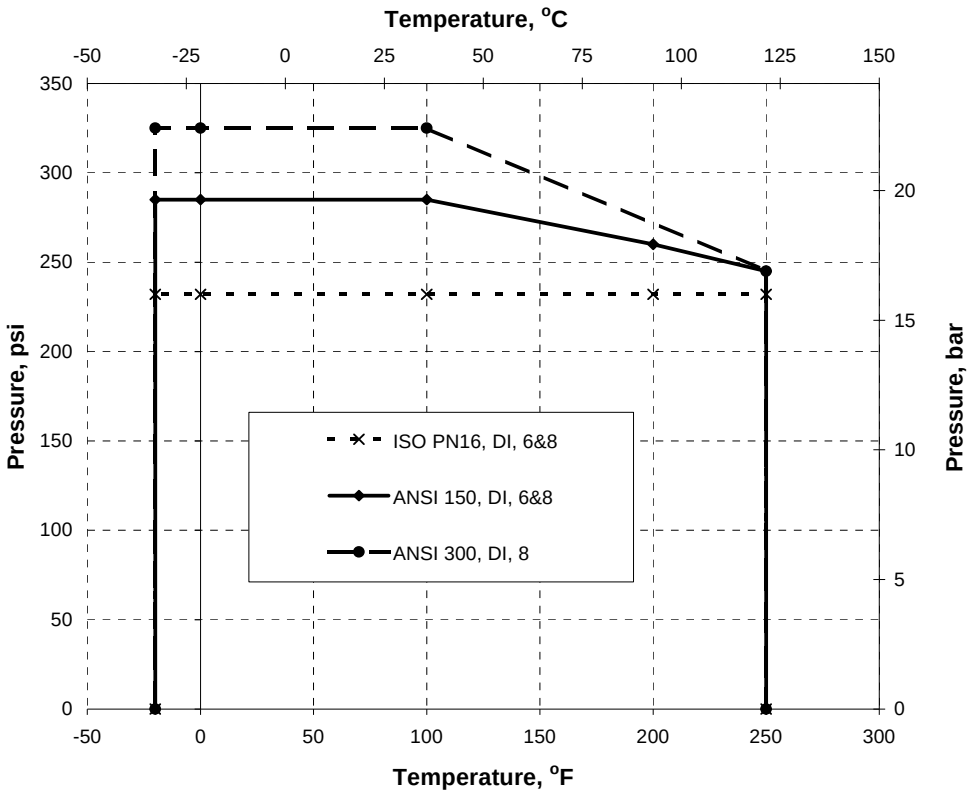
K1516	(Ki32160)	(Kj40160)	700 SSU	(150 centistokes)
K3156/K326s/K326	(Ki50160)	(Kj50160)	1200 SSU	(260 centistokes)
K436	(Ki65160)	(Kj65160)	1700 SSU	(365 centistokes)
K1518	(Ki32200)	(Kj40200)	750 SSU	(160 centistokes)
K3158	(Ki40200)	(Kj50200)	750 SSU	(160 centistokes)

- Minimum flow: **

K1516	(Ki32160)	(Kj40160)	3 gpm at 3600 rpm	(.68 m^3/h at 2900 rpm)
K3156/ K326s/K326	(Ki50160)	(Kj50160)	5 gpm at 3600 rpm	(1.13 m^3/h at 2900 rpm)
K436	(Ki65160)	(Kj65160)	5 gpm at 3600 rpm	(1.13 m^3/h at 2900 rpm)
K1518	(Ki32200)	(Kj40200)	5 gpm at 3600 rpm	(1.13 m^3/h at 2900 rpm)
K3158	(Ki40200)	(Kj50200)	5 gpm at 3600 rpm	(1.13 m^3/h at 2900 rpm)

* Note: Pump performance (flow, head and efficiency) will be greatly affected by the viscosity of liquid pumped. Maximum viscosity given above are approximate numbers. Please refer to the Hydraulic Institute's "Viscosity Correction" chart. A pump should not be used or should be used with caution if efficiency with viscous liquid is less than 50% of efficiency with water.
** Note: Minimum flow data based on water. Consult factory for other liquids.

PRESSURE & TEMPERATURE CAPABILITY



CASING

- Meets ANSI B73.1-1991 or ISO 2858-1975 or JIS B8313-1991 foot and flange position and size standard
- Self venting and top centerline discharge.
- Material: One piece solid ductile iron casing, lined with rotomolded ETFE fluoropolymer 1/8 in. (3 mm) min.
  Optional (ANSI models, only): Alloy casing in 316 SS, Hastelloy B or Hastelloy C (no lining).
- Foot supported for maximum resistance to distortion from pipe loads.
- Pure sintered silicon carbide thrust ring integral with front shaft support.
- Flanges: ANSI/ASME B16.5 Class 150 or ISO 2084-1974 Class NP 16 flanges standard.
  Optional: ANSI/ASME B16.5 Class 300 on alloy casings, only.
- Casing drain connection standard.

IMPELLER

- Closed type, one piece construction
- Manufactured with carbon fiber filled ETFE fluoropolymer.
- Magnets fully encapsulated by ETFE fluoropolymer.
- Replaceable, press fit main bushing, either carbon/graphite or sintered silicon carbide.
- Replaceable, mouth ring, either carbon fiber filled PTFE or sintered silicon carbide.
- Optional glass fiber filled PFA.

SHAFT

- Non-rotating, 1.25" (32 mm) diameter.
- One piece, solid construction, sintered silicon carbide (SiC).
- Fully supported at both ends utilizing front shaft support and rear casing.
- Axial groove for improved lubrication and particulate bypass. U.S. Patent 5,641,275.

REAR CASING

- Exceeds ANSI/ASME B73.1 Pressure and Temperature Ratings for Class 150 flanges.
- Injection molded carbon fiber filled ETFE fluoropolymer backed by non-metallic reinforcement.
- Integral carbon fiber filled PTFE back thrust ring standard, optional sintered silicon carbide.
- No energy losses due to eddy currents from magnetic coupling.
- Fully confined casing O-ring.
- Burst pressure, 1800 psi (124 bar) & 2000 psi (138 bar) for 6" and 8" models, respectively.
- Optional glass fiber filled PFA.

MAGNETIC COUPLING

- Neodymium Iron Boron for maximum torque.
- Designed for zero slippage and zero losses.
- Utilizes standard NEMA or IEC motors.
- Eliminates soft start devices.
- Ratings:

A-drive: 10 HP / 7.5 kW max @ 3500 rpm; 5 HP / 3.75 kW max @ 1750 rpm A-drive: 5.5kW / 7.5 HP max @ 2900 rpm; 3.0 kW / 4 HP max @ 1450 rpm
B-drive: 15 HP / 11 kW max @ 3500 rpm; 7.5 HP / 5.5kW max @ 1750 rpm B-drive: 7.5 kW / 10 HP max @ 2900 rpm; 4.0 kW / 5 HP max @ 1450 rpm
C-drive: 30 HP /22 kW max @ 3500 rpm; 15 HP / 11kW max @ 1750 rpm C-drive: 18 kW / 24 HP max @ 2900 rpm; 9 kW /12 HP max @ 1450 rpm

CLOSE COUPLED BRACKET

- Provides metal-to-metal fit to casing and motor.
- No alignment between motor flange and pump.
- Eliminates the flexible coupling and bearing frame.
- Drilled and tapped for leak monitoring sensor (3/8 NPT).

BEARING FRAME

- Group 1 ASME/ANSI B73.1-1991 dimensional.
- L_{10} life of 30,000 hours.
- Large oil reservoir for cool operation and long oil life.
- Sight window for direct oil level indication.
- Sealed enclosure provides secondary containment (optional).
- Drilled and tapped for leak monitoring sensor (3/8 NPT).

JH PROCESS EQUIPMENT INC.