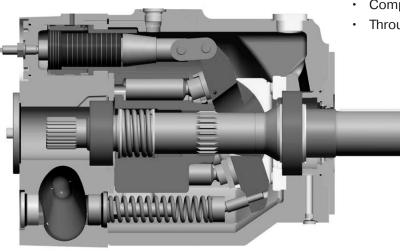
With through drive for single and multiple pumps

Swash plate type for open circuit



Technical Features

- Low noise level
- Fast response
- Service-friendly
- · High self-priming speed
- Compact design
- Through drive for 100 % nominal torque

General Information

Fluid recommendations

Premium quality hydraulic mineral fluid is recommended, like HLP oils to DIN 51524 (part 2 & 3) or ISO6743/4 (HM & HV). Brugger-value recommended to be 30 N/mm² minimum for general application and 50 N/mm² for heavily loaded hydraulic equipment and fast cycling machines and/or high dynamic loads, measured in accordance with DIN 51 347-2. See also Document MSG30-3248/UK Parker Hydraulic Fluids.

Viscosity

The normal operating viscosity should range between 16 and 100 mm²/s (cSt). Max. start-up viscosity is 1000 mm²/s (cSt).

Filtration

For maximum pump and system component functionality and life, the system should be protected from contamination by effective filtration.

Fluid cleanliness should be in accordance with ISO classification ISO 4406:1999. The quality of filter elements should be in accordance with ISO standards.

General hydraulic systems for satisfactory operation: Class 20/18/15, according to ISO 4406:1999 Recommended cleanliness for maximum component life and functionality: Class 18/16/13, according to ISO 4406:1999

Seals

Checkhydraulic fluid specification for chemical resistance of seal material.

Check temperature range of seal material and compare with max. system and ambient temperature.

N – Nitrile (FKM shaft seal) -25...+ 90 °C V – FKM (FKM shaft seal) -25...+115 °C W – Nitrile (PTFE shaft seal) -30...+ 90 °C

Note: The highest fluid temperature will be at the drain port of the pump, up to 25 °C higher than in the reservoir.

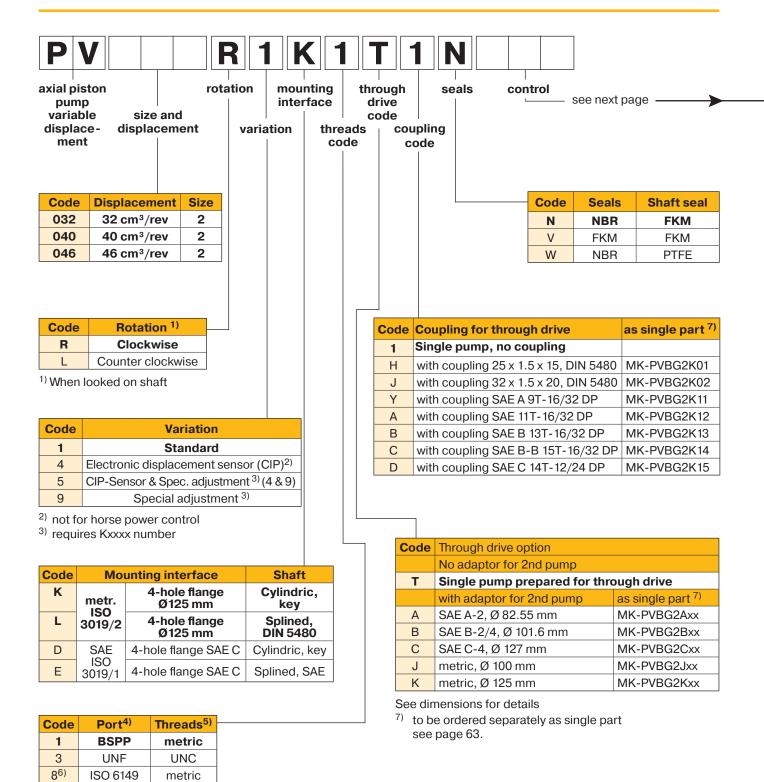


		PV016	PV020	PV023	PV028	PV032	PV040	PV046
Frame size		1	1	1	1	2	2	2
Max. displacement	[cm ³ /rev.]	16	20	23	28	32	40	46
Output flow at 1500 rpm	[l/min]	24	30	34,5	42	48	60	69
Nominal pressure pN	[bar]	350	350	350	350	350	350	350
Min. outlet pressure	[bar]	15	15	15	15	15	15	15
Max. pressure pmax at 20 % working cycle ¹⁾	[bar]	420	420	420	420	420	420	420
Case drain pressure, continuous	[bar]	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Case drain pressure, max. peak	[bar]	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Min. inlet pressure, abs.	[bar]	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Max. inlet pressure	[bar]	16	16	16	16	16	16	16
Input power at 1500 rpm and 350 bar	[kW]	15.9	19.7	22.4	26.9	31.1	38.5	43.8
Max. input torque at 350 bar	[Nm]	94.5	118.1	135.9	165.4	184.3	230.4	265.0
Max speed at 1 bar, abs, inlet pressure	[rpm]	3000	3000	3000	3000	2800	2800	2800
Min. speed	[rpm]	50	50	50	50	50	50	50
Moment of inertia	[kgm ²]	0.0016	0.0016	0.0016	0.0016	0.0047	0.0047	0.0047
Weight	[kg]	19	19	19	19	30	30	30

		PV063	PV080	PV092	PV140	PV180	PV270	PV360
Frame size		3	3	3	4	4	5	6
Max. displacement	[cm ³ /rev.]	63	80	92	140	180	270	360
Output flow at 1500 rpm	[l/min]	94.5	120	138	210	270	405	540
Nominal pressure pN	[bar]	350	350	350	350	350	350	350
Min. outlet pressure	[bar]	15	15	15	15	15	15	15
Max. pressure pmax at 20 % working cycle ¹⁾	[bar]	420	420	420	420	420	420	420
Case drain pressure, continuous	[bar]	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Case drain pressure, max. peak	[bar]	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Min. inlet pressure, abs.	[bar]	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Max. inlet pressure	[bar]	16	16	16	16	16	16	16
Input power at 1500 rpm and 350 bar	[kW]	61.3	76.9	87.5	136.1	173.1	259.6	338.7
Max. input torque at 350 bar	[Nm]	365.2	463.7	533.3	812.4	1044.5	1550.5	2067.4
Max speed at 1 bar, abs, inlet pressure	[rpm]	2800	2500	2300	2400	2200	1800	1750
Min. speed	[rpm]	50	50	50	50	50	50	50
Moment of inertia	[kgm ²]	0.018	0.018	0.018	0.030	0.030	0.098	0.103
Weight	[kg]	59	59	59	90	90	172	180

¹⁾ Check adjustment range each compensator.





⁴⁾ Drain, gage and flushing ports

Standard pump is not painted. Black painted pump and ATEX (excludes electronic components) certification (Zone 2) is available as special option. For additional informations please contact Parker Hannifin.



⁵⁾ All mounting and connecting threads

⁶⁾ Mounting interface, code K and L only

Code		е	Control options				
0	0	1	No control				
1	0	0	With cover plate, no control function (fixed displacement pump)				
М	М		Standard pressure control				
М	R		Remote pressure control				
М	F		Load Sensing (flow) control				
М	Т		Two spool LS control				
			Control variation				
		С	Standard version, integrated pilot valve 1)				
		1	NG6 interface top side for pilot valves 1)				
		2	Remote pressure port int. supply, NG6 interface 2)				
		3	Remote pressure port ext. supply 2)				
		W	With unloading function, 24VDC solenoid 1)				
		K	Proppilot valve type PVACREK35 mounted				
		Z	Without integrated pilot valve, NG6 interface,				
			for mounting of accessory code PVAC*				
		В	Without integrated pilot valve, without NG6 interface 3)				
		Р	MTZ with mounted pilot valve PVAC1P ²⁾				

¹⁾ not for MT & *Z
2) only for MT & *Z
3) not for MT & MM

-	Horse power / Torque control							
Code								
			Nominal HP at 1.500 rpm	Nominal torque				
D			5.5 kW	35 Nm				
Ε			7.5 kW	50 Nm				
G			11 kW	71 Nm				
Н			15 kW 97 Nm					
K			18.5 kW 120 Nm					
М			22 kW 142 Nm					
S			30 kW 195 Nm					
			Fund	ction				
	L		Horse power control with pressure control 4)					
	С		Horse power control with load sensing (single spool)					
	Z		Horse power control with two spool LS control					
	Control variation							
		С	Standard version, integrated pilot valve 1)					
		1	NG 6 interface top side					
		W	With unloading function, 24 VDC solenoid					
		K	Proppilot valve type PVACREK35 mounted					
		Z	Without integrated pilot valve, NG6 interface, for mounting of accessory code PVAC* 4)					
		В	Without integrated pilot valve, without NG6 interface 1), 4)					
		Р	*ZZ with mounted pilot valve PVAC1P 2)					

⁴⁾ control variation Z and B without pressure pilot



Control option

 Electro hydraulic control 5)

 F
 D
 V
 Proportional displacement control, no pressure compensation

 U
 D
 Proportional displacement control, with pressure compensation

 Control variation

 B
 pilot operated pressure control, open NG6 interface

 B
 pilot operated pressure control, proportional pilot valve type PVACRE...K35 mounted

 B
 M
 pilot operated pressure control, pressure sensor and proportional pilot valve type PVACRE...K35 mounted for pressure control and/or power control

⁵⁾ further info in MSG30-3254