

Variable displacement vane pump with hydraulic pressure compensator







Series Name	Displacement [cm ³ /r]	Flow rate at 1450rpm [l/min]	Max. Pressure [bar]	
01 PHP 05-16	16	23	250	
01 PHP 1-20	20	29	250	
01 PHP 1-25	25	36	250	
01 PHP 1-32	32	47	250	
01 PHP 2-40	40	58	250	
01 PHP 2-50	50	73	250	
01 PHP 2-63	63	92	250	
01 PHP 3-80	80	116	250	
01 PHP 3-100	100	145	250	
01 PHP 3-120	120	174	250	





General description

PHP pumps are high pressure variable displacement vane pumps equipped with hydraulic pressure regulating device that allow you to instantly adjust the flow rate accordingly to circuit requirements. Variable displacement vane pumps are volumetric type so they deliver a maximum flow rate equivalent to its displacement for their speed of rotation. Operating pressure is due to pressure loads encountered by the fluid within the system. When the outlet pressure (on the system) equals the pump setting pressure, the flow rate is adjusted to the values required by the system. When this value is achieved, pump reduces its flow rate to zero, keeping the pressure almost constant. In zero flow conditions, pump delivers oil only to compensate any possible drain and piloting.

The series of PHP pumps, like all other Berarma variable displacement vane pumps, ensure:

- Silent running
- High efficiency
- Long working life
- · Economy and simplification of hydraulic system
- Modular design
- Energy saving

The important performance increase guarantees:

- High operating pressure
- Excellent displacement dynamic control

The main innovation of the new series of 01 PHP pumps is the internal pump cartridge, designed to obtain perfect axial balancing, both in terms of hydrostatic compensation of the distribution plates and the fluid flow-rate from inlet to outlet.

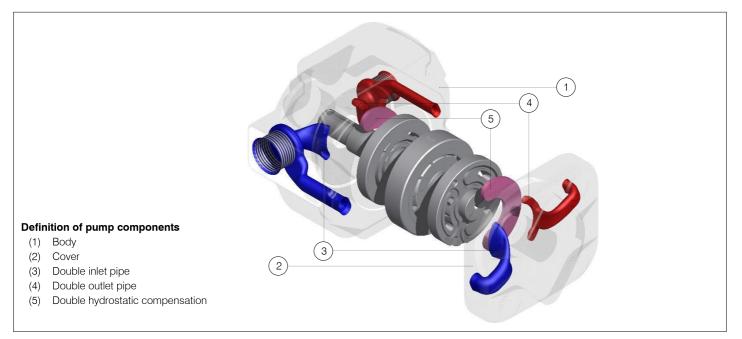
The series of PHP pumps is supplied with:

- ISO standard mounting flanges and shafts
- Gas BSP and/or SAE 3000 standard port connections
- Max. flow regulator unit to mechanically reduce pump max. displacement
- · Different types of devices for hydraulic, electric and proportional control for flow rate and / or pressure
- Thru drive shaft (only with the option "A") to arrange combined pumps between Berarma pumps or the main other types of pump available on the fluid power market

Considering the features outlined above, the new series of PHP pumps is one of a kind, suitable for applications that require higher performances than the standard use of variable displacement vane pumps.

What makes the Berarma PHP series pumps a unique product of its kind?

- 250 bar operating pressure
- Double inlet and outlet pipes in the internal cartridge of the pump
- Double hydrostatic compensation in axial direction on the distribution plates
- · New functional concept of the pressure compensator device (reduction of pressure peak values and response time)
- Innovative shapes and design
- Wear reduction of the internal pump cartridge parts





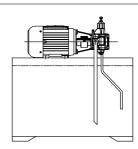
Technical data



Size	05	1	2	3	
Geometric displacement according to ISO 3662 (cm³/r)	16	20 ÷ 25 ÷ 32	40 ÷ 50 ÷ 63	80 ÷ 100 ÷ 120	
Actual displacement (cm³/r) Due to manufacturing tolerances, the value can vary by approx. ±3%	17	21 ÷ 26 ÷ 33	41 ÷ 50 ÷ 63	81 ÷ 100 ÷ 120	
Maximum working pressure (bar) Pressure peak exceeding 30% (10% only for size 3) of the maximum operating pressure must be eliminated by adopting the appropriate measures	250				
Pressure setting range (bar)	H : 20 ÷ 250				
Permitted maximum drain port pressure (bar)	1				
Inlet pressure (bar)	0.8 ÷ 1.5 absolute				
Speed range (rpm)	800 ÷ 1800 800 ÷ 1500 1800 allowed with pressure				
Rotation direction		R: right (clockwise) v	riewed from shaft ei	nd	
Load on drive shaft		NO RADIAL OR AXIA	AL LOADS ALLOWE	D	
	HM according to ISO 6743-4 HLP according to DIN 51524-2				
Hydraulic fluid	HEES according to ISO 15380 FPM-Viton seals ÷ Pmax 160bar				
for other fluids please contact Berarma technical sales service	HFD according to ISO 12922 FPM-Viton seals + Pmax 160bar				
	HFC according to ISO 12922 water <40% + NBR seals + Pmax 100bar + Vmax 1000rpm + Temp. <40°C				
Viscosity range (cSt, mm²/s)	22 ÷ 68 at operating temperature				
Starting viscosity under full flow conditions (cSt, mm²/s)	400 max.				
Viscosity index according to ISO 2909	100 min.				
Inlet fluid temperature range (°C)	+15 / +60 ÷ pay attention to viscosity range				
Maximum acceptable fluid contamination level	20/18/15 according to ISO 4406 CLASS 9 according to NAS 1638				
Recommended fluid contamination level for a longer pump working life	18/16/13 according to ISO 4406 CLASS 7 according to NAS 1638				
Moment of inertia (kgm²)	0.00019	0.0005	0.00909	0.015	
	Weight single pump (kg)				
Standard control	16.4	19.1	44.8	55.2	
PCS002 control	18.5	21.2	46.9	57.3	
PCS003 control	18	20.8	46.4	56.9	
PCS004 control	19	21.9	47.5	58	
PCS005 control	17.9	20.6	46.3	56.7	
PCS006 control	-	-	44.9	55.3	
PCLS001 control	18.9	21.6	47.3	57.8	
PCLS002 control	19.3	22.1	47.5	58.2	
PCLS003 control	18.9	21.6	47.3	57.7	
PCLS004 control	20	22.7	48.4	58.8	
PCLS005 control	18.7	21.5	47.2	57.6	
For further information and/or different operating conditions please contact B	erarma technical	sales service	•	•	

Installation and start-up

For the installation and start-up of Berarma pumps please refer to related **Document USE AND MAINTENANCE MANUAL** available on our website.







Ordering code

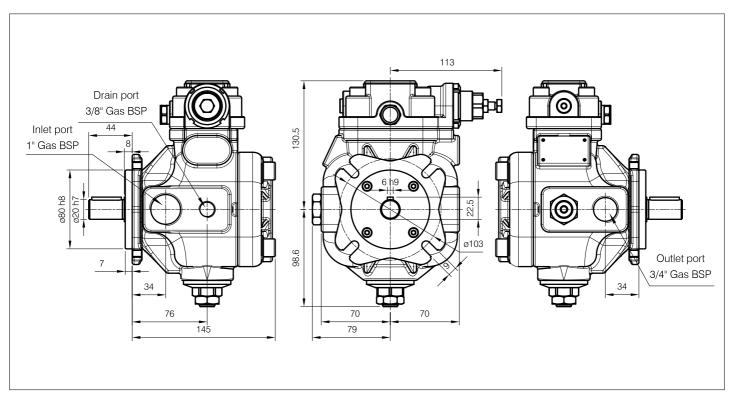
Code	Series Name	Disp	Size olacement	Flange	Pressure setting	Rotation	Seals	Options	Pressure controls
Code	01 PHP	:	2-50 F H R M			A	PCS003		
1 - 20	Code	Size							
1 - 20	05 – 16	05	16						
1 - 32									
2 - 40 2 40 2 - 50 2 50 3 - 80 3 80 3 - 80 3 80 3 - 100 3 100 3 - 120 3 120 Code Flange Rectangular Gas BSP / SAE 5000 FGR2 Rectangular G	1 – 25	1	25						
2 - 50	1 – 32	1	32						
2 - 63	2 – 40	2	40						
3 - 80 3 80 3 100	2 – 50	2	50						
3 100 3 120 3 120 Code Flange Ports F ISO 3019-2 4 holes Gas BSP / SAE 3000 FGR2 gear pump 2 Gas BSP Code Pressure esting (bar) 3 0 + 250 for size 5 Code Rotation direction R Right (cw) view from shaft end Code Seals M NBR E FPM Viton Code Option / Omit for no option A Thru drive shaft for combined pumps (only for flange F) Code Pressure control / Single stage of pressure with remote control PCS002 Single stage of pressure, both adjustable PCS005 Proportional pressure control PCS005 Proportional pressure with minimum displacement limiter control PCS005 Proportional pressure with minimum displacement limiter control PCS005 Proportional pressure with minimum displacement limiter control PCS006 Single stage of pressure with minimum displacement limiter control PCS006 Single stage of pressure with minimum displacement limiter control PCS007 Use stages of pressure with minimum displacement limiter control PCS008 Proportional pressure control PCS009 Load Sensing control with two stages of pressure, with remote control PCLS001 Load Sensing control with two stages of pressure, both adjustable PCLS003 Load Sensing control with two stages of pressure, both adjustable	2 – 63	2	63						
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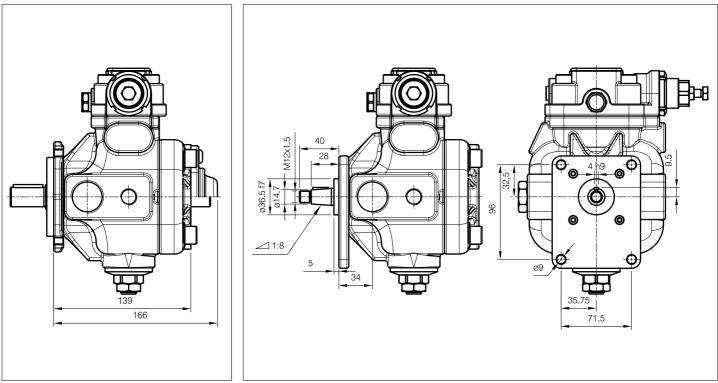


01 PHP 05-16 - Flange "F"



01 PHP 05-16 - Flange "F" + Option "A"

01 PHP 05-16 - Flange "FGR2"



For information, please refer to related Catalog COUPLINGS and ACCESSORIES



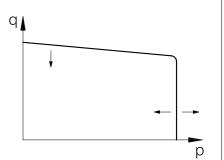


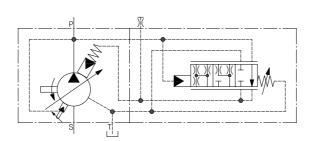
Standard control

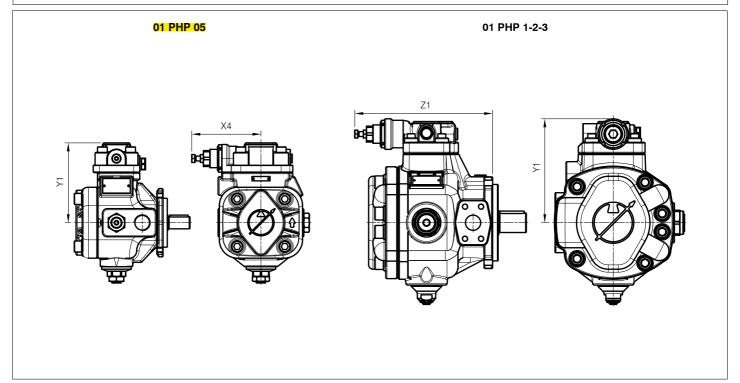
Single stage of pressure

This standard control enables the pump displacement to be adjusted (until zero flow setting condition) according to the flow rate required by the hydraulic system, keeping the working pressure constant and equal to the value set on the compensator device.

The pressure value setting of the compensator device is adjusted by means of the pressure setting screw and locked using the locknut.







Size	X4 Y1 Z1				
01 PHP 05	113	130.5	-		
01 PHP 1	-	136.5	204		
01 PHP 2 - 170 225					
01 PHP 3	-	179	248		
For further information see related documentation on Berarma website or contact Berarma technical sales service					