

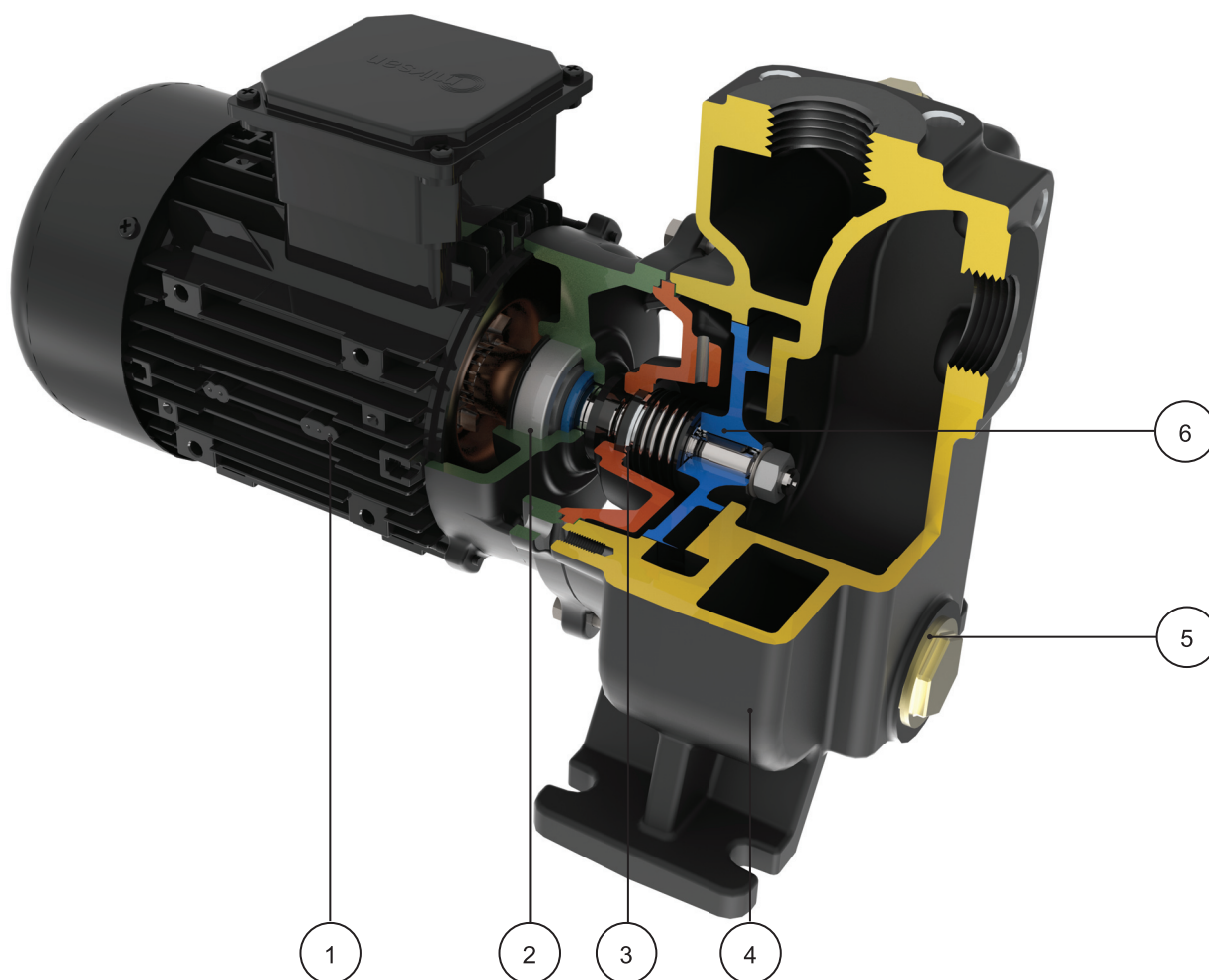


Figure 31 - KEP Series Pumps Section View

1. Electric Motor

Special shaft and flange mounted electric motors are used on KEP series. Motor shaft is directly mounted to impeller.

Power of 3 phase electric motors are 4,0 kW and 3,0 kW in frame size of 100; 2,2 kW and 1,5 kW in frame size of 90; 1,1 kW in the frame size of 80; 0,37 kW and 0,25 kW in frame size of 63.

2. Bearings

Motor flange is made of cast iron and the front bearing is bigger than standard electric motors so it offers increased strength against to axial forces.

3. Mechanical Seal

Standard mechanical seal material is C-SiC-Viton. TC-TC-Viton mechanical seal is available upon request.

4. Pump Body

Self-priming after the pump body is filled with the fluid once.

5. Drain Plug

KEP pumps can be easily clean out via drain plug without dismantling the pump from the system.

6. Impeller

Special impeller design that allows self-priming without foot valve requirement.

KEP 125 PUMP

Applications:

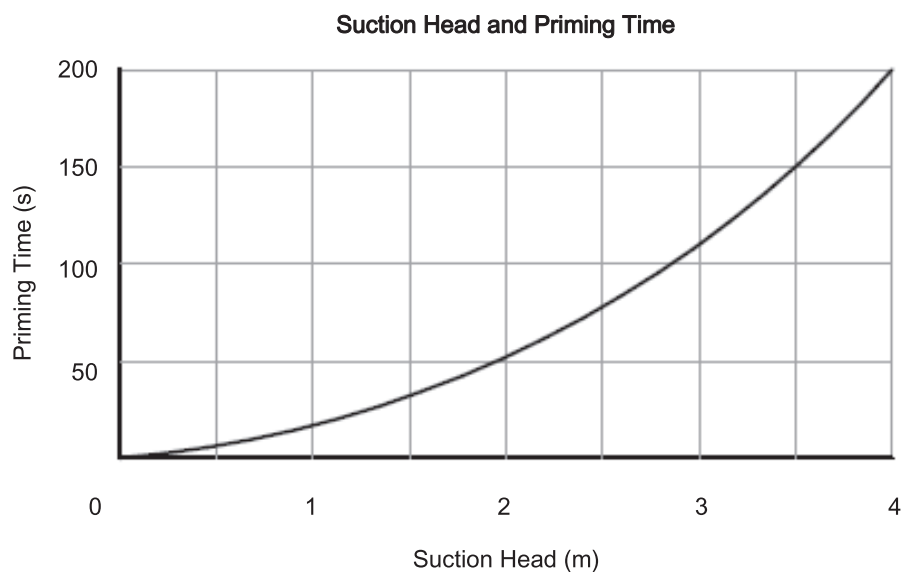
- Cutting, turning, milling, boring, grinding and similar applications of the machine tools,
- Filtration systems,
- Circulation systems.
- KEP Pumps are used for pumping of cutting / cooling fluids.

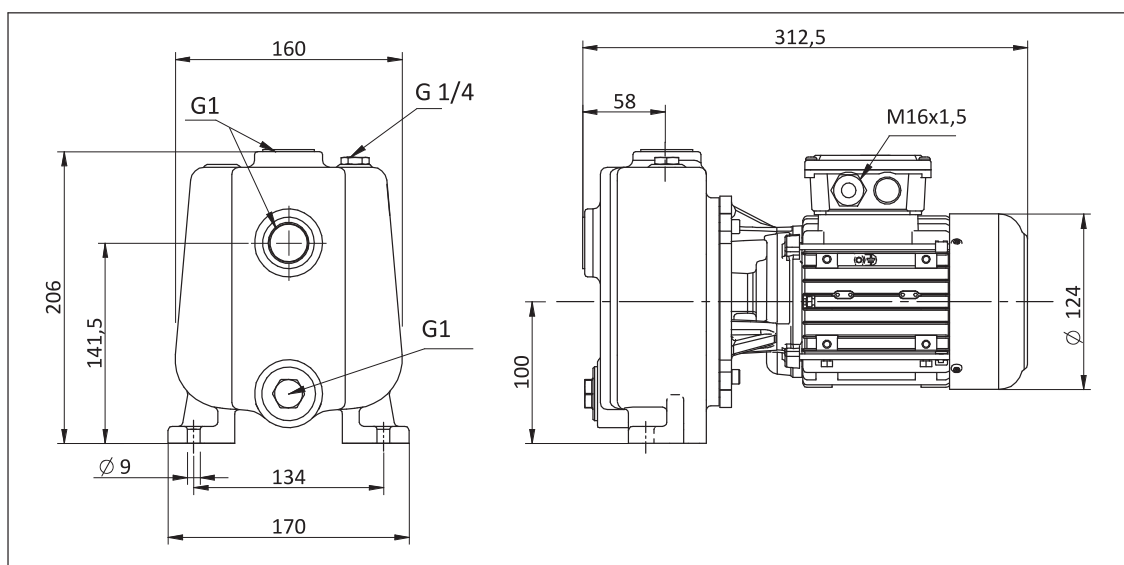
Fluid Specifications:

- Coolants,
- Cutting oils,
- Grinding oils,
- Water
- Chip containing liquids (max. 6 mm)
- Fluid temperature 0...60 °C
- Kinematic viscosity 1...30 mm²/s

Materials:

Pump body	: Cast iron - DIN GG25
Motor Flange	: Cast iron - DIN GG25
Impeller	: Cast iron - DIN GG25
Shaft	: Stainless steel - AISI 420 (DIN 1.4021)
O-ring	: Viton
Mechanical Seal	: C-SiC-Viton
Electric motor	: 3 phase induction motor - 2 pole, 1 phase induction motor (Optional) Protection degree IP 54





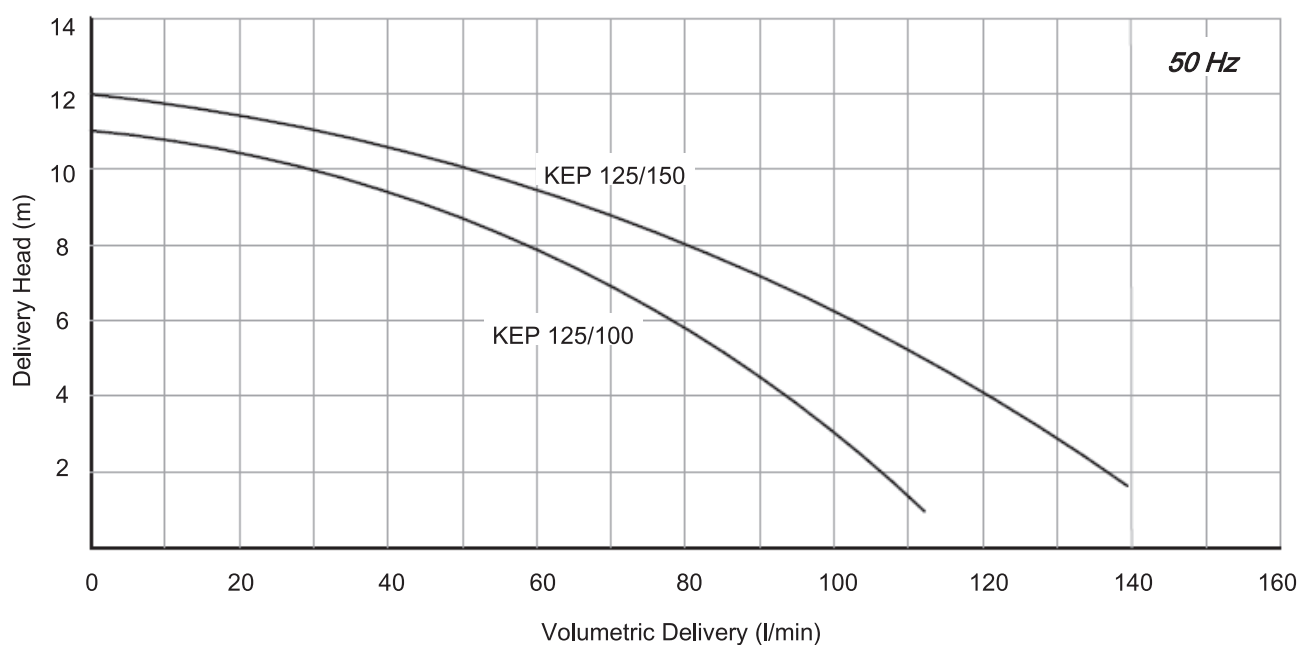
DIMENSIONS & NOMINAL VALUES

	Weight	Power	Voltage	Frequency	Rated current	Speed
TYPE	kg	kW	V(Δ/Y)	Hz	A	rpm
KEP 125/100	12.0	0.25	230/400	50	1.26/0.73	2760
KEP 125/150	12.5	0.37			2.16/1.25	2820

* The performance curves are based on 1 mm²/s (cSt) kinematic viscosity values and 997 kg/m³ density

** Curve tolerance according to ISO 9906:2012 Grade 3B.

Performance Curve



KEP 232 PUMP



Applications:

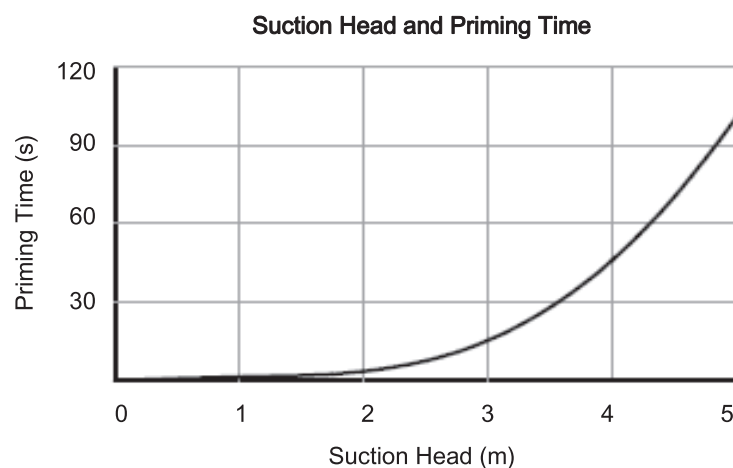
- Cutting, turning, milling, boring, grinding and similar applications of the machine tools,
- Filtration systems,
- Circulation systems.
- KEP Pumps are used for pumping of cutting / cooling fluids.

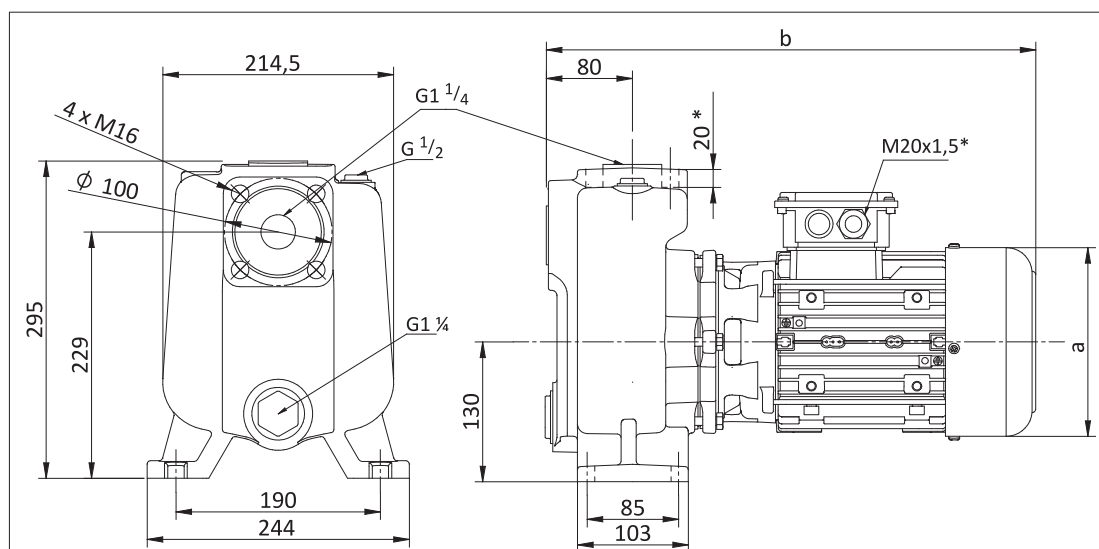
Fluid Specifications:

- Coolants,
- Cutting oils,
- Grinding oils,
- Water
- Chip containing liquids (max. 9 mm)
- Fluid temperature 0...60 °C
- Kinematic viscosity 1...30 mm²/s

Materials:

Pump body	: Cast iron - DIN GG25
Motor Flange	: Cast iron - DIN GG25
Impeller	: Cast iron - DIN GG25
Shaft	: Stainless steel - AISI 420 (DIN 1.4021)
Mechanical Seal	: C-SiC-Viton
Electric motor	: 3 phase induction motor - 2 pole, Optionally 4-pole, Protection degree IP 54





DIMENSIONS & NOMINAL VALUES

			Weight	Power	Voltage	Frequency	Rated current	Speed
TYPE	a	b	kg	kW	V(Δ/Y)	Hz	A	rpm
	mm							
KEP 232/135-4	157	411	30.5	0.55	230/400	50	2.96/1.71	1410
KEP 232/110			31.5	1.1			4.16/2.4	2890
KEP 232/120	176	430	35.5	1.5			5.72/3.3	2910
KEP 232/128		455	38.0	2.2			7.79/4.5	2905
KEP 232/135	194	485	45.0	3.0			10.39/6.0	2905

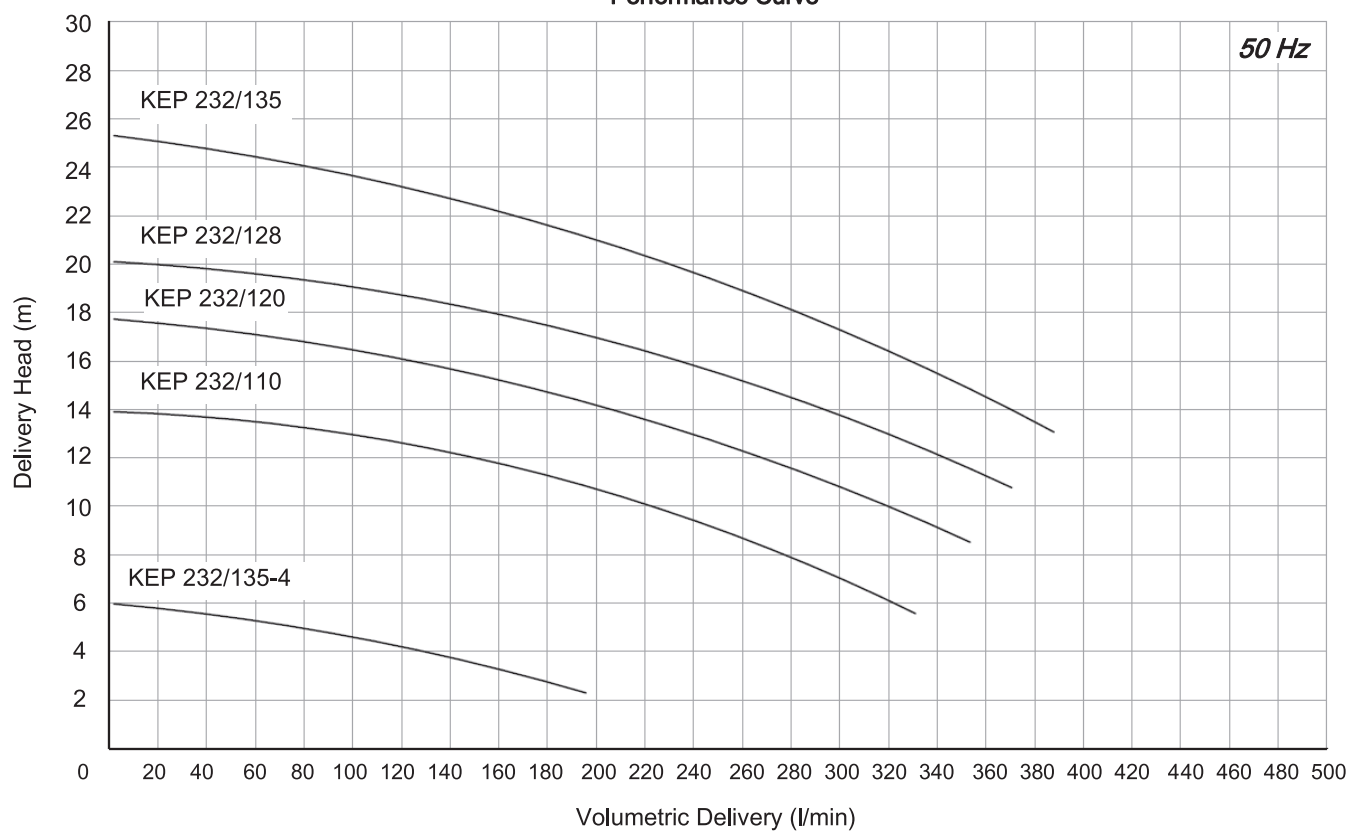
* Flange connection (DIN EN 1092-2 PN 16)

** The performance curves are based on 1 mm²/s (cSt) kinematic viscosity values and 997 kg/m³ density

*** Curve tolerance according to ISO 9906:2012 Grade 3B.

**** M16x1,5 cable gland is used on KEP 232/135-4 AND KEP 232/110 pumps.

Performance Curve



KEP 332 PUMP

Applications:

- Cutting, turning, milling, boring, grinding and similar applications of the machine tools,
- Filtration systems,
- Circulation systems.
- KEP Pumps are used for pumping of cutting / cooling fluids.

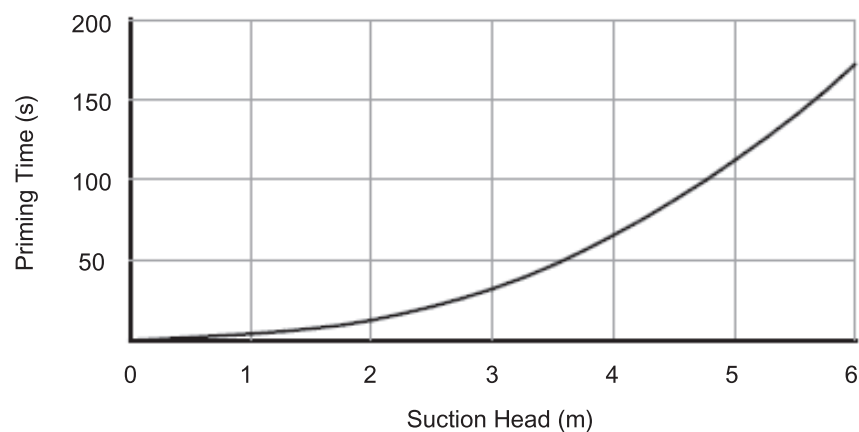
Fluid Specifications:

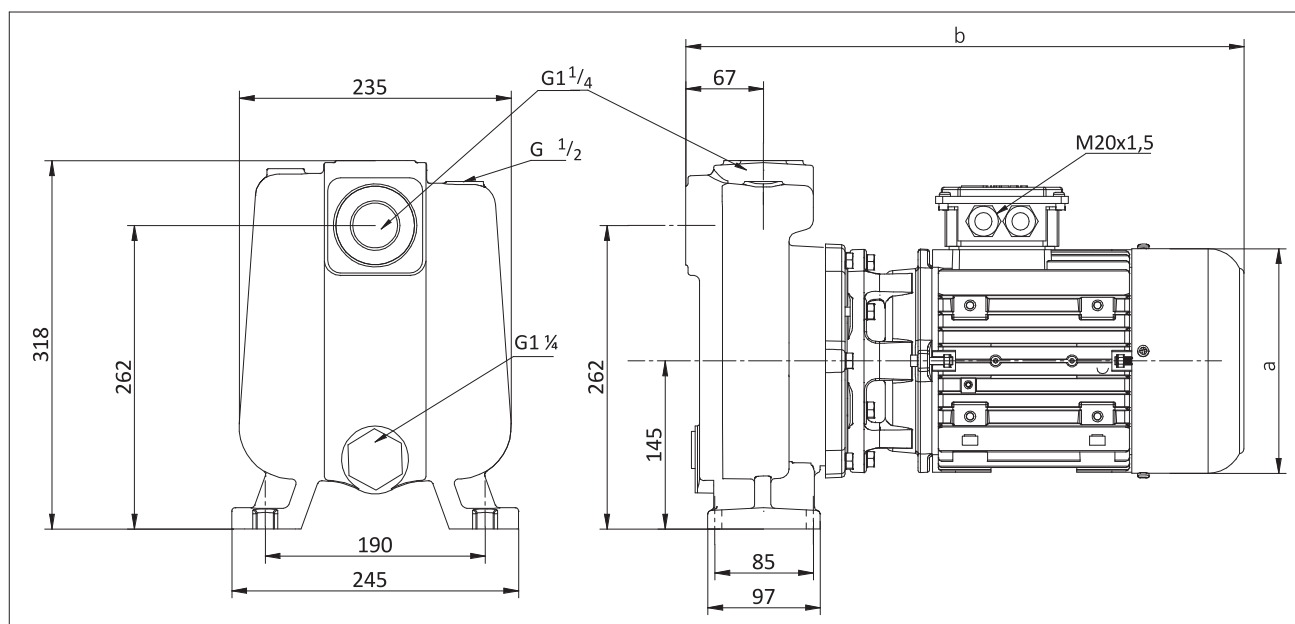
- Coolants,
- Cutting oils,
- Grinding oils,
- Water
- Chip containing liquids (max. 5 mm)
- Fluid temperature 0...60 °C
- Kinematic viscosity 1...30 mm²/s

Materials:

Pump body	: Cast iron - DIN GG25
Motor Flange	: Cast iron - DIN GG25
Impeller	: Cast iron - DIN GG25
Shaft	: Stainless steel - AISI 420 (DIN 1.4021)
Mechanical Seal	: C-SiC-Viton
Electric motor	: 3 phase induction motor - 2 pole, Protection degree IP 54

Suction Head and Priming Time





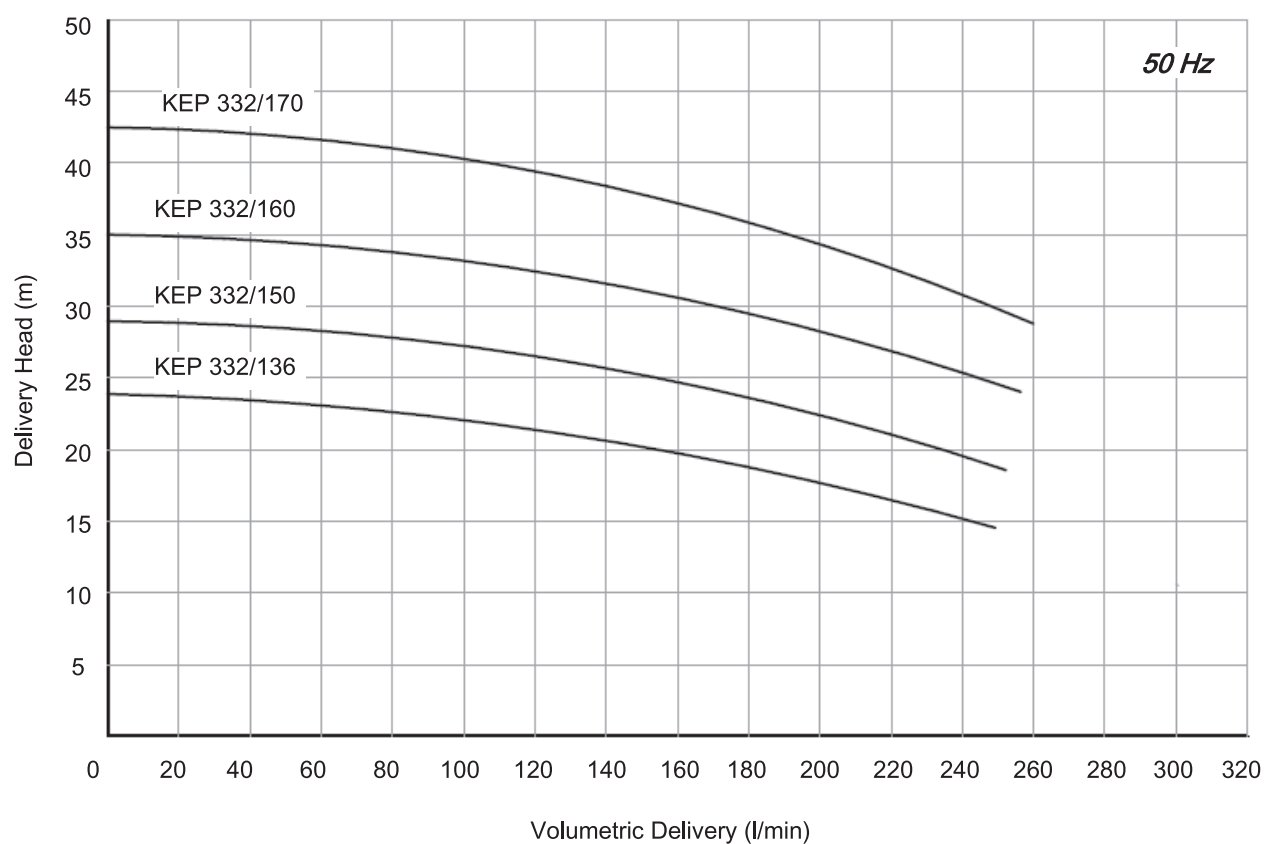
DIMENSIONS & NOMINAL VALUES

TYPE	a	b	Weight	Power	Voltage	Frequency	Rated current	Speed
	mm	mm	kg	kW	V(Δ/Y)	Hz	A	rpm
KEP 332/136	176	425	34	1.5	230/400	50	5.72/3.3	2910
KEP 332/150		445	37	2.2			7.79/4.5	2905
KEP 332/160	194	478	43	3.0			10.39/6.0	2905
KEP 332/170		478	45	4.0			13.68/7.9	2900

* The performance curves are based on 1 mm²/s (cSt) kinematic viscosity values and 997 kg/m³ density

** Curve tolerance according to ISO 9906:2012 Grade 3B.

Performance Curve



KEP 450 PUMP



Applications:

- Cutting, turning, milling, boring, grinding and similar applications of the machine tools,
- Filtration systems,
- Circulation systems.
- KEP Pumps are used for pumping of cutting / cooling fluids.

Fluid Specifications:

- Coolants,
- Cutting oils,
- Grinding oils,
- Water
- Chip containing liquids (max. 12 mm)
- Fluid temperature 0...60 °C
- Kinematic viscosity 1...30 mm²/s

Materials:

Pump body	: Cast iron - DIN GG25
Motor Flange	: Cast iron - DIN GG25
Impeller	: Cast iron - DIN GG25
Shaft	: Stainless steel - AISI 420 (DIN 1.4021)
Mechanical Seal	: C-SiC-Viton
Electric motor	: 3 phase induction motor - 2 pole Optionally 4-pole, Protection degree IP 54

Suction Head and Priming Time

