

Ordering code

Axial piston pump Series PV - Design Series 45

P	V																
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axial piston pump variable displacement high pressure version

code	displacement
016	16 cm ³ /rev
020	20 cm ³ /rev
023	23 cm ³ /rev
032	32 cm ³ /rev
040	40 cm ³ /rev
046	46 cm ³ /rev
063	63 cm ³ /rev
080	80 cm ³ /rev
092	92 cm ³ /rev
140	140 cm ³ /rev
180	180 cm ³ /rev
270	270 cm ³ /rev

size and displacement

rotation

code	rotation ¹⁾
R	clockwise
L	counter clockwise

¹⁾ when looked on shaft

variation

code	variation
1	standard
9	reduced displacement adjusted ¹⁾

¹⁾ for order, specify displacement (cm³/rev.)

mounting code

code	mounting interface	shaft
D	SAE ISO 3019/1 4-hole flange	cylindric, key
E		splined, SAE
F ¹⁾		cylindric, key
G ¹⁾		splined, SAE
K	metr. ISO 3019/2 4-hole flange	cylindric, key
L		splined, DIN 5480

¹⁾ codes F and G only for PV140/180, see dimension sheet other mounting options upon request

thru drive code

code	thru drive option
no adapter for 2nd pump	
T	single pump, prepared for thru drive
with adaptor for 2nd pump	
Y ¹⁾	SAE AA, Ø 50.8mm
A	SAE A, Ø 82.55mm
B	SAE B, Ø 101.6mm
C ²⁾	SAE C, Ø 127mm
D ³⁾	SAE D, Ø 152.4mm
E ⁴⁾	SAE E, Ø 165.1mm
G ⁵⁾	metric, Ø 63mm
H	metric, Ø 80mm
J	metric, Ø 100mm
K ²⁾	metric, Ø 125mm
L ³⁾	metric, Ø 160mm
M ⁴⁾	metric, Ø 200mm

¹⁾ only for PV016 - PV023
²⁾ only for PV032 and larger
³⁾ only for PV063 and larger
⁴⁾ only for PV270
⁵⁾ only for PV016 - PV092

seals

code	material
N	NBR
V	FPM
E	ethylen-propylen
W	NBR with PTFE shaft seal
P	FPM with PTFE shaft seal
S	EPDM with PTFE shaft seal

2nd pump code

compensator

see opposite page ➔

design series: compensator pump not required for order

For keyed shafts see catalog.
Please consider coupling sizes according to mounting interface size.

code	ports ¹⁾	threads ²⁾
1	BSPP	metric
3	UNF	UNC
4 ³⁾	BSPP	metric, M14
7	ISO 6149	UNC
8	ISO 6149	metric

- ¹⁾ drain, gage and flushing ports,
²⁾ all mounting and connecting threads
³⁾ for PV063, PV080-PV180 only:
pressure port 1 1/4" with
4 x M14 instead of 4 x M12

Compensator ordering code for all PV pumps with design series 45 and higher

P	V																		
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compensator

design series:
pump compensator
not required on order

code			compensator version
0	0	1	no compensator
1	0	0	with cover plate, no control function
compensator style			
M	M		standard pressure compensator
M	R		remote pressure compensator, remote control port on side
M	S		style R, for quick unload manifold
M	F		load sensing (flow) compensator load sensing port on side
M	T ³⁾		two valve flow-pressure compensator (see notes)
compensator variation			
	C ¹⁾		standard, no interface topside for pilot valves
	1		NG6 interface topside for pilot valves
	W ²⁾		with unloading function, 24VDC solenoid
	P ²⁾		manual pilot valve PVAC1P... mounted
	D		proportional pressure pilot valve PVACPP... mounted
	Z		for mounting of accessories code PVAC..., no integrated pressure pilot valve

code			compensator option
			electrohydraulic compensator
F	P	V	basic version of proportional displacement control, no pressure compensation
function			
U	P		proportional displacement control with pressure compensation
variation			
		R	remote pressure compensation NG 6 interface top side
		D	variation R, proportional pressure pilot valve type PVACPP...35 mounted
		G	variation R, pressure sensor and proportional pilot valve mounted for pressure resp. horse power control
		Z ²⁾	variation R, accessories mounted on topside interface
		S	remote pressure compensation NG 6 interface top side, for quick unload valve
		T	variation S, pressure sensor and proportional pilot valve mounted for pressure resp. horse power control
		P	remote pressure compensation NG 6 interface top side, for preload and quick unload manifold
		E	variation P, pressure sensor and proportional pilot valve mounted for pressure resp. horse power control

displacement				code	compensator option
				horse power compensator	
016	032	063			
028	046	100	140	180	270
				nominal horse power	
				B	3 kW
				C	4 kW
				D	5.5 kW
				E	7.5 kW
				G	11 kW
				H	15 kW
				K	18.5 kW
				M	22 kW
				S	30 kW
				T	37 kW
				U	45 kW
				W	55 kW
				Y	75 kW
				Z	90 kW
				2	110 kW
				3	132 kW
function					
				L	horse power compensator
				C	h. power comp. & load-sensing
variation					
				C	integrated adjustable pressure compensation
				1	NG6 interface topside
				W	electrical unloading feature, 24VDC
				D	with prop. pressure pilot valve
				Z	for mounting of accessories, no integrated pressure pilot valve

Notes:

compensator differential Δp is to be adjusted:remote pressure comp., horse power comp. 15 ± 1 barload sensing comp. (not horse power comp.) 10 ± 1 bar
(codes ...MF* and LS part of MT*)¹⁾ not for compensator style ...MT.²⁾ only for compensator style ...MT.³⁾ no integrated pressure pilot valve.