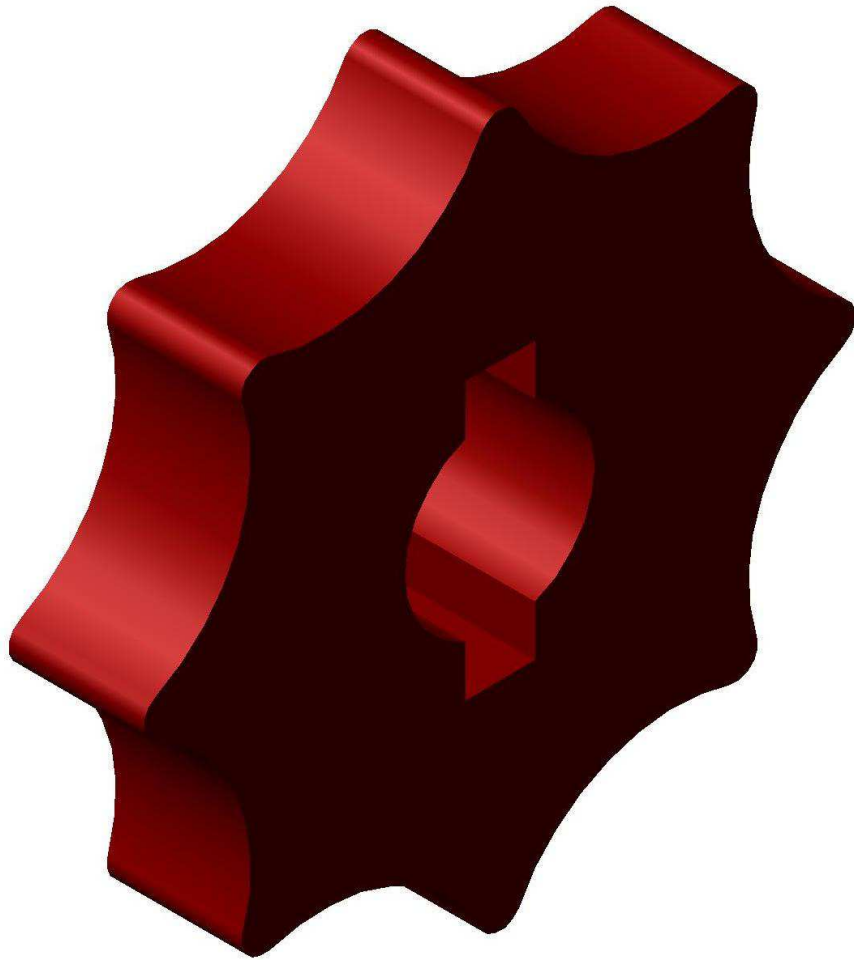




HYDRAULIC PRODUCTS CATALOG

CATALOG

HYDRAULIC PRODUCTS



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STANDARD PUMP**Description:**

It is the simplest model with the inlets and outlets located on the base of the opposite side of the drive shaft.

- Inlets and outlets diameter $\varnothing = 4$ mm and center distance of 15 mm
- 2 holes to fix the pump to the distributor and/or motor: $\varnothing = 4.1$ mm, center distance of 48 mm (the version with 4 holes is also available)

Dimensions:

- External diameter $\varnothing = 59$ mm
- Variable height according to the flow-rate from 22 to 26 mm
- Diameter shaft $\varnothing = 7$ mm with 2.5 mm drive
- Hub lid diameter $\varnothing = 20 \times 4$ mm

Technical features:

- Maximum pressure 120 bar
- Capacity from 0.3 to 2 liters / minute at 1400 rpm
- Max standard rotation speed 2800 rpm

Data refer to the following test fluid: oil with viscosity $\nu = 24$ cSt and temperature between 15°C and 20°C.

PUMP WITH EXTERNAL ADDITIONAL INTAKES**Description:**

This model has 2 additional intakes (1 for each direction of rotation), located on the lateral surface of the pump body. The typical application is to feed a cylinder with inner rod: when the cylinder is operating, the pump first takes the volume into the other chamber then, to compensate the volume difference due to the presence of the rod, it takes the tank content in as well.

- The orientation of supplementary intakes is assigned to the client
- Center distance of the inlets and outlets, diameter $\varnothing = 4$ mm, is assigned to the client
- 2 holes to fix the pump to the distributor and/or engine: $\varnothing = 4.1$ mm, center distance 48 mm (a version with 4 holes is also available)
- Orientations and center distances already in production:

Orientations of supplementary intakes
45° angle (see the picture)
Parallel inlet and outlet (see the picture)
25° angle
180° angle
Center distance of the inlets and outlets
15 mm
20 mm
24 mm

Dimensions:

- External diameter $\varnothing = 59$ mm
- Variable height, according the flow rate from 30 to 34 mm
- Diameter shaft $\varnothing = 7$ mm with 2.5 mm drive



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- Hub lid diameter $\varnothing = 20 \times 4$ mm

Technical features:

- Maximum pressure 120 bar
- Flow-rate from 0.3 to 2 liters / minute at 1400 rpm
- Max standard rotation speed 2800 rpm

Data refer to the following test fluid: oil with viscosity $\nu = 24$ cSt and temperature between 15°C and 20°C.



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HYDRAULIC PRODUCTS CATALOG PUMP WITH INTERNAL ADDITIONAL INTAKES



Description:

The model has 2 additional intakes (1 for each direction of rotation), located on the inside of the pump body.

The typical application is to feed a cylinder with inner rod: when the cylinder is operating, the pump first takes the volume into the other chamber, then, to compensate the volume difference due to the presence of the rod, it takes the content of the tank in as well.

- Inlets and outlets diameter $\varnothing = 4$ mm and center distance 15 mm
- 2 holes to fix the pump to the distributor and/or engine: $\varnothing = 4.1$ mm, center distance 48 mm (a version with 4 holes is also available)

Dimensions:

- External diameter $\varnothing = 59$ mm
- Variable height, according to flow capacity from 29 to 33 mm
- Diameter shaft $\varnothing = 7$ mm with 2.5 mm drive
- Hub lid diameter $\varnothing = 20 \times 4$ mm

Technical features:

- Maximum pressure 100 bar
- Capacity from 0.3 to 2 liters / minute at 1400 rpm
- Max standard rotation speed 2800 rpm

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PUMP WITH ADDITIONAL INTAKES AND FLANGE BASE**Description:**

This model has 2 additional intakes (1 for each direction of rotation), located on the inside of the pump body. The pump body has 4 additional holes for fastening operations.

The typical application is to feed a cylinder with inner rod: when the cylinder is operating, the pump first takes the volume into the other chamber, then, to compensate the volume difference due to the presence of the rod, it takes the content of the tank in as well.

- Inlets and outlets diameter $\varnothing = 4$ mm and center distance 20 mm
- 2 holes to fix the pump to the distributor and/or engine: $\varnothing = 4.1$ mm, center distance of 48 mm (a version with 4 holes is also available)
- 4 additional fixing holes of $\varnothing = 5.2$ mm, center distance of 50 mm

Dimensions:

- Square base, side 62 mm
- Lid diameter $\varnothing = 59$ mm
- Variable height, according to flow rate from 29 to 33 mm
- Diameter shaft $\varnothing = 7$ mm with 2.5 mm drive
- Hub lid diameter $\varnothing = 20 \times 4$ mm

Technical features:

- Maximum pressure 120 bar
- Capacity from 0.3 to 2 liters / minute at 1400 rpm
- Max standard rotation speed 2800 rpm

Data refer to the following test fluid: oil with viscosity $\nu = 24$ cSt and temperature between 15°C and 20°C.

HIGH CAPACITY PUMP**Description:**

The inlets and outlets are located on the base, while the input shaft can come out from the same side or the opposite side. This type of pumps gives priority to the flow-rate; this is possible thanks to higher displacement and the possibility to work with higher rotation speeds.

- Inlet diameter $\varnothing = 10$ or $\varnothing = 14$ mm according to the model
- Outlet diameter $\varnothing = 10$ or $\varnothing = 14$ mm according to the model
- Inlet and outlet center distance 24 or 25 mm according to the model
- Pump fastening to the distributor or the engine by means of the pump screws

Dimensions and technical features:

- External diameter $\varnothing = 59$ mm
- Variable height, according to flow rate from 19 to 37 mm
- Diameter shaft $\varnothing = 7$ mm with 2.5 mm drive
- Max standard rotation speed 7000 rpm

Data refer to the following test fluid: oil with viscosity $\nu = 24$ cSt and temperature between 15°C and 20°C.

CONTINUOUS CONTROL UNIT**Description:**

This control unit is the combination between one of the PMPO pumps and an electric motor. Two screwed holes for the inlets and outlets are located on the front lid.

Technical features:

Electric motor:	three-phase asynchronous T63C or single-phase asynchronous M63C
Electric supply:	230 V / 400 V – 50 Hz according to the model
Useful output power:	0.22 kW / 0.25 kW according to the model
Absorbed current:	1.6 A / 1.4 A according to the model
Degree of protection:	IP 55
Condenser:	10 μ F
Motor rotation speed:	1380 rpm / 2800 rpm according to the model
Maximum pressure:	100 bar
Standard flow-rates:	from 0.5 to 12.5 liters / minute
Inlet and outlet connections:	2 holes G 1 / 2 “
Dimensions:	from 285 x 125 x 158 mm to 322 x 125 x 158 mm (L x W x H)

Data refer to the following test fluid: oil with viscosity $\nu = 24$ cSt and temperature between 15°C and 20°C

CONTINUOUS CONTROL UNIT WITH INVERTER**Description:**

This oil-pressure control unit is extremely versatile, thanks to the reduced bulkiness, the type of power supply and the achievable flow rate values. The variable-capacity control unit has an on-off switch and a knob with a scale to select the desired flow-rate (variable capacity). This product is quiet and reliable, like all P.M.P.O pumps.

Standard technical features:

Weight:	10 Kg
Dimensions:	300 x 200 x 250 mm (L x W x H)
Electric supply:	220 V
Inlet hose:	G 1 / 2"
Outlet hose:	G 1 / 2"
Capacity at 1000 rpm:	4 liters/minute at 3 bar
Capacity at 4200 rpm:	12 liters/minute at 3 bar
Self-priming:	until 1 m of difference of level
Maximum pressure:	20 bar

Data refer to the following test fluid: oil with viscosity $\nu = 24$ cSt and temperature between 15°C and 20°C.

ALTERNATE MICRO CONTROL UNIT**Description:**

It is a compact unit including: an electric motor, a tank, a pump, a distributor, an electric connector and both inlet and outlet connectors. The application is perfect for a cyclical lubrication (working time 1 minute, out of operation time 5 minutes).

Technical features:

Dimensions:	105 x 85 x 135 mm (L x P x H)
Electric motor:	class h two-phase
Electric supply:	220 V – 50 Hz
Useful output power:	0.25 CV
Absorbed current:	1.2 A
Degree of protection:	IP 65
Condenser:	10 μ F
Maximum pressure:	30 bar
Working temperature:	-30° / +80°C
Flow-rate:	from 0.5 to 1 L/ minute

Data refer to the following test fluid: oil with viscosity $\nu = 24$ cSt and temperature between 15°C and 20°C.

ROTARY PISTON**Description:**

Rotary oil-pressure piston with electric motor, tank, pump, distributor, electrical connector, foundation box, adjustable locking device, adjustable stroke-end shock absorber.

Technical features:

Electric motor:	class h two-phases
Electric supply:	220 V – 50 Hz
Useful output power:	0.25 CV
Absorbed current:	1.2 A
Degree of protection:	IP 65
Condenser:	10 μ F
Power consumption:	250 W
Maximum pressure:	30 bar
Working temperature:	-30° / +80°C
Maximum torque:	250 Nm
Motor rotation speed:	1400 / 2800 rpm according to the model
Rotation speed:	12 “ “
Braking time:	0 – 8 “ “
Spindle rotation:	120°
Dimensions:	212 x 226 x 212 mm (L x P x H)

Compliant to UNI 8612 safety regulations

Data refer to the following test fluid: oil with viscosity $\nu = 24$ cSt and temperature between 15°C and 20°C.

HEAT EXCHANGER WITH HYDRAULIC MOTOR**Description:**

Air-oil heat exchanger with oil-pressure motor. Oil is cooled through an air flux, generated by a hydraulic lobe-type motor. Besides guarantying **high efficiency** in the heat energy removal, this heat exchanger operates at a **low acoustic threshold**.

It is extremely **handy** since no plugging can occur for dust or other substances. Its aluminum structure allows operation in hostile environments as well.

Technical features:

Weight:	17.5 Kg
Dimensions:	515 x 200 x 240 mm (L x P x H)
Heat exchange surface:	0.7 m ²
Inlet hose:	G 1 / 4"
Outlet hose:	G 1 / 4"
Incoming oil pressure:	between 10 and 150 bar
Outgoing oil pressure:	0.5 bar max.
Flow-rate::	6 lt/min