LP SERIES PUMPS

LP series pumps designed as a single stage and pumps inlet and outlet port is aligned (inline design). Therefore pump has compact design and requires small installation space.

Application Fields;

- Filter systems and recirculation applications,
- Contaminated liquids,
- Liquids containing solid particles,
- Surface washing, cleaning, degreasing,
- Machine-tool industry,
- Air–conditioning systems,
- Circulation of coolant,

Fluids;

- Water,
- Emulsions,
- Cutting oils,

Specifications;

- Due to the compact design lower installation space required.
- No back flow valve required.
- Chip size max. 8 mm,
- Easy to discharge the fluid via drain plug.
- All pumps include single mechanical seal.

Materials;

Pump Body	***- GG 25***
Motor Flange	***- GG 25***
Impeller	***- GG 25***
Pump Shaft	***- AISI 420***
Mechanical Seal	***- SiC-SiC-Viton***
O - ring	***-Viton***

Figure 32 - LP Series Pumps

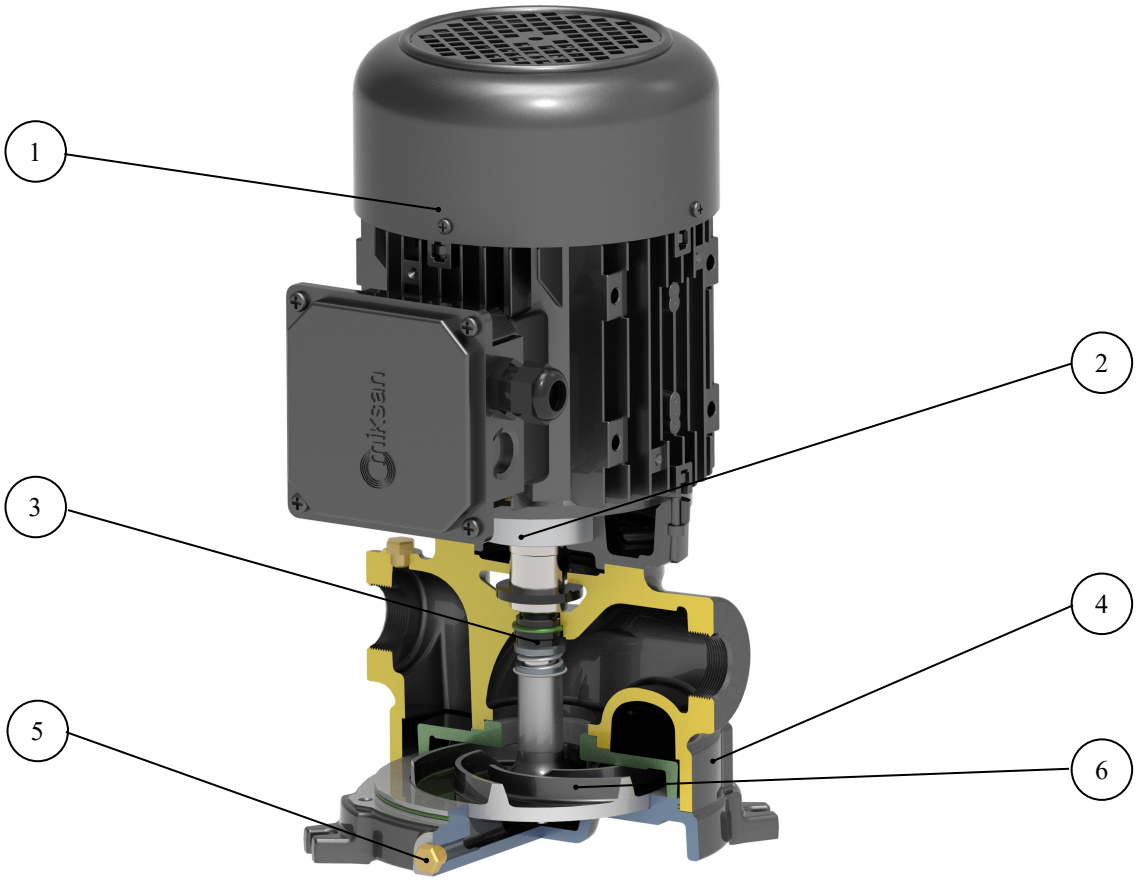


Figure 33 - LP Series Pumps Section View

1. Electric Motor

Special shaft and flange mounted electric motors are used on LP series. Impeller is directly mounted to the motor shaft.

Power of 3 phase electric motors are 2,2 kW and 1,5 kW in frame size of 90; 1,1 kW in frame size of 80; 0,75 kW and 0,55 kW in the frame size of 71; 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 SiC-SiC-Vİton. Tu-Tu-Viton mechanical seal is avaible upon request.

4. Pump Body

Compact design requires lower installation space.

5. Drain Plug

The fluid inside the pump can easily discharge via drain plug without dismantling the pump from the system.

6. Impeller

Special impeller design provides high efficiency.

LP 125 PUMP

Applications:

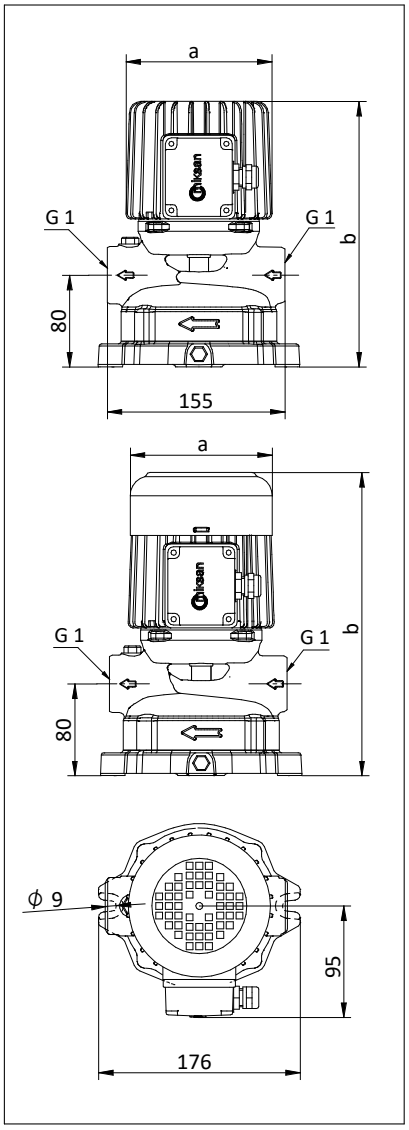
- Machine tools,
- Filtration systems,
- Circulation systems,
- Air conditioning systems,

Fluid Specifications:

- Coolants,
- Cutting oils,
- Grinding oils,
- Water
- Chip containing liquids (max. 5 mm)
- Fluid temperature 0...60 ^{o}C
- Kinematic viscosity 1...90 mm^{2}/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	: SiC-SiC-Viton
Electric motor	: 3 phase induction motor 2 pole, 3000 rpm Protection degree IP 54



DIMENSIONS & NOMINAL VALUES

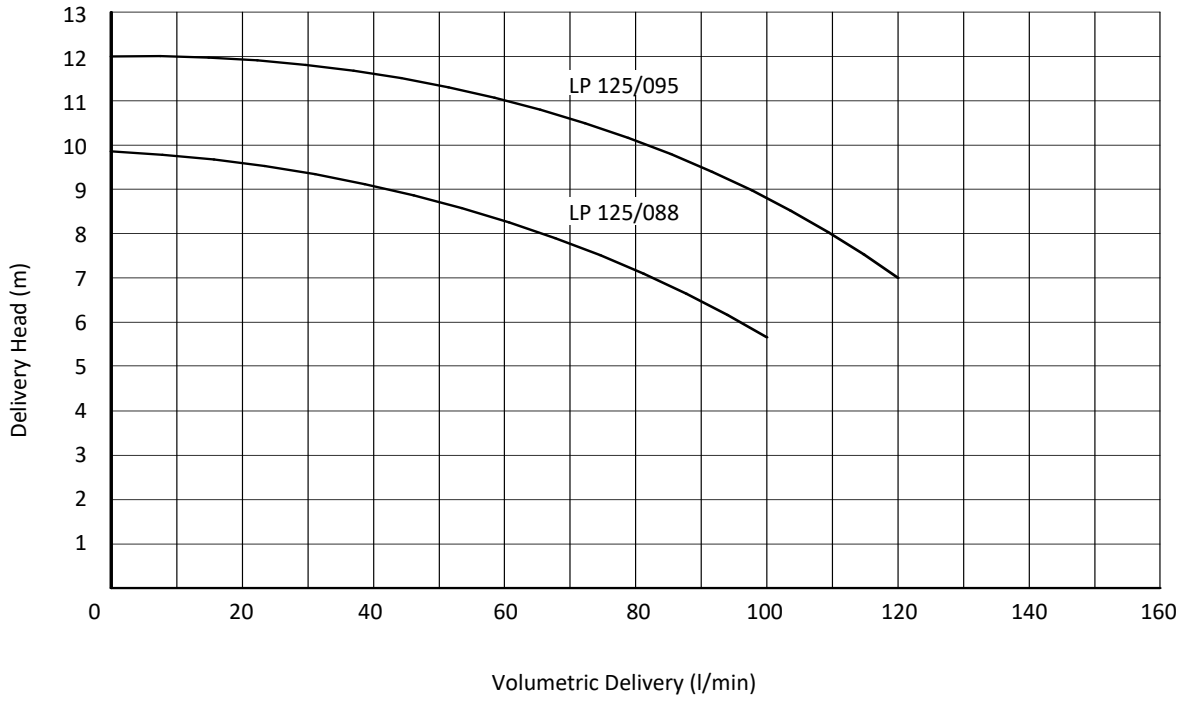
	a	b	Weight	Power	Voltage	Frequency	Rated current	Speed
TYPE	mm		kg	kW	V(Δ/Y)	Hz	A	rpm
LP 125/088	127	232	9.0	0.25	230/400	50	1.26/0.73	2760
LP 125/095	124	265	9.5	0.37			2.16/1.25	2820

* The performance curves are based on 1 mm^2/s (cSt) kinematic viscosity values and 1000 kg/m^3 density

** Curve tolerance according to EN ISO 9906.

*** LP 125/088 is provided without coolant fan.

Performance Curve



LP 225 PUMP

Applications:

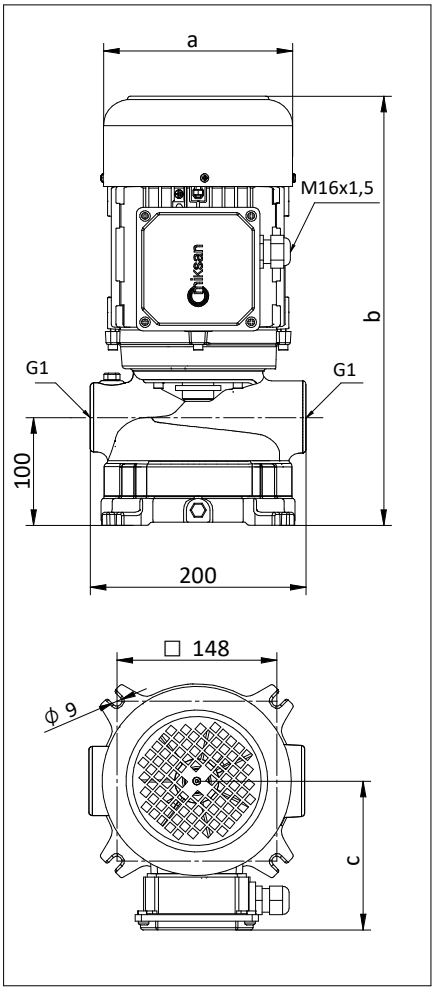
- Machine tools,
- Filtration systems,
- Circulation systems,
- Air conditioning systems,

Fluid Specifications:

- Coolants,
- Cutting oils,
- Grinding oils,
- Water
- Chip containing liquids (max. 5 mm)
- Fluid temperature 0...60 ^{o}C
- Kinematic viscosity 1...90 mm^{2}/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	: SiC-SiC-Viton
Electric motor	: 3 phase induction motor 2 pole, 3000 rpm Protection degree IP 54



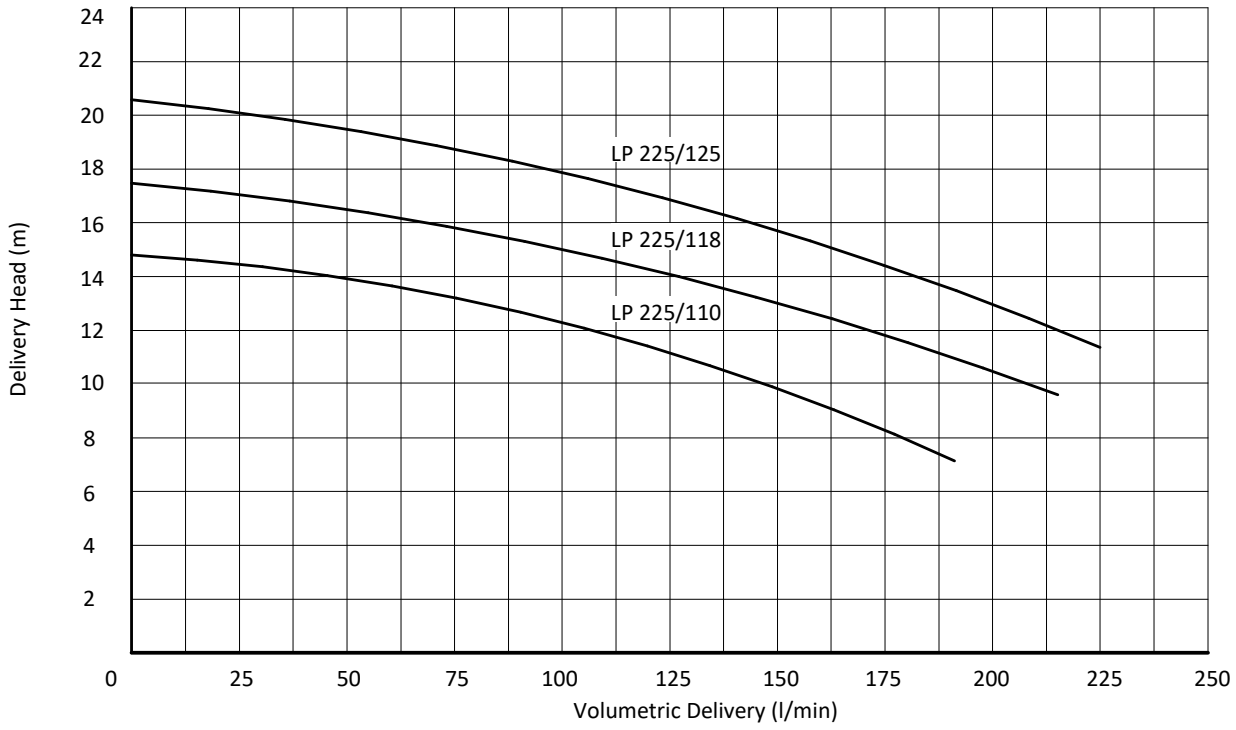
DIMENSIONS & NOMINAL VALUES

TYPE	a	b	c	Weight	Power	Voltage	Frequency	Rated current	Speed
	mm			kg	kW	V(Δ/Y)	Hz	A	rpm
LP 225/110	138	350	111	17.0	0.55	230/400	50	2.25/1.3	2780
LP 225/118				17.5	0.75			3.12/1.8	2820
LP 225/125	157	380	118	20.0	1.10			4.16/2.4	2890

* The performance curves are based on 1 mm^2/s (cSt) kinematic viscosity values and 1000 kg/m^3 density

** Curve tolerance according to EN ISO 9906.

Performance Curve



LP 232 PUMP

Applications:

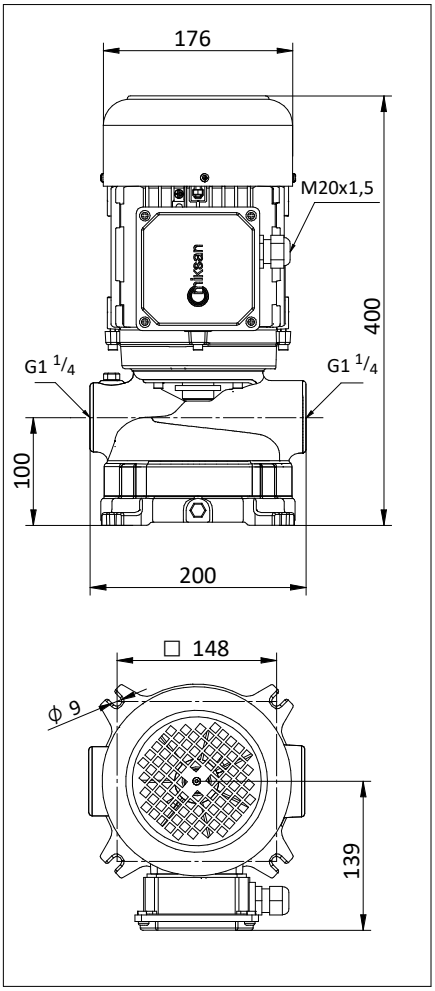
- Machine tools,
- Filtration systems,
- Circulation systems,
- Air conditioning systems,

Fluid Specifications:

- Coolants,
- Cutting oils,
- Grinding oils,
- Water
- Chip containing liquids (max. 8 mm)
- Fluid temperature 0...60 ^{o}C
- Kinematic viscosity 1...90 mm^{2}/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	: SiC-SiC-Viton
Electric motor	: 3 phase induction motor 2 pole, 3000 rpm Protection degree IP 54



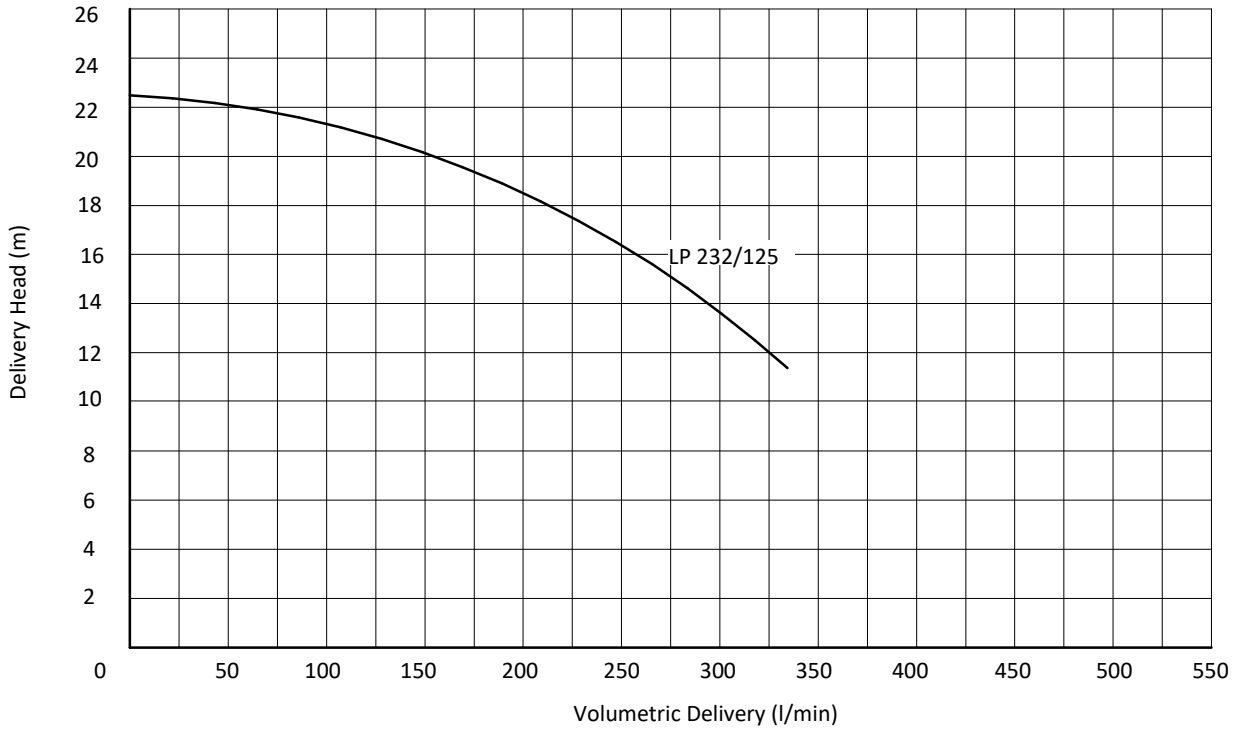
DIMENSIONS & NOMINAL VALUES

TYPE	Weight kg	Power kW	Voltage V(Δ/Y)	Frequency Hz	Rated current A	Speed rpm
LP 232/125	23.5	1.5	230/400	50	5.72/3.3	2910

* The performance curves are based on 1 mm^2/s (cSt) kinematic viscosity values and 1000 kg/m^3 density

** Curve tolerance according to EN ISO 9906.

Performance Curve



LP 240 PUMP

Applications:

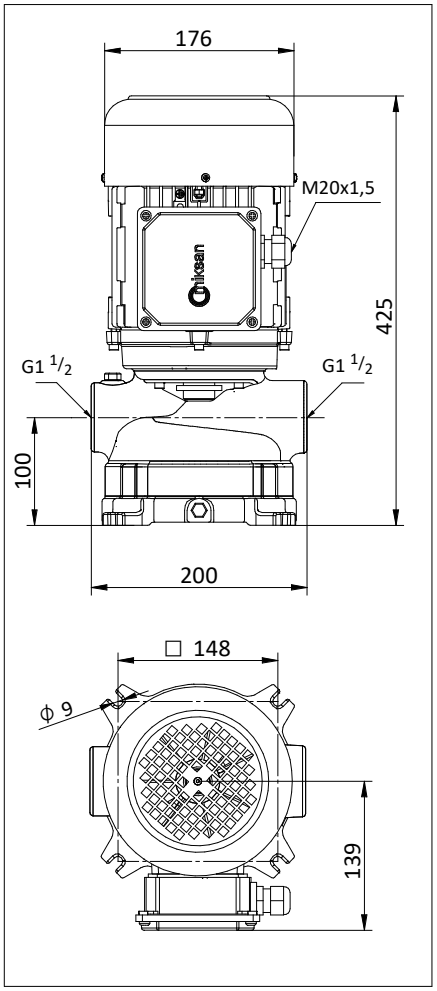
- Machine tools,
- Filtration systems,
- Circulation systems,
- Air conditioning systems,

Fluid Specifications:

- Coolants,
- Cutting oils,
- Grinding oils,
- Water
- Chip containing liquids (max. 8 mm)
- Fluid temperature 0...60 ^{o}C
- Kinematic viscosity 1...90 mm^{2}/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	: SiC-SiC-Viton
Electric motor	: 3 phase induction motor 2 pole, 3000 rpm Protection degree IP 54



DIMENSIONS & NOMINAL VALUES

TYPE	Weight kg	Power kW	Voltage V(Δ/Y)	Frequency Hz	Rated current A	Speed rpm
LP 240/125	26.0	2.2	230/400	50	7.79/4.5	2905

* The performance curves are based on 1 mm^2/s (cSt) kinematic viscosity values and 1000 kg/m^3 density

** Curve tolerance according to EN ISO 9906.

Performance Curve