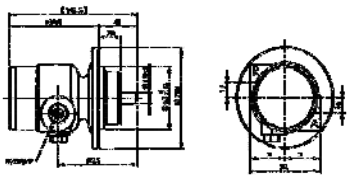

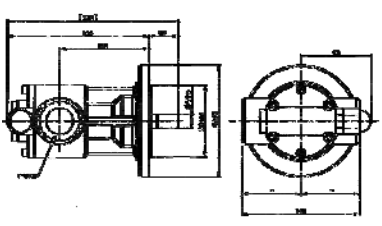

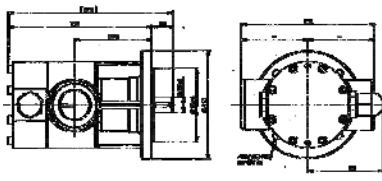

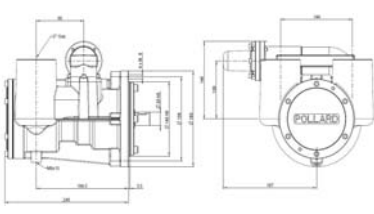
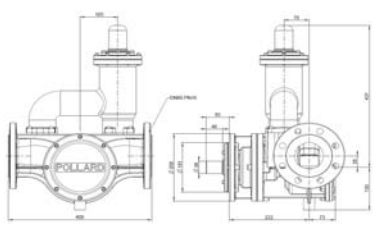




POMPES ET MOTORPOMPES

PUMPS AND MOTOR PUMPS / PUMPEN UND MOTORPUMPEN /
BOMBAS Y MOTOBOMBAS / 普通泵和电动泵 / НАСОСЫ И МОТОПОМПЫ

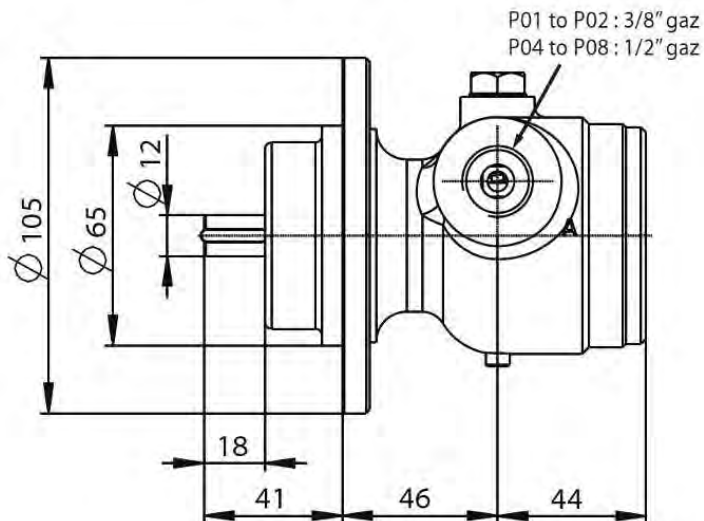
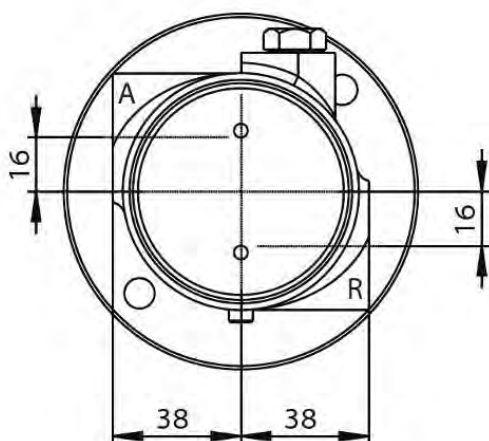
PUMP-RANGE PRESENTATION

SKETCH (mechanical seal)	Ref	Flow in L/min at 1 500 rpm	Connections	Option available	Sealing-type	Shaft end	By-pass (option)
	P01	2,4 L/min	G 3/8"	 Exist in PLN version IN/OUT inline	Mechanical or lip seal or packing or magnetic	Screw or key or plain	Built-in
	P02	3 L/min					
	P04	6 L/min	G 1/2"				
	P06	9 L/min					
	P08	11 L/min					
	P10	15 L/min	G 1"	 Exist in PLN version IN/OUT inline	Mechanical or lip seal or packing or magnetic	Screw or key or plain	yes
	P16	24 L/min					
	P20	30 L/min					
	P25	37 L/min					
	P40	60 L/min	G 1"1/4	 Exist in PLN Version IN/OUT inline	Mechanical or packing or magnetic	Screw or key or plain	yes
	P60	90 L/min					
	P67	100 L/min					
	P82	116 L/min	G 2"		Mechanical	Screw or key or plain	yes
	P95	133 L/min					
	P107	150 L/min					
	P118	166 L/min					
	P130	183 L/min					
	P142	200 L/min					
	P258	250 L/min	DN80		Mechanical	Screw or key or plain	yes
	P344	333 L/min					
	P431	416 L/min					
	P516	500 L/min					

P01-P02-P04-P06-P08



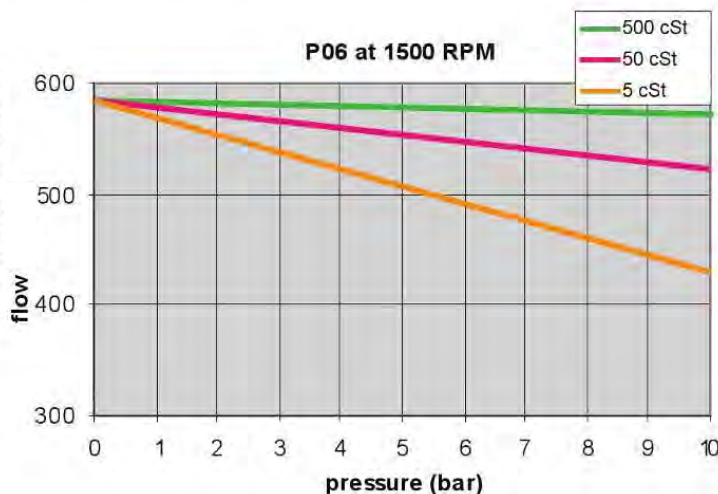
Range flow in m3/h	0 - 1,45
Speed rotation range in RPM	0 - 3000*
Fluid viscosity range in cSt	1 - 10000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	10
Standard operating temperature in °C	-20 / +150
Body and stator materials	Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	65 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a pump P06 (6cm3 by rotation) for a P04 it is necessary to multiply by 4 and to divide by 6 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

*** Board viscosity/speed**

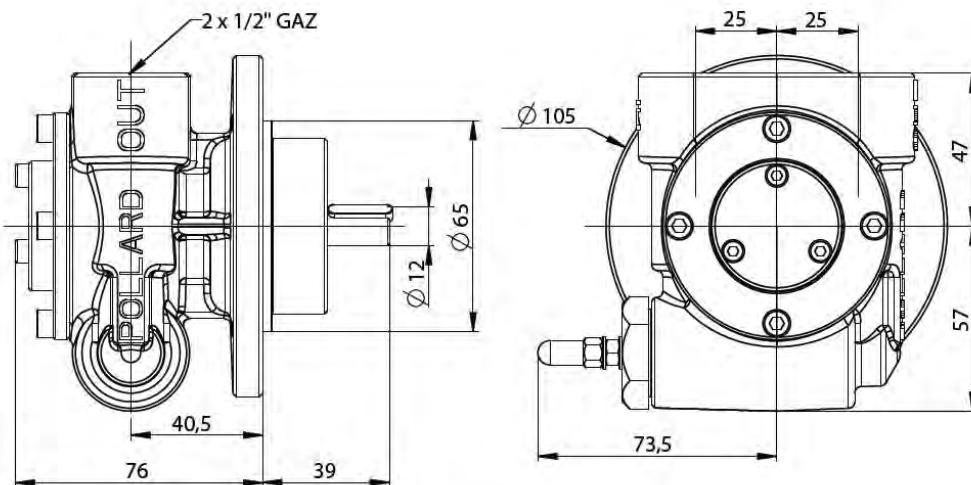
viscosity (cSt)	maximum speed (RPM)
from 0 to 500	3000
from 500 to 1000	1500
from 1000 to 3000	1000
from 3000 to 5000	750
from 5000 to 10000	500
> 10000	200



PLN04-PLN06-PLN08



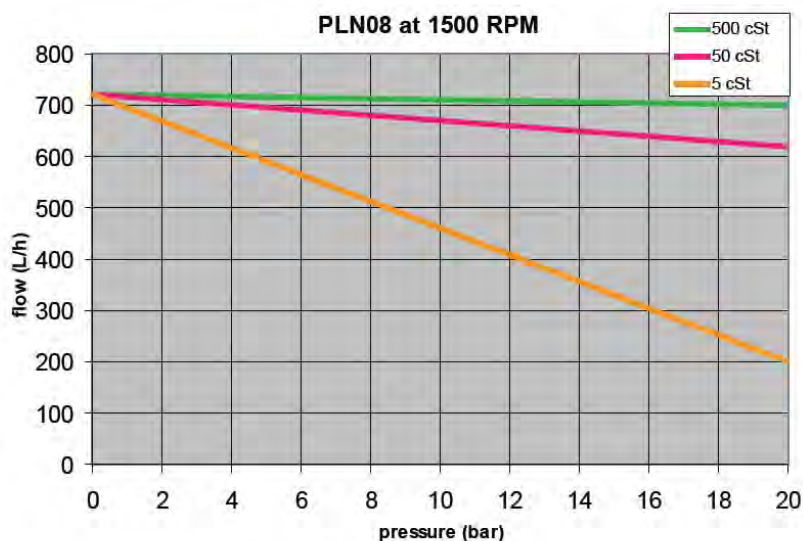
Range flow in m3/h	0 - 1,45
Speed rotation range in RPM	0 - 3000*
Fluid viscosity range in cSt	1 - 10000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	20
Standard operating temperature in °C	-20 / +150
Body and stator materials	Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	60 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a pump PLN08 (8cm3 by rotation) for a PLN04 it is necessary to multiply by 4 and to divide by 8 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

* Board viscosity/speed

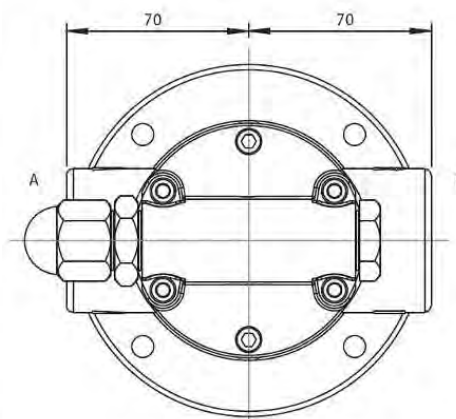
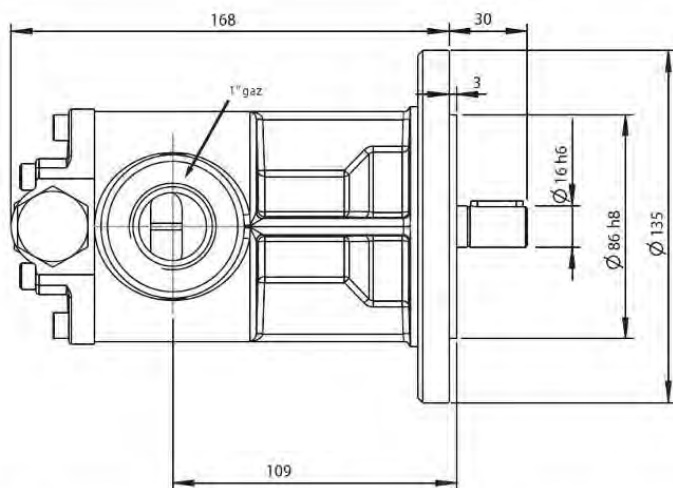
viscosity (cSt)	maximum speed (RPM)
from 0 to 500	3000
from 500 to 1000	1500
from 1000 to 3000	1000
from 3000 to 5000	750
from 5000 to 10000	500
> 10000	200



P10-P16-P20-P25



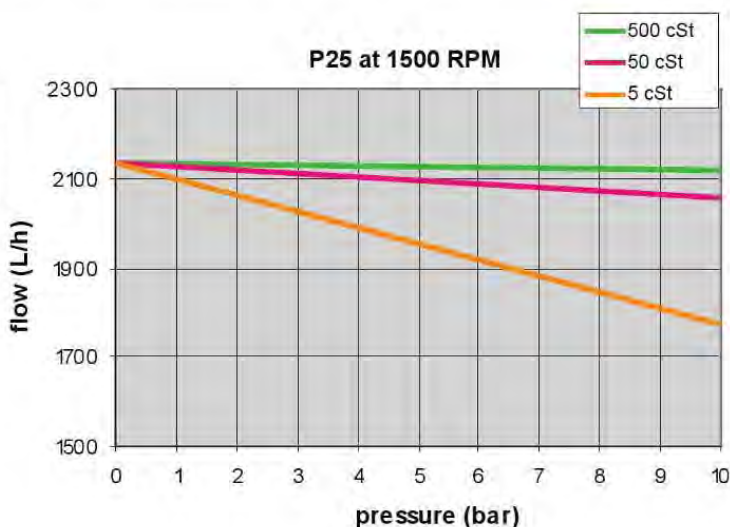
Range flow in m3/h	0 - 2,25
Speed rotation range in RPM	0 - 1500*
Fluid viscosity range in cSt	1 - 10000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	10
Standard operating temperature in °C	-20 / +150
Body and stator materials	Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	70 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a pump P25 (25cm³ by rotation) for a P10 it is necessary to multiply by 10 and to divide by 25 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

*** Board viscosity/speed**

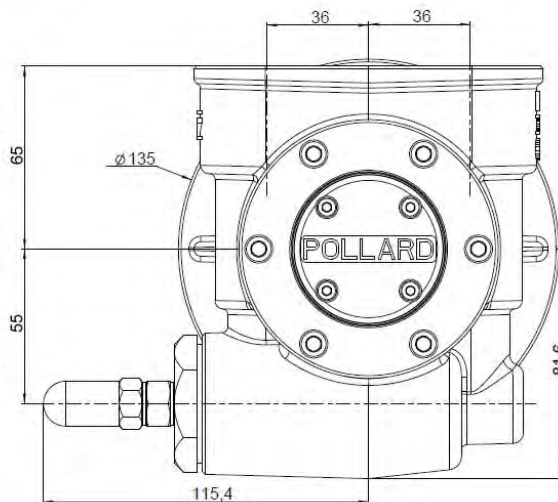
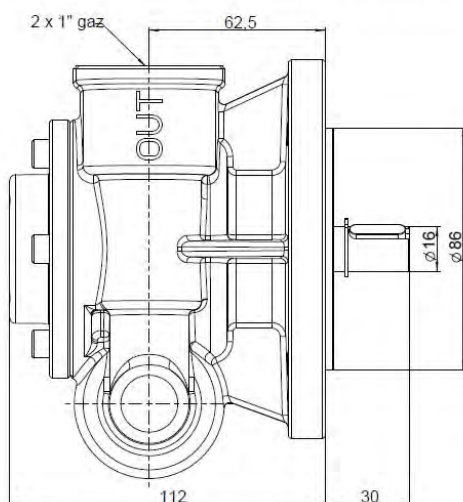
viscosity (cSt)	maximum speed (RPM)
from 0 to 1000	1500
from 1000 to 3000	1000
from 3000 to 5000	750
from 5000 to 10000	500
> 10000	200



PLN10-PLN16-PLN20-PLN25



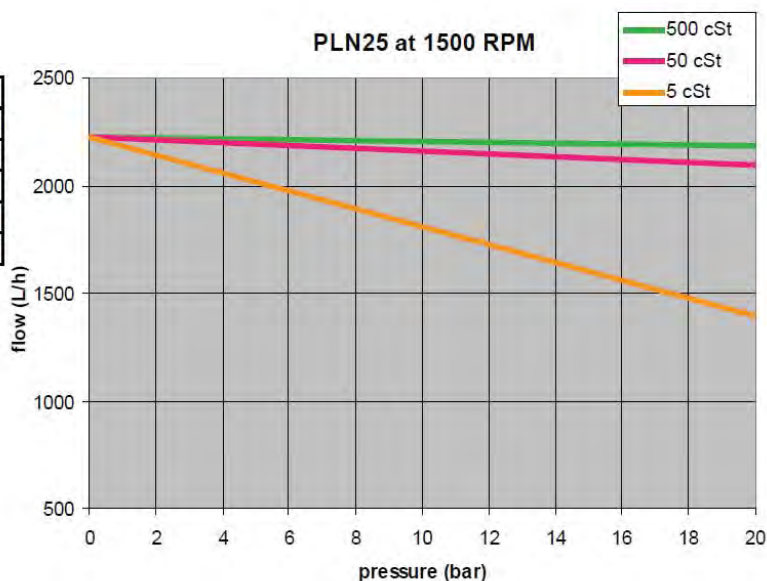
Range flow in m3/h	0 - 2,25
Speed rotation range in RPM	0 - 1500*
Fluid viscosity range in cSt	1 - 10000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	20
Standard operating temperature in °C	-20 / +150
Body and stator materials	Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	65 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a pump PLN25 (25cm³ by rotation) for a PLN10 it is necessary to multiply by 10 and to divide by 25 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

* Board viscosity/speed

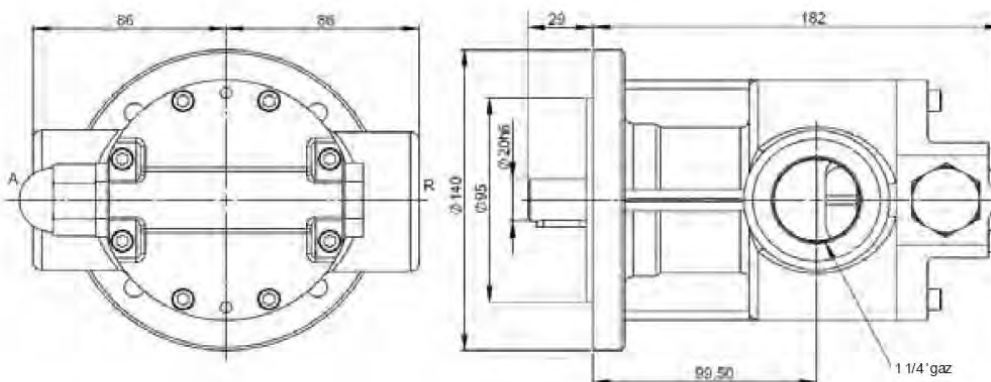
viscosity (cSt)	maximum speed (RPM)
from 0 to 1000	1500
from 1000 to 3000	1000
from 3000 to 5000	750
from 5000 to 10000	500
> 10000	200



P40-P60-P67



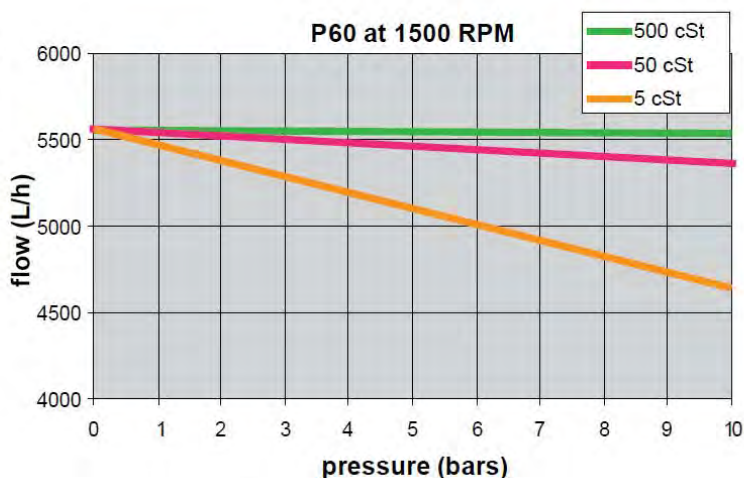
Range flow in m3/h	0 - 6
Speed rotation range in RPM	0 - 1500*
Fluid viscosity range in cSt	1 - 10000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	10
Standard operating temperature in °C	-20 / +150
Body and stator materials	Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	75 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a pump P60 (60cm3 by rotation) for a P30 it is necessary to multiply by 30 and to divide by 60 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

* Board viscosity/speed

viscosity (cSt)	maximum speed (RPM)
from 0 to 1000	1500
from 1000 to 3000	1000
from 3000 to 5000	750
from 5000 to 10000	500
> 10000	200

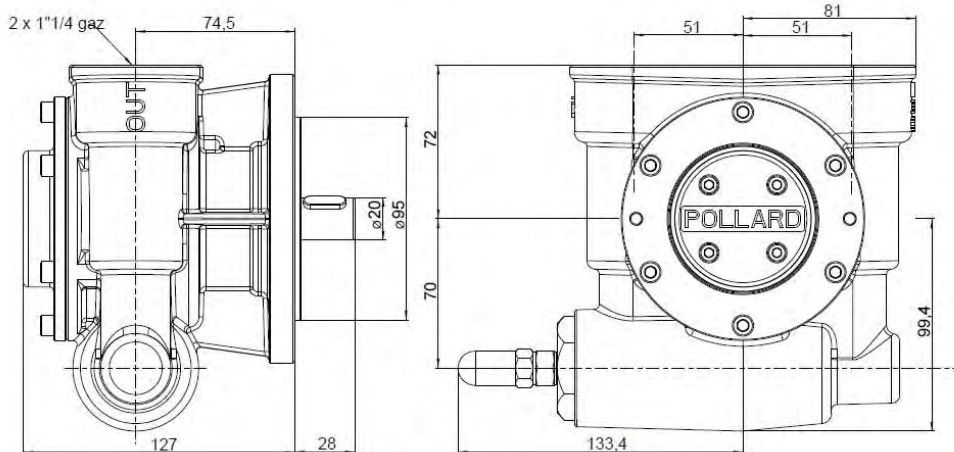


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PLN30-PLN40-PLN60-PLN67



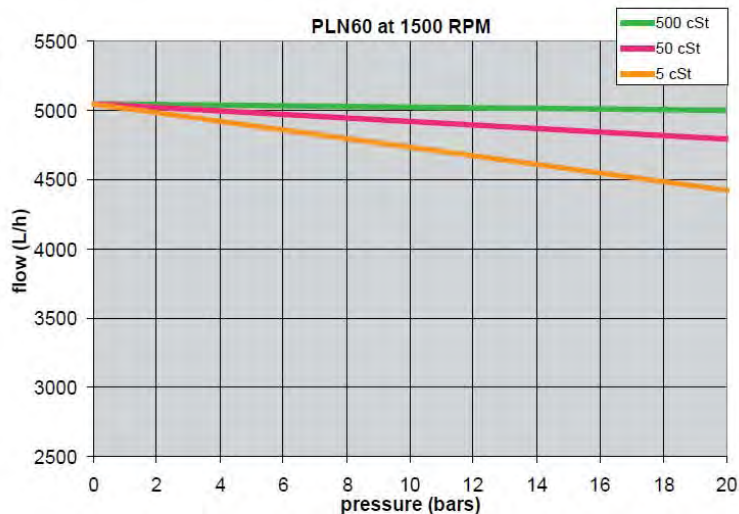
Range flow in m3/h	0 - 6
Speed rotation range in RPM	0 - 1500*
Fluid viscosity range in cSt	1 - 10000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	20
Standard operating temperature in °C	-20 / +150
Body and stator materials	Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	70 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a pump PLN60 (60cm3 by rotation) for a PLN30 it is necessary to multiply by 30 and to divide by 60 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

* Board viscosity/speed

viscosity (cSt)	maximum speed (RPM)
from 0 to 1000	1500
from 1000 to 3000	1000
from 3000 to 5000	750
from 5000 to 10000	500
> 10000	200

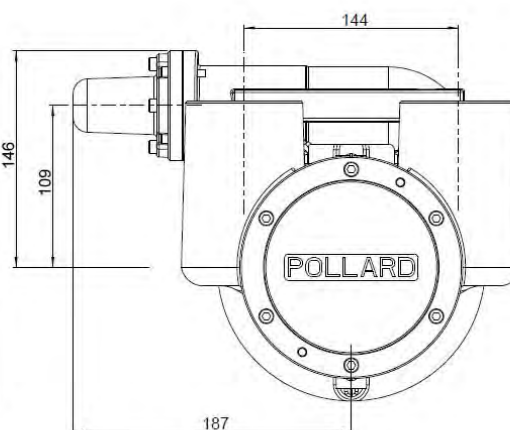
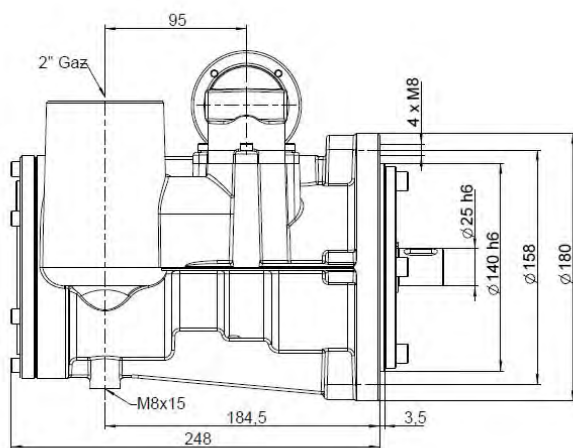


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P82-P95-P107-P118-P130-P142



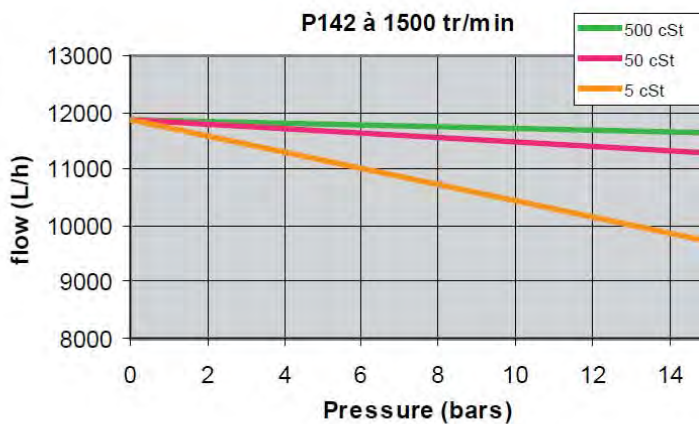
Range flow in m3/h	0 - 12
Speed rotation range in RPM	0 - 1500*
Fluid viscosity range in cSt	1 - 10000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	15
Standard operating temperature in °C	-20 / +150
Body and stator materials	Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	80 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a pump P142 (142cm3 by rotation) for a P82 it is necessary to multiply by 82 and to divide by 142 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

* Board viscosity/speed

viscosity (cSt)	maximum speed (RPM)
from 0 to 1000	1500
from 1000 to 3000	1000
from 3000 to 5000	750
from 5000 to 10000	500
> 10000	200

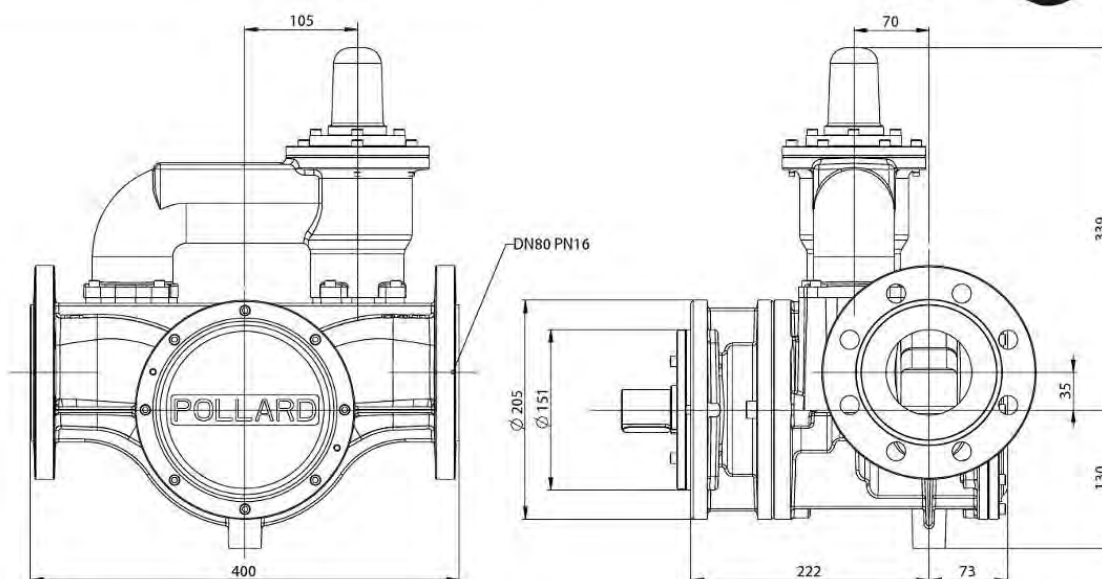


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P258-P344-P431-P516



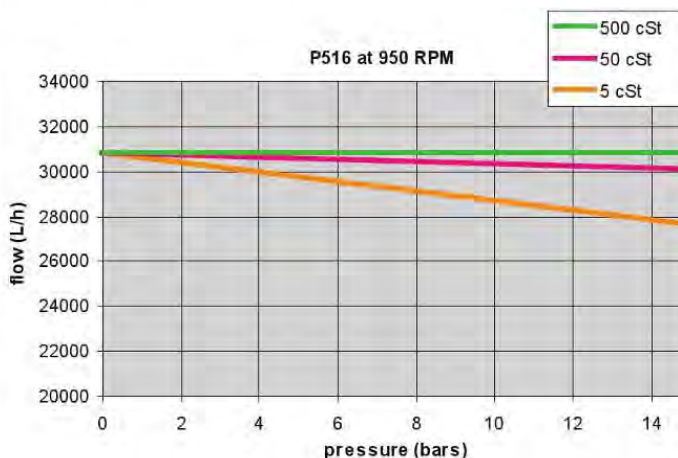
Range flow in m3/h	0 - 30
Speed rotation range in RPM	0 - 950*
Fluid viscosity range in cSt	1 - 10000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	15
Standard operating temperature in °C	-20 / +150
Body and stator materials	Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	90 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a pump P516 (516cm3 by rotation) for a P258 it is necessary to multiply by 258 and to divide by 516 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

*** Board viscosity/speed**

viscosity (cSt)	maximum speed (RPM)
from 0 to 1000	950
from 1000 to 3000	750
from 3000 to 5000	500
from 5000 to 10000	250
> 10000	100



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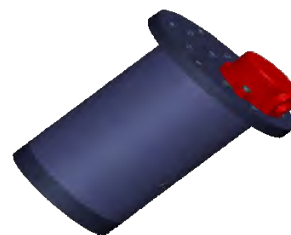
Motorpump-range presentation

MMP 70-140-200

Max discharge 200 L/hour

Max work pressure 5 bar

Special compact pumps 188 x 122 mm

**MP 01-MP 06**

Max discharge 680 L/hour

Max work pressure 10 bar

Optional extra: PLN version, reverse plus system
packing or magnetic seal

By-pass

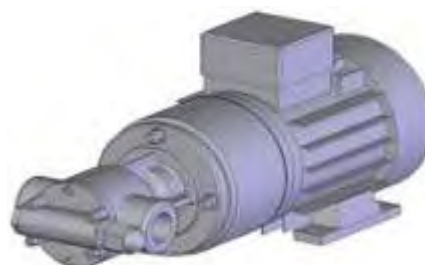
**MP 10-MP 25**

Max discharge 2 300 L/hour

Max pressure 10 bar

Optional extra: PLN version, reverse plus system
packing or magnetic seal

By-pass

**MP 40-MP 67**

Max discharge 6 000 L/hour

Max pressure 10 bar

Optional extra: PLN version, reverse plus system
packing or magnetic seal

By-pass

**MP 82-MP 142**

Max discharge 12 000 L/hour

Max pressure 5 bar

Optional extra : By-pass

**MP 258-MP 516**

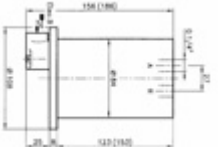
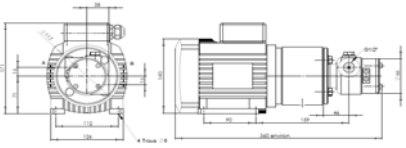
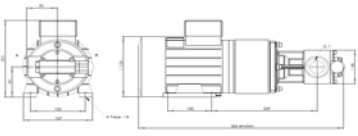

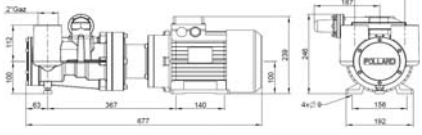
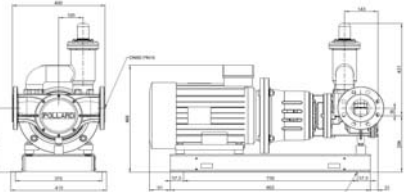
Max discharge 30 000 L/hour

Max pressure 5 bar

Optional extra : By-pass

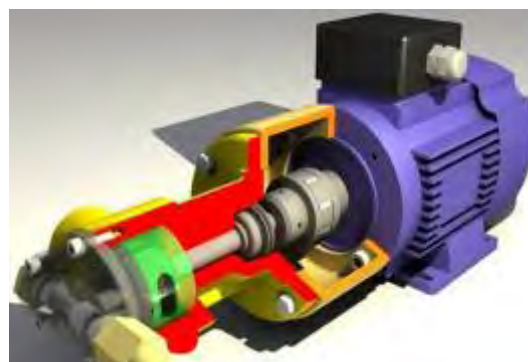


MOTORPUMPS

SKETCH (mechanical seal)	Ref Motorpumps	Flow in L/h at 1 500rpm	Power in KW (standard is 5 bar)	Connections	By-pass (option)
	MMP 70	1,1	40w (built-in)	G 1/4"	No
	MMP 140	2,4			
	MMP 200	3	100w (built-in)		
	MP 01	2,4	0,37 kW	G 3/8"	serial
	MP 02	3			
	MP 04	6	0,37 kW	G 1/2"	
	MP 06	9			
	MP 10	15	0,75 kW	G 1"	Yes
	MP 16	24			
	MP 25	37			
	MP 40	60	1,1 kW	G 1"1/4	Yes
	MP 60	90	1,5 kW		
	MP 82	116	2.2 kW	G 2"	Yes
	MP 95	133			
	MP 107	150	3 kW		
	MP 118	166			
	MP 130	185			
	MP 142	200			
	MP 258	250	7.5 kW	DN 80	Yes
	MP 344	333	11 kW		
	MP 431	416			
	MP 516	500			

The motor pumps are fitted with multi-tension /multi frequencies:

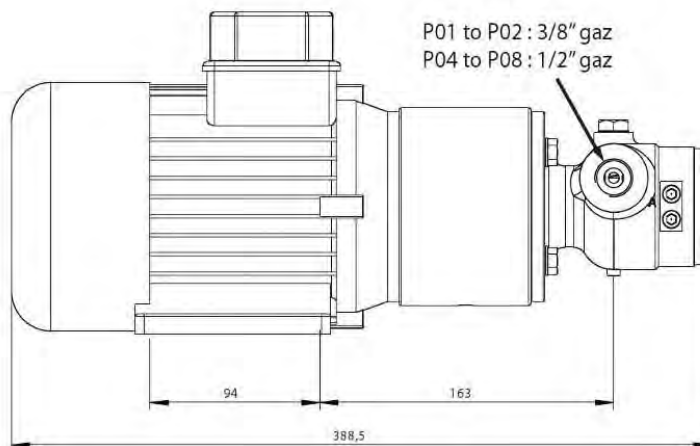
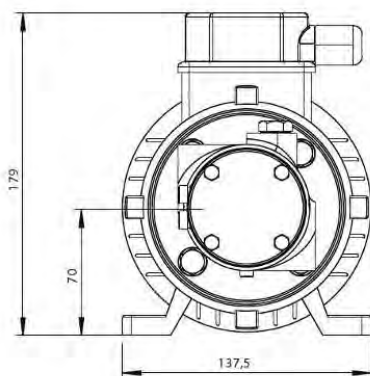
230-400V 50HZ	255-440V 60HZ
240-415V 50HZ	265-460V 60HZ
	280-480V 60HZ



MP01-MP02-MP04-MP06-MP08



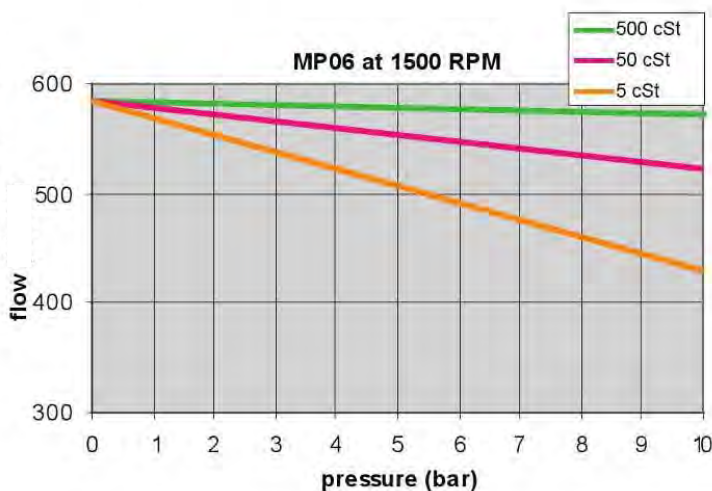
Range flow in m3/h	0 - 1,45
Speed rotation range in RPM	0 - 3000*
Fluid viscosity range in cSt	1 - 5000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	10
Standard operating temperature in °C	-20 / +150
Body and stator materials	Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	65 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a motor-pump MP06 (6cm3 by rotation) for a MP04 it is necessary to multiply by 4 and to divide by 6 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

*** Board viscosity/speed**

viscosity (cSt)	maximum speed (RPM)
from 0 to 500	3000
from 500 to 1000	1500
from 1000 to 3000	1000
from 3000 to 5000	750
from 5000 to 10000	500
> 10000	200

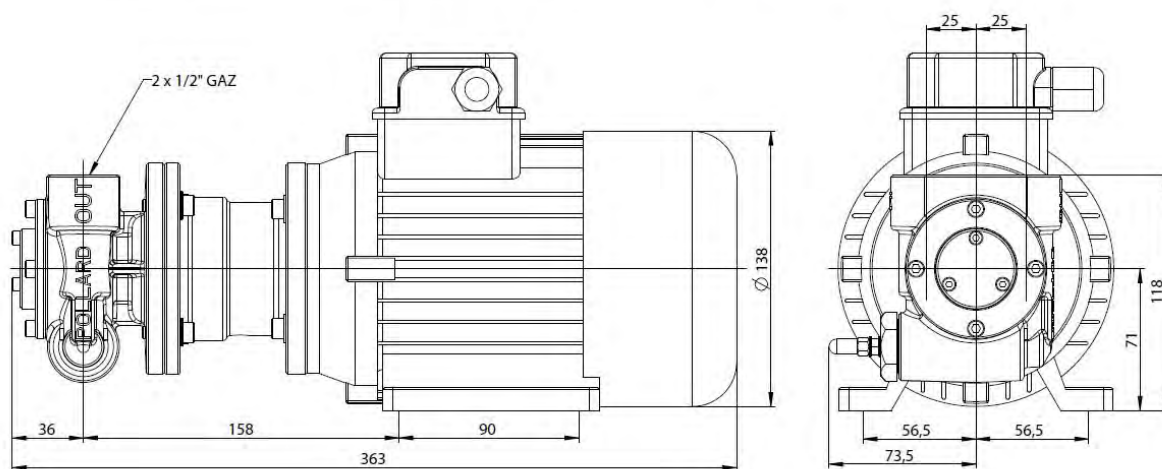


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MPLN04-MPLN06-MPLN08



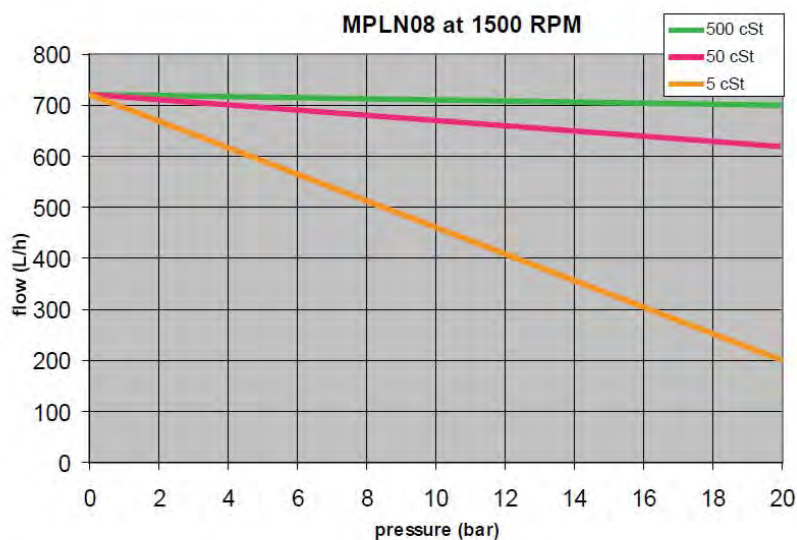
Range flow in m3/h	0 - 1,45
Speed rotation range in RPM	0 - 3000*
Fluid viscosity range in cSt	1 - 5000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	20
Standard operating temperature in °C	-20 / +150
Body and stator materials	Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	60 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a motor-pump MPLN08 (8cm3 by rotation) for a MPLN04 it is necessary to multiply by 4 and to divide by 8 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

* Board viscosity/speed

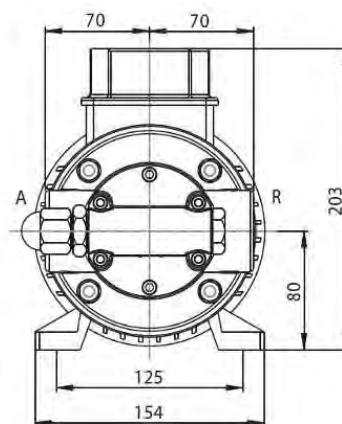
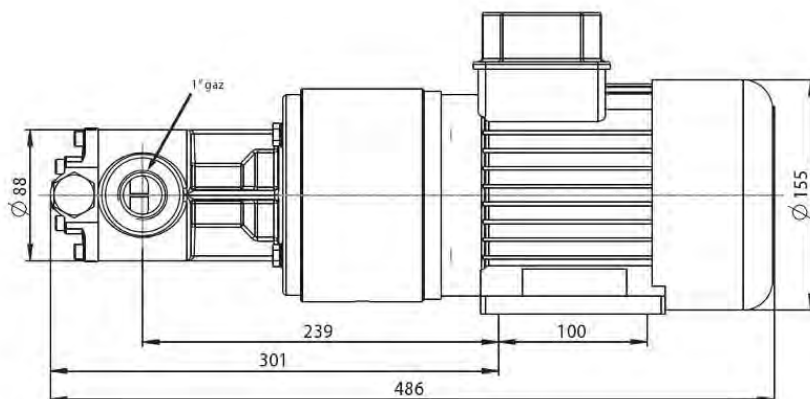
viscosity (cSt)	maximum speed (RPM)
from 0 to 500	3000
from 500 to 1000	1500
from 1000 to 3000	1000
from 3000 to 5000	750
from 5000 to 10000	500
> 10000	200



MP10-MP16-MP20-MP25



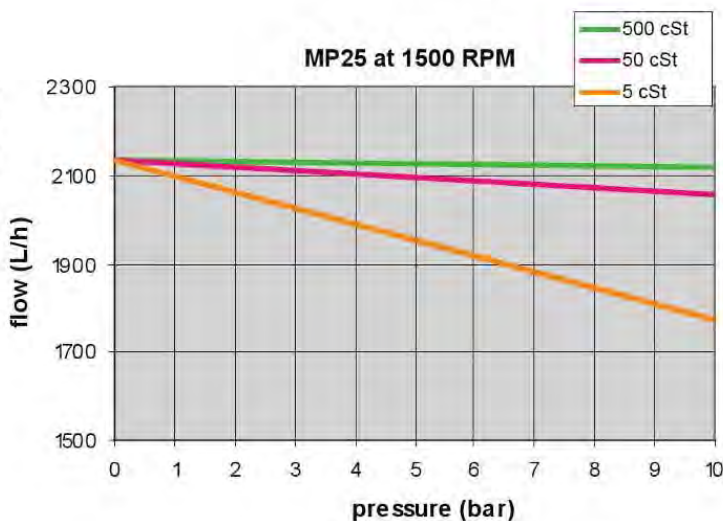
Range flow in m ³ /h	0 - 2,25
Speed rotation range in RPM	0 - 1500*
Fluid viscosity range in cSt	1 - 5000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	10
Standard operating temperature in °C	-20 / +150
Body and stator materials	Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	70 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a motor-pump MP25 (25cm³ by rotation) for a MP10 it is necessary to multiply by 10 and to divide by 25 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

*** Board viscosity/speed**

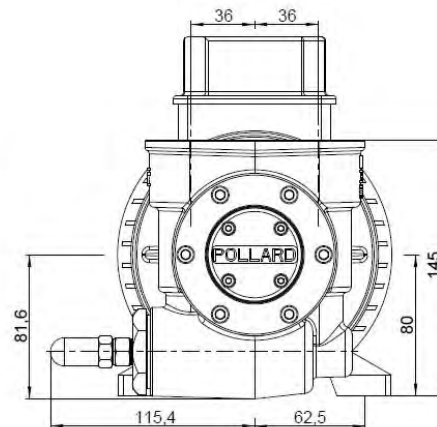
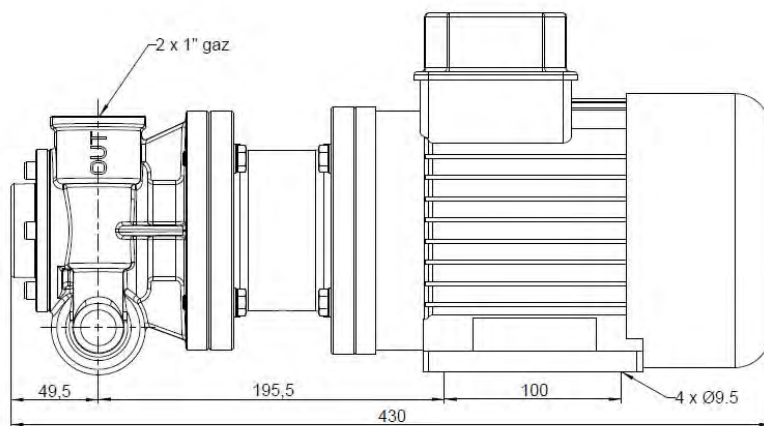
viscosity (cSt)	maximum speed (RPM)
from 0 to 1000	1500
from 1000 to 3000	1000
from 3000 to 5000	750
from 5000 to 10000	500
> 10000	200



MPLN10-MPLN16-MPLN20-MPLN25



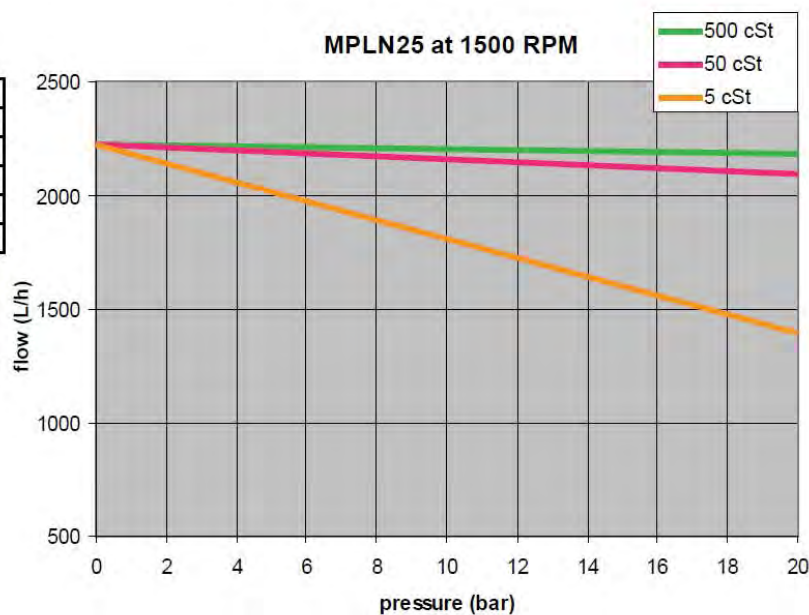
Range flow in m3/h	0 - 2,25
Speed rotation range in RPM	0 - 1500*
Fluid viscosity range in cSt	1 - 5000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	20
Standard operating temperature in °C	-20 / +150
Body and stator materials	Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	65 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a motor-pump MPLN25 (25cm³ by rotation) for a MPLN10 it is necessary to multiply by 10 and to divide by 25 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

* Board viscosity/speed

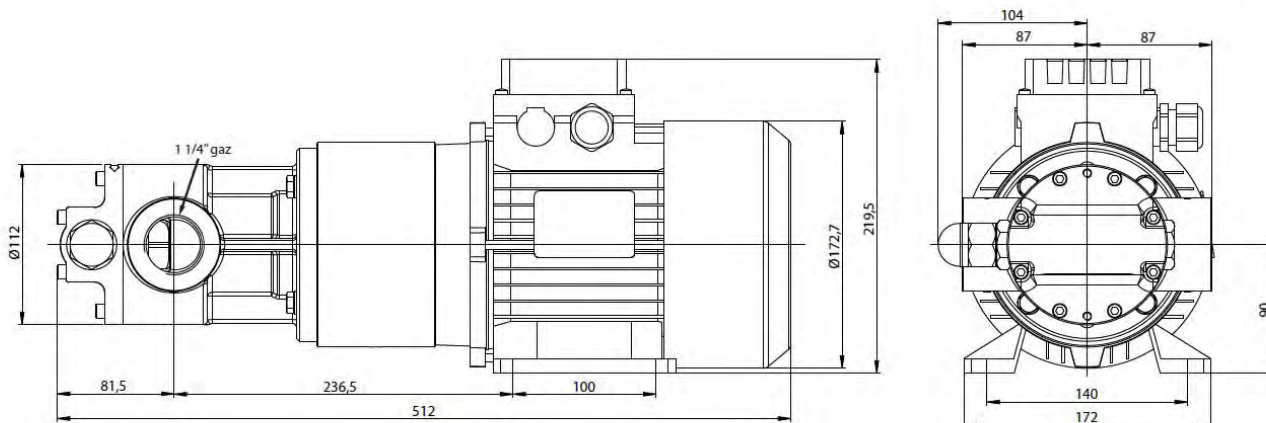
viscosity (cSt)	maximum speed (RPM)
from 0 to 1000	1500
from 1000 to 3000	1000
from 3000 to 5000	750
from 5000 to 10000	500
> 10000	200



MP30 to MP67



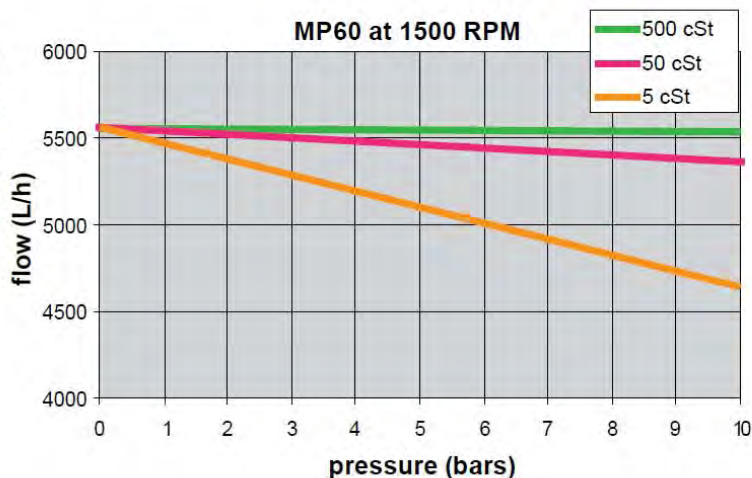
Range flow in m3/h	0 - 6
Speed rotation range in RPM	0 - 1500*
Fluid viscosity range in cSt	1 - 5000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	10
Standard operating temperature in °C	-20 / +150
Body and stator materials	Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	75 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a motor-pump MP60 (60cm³ by rotation) for a MP30 it is necessary to multiply by 30 and to divide by 60 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

* Board viscosity/speed

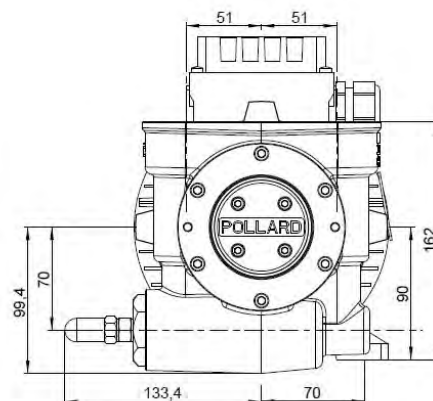
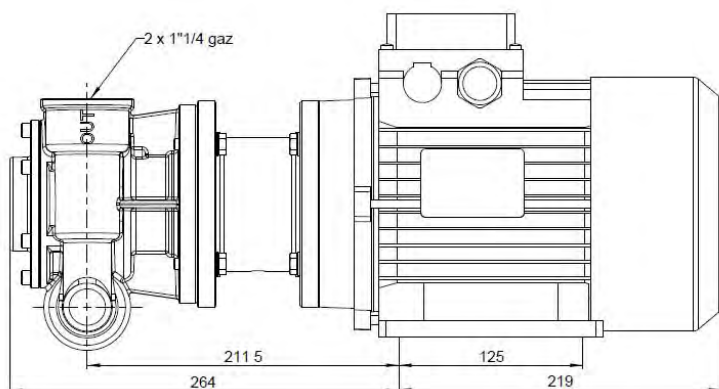
viscosity (cSt)	maximum speed (RPM)
from 0 to 1000	1500
from 1000 to 3000	1000
from 3000 to 5000	750
from 5000 to 10000	500
> 10000	200



MPLN30-MPLN40-MPLN60-MPLN67



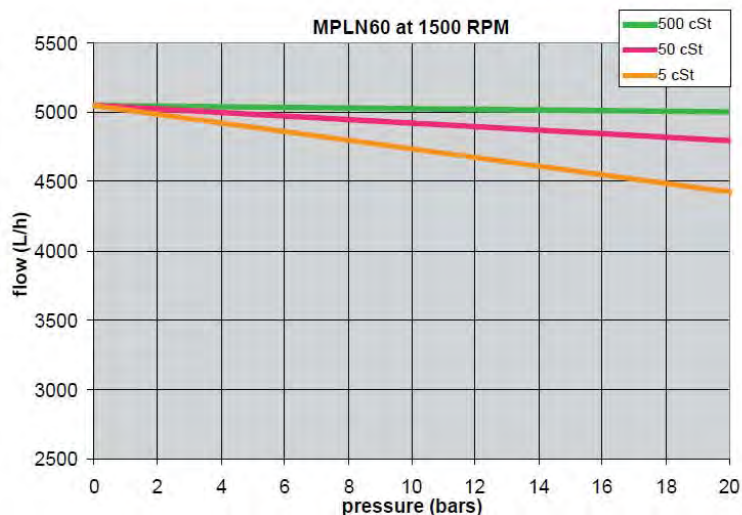
Range flow in m3/h	0 - 5,4
Speed rotation range in RPM	0 - 1500*
Fluid viscosity range in cSt	1 - 5000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	20
Standard operating temperature in °C	-20 / +150
Body and stator materials	Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	70 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a motor-pump MPLN60 (60cm³ by rotation) for a MPLN30 it is necessary to multiply by 30 and to divide by 60 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

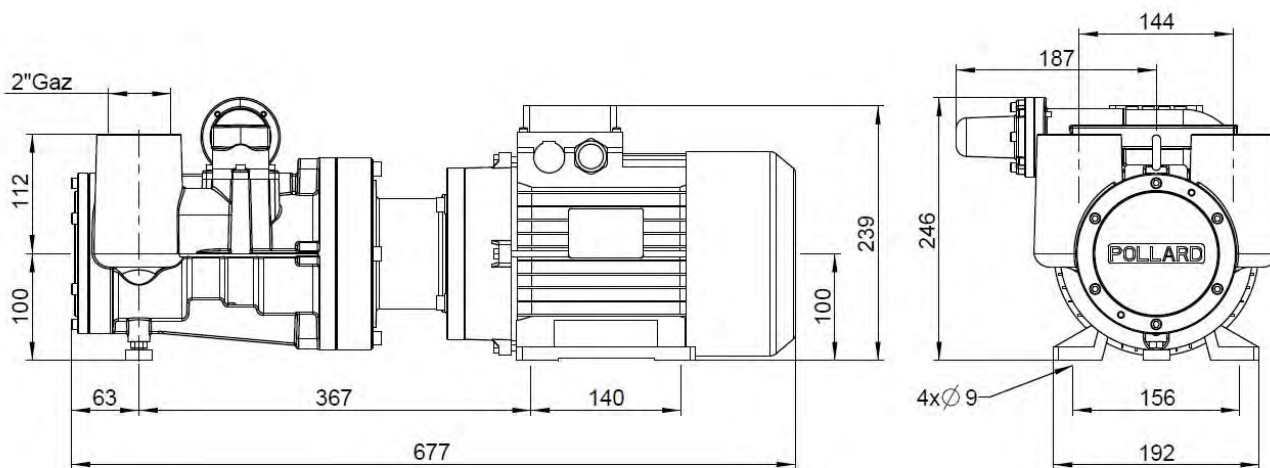
* Board viscosity/speed

viscosity (cSt)	maximum speed (RPM)
from 0 to 1000	1500
from 1000 to 3000	1000
from 3000 to 5000	750
from 5000 to 10000	500
> 10000	200



MP82-MP95-MP107-MP118-MP130-MP142

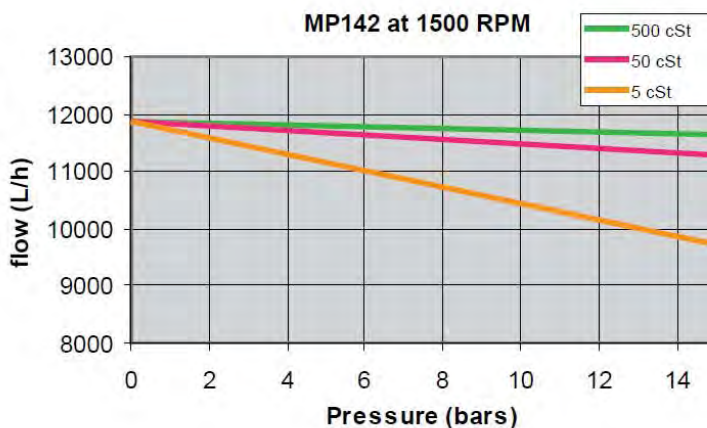
Range flow in m3/h	0 - 12,7
Speed rotation range in RPM	0 - 1500*
Fluid viscosity range in cSt	1 - 10000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	15
Standard operating temperature in °C	-20 / +150
Body and stator materials	Alu-Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	80 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a motor-pump MP142 (142cm³ by rotation) for a MP82 it is necessary to multiply by 82 and to divide by 142 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

* Board viscosity/speed

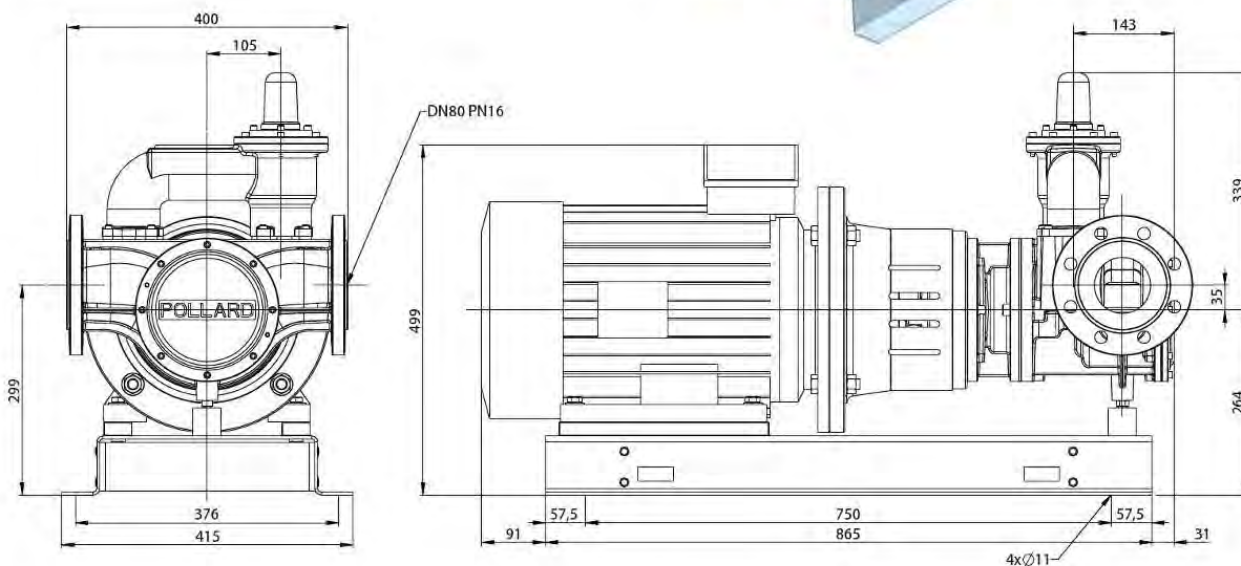
viscosity (cSt)	maximum speed (RPM)
from 0 to 1000	1500
from 1000 to 3000	1000
from 3000 to 5000	750
from 5000 to 10000	500
> 10000	200



MP258-MP344-MP431-MP516



Range flow in m3/h	0 - 30
Speed rotation range in RPM	0 - 950*
Fluid viscosity range in cSt	1 - 10000*
Pump vacuum in Bar	-0,5
Standard operating pressure in Bar	5
Maximal pressure in Bar	15
Standard operating temperature in °C	-20 / +150
Body and stator materials	Cast iron
Shaft and blades materials	Hardened steel
Integrated by-pass	Yes
Maximal size of hard particles	200 microns
Acoustic pressure	90 dB
Seal type	Mechanical seal



Flow calculation : curves below are given for a motor-pump MP516 (516cm³ by rotation) for a MP258 it is necessary to multiply by 258 and to divide by 516 (flow is proportional to the cubic capacity of the pump and at the speed rotation of the engine).

*** Board viscosity/speed**

viscosity (cSt)	maximum speed (RPM)
from 0 to 1000	950
from 1000 to 3000	750
from 3000 to 5000	500
from 5000 to 10000	250
> 10000	100

