With thru 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
- Thru drive for 100% nominal torque

General Information

Fluid recommendations

Premium quality hydraulic mineral fluid is recommended, like HLP oils to DIN 51524, part 2. Brugger- value has 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 HY30-3248/UK Parker Hydraulic Fluids.

Viscosity

The normal operating viscosity should range between 16 and 100 mm²/s (cSt). Max. start-up viscosity is 800 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

Check hydraulic fluid specification for chemical resistance of seal material.

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

- $\begin{array}{ll} \mathsf{N}-&\mathsf{Nitrile}\;(\mathsf{FKM}\;\mathsf{shaft}\;\mathsf{seal}) & -25...+90\ ^\circ\mathsf{C}\\ \mathsf{B}-&\mathsf{Nitrile}\;(\mathsf{NBR}\;\mathsf{shaft}\;\mathsf{seal}) & -40...+90\ ^\circ\mathsf{C}\\ \mathsf{V}-&\mathsf{FKM}\;(\mathsf{FKM}\;\mathsf{shaft}\;\mathsf{seal}) & -25...+115\ ^\circ\mathsf{C} \end{array}$
- W Nitrile (PTFE shaft seal) -30...+90 °C
- P FKM (PTFE shaft seal) -25...+115 °C
- **Note:** The highest fluid temperature will be at the drain port of the pump, up to 25 °C higher than in the reservoir.



Catalogue HY30-3245/UK **Technical Data**

Axial Piston Pump PV 016 to 360

		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]	15.5	19.5	22.5	27.5	31	39	45
Max speed at 1 bar, abs, inlet pressure	[rpm]	3000	3000	3000	3000	2800	2800	2800
Min. speed	[rpm]	400	400	400	400	400	400	400
Moment of inertia	[kgm ²]	0.0017	0.0017	0.0017	0.0017	0.0043	0.0043	0.0043
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]	61.5	78	89.5	136	175	263	350
Max speed at 1 bar, abs, inlet pressure	[rpm]	2800	2500	2300	2400	2200	1800	1750
Min. speed	[rpm]	400	400	400	400	400	400	400
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) Special control options required.



Axial Piston Pump PV 016 to 028

Ρ	V			F	}	1	K			T	• •	1		V							
axial pu	piston mp	·		rota	tion	r i	nount nterfa	ing ace	1	thru co	drive de		se	eals		co i	ntrol	see next page			
displac	cement	displa	size and acement		var	iation	1	thro co	eads de	s	CO	upli ode	ng Ə								
Code	Displ	lacemen	nt Size														Code	Seal	s	Shaft seal	
016	16 c	cm³/rev	1														Ν	NBF	R	FKM	
020	20 0	cm³/rev	1														V	FKN	Л	FKM	
023	23 0	cm³/rev	1														W	NBF	R	PTFE	
028	28 0	cm³/rev	1														Р	FKN	Λ	PTFE	
-				_													В	NBF	7	NBR	
Code	Ro	otation ¹)								Co	de	Co	upliı	ng for t	hru o	drive			as single part	7)
R	Cl	ockwise	•									1	Sir	Igle	pump,	no c	oupling	3		•••	
L	Count	er clock	wise									н	wit	h cou	upling 2	25 x 1	.5 x 15	, DIN 54	80	MK-PVBG1K0	1
¹⁾ Wher	looked	on shaf	t									Y	wit	h coi	upling S	SAE A	9T- 16	/32 DP		MK-PVBG1K1	1
												A	wit	h coi	upling S	SAE -	11T-16	/32 DP		MK-PVBG1K1	2
												В	wit	h coi	upling S	SAE E	3 13T-1	6/32 DP		MK-PVBG1K1	3
Code		Va	riation			_1					(0	wit	h coi	upling S	SAE E	3-B 15T	-16/32 D)P	MK-PVBG1K1	4
1		Sta	andard																		
2	Electro	onic disp	lacement	sensor	- 2)																
9		Special a	adjustmen	t ³⁾																	
²⁾ not fo	r horse	power c	ontrol																		
³⁾ requir	res Kxxx	xx numb	er							L		1									
													Т			tion					
												ode			irive op						
Code		Mountin	ng interfac	e		S	haft					т		nalo			pump arod fo	ar thru d	Irivo		
K	metr. IS	O 4-hol	le flange Ø	2100 m		yline	aric, k	ey					Jw/i	th ac	aptor f	or 2n	d nump		sine	le part ⁷⁾	
L	3019/2	- 4-hol	e flange Ø	0100 m		uned	, DIN 5	5480				Y	S	AF A	A. Ø 50).8 m	m pump	M	<-PV	BG1Yxx	
D	SAE	4-h	ole flange	SAE E	5	Cyline	aric, ke	ey				A	SI		, <u>0</u> 00	55 m	 n	M		BG1Axx	
E	3019/1	1 4-ho	le flange S	SAE B-	·B	Splin	ed, SA	νE				В	S	\E R	, ~ 02.	.6 m	 n	M	(-PV	BG1Bxx	
												G	m	etric.	Ø 63 n	nm		Mł	<-PV	BG1Gxx	
												Н	m	etric.	Ø 80 n	nm		Mł	·-PV	BG1Hxx	
	-	.4)		5)								J	m	etric,	Ø 100	mm		Mł	<-PV	BG1Jxx	
Code	Pol	rt" [,]	Inreads						-		Se	e di	mens	ions	for deta	ails		I			
1	BS 		metric	\square							7)	to b	e ord	ered	separa	telv a	as sinal	e part			
3			UNC								:	see	page	61.		,	3				
7	1506	6149	UNC																		
8%	ISO 6	6149	metric																		
-																					
4) Drain	, gage a	and flush	ing ports																		
 All mo Moun 	ounting a	and con	necting thi	eads																	



Co	de		Control options
0	0	1	No control
1	0	0	With cover plate, no control function (fixed displacement pump)
М	М		Standard pressure control, integrated pilot valve
М	R		Remote pressure control, integrated pilot valve
М	F		Load Sensing (flow) control, integrated pilot valve
М	Т		Two spool LS control
			Control variation
		С	Standard version ¹⁾
		1	NG6 interface top side for pilot valves
		2	Remote pressure port int. supply , NG6 interface 2)
		3	Remote pressure port ext. supply ²⁾
		W	With unloading function, 24VDC solenoid 1)
		Κ	Proppilot valve type PVACRE35 mounted
		Z	Without integrated pilot valve, NG6 interface, for mounting of accessory code PVAC*
		В	Without integrated pilot valve, without NG6 interface 3)
		Ρ	MT1 with mounted pilot valve PVAC1P ²⁾

 Horse power / Torque control													
Displ	acem.		Code	e									
016 028					Nominal HP at 1.500 rpm	Nominal torque							
		В			3 kW	20 Nm							
		С			4 kW	25 Nm							
		D			5.5 kW	35 Nm							
		Е			7.5 kW	50 Nm							
		G			11 kW	71 Nm							
		Н			15 kW	97 Nm							
		Κ			18.5 kW	120 Nm							
					Function								
			L		Horse power control w	vith pressure control 4)							
			С		Horse power control v	vith load sensing (single spool)							
					Control variation								
				С	Standard version								
				1	NG 6 interface top sid	e							
				W	With unloading function	on, 24 VDC solenoid							
				K	Proppilot valve type PVACRE35 mounted								
				Z	Without integrated pilot valve, NG6 interface, for mounting of accessory code PVAC* ⁴⁾								
				В	Without integrated pilot valve, without NG6 interface 4)								

		_	_													
_	Со	de		Control option												
	Ele	ectro	hyd	Iraulic control												
	F	Р	V	Proportional displacement control, no pressure compensation												
	U	Ρ		Proportional displacement control, with pressure compensation												
	Со	ntro	l var	iation												
			R	pilot operated pressure control, open NG6 interface												
			К	pilot operated pressure control, proportional pilot valve type PVACRE35 mounted												
			М	pilot operated pressure control, pressure sensor and proportional pilot valve type PVACRE35 mounted for pressure control and/or power control												



Axial Piston Pump PV 032 to 046

Ρ	V				R			Κ	1		T			N										
axial pu	piston mp				rotati	on	mo	ountir terfac	ng e	t	hru dr code	ive		sea	als		C	ontr	ol	see next	pag	e		
vari displa	able cement	die	size and	mont		varia	ition		thre co	ads de		cou co	pling ode	9										
		013		nem																				
Code	Disp	lacem	ent	Size										L				C	ode	Seals		Shaft seal		
032	32	cm³/re	v	2															N	NBR		FKM		
040	40	cm ³ /re	v	2															V	FKM		FKM		
046	46	cm ³ /re	v	2															W	NBR		PTFE		
																				FKM		NDD		
																		Ļ	в	NBR		NBR		
	1			_																				
Code	R	otatior	ו ¹⁾									Cod	de	Cou	plin	g for	thru	ı dri	ve		as	single part	7)	
R	C	lockwi	se									1		Sing	gle p	oump,	no	cou	pling					
L	Coun	ter cloo	ckwise	;								Н		with	cou	pling 2	25 x	1.5	x 15, l	DIN 5480	MK	-PVBG2K0	1	
1) When	looked	l on sha	aft									J		with	cou	pling 3	32 x	1.5	x 20, I	DIN 5480	MK	-PVBG2K02	2	
												Y		with coupling SAE A 9T-16/32 DP MK-PVBG2K								-PVBG2K1	1	
												A		with coupling SAE - 11T-16/32 DP MK-PVBG2K12									2	
Code		,	Variat	ion								B		with coupling SAE B 13T-16/32 DP MK-PVBG2K1								-PVBG2K1	3	
1		9	Stand	ard								C		with	cou	pling S	SAE	B-E	3 15T-1	6/32 DP	MK	-PVBG2K14	1	
2	Electr	onic di	splace	ement se	ensor ²	2)						D		with	cou	pling S	SAE	C 1	4T-12/	24 DP	MK	-PVBG2K1	5	
9		Specia	al adju	stment	3)																			
²⁾ not fo	or horse	nower	contr	ol																				
³⁾ requi	res Kxx	xx num	nber	01																				
	1					-						Со	de	Thru	u dri	ve opt	tion							
Code		Moun	ting ir	nterface)		Sha	ıft						Noa	adap	otor fo	r 2n	d pu	Imp					
K	metr. IS	SO 4-h	nole fla	ange Ø1	25 mr	n Cy	/lindr	ic, ke	у			Т	•	Sin	gle	pump	pre	pare	ed for	thru drive	e			
L	3019/	2 4-h	ole fla	ange Ø1	25 mr	n Spli	ned, E	DIN 54	180					with	ada	aptor fo	or 2	nd p	ump	as sing	gle pa	art ⁶⁾		
D	SAE	4	-hole	flange S	SAE C	C	ylindri	c, key				A	<u>۱</u>	SAE	ΞΑ,	Ø 82.9	55 n	nm		MK-P	VBG2	2Axx		
E	3019/	'1 4	-hole	flange S	SAE C	S	plined	, SAE	·			E	3	SAE	ΞВ,	Ø 101	.6 n	nm		MK-P	VBG2	2Bxx		
										C	;	SAE C, Ø 127 mm MK-PVBG2Cxx							2Cxx					
											G	ì	met	ric, (0 63 n	nm			MK-P	VBG2	2Gxx			
												F	1	met	ric, (⊘ 80 n	nm			MK-P	VBG2			
Code	Po	ort ⁴⁾	Th	reads ⁵⁾								J		met	ric, (0 100 0 105	mm	1			VBG2			
1	BS	SPP	n	netric								_ K	-11-	met	HC, 9	0 125	- 11	1			v DG2			
3	U	NF		UNC								See	dime	ensio	ons f	or deta	alls		cinala	nort				
7	ISO	6149		UNC								· / [0	ee n	ade	61.	separ	atel	y as	Single	ματ				
8 ⁶⁾	ISO	6149	r	netric									P	~90	2									
4) Drain	. gage a	and flue	shina r	oorts																				

⁵⁾ All mounting and connecting threads

⁶⁾ Mounting interface, code K and L only



Co	de		Control options
0	0	1	No control
1	0	0	With cover plate, no control function (fixed displacement pump)
М	М		Standard pressure control, integrated pilot valve
М	R		Remote pressure control, integrated pilot valve
М	F		Load Sensing (flow) control, integrated pilot valve
М	Т		Two spool LS control
			Control variation
		С	Standard version 1)
		1	NG6 interface top side for pilot valves
		2	Remote pressure port int. supply , NG6 interface 2)
		3	Remote pressure port ext. supply ²⁾
		W	With unloading function, 24VDC solenoid 1)
		Κ	Proppilot valve type PVACRE35 mounted
		Z	Without integrated pilot valve, NG6 interface, for mounting of accessory code PVAC*
		В	Without integrated pilot valve, without NG6 interface 3)
		Ρ	MT1 with mounted pilot valve PVAC1P ²⁾

 Horse power / Torque control															
Displ	acem.		Code	e											
032 046					Nominal HP at 1.500 rpm	Nominal torque									
		D			5.5 kW	35 Nm									
		Е			7.5 kW	50 Nm									
		G			11 kW	71 Nm									
		Н			15 kW	97 Nm									
		К			18.5 kW	120 Nm									
		М			22 kW	142 Nm									
		S			30 kW	195 Nm									
					Function										
			L		Horse power control w	vith pressure control ⁴⁾									
			С		Horse power control w	vith load sensing (single spool)									
		_	_		Control variation										
				С	Standard version										
				1	NG 6 interface top sid	e									
				W	With unloading function	on, 24 VDC solenoid									
				K	Proppilot valve type PVACRE35 mounted										
				Z	Without integrated pilot valve, NG6 interface, for mounting of accessory code PVAC* ⁴⁾										
				В	Without integrated pilot valve, without NG6 interface 4)										

Со	de		Control option
Ele	ctro	hyd	Iraulic control
F	Ρ	V	Proportional displacement control, no pressure compensation
U	Ρ		Proportional displacement control, with pressure compensation
Со	ntro	l var	iation
		R	pilot operated pressure control, open NG6 interface
		К	pilot operated pressure control, proportional pilot valve type PVACRE35 mounted
		М	pilot operated pressure control, pressure sensor and proportional pilot valve type PVACRE35 mounted for pressure control and/or power control



Axial Piston Pump PV 063 to 092

Ρ	V			R		K		1	Τ			V						
axial pu vari	oiston mp able	siz	ze	rotati	on	mour	nting face	th	nru dr code	rive e	Se	eals	с	omper	sator	see next	page —	
displac hi pres	cement gh sure	an displac	nd cement		varia	tion	thre co	eads ode		cou	ode 							
vers	sion																	
Code	Displac	ement	Size											C	ode	Seals	Shaft s	eal
063	63 cm	³ /rev	3												N	NBR	FKM	
080	80 cm	³/rev	3	-											V	FKM	FKM	
092	92 cm	³/rev	3												W	NBR	PTFE	
			1												P	FKM	PTFE	E
															В	NBR	NBR	
										Cod	de Co	ilau	na for	thru dr	ive		as single p	art ⁷⁾
Code	Rota	tion ¹⁾								1	Si	nale	pump.	no co	uplina			
R	Cloc	kwise								H	wit	h co	uplina 2	25 x 1.5	5 x 15.	DIN 5480	MK-PVBG3	K01
L	Counter	clockwi	se							J	wit	h co	uplina (32 x 1.5	5 x 20.	DIN 5480	MK-PVBG3	K02
1) When	looked on	shaft								K	wit	h co	upling 4	40 x 1.5	5 x 25, I	DIN 5480	MK-PVBG3	K03
										Y	wit	h co	upling s	SAE A	9T-16/3	2 DP	MK-PVBG3	K11
										A	wit	h co	upling s	SAE - 1	1T-16/3	32 DP	MK-PVBG3	K12
Code		Vari	ation							В	wit	h co	upling S	SAE B	13T-16/	/32 DP	MK-PVBG3	K13
1		Stor	allon							С	wit	h co	upling S	SAE B-	B 15T-1	16/32 DP	MK-PVBG3	K14
1	Electroni			oncor	2)					D	wit	h co	upling \$	SAE C	14T-12	/24 DP	MK-PVBG3	K15
2 0	Sn	ocial ac	liustmont	3)	<i>,</i>					E	wit	h co	upling \$	SAE C-	C 17T-	12/24 DP	MK-PVBG3	K16
2) not fo				,						F	wit	h co	upling S	SAE D,	E 13T-	8/16 DP	MK-PVBG3	K17
³⁾ requi	es Kxxxx	number																
Code	Mc	untina	interfac	<u>م</u>		Shaft												
K	metr ISO	4-hole	flange Ø	- 160 mr	n Cv	lindric	kev				1							1
L	3019/2	4-hole	flance Ø	160 m	n Soli	ned. DIN	5480			- C	ode T	hru o	drive op	otion				
D	SAE	4-hol	e flance s	SAE D	C	vlindric.	key				Ν	lo ac	laptor f	or 2nd	pump			
F	ISO	4 60	o flance (nlined C					T S	Singl	e pum	p prepa	ared fo	r thru driv	/e	
E	3019/1	4-1101	e nange .	SAE D	3	pineu, s	AE				v	/ith a	daptor	for 2nd	pump	as si	ngle part 7)	
											A S	SAE /	A, Ø 82	2.55 mn	า	MK-F	VBG3Axx	
											BS	SAE E	3, Ø 10	1.6 mm	۱	MK-F	VBG3Bxx	
Code	Port ⁴) T	Threads ⁵									SAE (J, Ø 12	27 mm		MK-F	VBG3Cxx	
1	RCDI	,	metric									AE [J, Ø 15	2.4 mn	ו	MK-F	VBG3Dxx	
3											G n	netric	c, Ø 63	mm		MK-F	VBG3GXX	
<u>4</u> 6)	RCPE		metr M14										, 0 80	(IIII)		MK-F		
7	1SO 61	49	UNC								J n							
8	ISO 61	49	metric	-								netric	, 12 0 1 E					
	100 01												, 10 10 . for al				VDGJLXX	
⁵⁾ All m	, gage and	d conne	ng ports acting the	ehee						5ee 7)	e aimen	sion	s tor de	etallS pratoly	ae eine	lo nart		
⁶⁾ For F	V063-PV0	92 only	: pressur	e port	1 1/4"					,	see pa	ge 6	-u sepa 1.	aratery i	as sing	εμαίι		
with 4	4 x M14 in	stead of	f 4 x M12	-							1	5						



de		Control options
0	1	No control
0	0	With cover plate, no control function (fixed displacement pump)
М		Standard pressure control, integrated pilot valve
R		Remote pressure control, integrated pilot valve
F		Load Sensing (flow) control, integrated pilot valve
Т		Two spool LS control
		Control variation
	С	Standard version 1)
	1	NG6 interface top side for pilot valves
	2	Remote pressure port int. supply , NG6 interface ²⁾
	3	Remote pressure port ext. supply ²⁾
	W	With unloading function, 24VDC solenoid 1)
	Κ	Proppilot valve type PVACRE35 mounted
	Z	Without integrated pilot valve, NG6 interface, for mounting of accessory code PVAC*
	В	Without integrated pilot valve, without NG6 interface 3)
	Ρ	MT1 with mounted pilot valve PVAC1P ²⁾
	de 0 0 M F T - - - - - - - - - - - - -	0 1 0 0 M 0 R 0 F 0 T 0 T 0 C 1 Q 0 I 2 I 2 I 2 K 2 K K I B I P

 Horse power / Torque control													
Displ	acem.	(Code	e									
063 092					Nominal HP at 1.500 rpm	Nominal torque							
		G			11 kW	71 Nm							
		н			15 kW	97 Nm							
		K			18.5 kW	120 Nm							
		Μ			22 kW	142 Nm							
		S			30 kW	195 Nm							
		Т			37 kW	240 Nm							
		U			45 kW	290 Nm							
		W			55 kW	355 Nm							
					Function								
			L		Horse power control v	vith pressure control ⁴⁾							
			С		Horse power control v	vith load sensing (single spool)							
					Control variation								
				С	Standard version								
				1	NG 6 interface top sid	le							
W				W	With unloading function	on, 24 VDC solenoid							
К				Κ	Proppilot valve type PVACRE35 mounted								
				Z	Without integrated pilot valve, NG6 interface, for mounting of accessory code PVAC* ⁴⁾								
				В	Without integrated pilot valve, without NG6 interface ⁴⁾								

4) control variation Z and B without pressure control

-	Co	de		Control option											
	Ele	ectro	hyd	Iraulic control											
	F	Ρ	V	Proportional displacement control, no pressure compensation											
	U	Ρ		Proportional displacement control, with pressure compensation											
	Control variation														
			R	pilot operated pressure control, open NG6 interface											
			К	pilot operated pressure control, proportional pilot valve type PVACRE35 mounted											
			М	pilot operated pressure control, pressure sensor and proportional pilot valve type PVACRE35 mounted for pressure control and/or power control											

Axial Piston Pump **PV 140 to 180**

Ρ	V			R	1		<	1		T			Ν							
axial pu vari	piston mp			rotatio	n mounting interface					u dri code	ve		seals	5	C	ontrol	– see n	next page		
displa	cement	size and displace	ment		varia	tion	hrea coc	ads le		coul co	pling de									
																	1			
	1		ĺ													Code	Sea	ls	Shaft sea	I
Code	Displac	ement	Size													N	NB	R	FKM	
140	140 cr	n³/rev	4													V	FKI	M	FKM	
180	180 cr	n³/rev	4													W	NB	R	PTFE	
																P	FKI	M	PTFE	
																В	NB	R	NBR	
											Cod	le C	oupl	ing for	thru	ı drive			as single par	t ⁸⁾
Code	Rota	tion ¹⁾									1	S	ingle	e pump	, no	couplin	ıg			
R	Cloc	kwise									Н	v	vith co	oupling	25 x	1.5 x 1	5, <mark>DIN</mark> 54	180	MK-PVBG4K0)1
L	Counter	clockwise	e								J	v	vith co	bu <mark>pli</mark> ng	32 x	1.5 x 20	<mark>),</mark> DIN 54	80	MK-PVBG4K0)2
When	looked or	n shaft]								K	v	vith co	oupling	40 x	1.5 x 28	5, DIN 54	80	MK-PVBG4K0	3
••••icii		ronan									L	v	vith co	oupling	50 x	2 x 24,	DIN 548	0	MK-PVBG4K0)4
											Y	v	vith co	oupling	SAE	A 9T-16	6/32 DP		MK-PVBG4K1	1
0		Mandar									A	V	vith co	oupling	SAE	- 11T-1	6/32 DP		MK-PVBG4K1	2
Code		Variat	tion								В	V	vith co	oupling	SAE	B 13T-1	16/32 DP	'	MK-PVBG4K1	3
1		Stand	lard	2)	_						С	v	vith co	oupling	SAE	B-B 15	T-16/32 [DP	MK-PVBG4K1	4
2	Electron	c displace	ement se	nsor ²	_						D	V	vith co	oupling	SAE	C 14T-	12/24 DF)	MK-PVBG4K1	5
9	Sp	eciai adju	ustment	<i>'</i>)								v	vith co	oupling	SAE	C-C 17	'T-12/24	DP	MK-PVBG4K1	6
not fo	r horse po	wer contr	rol									v	ith co	bupling	SAE	D, E 13	31-8/16 D	<u>Р</u>	MK-PVBG4K1	7
requi		number									G	V	lith co	pupling	SAE	F 151-8	3/16 DP		MK-PVBG4K1	8
Code	M	ounting i	nterface			Shaf	+													
K	metr ISO	4-hole fl	ange Ø1	60 mm	Cv	lindric	. kev													
L	3019/2	4-hole fl	ange Ø1	60 mm	Spli	ned. DI	N 548	0												
D		4-hole	flange S	AE D	C	vlindric	, key				Co	de	Thru o	drive or	otion					
Е	SAE	4-hole f	lange SA	E D-F	S	, olined,	SAE						No ac	laptor fo	or 2r	nd pump				
F	1SO 3019/1	4-hole	flange S	AE D	C	ylindric	, key				т	-	Sinal	e pum	o pre	epared f	or thru	drive		
G	0010/1	4-hole	flange S	AE D	S	olined,	SAE						with a	daptor	for 2	nd pum	p as	sino	le part ⁸⁾	
								_			A		SAE /	A, Ø 82	.55 r	nm	M	K-PV	/BG4Axx	
											В	3	SAE I	B, Ø 10	1.6 r	nm	М	K-PV	/BG4Bxx	
Code	Port ⁴	ⁱ⁾ Th	reads ⁵⁾								C)	SAE (C, Ø 12	7 m	n	M	K-PV	/BG4Cxx	
1	BSPI		metric								C)	SAE I	D, Ø 15	2.4 r	nm	M	K-PV	/BG4Dxx	
3	UNF		UNC								H	1	netrio	c, Ø 80	mm		M	K-PV	/BG4Hxx	
4 ⁶⁾	BSPF	> m	etr. M14								J	J	netrio	c, Ø 100	0 mn	n	М	K-PV	/BG4Jxx	
7	ISO 61	49	UNC	_							ĸ	(]	netric	c, Ø 125	5 mn	n	M	K-PV	/BG4Kxx	
8 ⁷⁾	ISO 61	49 1	metric								L	- 1	netric	c, Ø 160) mn	n	M	K-PV	/BG4Lxx	
		fluching	norte								See	dime	nsion	s for de	tails					
) All mo	yage and	d connect	ports ting three	ahi							⁸⁾ te	o be d	ordere	ed sepa	arate	ly as sin	gle part			
Press	ure port 1	1/4" with	4 x M14	instead	d of 4	x M12					S	see pa	ige 6	1.						

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



7) Mounting interface, code K and L only

Co	de		Control options
0	0	1	No control
1	0	0	With cover plate, no control function (fixed displacement pump)
М	М		Standard pressure control, integrated pilot valve
М	R		Remote pressure control, integrated pilot valve
М	F		Load Sensing (flow) control, integrated pilot valve
М	Т		Two spool LS control
			Control variation
		С	Standard version 1)
		1	NG6 interface top side for pilot valves
		2	Remote pressure port int. supply , NG6 interface 2)
		3	Remote pressure port ext. supply ²⁾
		W	With unloading function, 24VDC solenoid ¹⁾
		Κ	Proppilot valve type PVACRE35 mounted
		Z	Without integrated pilot valve, NG6 interface, for mounting of accessory code PVAC*
		В	Without integrated pilot valve, without NG6 interface 3)
		Ρ	MT1 with mounted pilot valve PVAC1P ²⁾

	Horse power / Torque control														
	Displa	acem.		Code	e										
	140	180				Nominal HP at 1.500 rpm	Nominal torque								
			Κ			18.5 kW	120 Nm								
			М			22 kW	142 Nm								
			S			30 kW	195 Nm								
			Т			37 kW	240 Nm								
			U			45 kW	290 Nm								
			W			55 kW	355 Nm								
			Y			75 kW	485 Nm								
			Ζ			90 kW	585 Nm								
			2			110 kW	715 Nm								
						Function									
				L		Horse power control v	vith pressure control 4)								
				С		Horse power control v	vith load sensing (single spool)								
						Control variation	1								
					С	Standard version									
					1	NG 6 interface top sid	e								
	W				W	With unloading function	on, 24 VDC solenoid								
	K				K	Proppilot valve type PVACRE35 mounted									
					Z	Without integrated pilot valve, NG6 interface, for mounting of accessory code PVAC* 4)									
B						Without integrated pilot valve, without NG6 interface ⁴⁾									

Co	de		Control option											
Ele	ectro	hyd	Iraulic control											
F	Р	V	Proportional displacement control, no pressure compensation											
U	Ρ		Proportional displacement control, with pressure compensation											
Control variation														
		R	pilot operated pressure control, open NG6 interface											
		к	pilot operated pressure control, proportional pilot valve type PVACRE35 mounted											
		М	pilot operated pressure control, pressure sensor and proportional pilot valve type PVACRE35 mounted for pressure control and/or power control											



Ρ	V				F	२	1] k		1			1	Ν									
axial pu	oiston mp				rota	ation		moui inter	nting face		thru c	drive de		seals	;	co	ompe	nsato	r — se	e next	page —		
displac hig	able cement gh sure	s a displa	size and acem	nent		va	riatio	n	th	reac code	ds e	CO (upling code	1									
vers	sion																						
																	_ (Code	5	Seals	Shaft	seal	
Code	Displa	comon	t l	Size	1													Ν		NBR	FKI	N	
270	270 0	m ³ /rov		5120														V		FKM	FKI	Ν	
270	270 0	III-/IEV		5														W		NBR	PTF	E	
																		Р		FKM	PTF	E	-
																		В		NBR	NB	R]
			`															•				. 6)	1
Code	Rota	ation 1)			1						Co	de C	oupli	ng to	or th	ru dr	ive	_	_	as single	part ⁹⁾	
R	Clo	ckwise	•	-										Single	pum	p, n		ipling		- 100		=1/04	-
L	Counter	Clock	NISE									F			upling	g 25	X 1.5	X 15,	DIN	5480		5K01	-
¹⁾ When	looked or	n shaft												/ith co	upling	g 32 ~ 40	X 1.5	x 20,		5480		5KU2	-
												r		/ith co	upling	y 40 7 50	x 1.5	24 D		190			-
													V	/ith co	upling	y 50 n 60	x 2 x	24, D	NN 54	480	MK-PVBG	5605	-
Code		Ve	riatio											vith coupling SAE A 9T-16/32 DP MK-PVBG5K1								5K11	-
Code	Variation											Ā	 A v	ith co	upling	a SA	E - 1	1T-16	/32 D)P	MK-PVBG	5K12	-
1	Fleetren	Sta in dian	anda	ra nont or		- 2)						B with coupling SAE B 13T-16/32 DP MK-PVBG					5K13						
2	Election		acer	tmont	3)	r =/						(C V	with coupling SAE B-B 15T-16/32 DP MK-PVBG5						5K14	-		
2)			aujus		,							0) v	ith co	upling	g SA	AE C	14T-12	2/24 [DP	MK-PVBG	5K15	
²⁾ not io ³⁾ requir	r norse po es Kxxxx	numbe	ontro er									E	E v	ith co	upling	g SA	E C-	C 17T	-12/2	4 DP	MK-PVBG	5K16	
												F	= v	ith co	upling	g SA	ΑE D,	E 13T	-8/16	6 DP	MK-PVBG	5K17]
												(G v	ith co	upling	g SA	E F	5T-8/	16 DI	Р	MK-PVBG	5K18	
Code	М	ountin	ig int	terface				Shaft															
К	metr. ISO	4-hol	e flai	nge Ø2	200 n	nm	Cylir	ndric,	key				Codo	Thru	drivo		lion						
L	3019/2	4-hol	e flai	nge Ø2	200 n	nm S	pline	d, DIN	1 5480				coue	Nee	danta							-	
D	SAE	4-h	ole fl	ange S	SAE I	E	Cylir	ndric,	key			_	т	Since				pump arod t	, for th	uru driv	10	-	
Е	3019/1	4-ho	le fla	inge SA	λE E	-F	Splin	ned, S	SAE				<u> </u>	with	adant	tor f	or 2n				nale nart ⁶⁾		
										-		-	A	SAF	A.Ø	82.	55 m	n n	۲	MK-F	VBG5Axx		
													В	SAE	B,Ø	101	.6 mr	n		MK-F	VBG5Bxx	1	
													С	SAE	C, Ø	127	′ mm			MK-F	VBG5Cxx	1	
Code	Port	4)	Thr	eads ⁵⁾									D	SAE	D, Ø	152	2.4 mr	n		MK-F	VBG5Dxx	1	
1	BSP	P	m	etric									Е	SAE	E, Ø	165	5.1 mr	n		MK-F	VBG5Exx		
3	UNF	-	L	JNC									Н	metr	ic, Ø	80 r	nm			MK-F	VBG5Hxx		
7	ISO 61	49	ι	JNC	2								J	metr	ic, Ø	100	mm			MK-F	VBG5Jxx		
8	ISO 61	49	m	etric									К	metr	ic, Ø	125	mm			MK-F	VBG5Kxx	_	
4) Drain	. gage an	d flush	ina r	orts									L	metr	ic, Ø	160	mm			MK-F	VBG5Lxx	4	
⁵⁾ All m	ounting a	nd con	necti	ng thre	ads								М	metr	ic, Ø	200	mm			MK-F	VBG5Mxx		
												S	ee dim	ensio	ns for	det	ails						
												б)	to be	e orde	red se	əpar	ately	as sin	ngle p	art			
													366	page (



Co	de		Control options
0	0	1	No control
1	0	0	With cover plate, no control function (fixed displacement pump)
Μ	М		Standard pressure control, integrated pilot valve
М	R		Remote pressure control, integrated pilot valve
М	F		Load Sensing (flow) control, integrated pilot valve
М	Т		Two spool LS control
			Control variation
		С	Standard version 1)
		1	NG6 interface top side for pilot valves
		2	Remote pressure port int. supply , NG6 interface ²⁾
		3	Remote pressure port ext. supply ²⁾
		W	With unloading function, 24VDC solenoid ¹⁾
		Κ	Proppilot valve type PVACRE35 mounted
		Z	Without integrated pilot valve, NG6 interface, for mounting of accessory code PVAC*
		В	Without integrated pilot valve, without NG6 interface 3)
		Ρ	MT1 with mounted pilot valve PVAC1P ²⁾

	Horse power / Torque control												
Displa	acem.		Code	;									
270					Nominal HP at 1.500 rpm			Nominal torque					
		Т			37 kW			240 Nm					
		U			45 kW			290 Nm					
		W			55 kW			350 Nm					
		Υ			75 kW			480 Nm					
		Ζ			90 kW			580 Nm					
		2			110 kW			700 Nm					
		3			132 kW			840 Nm					
					Function	1							
			L		Horse power cont	trol v	vith press	sure control 4)					
			С		Horse power cont	trol v	vith load :	sensing (single	spool)				
					Control varia	atior	ו						
				С	Standard version								
				1	NG 6 interface top side								
				W	With unloading fu	nctio	on, 24 VD	C solenoid					
				K	Proppilot valve t	уре	PVACRE	35 mounted					
				Z	Without integrated for mounting of ac	d pilo cces	ot valve, l sory code	NG6 interface, e PVAC* ⁴⁾					
				В	Without integrate	d pilo	ot valve, v	without NG6 inte	erface ⁴⁾				

~										
Co	de		Control option							
Ele	ctro	hyd	Iraulic control							
F	Ρ	V	Proportional displacement control, no pressure compensation							
U	Ρ		Proportional displacement control, with pressure compensation							
Control variation										
		R	pilot operated pressure control, open NG6 interface							
		К	pilot operated pressure control, proportional pilot valve type PVACRE35 mounted							
		М	pilot operated pressure control, pressure sensor and proportional pilot valve type PVACRE35 mounted for pressure control and/or power control							



Axial Piston Pump **PV 360**

Ρ	V			F	R	1		(1	T	1		Ν							
axial pui	piston mp			rota	ation	n mounting thru driv interface code						re seals control								
varia displac	able cement	s a displa	ize Ind Icement		v	ariati	on	thı c	eads ode	;	coul co	oling de								
																C				
Code	Displac	emen	t Size	e										Code	Seals	Shaft	seal			
360	360 cr	n³/rev	6											N	NBR	FKI	N			
	V FKM FKM											N								
											Coc	le (Coupling for thr	u drive		as single	part ⁶⁾			
Orde	D./	tion 1									1	S	Single pump, no	coupling	g					
Code	Hota				-						Н	٧	vith coupling 25	x 1.5 x 15	, DIN 5480	MK-PVBG	5K01			
R	Cloc	KWISE	•								J	V	vith coupling 32	x 1.5 x 20	, DIN 5480	MK-PVBG	5K02			
¹⁾ When	looked or	l shaft									K	V	vith coupling 40	x 1.5 x 25	, DIN 5480	MK-PVBG	5K03			
											L	۷	vith coupling 50	x 2 x 24, I	DIN 5480	MK-PVBG	5K04			
											M	V	vith coupling 60	x 2 x 28, I	DIN 5480	MK-PVBG	5K05			
											P	۷	vith coupling 70	x 3 x 22, l	DIN 5480	MK-PVBG	5K06			
											Y	۷	vith coupling SA	E A 9T-16	/32 DP	MK-PVBG	5K11			
Code		Va	riation								A	V	vith coupling SA	E - 11T-16	6/32 DP	MK-PVBG	5K12			
1		Sta	andard			1					В	V	with coupling SA	E B 13T-1	6/32 DP	MK-PVBG	5K13			
2	Electroni	c displ	acement	senso	or ²⁾						C	V	with coupling SA	E B-B 151	I-16/32 DP	MK-PVBG	5K14			
9	Sp	ecial a	adjustmer	nt ³⁾								V	with coupling SA	E C 14 I-1	2/24 DP	MK-PVBG	5K15			
²⁾ not fo	r horse po	wer co	ontrol								E	V	vith coupling SA	E C-C 17	I-12/24 DP	MK-PVBG	5K16			
³⁾ requir	es Kxxxx	numbe	er								F	V	vith coupling SA	E D, E 13	I-8/16 DP	MK-PVBG	5K17			
Code	M	ountin	a interfa	6			Shaff				u	v								
K		4-hol	e flange (Ø250 r	nm	Cyli	ndric	kev												
L	metr ISO	4-hol	e flance (Ø250 r	nm	Spline	ed. DI	N 5480									1			
R	3019/2	4-hole	e flance (Ø224 r	nm	Cyline	dric. k	kev			Co	de	Thru drive option	า						
т		4-hole	e flange (Ø224 r	nm	Spline	d, Dll	, N 5480					No adaptor for 2	nd pump						
D	SAE	4-h	ole flance	SAE	E	Cyl	indric.	key			Т		Single pump pr	epared fo	or thru drive	e				
F	ISO	1 6			2	Spline		1 5/90				1	with adaptor for 2	2nd pump	as sin	gle part ⁶⁾				
L	3019/1	4-11	ole nange	SAE	-	Shune	יות, או	N 040U			A	:	SAE A, Ø 82.55	mm	MK-P	VBG5Axx	4			
											В	:	SAE B, Ø 101.6	VBG5Bxx	1					
0.1	D -4	The							С	C SAE C, Ø 127 mm MK-PVBG5Cxx										
Code	Port ⁴⁾ Threads ⁵⁾										D	D SAE D, Ø 152.4 mm MK-PVBG5Dxx								
1	BSPF	י	metric	;							E	1	SAE E, Ø 165.1	mm	MK-P	VBG5Exx				
3	UNF		UNC								H		netric, Ø 80 mm	1	MK-P	VBG5Hxx				
) Drain	dade and	flushi	na ports								J		metric, Ø 100 mi	m	MK-P	VBG5Jxx				
⁵⁾ All mo	unting an	d conn	ecting the	reads							K		metric, Ø 125 mi	m	MK-P	VBG5Kxx				
			-								L		metric, Ø 160 mi	m	MK-P	VBG5Lxx				
											M		metric, Ø 200 mi	m	MK-P	VBG5MXX	1			
											See	dime	nsions for details	6 						
											°∕tα ∘) DE (ee pa	proereo separate age 61	ery as sing	jie part					
											5	oc pe	.go 01.							



Co	de		Control options
0	0	1	No control
1	0	0	With cover plate, no control function (fixed displacement pump)
Μ	Μ		Standard pressure control, integrated pilot valve
Μ	R		Remote pressure control, integrated pilot valve
Μ	F		Load Sensing (flow) control, integrated pilot valve
М	Т		Two spool LS control
			Control variation
		С	Standard version 1)
		1	NG6 interface top side for pilot valves
		2	Remote pressure port int. supply , NG6 interface 2)
		3	Remote pressure port ext. supply ²⁾
		W	With unloading function, 24VDC solenoid 1)
		Κ	Proppilot valve type PVACRE35 mounted
		Z	Without integrated pilot valve, NG6 interface, for mounting of accessory code PVAC*
		В	Without integrated pilot valve, without NG6 interface 3)
		Ρ	MT1 with mounted pilot valve PVAC1P ²⁾

				ŀ	lorse power / Torque	control			
Displacem.		Code							
360					Nominal HP at 1.500 rpm	Nominal torque			
		U			45 kW	290 Nm			
		W			55 kW	350 Nm			
		Υ			75 kW	480 Nm			
		Ζ			90 kW	580 Nm			
		2			110 kW	700 Nm			
		3			132 kW	840 Nm			
		4			160 kW	1020 Nm			
		5			180 kW	1150 Nm			
		5			200 kW	1280 Nm			
					Function				
			L		Horse power control with pressure control ⁴⁾				
			С		Horse power control with load sensing (single spool)				
					Control variation	ı			
				С	Standard version				
				1	NG 6 interface top sid	le			
				W	With unloading function, 24 VDC solenoid				
				K	Proppilot valve type PVACRE35 mounted				
				Z	Without integrated pilot valve, NG6 interface, for mounting of accessory code PVAC* ⁴⁾				
				В	Without integrated pile	ot valve, without NG6 interface 4)			

Code			Control option				
Electro hydraulic control							
F	Ρ	V	Proportional displacement control, no pressure compensation				
U	Ρ		Proportional displacement control, with pressure compensation				
Control variation							
		R	pilot operated pressure control, open NG6 interface				
		К	pilot operated pressure control, proportional pilot valve type PVACRE35 mounted				
		М	pilot operated pressure control, pressure sensor and proportional pilot valve type PVACRE35 mounted for pressure control and/or power control				

