

POCLAIN HYDRAULICS

SOLUTIONS FOR THE MOST DEMANDING MARKETS

Poclain hydraulics specializes in the design, manufacturing and marketing of hydrostatic transmissions.

Our internationally recognized expertise allows us to expand on highly diversified markets such as the construction, agricultural, public works, material handling, industrial, environment and on-road markets. Poclain hydraulics' development is driven by our innovative spirit and our ability to anticipate the needs of a wide range of cutting edge applications.

> Construction > Material handling

> Agricultural

> Industry

> Mining

> Marine

> Forestry

> On-Road

> Environment > Etc













Hydraulic Pumps for open and closed loops

Closed loop and variable displacement





Max. Pressure	500 bar [7,252 PSI]	(
Displacement range	85 to 115 cm³/rev. [5.20 to 7.02 cu.in/rev]	> p.6
Max. Speed	3 850 RPM	, b.o

HEAVY DUTY PUMPS



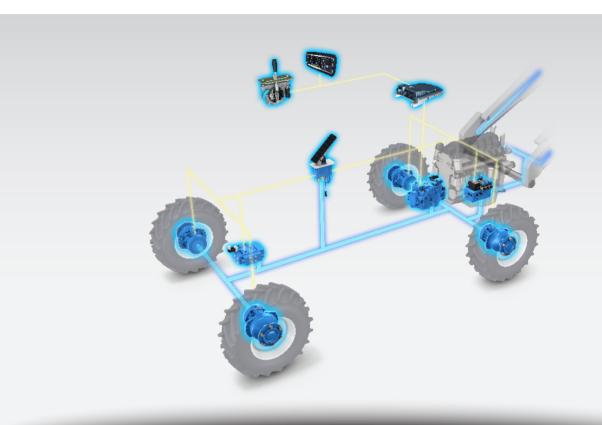
x. Pressure	480 bar [7,000 PSI]	
splacement range	55 to 250 cm³/rev. [3.35 to 15.25 cu.in/rev]	$> p.1_2$
x. Speed	4 250 RPM	/ p. 12



MEDIUM DUTY PUMPS

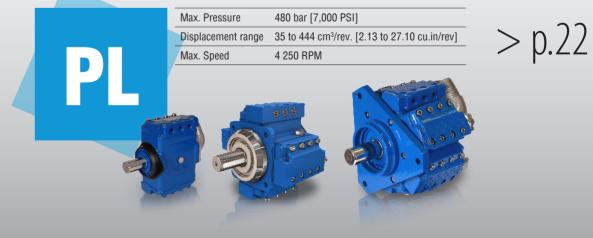


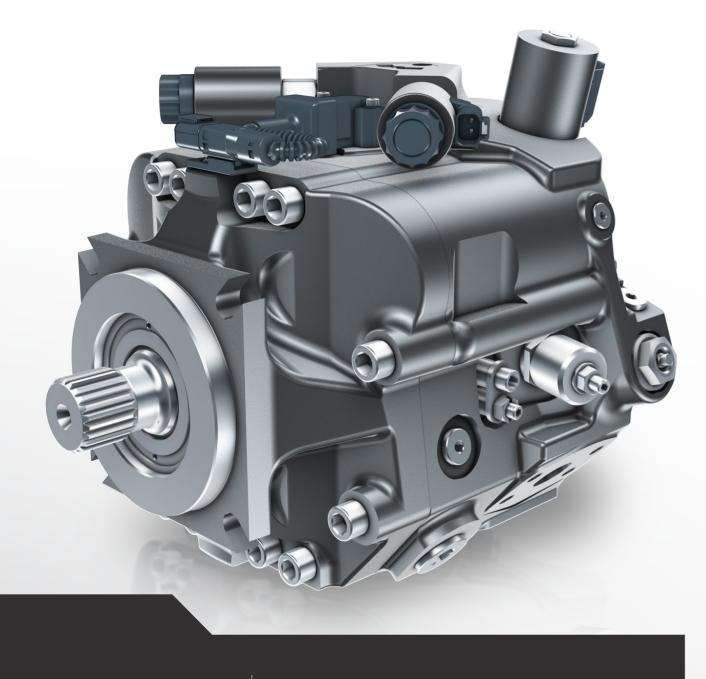
Max. Pressure	400 bar [5,800 PSI]	4.6
Displacement range	7 to 65 cm ³ /rev. [0.43 to 3.97 cu.in/rev]	> p.16
Max. Speed	3 650 RPM	/ p. 10



Open loop and fixed displacement

HEAVY DUTY PUMPS





Axial piston technology Variable displacement Axial compactness Embedded electronics Plug & Drive™ solution

HIGH PERFORMANCE PUMPS

HIGH PERFORMANCE

PW085 - PWe085 PW096 - PWe096 PW115

From 85,2 to 115 cm³/rev. [5.20 to 7.02 cu.in/rev.]

Up to 582 N.m [5,151 lbf.ft]

Up to 500 bar [7,252 PSI]

Up to 3 850 rpm

Up to 223 kW [299 HP]







HIGH PERFORMANCE

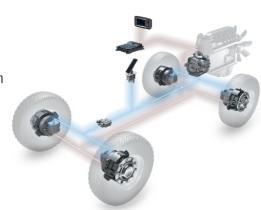
PW/PWe pump range

PW/PWe pumps include some very innovative features which contribute to its compactness, reactivity, efficiency and robustness.

PW/PWe pumps provide a continuously variable flow rate between zero and maximum in forward and reverse direction.

Flow rate is proportional to rotation speed and swashplate angle.

It is featured with a charge pump to keep the cloosed loop circuit pressurised. This avoids risk of cavitation and ensures a good performance of the transmission. It is equipped with high pressure relief valves and control pressure cut-off valve.



Performance

		PW/PWe-085	PW/PWe-096	PW115	
Displacement	cm³/rev [cu.in/rev]	85,2 [5.20]	96,4 [5.88]	115 [7.02]	
May Chood	(Continuous) RPM	3 650	3 650	3 250	
Max. Speed	(Intermittent) RPM	3 850	3 850	3 850	
Max. Pressure	(Continuous) bar [PSI]	450 [6,527]	400 [5,802]	450 [6,527]	
wax. Pressure	(Intermittent) bar [PSI]	500 [7,252]	450 [6,527]	500 [7,252]	

PWe: EMBEDDED ELECTRONIC

Reduce your development costs and time

With the PWe pump, you get a pre-connected electronic harness and embedded software in the integrated ECU. This Plug & DriveTM system will reduce development time and costs for your transmission control system.

Benefit from the expertise of Poclain Hydraulics in the field of transmission control, with four packages to choose from: Standard, Driving, Protection and CAN Control.

A CAN controlled package will allow you to control the pump from third party ECU and exchange data via CAN Bus while keeping the benefits of our embedded accurate swashplate control.



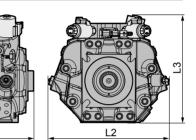


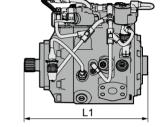
Dimensions

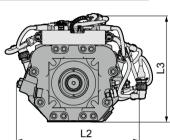
			PW			Ve
		085	096	115	085	096
L1 max.	mm [in]	350 [13.78]	350 [13.78]	403.2 [15.87]	350 [13.78]	350 [13.78]
L2 max.	mm [in]	330 [12.99]	330 [12.99]	344 [13.54]	365 [14.37]	365 [14.37]
L3 max.	mm [in]	293 [11.53]	293 [11.53]	315 [12.40]	303 [11.93]	303 [11.93]
Weight max.*	kg [lb]	71 [157]	71 [157]	149 [328]	71 [157]	71 [157]

^{*}Depending on the controls and the options.

PW-085/096

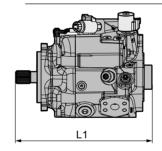


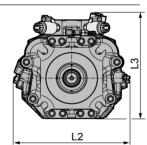




PWe-085/096

PW-115





MORE ACCURACY

Solenoid control with feedback sensor and cut-off valve

Proportional electronic control driven by Poclain Hydraulics electronic control units:

- Our electronic control boxes control the displacement and the direction of the flow while permanently monitoring the operating parameters of the engine and of the complete hydraulic system.
- Two contamination resistant (IP69K) solenoid valves control the displacement and the direction of the flow.
- A sensor linked to the swash plate permanently monitors the actual displacement setting

The control pressure cut-off valve:

- ensures the safe return of pump to neutral position in case of electronic failure or control valves pollution.
- ensures that the machine will not move until proper activation of the pump control.



Mounting flanges and Shafts

		PW/PWe-085	PW/PWe-096	PW115
	Splined shaft 13 teeth, pitch 8/16	•	•	•
	Splined shaft 14 teeth, pitch 12/24	•	•	
Flange SAE C	Splined shaft 21 teeth, pitch 16/32	•	•	
	Splined shaft 23 teeth, pitch 16/32	•	•	•
	Splined shaft 23 teeth, pitch 16/32			•

Auxiliary mounting pads

		PW/PWe-085	PW/PWe-096	PW115
No auxiliary mounting pad		•	•	•
Flange SAE A	Splined shaft 9 teeth, pitch 16/32	•	•	•
Flange SAE B	Splined shaft 13 teeth, pitch 16/32	•	•	•
Flange SAE BB	Splined shaft 15 teeth, pitch 16/32	•	•	•
Flores CAF C	Splined shaft 14 teeth, pitch 12/24	•	•	•
Flange SAE C	Splined shaft 21 teeth, pitch 16/32	•	•	•
Flange SAE D	Splined shaft 23 teeth, pitch 16/32			•



MORE SAFETY AND PERFORMANCE

Pressure relief valves and charge pump

High pressure relief valves:

They maintain circuit pressure in the proper range. The check valves allow charge flow to replenish the low pressure loop of the circuit.

Available setting: from 320 to 480 bar [4,641 to 6,962 PSI] delta pressure.

Charge pressure relief valve:

It provides a relief outlet for charge circuit. This valve is used to set the charge pressure of the circuit. Flow through the valve is ported to case.

The nominal charge relief setting is referenced to case pressure.

Available setting: from 18 to 30 bar [261 to 435 PSI]

Charge flow is required on all PW/PWe 085-096 pumps used in closed circuit installations. The charge pump provides flow to make up internal leakage, maintain a positive pressure in the main circuit, provide flow for cooling and filtration, replace any leakage losses from external valving or auxiliary systems, and to provide flow and pressure for the control system.

Available displacement for PW/PWe 085-096: 17 and 22 cm³/rev. [1.04 and 1.34 in³/rev.] Available displacement for PW115: 29 cm³/rev. [1.77 in³/rev.]



Optional features

ECODRIVETM

internal combustion engine control by CAN Bus.

consumption, CO_a emissions and noise impact.

Reduced consumption in work and road modes

The EcoDrive™ solution is applicable to all machines with an electronic pump control and

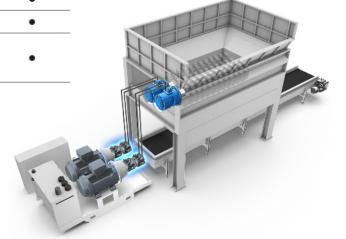
Completely automatic, the EcoDrive[™] function requires no particular action from the driver and always selects the best combination of internal combustion engine speed and pump

Machines fitted with the EcoDrive™ function are much more eco-friendly, with reduced fuel

	PW/PWe-085	PW/PWe-096	PW115
Speed sensor	•	•	•
Temperature sensor	•	•	•
Pressure sensor	•	•	•
Exchange valve	•	•	•
Integrated filter with pollution indicator on charge pressure side	•	•	•

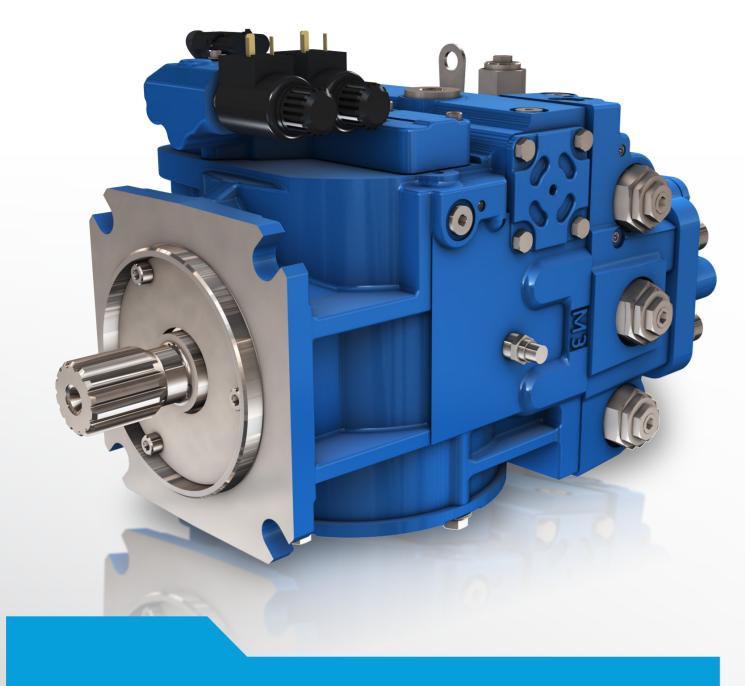
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POCLAIN HYDRAULICS 11 10 PUMP RANGE

Closed Loop and Variable Displacement / Heavy Duty



P90

Axial piston technology
Variable displacement
High design flexibility
Low noise level
High torque for throughdrive
Overpressure protection

HEAVY DUTY CYCLE

FOR ROBUST AND PRECISE TRANSMISSIONS

P90-055 • P90-075 • P90-130 P90-180 • P90-250

From 55 to 250 cm³/rev. [3.35 to 15.25 cu.in/rev.]

Up to 2 938 N.m [2,600 lbf.ft]

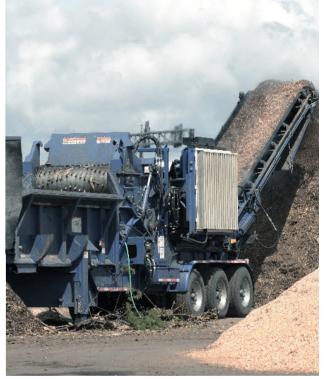
Up to 480 bar [7,000 PSI]

Up to 4 250 rpm

Up to 424 kW [568 HP]









Closed Loop and Variable Displacement / Heavy Duty

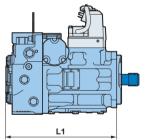
Performance

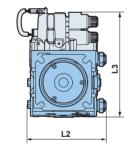
		P90-055	P90-075	P90-130	P90-180	P90-250
Displacement	cm³/rev [cu.in/rev]	55 [3.35]	75 [4.58]	130 [7.91]	180 [10.98]	250 [15.25]
May Speed	(Continuous) RPM	3 900	3 600	3 100	2 600	2 300
Max. Speed	(Intermittent) RPM	4 250	3 950	3 400	2 850	2 500
May Dragging	(Continuous) bar [PSI]	420 [6,092]	420 [6,092]	420 [6,092]	420 [6,092]	420 [6,092]
Max. Pressure	(Intermittent) bar [PSI]	480 [6,962]	480 [6,962]	480 [6,962]	480 [6,962]	480 [6,962]

Dimensions

_					
	P90-055	P90-075	P90-130	P90-180	P90-250
mm	288,8	306,1	370	398	419
[in]	[11.37]	[12.05]	[14.58]	[15.67]	[16.5]
mm	204,4	210	221,5	294,42	-
[in]	[8.04]	[8.27]	[8.72]	[11.59]	[-]
mm	282,3	265	311	360	360
[in]	[11.11]	[10.43]	[12.24]	[14.17]	[14.17]
kg	40	49	88	136	154
[lb]	[88]	[108]	[194]	[300]	[340]
	nm [in] nm [in] kg	nm 288,8 [in] [11.37] nm 204,4 [in] [8.04] nm 282,3 [in] [11.11] kg 40	nm 288,8 306,1 [in] [11.37] [12.05] nm 204,4 210 [in] [8.04] [8.27] nm 282,3 265 [in] [11.11] [10.43] kg 40 49	nm 288,8 306,1 370 [14.58] nm 204,4 210 221,5 [8.72] nm 282,3 265 311 [10.11] [10.43] [12.24] kg 40 49 88	mm 288,8 306,1 370 398 [15.67] mm 204,4 210 221,5 294,42 [in] [8.04] [8.27] [8.72] [11.59] mm 282,3 265 311 360 [in] [11.11] [10.43] [12.24] [14.17] kg 40 49 88 136

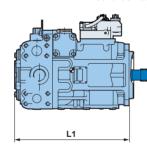


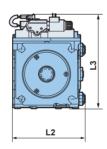






P90-075 / 130 / 180 / 250





Auxiliary mounting pads

		P90-055	P90-075	P90-130	P90-180	P90-250
Flange SAE A	9 teeth coupling	•	•	•	•	•
Flange SAE BB	15 teeth coupling	•	•	•	•	•
Flange SAE B	13 teeth coupling	•	•	•	•	•
Flange SAE C	14 teeth coupling	•	•	•	•	•
	13 teeth coupling			•	•	•
Flange SAE D	27 teeth coupling			•	•	•
	13 teeth coupling				•	•
Flange SAE E	27 teeth coupling				•	•
No auxiliary mountin	g pad	•	•	•	•	•

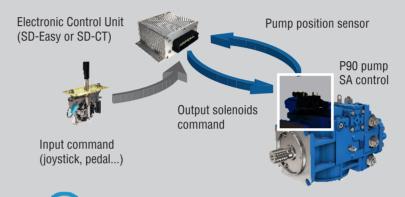
ELECTRONIC CONTROL OF THE P90

SmartDrive system

Similar to the PW, the P90 control logic relies on a closed loop regulation of the pump.

The control system's brain is the ECU (SD-Easy or SD-CT), which sends PWM (Pulse Width Modulation) signals to the two main control solenoid valves that pilot the servo cylinder of the pump.

The exact position of the pump swashplate is tracked by a Hall effect feedback potentiometer whose inputs are constantly processed by the ECU to reach a very high pump displacement control accuracy.



	Proportional electronic control		
	12V	24V	
P90-055	•	•	
P90-075	•	•	
P90-130	•	•	
P90-180	•	•	
P90-250	•	•	



Mounting flanges and shafts

	P90-055	P90-075	P90-130	P90-180	P90-250
Splined shaft 14 teeth, pitch 12/24	•	•			
Splined shaft 21 teeth, pitch 16/32	•	•			
Splined shaft 23 teeth, pitch 16/32		•			
Splined shaft 27 teeth, pitch 16/32			•		
Splined shaft 13 teeth, pitch 8/16			•		
Splined shaft 27 teeth, pitch 16/32				•	•
Splined shaft 13 teeth, pitch 8/169				•	•
	Splined shaft 21 teeth, pitch 16/32 Splined shaft 23 teeth, pitch 16/32 Splined shaft 27 teeth, pitch 16/32 Splined shaft 13 teeth, pitch 8/16 Splined shaft 27 teeth, pitch 16/32	Splined shaft 14 teeth, pitch 12/24 Splined shaft 21 teeth, pitch 16/32 Splined shaft 23 teeth, pitch 16/32 Splined shaft 27 teeth, pitch 16/32 Splined shaft 13 teeth, pitch 8/16 Splined shaft 27 teeth, pitch 16/32	Splined shaft 14 teeth, pitch 12/24 Splined shaft 21 teeth, pitch 16/32 Splined shaft 23 teeth, pitch 16/32 Splined shaft 27 teeth, pitch 16/32 Splined shaft 13 teeth, pitch 8/16 Splined shaft 27 teeth, pitch 16/32	Splined shaft 14 teeth, pitch 12/24 Splined shaft 21 teeth, pitch 16/32 Splined shaft 23 teeth, pitch 16/32 Splined shaft 27 teeth, pitch 16/32 Splined shaft 13 teeth, pitch 8/16 Splined shaft 27 teeth, pitch 16/32	Splined shaft 14 teeth, pitch 12/24 Splined shaft 21 teeth, pitch 16/32 Splined shaft 23 teeth, pitch 16/32 Splined shaft 27 teeth, pitch 16/32 Splined shaft 13 teeth, pitch 8/16 Splined shaft 27 teeth, pitch 16/32 •

Optional features

	P90-055	P90-075	P90-130	P90-180	P90-250
Speed sensor	•	•	•	•	•
Suction filtration	•	•	•	•	•
Charge pressure filtration	•	•	•	•	•
Integral pressure filter	•	•	•	•	•
Remote pressure	•	•	•	•	•

Closed Loop and Variable Displacement / Medium Duty



PM PMe

Axial piston technology
Variable displacement
Compact design
A large choice of controls
Embedded electronics
Plug & DriveTM solution

MEDIUM DUTY PUMPS

DESIGN FOR PERFORMANCE AND EASY INTEGRATION

PMV0 - PM10 - PM30 - PMe30 PM50 - PMe50 - PM65

From 7 to 65 cm³/rev. [0.43 to 3.97 cu.in/rev.]

Up to 103,5 N.m [916 lbf.ft]

Up to 400 bar [5,800 PSI]

Up to 3 600 rpm

Up to 124,8 kW [167.4 HP]















POCLAIN HYDRAULICS 7

Closed Loop and Variable Displacement / Medium Duty

Performance

		PMV0	PM10	PM30 PMe30	PM50 PMe50	PM65
Displacement range	cm3/rev [cu.in/rev]	7 - 18 [0.43] - [1.10]	7 - 21 [0.43] - [1.28]	25 - 34,2 [1.53] - [2.09]	40 - 52 [2.44] - [3.17]	55 - 65 [3.36] - [3.97]
Rated Speed	RPM	3 600	3 600	3 600	3 600	3 600
May Draggura	(Continuous) bar [PSI]	210 [3,045]	210 [3,045]	300 [4,350]	300 [4,350]	250 [3,625]
Max. Pressure	(Intermittent) bar [PSI]	300 [4,351]	350 [5,076]	400 [5,801]	400 [5,801]	350 [5,076]
Max. theorical absorbed power	kW [HP]	12,7 - 30,5 [17.0] - [40.9]	14,9 - 42,6 [20.0] - [57.1]	48,0 - 65,6 [64.4] - [88.0]	74,8 - 99,8 [100.3] - [133.8]	106,0 - 124,8 [142.1] - [167.3]

Mounting flanges and shafts

			PMV0	PM10	PM30 PMe30	PM50 PMe50	PM65
	Culinad shaft	9 teeth, pitch 12/24	•	•			
	Splined shaft	11 teeth, pitch 16/32	•	•			
Flange SAE A		Diameter 15,875 [0.624]	•				
	Key shaft mm [in]	Diameter 18 [0.71]	•				
	22	Diameter 19,05 [0.75]		•			
		11 teeth, pitch 16/32		•			
	Splined shaft	13 teeth, pitch 16/32		•	•	•	
Flore OAF D		14 teeth, pitch 12/24				•	
Flange SAE B		Diameter 19,05 [0.75]		•			
	Key shaft mm [in]	Diameter 22,22 [0.87]					•
	[]	Diameter 25,38 [0.99]				•	
Flange SAE BB	Splined shaft	15 teeth, pitch 16/32			•	•	•

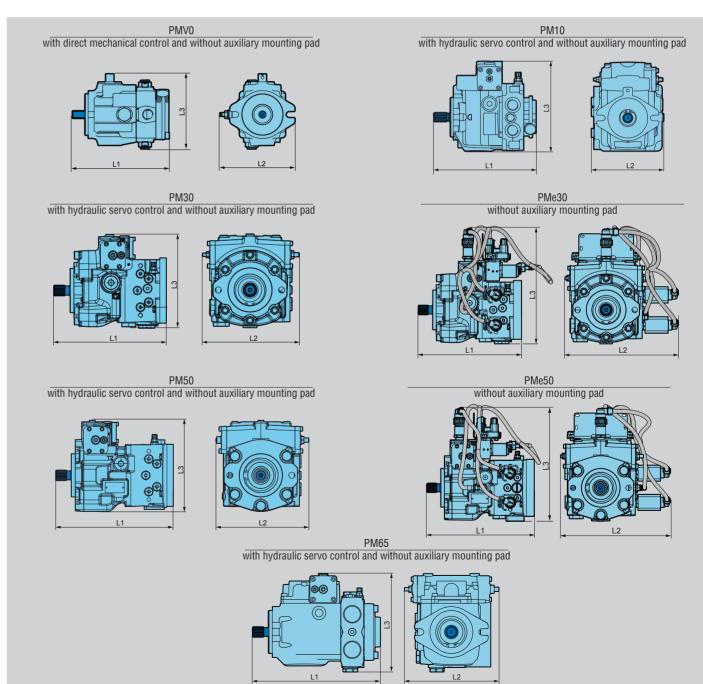
Auxiliary mounting pads

		PMV0	PM10	PM30 PMe30	PM50 PMe50	PM65
German group 1		•	•			
German group 2		•	•			
	9 teeth coupling		•	•	•	•
Flange SAE A	11 teeth coupling			•	•	•
Flange SAE B	13 teeth coupling			•	•	•
Flange SAE BB	15 teeth coupling			•	•	•
No auxiliary mounting pad		•	•	•	•	•

Dimensions

	_							
		PMV0	PM10	PM30	PMe30	PM50	PMe50	PM65
14	mm	192,8	204,5	253,2	256,2	271,5	282,2	303,5
L1	[in]	[7.59]	[8.05]	[9.98]	[10.08]	[10.68]	[11.11]	[11.95]
L2	mm	107,4	144	221,7	290,5	218	289,5	223,5
LZ	[in]	[4.23]	[5.67]	[8,72]	[11.44]	[8.58]	[11.40]	[8.8]
L3	mm	129	187,7	212,2	290,5	214,5	299,0	232,5
LJ	[in]	[5.08]	[7.39]	[8.35]	[11.44]	[8.45]	[11.77]	[9.15]
Weight max.*	kg [lb]	9,5 [20.9]	18,8 [41.4]	29 [63.9]	31,5 [69.4]	32 [70.5]	32 [70.5]	30,5 [67.2]

^{*}Depending on the controls and the options.



Closed Loop and Variable Displacement / Medium Duty PM / PMe

PMe: EMBEDDED ELECTRONIC

Reduce your development costs and time

The PMe is designed to be easily integrated into a wide variety of machines. The PMe's on-board ECU can withstand the harshest environments, including proximity to the combustion engine. The ECU is pre-wired and preprogrammed; after shipping, the system is ready to be connected to the driving devices (e.g. the travel pedal, joystick, brake pedal) and is ready to use.

The associated electronic devices are delivered already plugged onto the pump and wired to the ECU. The factory-installed harnesses are tested at the end of the assembly line prior to delivery. The two integrated CAN Buses allow configurating, machine diagnosing and information sharing with other machine components (e.g. engine, displays, hydraulic components).

Among the many pre-defined software functionalities included in the PMe packages, the speed control loop is available for specific applications that need constant driving speed, a pre-requisite being two speed sensors in the wheels. The PMe pump can also be used as a slave unit via CAN Bus. The CAN message redundancy allows for safe control of the pump. It ensures an accurate control thanks to an internal pump calibration. The PMe can also provide the plugged sensors' physical and electrical values (temperature, pressure, speed) via CAN Bus to the master ECU.



More information > Page Page 130



Controls

								_
	PMV0	PM10	PM30	PMe30	PM50	PMe50	PM65	
Direct mechanical (M)	•	•						
Direct mechanical with return spring (N)	•	•						
Direct mechanical with return spring and zero position setting (L)	•							
Mechanical servo control with feed-back (A)		•	•		•		•	
Hydraulic servo control (S)	•	•	•		•		•	
Hydraulic servo control with feed-back (T)		•	•		•			
Hydraulic Automotive Control (D)		•	•		•		•	
Electrical on-off servo control without electrovalve (C)		•	•		•		•	
Electrical on-off servo control with return spring without electrovalve (B)		•	•		•		•	
Electrical on-off servo control with electrovalve (C12/C24)		•	•		•		•	
Electrical on-off servo control with return spring and electrovalve (B12/B24)		•	•		•		•	_
Electro-proportional servo control (P)		•	•	•	•	•	•	
Electro-proportional servo control with feed-back (Q)		•	•	•	•	•		_

* Under development

Additional features

Please take in consideration that all combinations are not possible.

		•			
	PMV0	PM10	PM30 PMe30	PM50 PMe50	PM65
Fitting for rear power take-off (through shaft)	•				
Electrical by-pass with brake engaged	•				
Mechanical inching		•	•	•	•
Hydraulic inching		•	•	•	•
Brake inching			•	•	
Lever by-pass	•				
Low noise valve plate	•				
Pressure filter	•	•	•	•	•
Flushing valve	•	•	•	•	•
Safety valve		•	•	•	
Pressure cut-off valve		•	•*	•*	•
Anti-stall valve		•	•	•	•
Neutral position switch (only for control A)		•	•	•	•
Roller bearing	•	•	•	•	
UNF ports	•	•	•	•	•
SAE ports	•	•	•	•	•
Speed sensor			•	•	
Fluorinated elastomer seals	•	•	•	•	

//65 •	
•	PMV0 with through shaft
•	R



PHAST PROGRAM

Fast delivery

Poclain Hydraulics is committed to supplying a number of standard pumps within 10 business days, excluding transport.

This delivery time applies to any order limited to one pump per Part Number, per customer and per

Making their selection from a predetermined list of pumps, machine manufacturers can choose from pumps with mechanical servo control (A) or hydraulic servo control (S) or electro proportional servo control (P) or electro proportional servo control with feeback (Q). All pumps are equipped with a high pressure relief valve setting, internal charge pump and charge relief valve setting, SAE A flange for the auxiliary mounting pad and a flushing valve.

Pump types

PM30	PM50
•	•



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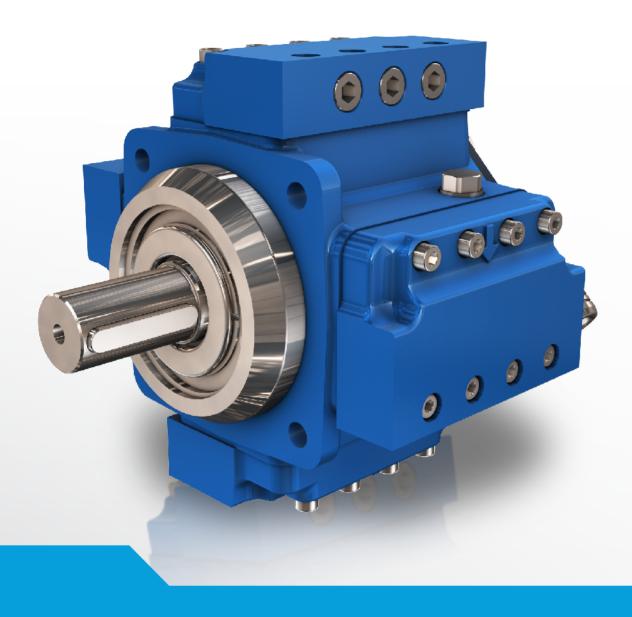
Visit our dedicated web page www.poclain-hydraulics.com/en/services/phast





^{*} Under development

Open Loop and Fixed Displacement / Heavy Duty



PL

Radial piston technology
Fixed displacement
High strength
Robust and dust resistant

HEAVY DUTY PUMPS

FOR OPEN LOOPS

From 35 to 444 cm³/rev. [2.13 to 27.10 cu.in/rev.]

Up to 2 938 N.m [2,600 lbf.ft]

Up to 480 bar [7,000 PSI]







POCLAIN HYDRAULICS 23

Open Loop and Fixed Displacement / Heavy Duty

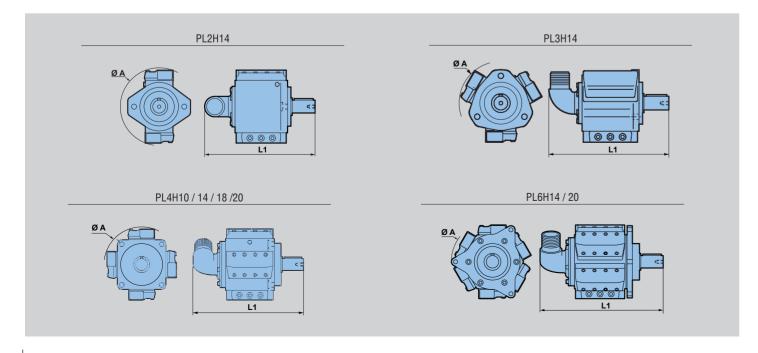
Performance

		2 outputs	3 outputs	4 outputs	4 outputs	4 outputs	4 outputs
		PL2H14	PL3H14	PL4H10	PL4H14	PL4H18	PL4H20
Displacement	cm³/rev [cu.in/rev]	2 x 17.5 to 2 x 32 [2 x 1.07 to 2 x 1.95]	3 x 17.5 to 3 x 37 [3 x 1.07 to 3 x 2.26]	4 x 10.3 to 4 x 12.5 [4 x 0.63 to 4 x 0.76]	4 x 17.5 to 4 x 37 [4 x 1.07 to 4 x 2.26]	4 x 33 to 4 x 52 [4 x 2.01 to 4 x 3.17]	4 x 58 to 4 x 74 [4 x 3.54 to 4 x 4.52]
Max. Pressure	bar [PSI]	450 [6,526]	450 [6,526]	450 [6,526]	450 [6,526]	450 [6,526]	450 [6,526]
Max. Speed	RPM	3 100 to 2 400	3 400 to 2 400	2 700	3 100 to 2 000	2 500 to 2 400	2 400 to 2 300
Max. Power	kW [HP]	81 to 115 [109 to 155]	134 to 200 [180 to 269]	84 to 102 [113 to 137]	163 to 222 [219 to 298]	246 to 376 [331 to 506]	417 to 510 [561 to 686]

		6 outputs	6 outputs
		PL6H14	PL6H20
Displacement	cm³/rev [cu.in/rev]	6 x 17.5 to 6 x 32 [6 x 1.07 to 6 x 1.95]	6 x 58 to 6 x 74 [6 x 3.5 to 6 x 4.51]
Max. Pressure	bar [PSI]	450 [6,526]	450 [6,526]
Max. Speed	RPM	3 200 to 2 300	2 400 to 2 000
Max. Power	kW [HP]	252 to 331 [339 to 445]	626 to 666 [842 to 895]

Dimensions

		PL2H14	PL3H14	PL4H10	PL4H14	PL4H18	PL4H20	PL6H14	PL6H20
Dia. A	mm	320	320	275	320	440	550	352	550
	[in]	[12.60]	[12.60]	[10.83]	[12.60]	[17.32]	[21.65]	[13.86]	[21.65]
L1	mm	397	397	376	435	550	656	463	659
	[in]	[15.63]	[15.63]	[14.80]	[17.13]	[21.65]	[25.83]	[18.23]	[25.94]
Weight	kg	38	47	42	68	140	250	84	360
	[lb]	[84]	[104]	[93]	[150]	[309]	[551]	[185]	[794]



24 Pump range Poclain Hydraulics 25

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