



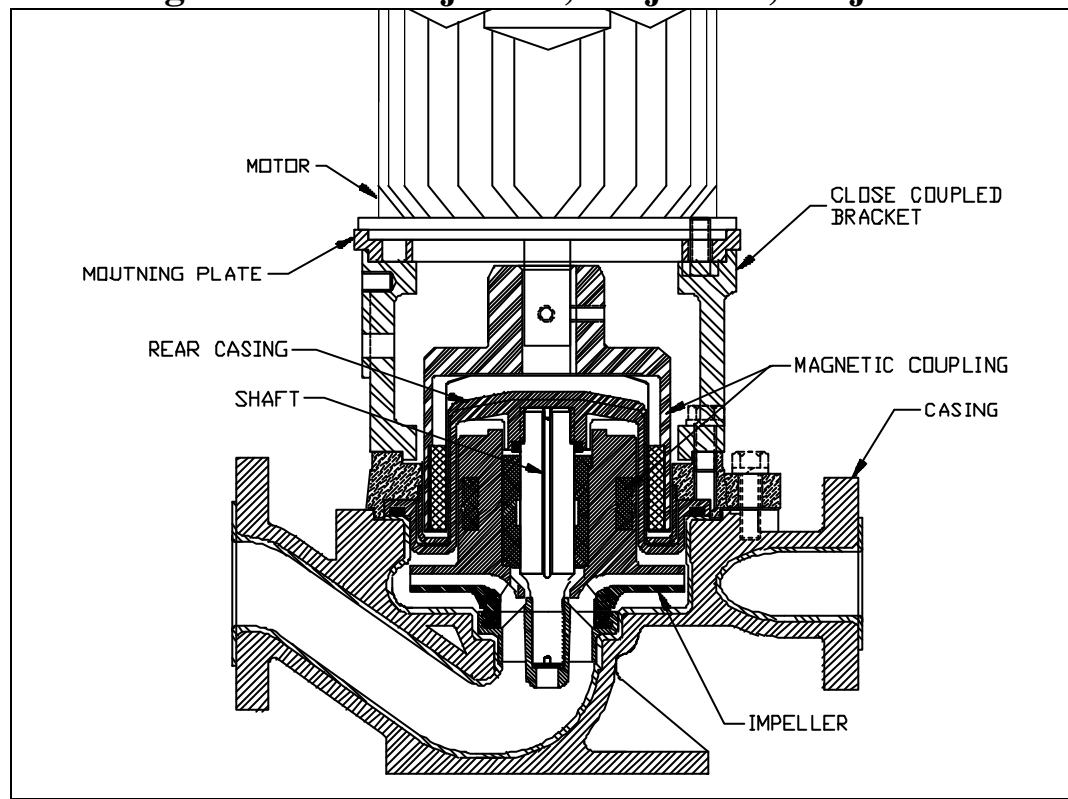
PROCESS EQUIPMENT INC.

# ANSIMAG KV-SERIES PUMP SPECIFICATIONS

ANSI Models KV2156, KV326, KV2158

ISO Flanged Models KVi40160, KVi50160, KVi40200

JIS Flanged Models KVj40160, KVj50160, KVj40200



## PUMP

- Vertical, Inline discharge, Mag-drive Centrifugal pump.
- Synchronous drive, magnetically coupled for zero leakage applications.
- Non-metallic wetted parts.
- Meets ASME/ANSI B73.2-1991 dimensional specifications for flange position.
- Self venting rear casing (containment shell).
- Maximum power, 30 hp (22 kW) at 3500 rpm.
- Back pull out design.
- Exterior protection: polyamide epoxy primer with polyurethane top coat (green).
- Slurry: 3% wt. 0.005 inch (150 microns) max.
- Maximum diameter solids: 1/32 inch (0.8 mm) max.
- Max. vapor pressure: consult factory for liquids with vapor pressure curve that passes above 8 psia (0.54 Bar) @ 90°F (32°C).
- Maximum viscosity: \*

KV2156	(KVi40160)	(KVj40160)	700 SSU	(150 centistokes)
KV326	(KVi50160)	(KVj50160)	1200 SSU	(260 centistokes)
KV2158	(KVi40200)	(KVj40200)	750 SSU	(160 centistokes)

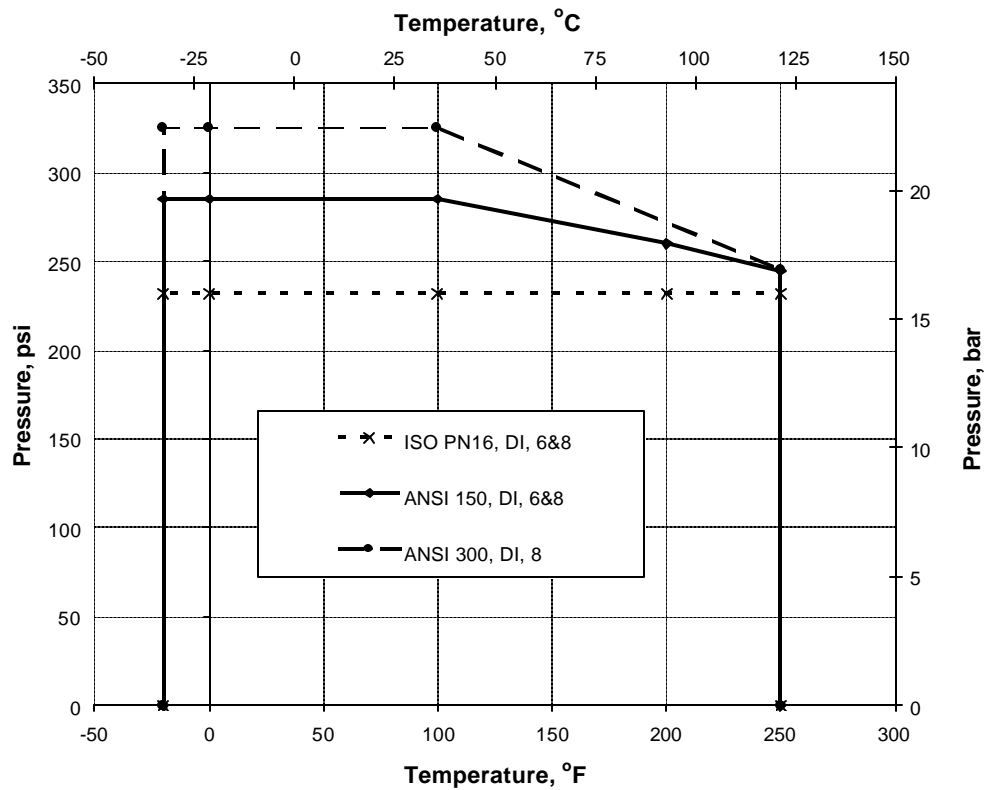
- Minimum flow: \*\*

KV2156	(KVi40160)	(KVj40160)	3 gpm at 3500 rpm	(.68 m <sup>3</sup> /h at 2900 rpm)
KV326	(KVi50160)	(KVj50160)	5 gpm at 3500 rpm	(1.13 m <sup>3</sup> /h at 2900 rpm)
KV2158	(KVi40200)	(KVj40200)	5 gpm at 3500 rpm	(1.13 m <sup>3</sup> /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

- ANSI B73.2-1991 flange position and size standard
- Material: One piece solid ductile iron casing, lined with rotomolded ETFE fluoropolymer 1/8 in. (3.0 mm) min.
- Integral pedestal for pump support.
- Pure sintered silicon carbide thrust ring integral with front shaft support.
- Flanges: ANSI/ASME B16.5 Class 150 standard,  
Optional: ANSI Class 300 or ISO 2858 PN16 or JIS B2210 10kg/cm<sup>2</sup>.
- 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.

## 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. Patented.

## **REAR CASING**

- Exceeds ANSI/ASME B73.2 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.
- 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.

## **MAGNETIC COUPLING**

- Neodymium Iron Boron for maximum strength.
- Designed for zero slippage and zero losses.
- Utilizes standard NEMA, NEMA C-Face, or IEC B5 Flange-Face 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

Note: Limit max. temperature to 200°F (93°C) above 25 hp @ 3500 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).

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