

PV2R Series Single Pump

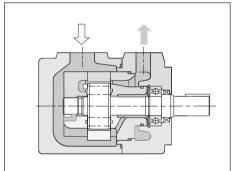
Product appearance and introduction

This series of pumps are high-pressure high-performance vane pumps specially developed for lownoise work. Unique design, high-precision machining and reasonable selection of materials ensure, It has proved its advantages of high reliability and strong adaptability, and is most suitable for the needs of modern hydraulic systems. In applications such as injection molding machines, pressure die casting machines, metal cutting machine tools, construction machinery and other types of hydraulic systems have been widely used.

Its main features:

- 1. The arc blades with reasonable design and precision machining reduce the compressive stress of the blades on the inner curve of the stator and inprove the service life of the stator and blades;
- 2. The stator adopts advanced hing-power non-impact transition curve, so that the blade has a good movement and stress state, ensuring the connection between the blade and the stator. Good contact and minimize flow loss, pressure and flow pulsation, lower noise and longer life.
 - 3. The side plate adopts hydraulic balance to obtain better volumetric efficiency;
- 4. The key parts are made of high-quality materials and advanced heat treatment technology, and the overall reliability of the oil pump is further improved;
- 5. The plug-in structure is adopted, and the main internal organs are made into components. The replacement of the pump core can be completed within a few minutes, with good interchangeability and convenient maintenance.







Model Code

PV2R	1	-17	-F	-1	R	-U	-10
Product code	Series	Geometric displacement	Mounting	Shaft	Rotation	Outlet positions	Design
PV2R1		6,8,10,12,14,17,19,			(Viewed f	rom shaft end)	
		23,25,28,31		1-Str.key	D D: 111		
5).//		26,33,41,47,53,59,	F-Flange	(standard)	R-Right hand for clockwise	U-up	
PV2	2R2	65,75	mounting			D-down	10
		52,60,66,76,85,94,		2-Str.key	L-Left hand for counter-	R-right	
PV2	2R3	116,125,136,153			clockwise	L-left	

Note:1.For options other than listed above, i.e shafts, ports, displacement, and mountings, please contact us. 2.Inlet port is set to be on the upper side



Specifications

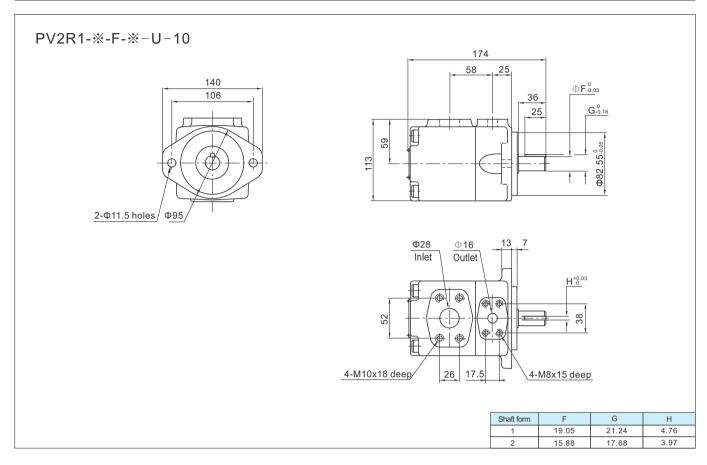
	Displacement mL/r		Speed r/min									
Model		Peroleum bas	e hydraulic oi	V	Vater hydraulic (Synthetic hydraulic oii	'''	 	Weight kg			
		Anti-wear hydraulic oil			Anti-wear water glycol liquid		Phosphate ester liquid	Min.	Max.			
PV2R1-6	5.8											
PV2R1-8	8.0											
PV2R1-10	9.4											
PV2R1-12	12.2											
PV2R1-14	13.7	0.4							1800			
PV2R1-17	16.6	21	16	16	7	7	16	750		8		
PV2R1-19	18.6								(1200)			
PV2R1-23	22.7											
PV2R1-25	25.3											
PV2R1-28	28.1											
PV2R1-31	31.0	16										
PV2R2-26	26.6	21										
PV2R2-33	33.3											
PV2R2-41	41.3											
PV2R2-47	47.2			16	7	7	14	600	1800 (1200)			
PV2R2-53	52.5		16							16		
PV2R2-59	58.2											
PV2R2-65	64.7	-										
PV2R2-75	74.6											
PV2R3-52	52.2											
PV2R3-60	59.6											
PV2R3-66	66.3								4000			
PV2R3-76	76.4	21							1800			
PV2R3-85	85			16					(1200)			
PV2R3-94	93.6		16		7	7	14	600		32		
PV2R3-116	115.6											
PV2R3-125	122.2									1		
PV2R3-136	136	17.5							1200			
PV2R3-153	153			14								

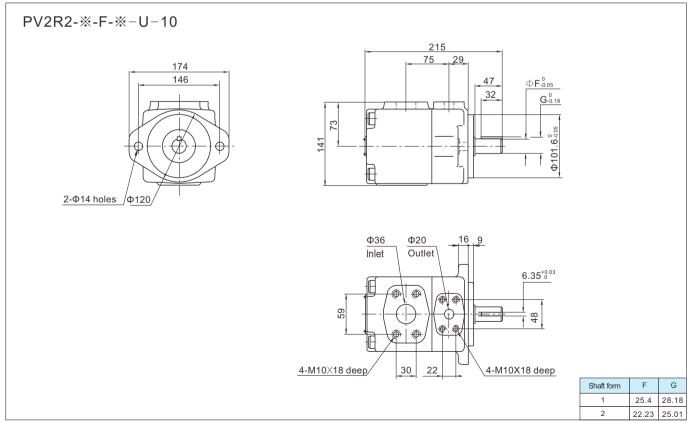
Note

- 1. For pumps with nominal displacement of "6" and "8", when the pressure is higher than 16MPa, the speed should be increased to be higher than 1450r/min, while for pumps with nominal displacement of "31" and "116", the maximum working pressure should be limited to 16MPa within:
- 2. When using water-containing hydraulic fluid and synthetic hydraulic fluid, the maximum speed is limited to 1200r/min;
- 3. For occasions that strictly require low noise, the recommended working speed is 1000r/min and the maximum working pressure is 12-14MPa;
- 4. When the working speed is n≠1500r/min, the output flow and driving power can be calculated according to the approximate formula: "value in the table × n/1500".



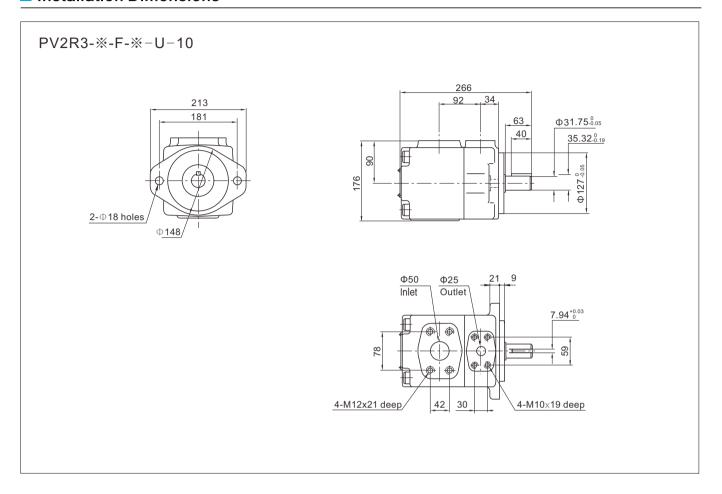
Installation Dimensions







Installation Dimensions



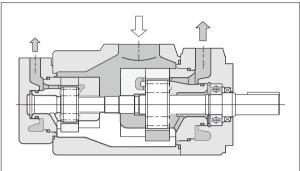


PV2R Series Double Pump

Product appearance and introduction

This series of pumps composed of two PV2R series single pumps driven by the same shaft and assembled in the same casing in parallel.Outlet to two separate circuits.According to the series combination of the two pumps,a variety of flow rates can be obtained.







Model Code

PV2R	13	-6	-76	-F	-1	R	-U	-U	-10
Product code	Sarias	Geon displac	netric cement	Mounting	Shaft	Rotation	Outlet p	Design	
Troduct code	Octios	Cover end	Shaft end	Modriting	Onait	rotation	Cover end	Shaft end	Boolgii
PV2R12		6, 8, 10, 12, 14, 17, 19,23, 25, 28,31	26,33,41, 47,53,59, 65,75			(Viewed from shaft end)	(Viewed from shaft end) U:Left-up 45° D:Right-down 45° R:Right-up 45° L:Left-down 45°	(Viewed from shaft end)	
PV2R13		6,8,10, 12,14,17, 19,23,25, 28,31	52,60,66, 76,85,94, 116,125, 136,153	F-Flange mounting	1-Str.key (standard) 2-Str.key	for clockwise L-Left hand for counter-	U:Up D:Down R:Right L:Left	U:Up D:Down R:Right L:Left	10
PV2R23		26,33,41, 47,53,59, 65,75	52,60,66, 76,85,94, 116,125, 136,153			clockwise	U:Left-up 45° D:Right-down 45° R:Right-up 45° L:Left-down 45°		

Note:1.For options other than listed above, i.e shafts, ports, displacement, and mountings, please contact us. 2.Inlet port is set to be on the upper side



Specifications

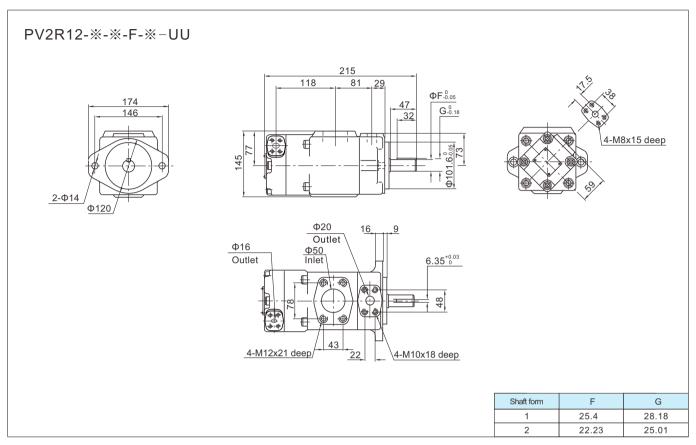
				Spe							
Model	Outlet	Displacement	Peroleum base hydraulic oil Water hydraulic oil					Synthetic hydraulic oii Phosphate ester liquid	r/n	nin	Weight kg
		mL/r	Anti-wear hydraulic oil	Ordinary Anti-wear hydraulic oil water glycol liquid Water-in-emulsion				Phosphate	Min.	Max.	ку
		26	nyaraulic oli	nydraulic oli	water glycol liquid	Trate: g.yeequ.u	emulsion	ester liquid			
		33									
		41									
		47									
	Shaft end	53	21	16	16	7	7	14			
		59									
		65									
		75									
		6									
PV2R12		8							750	1800 (1200)	22.5
		10								(1200)	
		12									
		14	21								
	Cover end	17	21	16	16	7	7	16			
		19									
		23									
		25									
		28									
		31	16								
		52									
		60									
		66	21							1800	
		76 85		16	16					(1200)	
	Shaft end	94				7	7	14			
		116									
		125									
		136	17.5							1200	
		153		14	14					1200	
PV2R13		6							750		37.5
		8									
		10									
		12	21	16	16						
		14								1800	
	Cover end					7	7	16		(1200)	
		19								(
		23									
		25									
		28	4.0								
		31 52	16								
		60									
		66									
		76	21							1800 (1200)	
		85		16	16	_	_			(1200)	
	Shaft end	94				7	7	14			
		116									
		125	17.5								
PV2R23		136	17.5	14	14				600	1200	45
1 421(23		153		.,							
		26									
		33									
		41									
	Cover end	47	21	16	16	7	7	14		1800 (1200)	
		53								(. 200)	
		59 65									
		75									
L		, ,			1		L 2)			l	<u> </u>

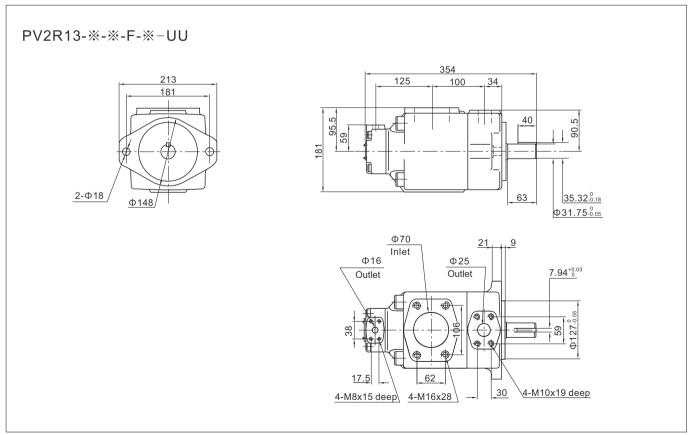
Description: 1. The same sa the description of the "working parameters" of the single pump (see page 2).

^{2.} The total driving power of the double pump=the driving power of the shaft end pump+the driving power of the cover end pump.



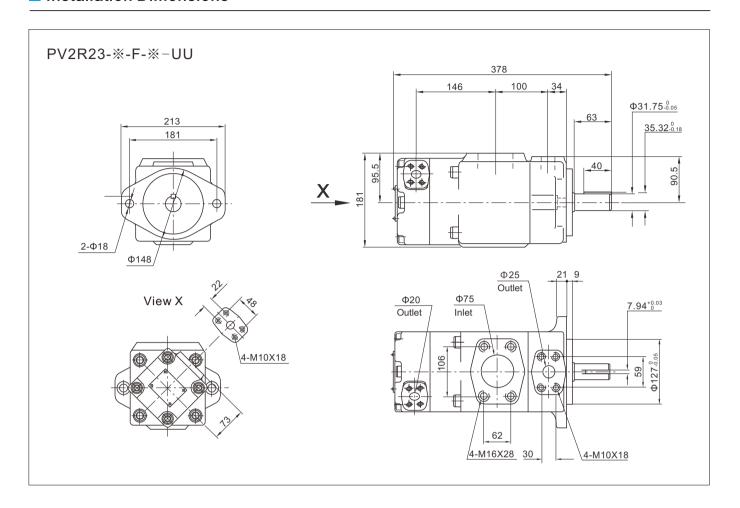
Installation Dimensions







■ Installation Dimensions





PV2R Series Cartridge Kits

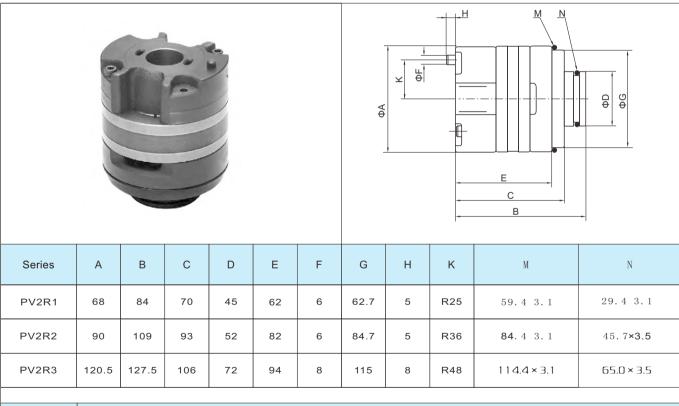
Product Introduction

The pump core is the heart of the oil pump. It can be said that the performance and life of the oil pump are determined by the design and manufacturing level of the pump core. Provide PV2R series pump core components to your sattisfaction, The pump core of PV2R series vane pump is mainly composed of stator, rotor, vane, pressure side plate, side plate and seals etc. composition. Its main performance parameters are consistent with the performance parameters of the corresponding series and speifications of the oil pump.

Model Code

PC-	PV2R1	-23	-R				
Cartridge kit mark	Series	Geometric Displacement	Rotation				
PC-Single pump cartridge kits Double pump shaft end	PV2R1	6, 8, 1 0 , 12, 14, 17, 19, 23, 25, 28, 31	(Viewed from shaft end)				
pump cartridge kits PCT-Double pump cover end	PV2R2	1 26. 33. 41. 47. 53. 59. 65. 75	R-Right hand for clockwise L-Left hand for counter				
pump cartridge kits	PV2R3						

Installation Dimensions

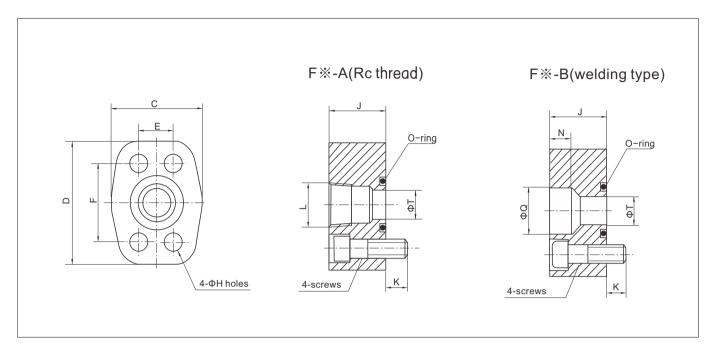


Series		Inner splines dentiform parameter of rotor											
Series	Modulus	No.of teeth	Pressure angle	Major Dia	Minor Dia	Space width							
PV2R1	0.75	24	45°	19.050	17.550	1.328							
PV2R2	1.0	24	45°	25.400	23.400	1.771							
PV2R3	1.0	28	45°	29.400	27.400	1.771							



Flange Connection Assembly

■ Installation Dimensions



flange	Corres- ponding tube					С	imens	ion i	mm				O-ring	C	Screw tightening	Corresponding									
model	specifi- cations	С	D	Ш	F	Н	J	K	L	Z	Q	Т	GB/T34521	Screws	torque N.m	oil pump port									
F04-A	1/2″	43	59.0	17.5	38.1	9.0	28.0	11	1/2″			13	21.2×2.65	M8×30	35	PV2R1 outlet, PV2R12.PV2R13									
F04-B	172	40	00.0	17.5	30.1	3.0	20.0			11	22.5	10	21.2.2.00	IVIOAGO	33	cover end punp outlet									
F06-A	3/4"	53.2	71.6	22.2	47.6	11.2	30.0	11	3/4"			19	30×3.55	M10×30	68 5	PV2R2, PV2R12 shaft end pump outlet.									
F06-B	0/1	00.2	7 1.0	22.2	47.0	11.2	00.0			12	28.5	15	30 \ 3.33	Wilowoo	00.5	PV2R23 cover end pump outlet									
F08-A	. 1"	58.0	76.4	26.2	52.4	11.2	30.0	16	1″			26	24 5 2 55	M10×35	68.5	PV2R1 inlet									
F08-B	'	30.0	70.4	20.2	02.4	11.2	00.0	'		14	34.5	20	34.5×3.55	WITOASS	00.5	FVZR i illiet									
F10-A	1-1/4"	57.7	84.7	30.2	58.7	12.0	40.0	16	1-1/4"			32	40×3.55	M10×45	68.5	PV2R2 inlet PV2R3 outlet, PV2R13									
F10-B	1-1/4	37.7	04.7	30.2	30.7	12.0	40.0	'		16	43.0	32		10110743	00.0	PV2R23 shaft end pump outlet									
F12-A	1-1/2"	70.0	96.0	06.0	06.0	06.0	06.0	06.0	06.0	06.0	06.0	06.0	35.7	7 69.9	13.8	40.0	18	1-1/2"			38	50.055		118	
F12-B	1-1/2	70.0	96.0	33.7	09.9	13.0	40.0	10		18	49.1	36	50×3.55		110										
F16-A	2″	87.0	105.0	42.9	77.8	13.8	40.0	18	2″			51	65×3.55	M12×45	118	PV2R3, PV2R12									
F16-B		07.0	105.0	42.9	77.0	13.0	40.0	10		20	61.0	51				inlet									
F20-A	2-1/2"	96.0	116.0	50.8	88.9	13.8	45.0	18	2-1/2"			63	750.55		118										
F20-B	2-1/2	96.0	116.0	50.6	00.9	13.0	45.0	10		22	77.1	03	75×3.55		110										
F24-A	3″	121.0	141.4	61.9	106.4	17.0	45.0	17	3″			76	050.55	M16×45	287	PV2R13, PV2R23									
F24-B	3	121.0	141.4	01.9	100.4	17.0	45.0	''		25	90.0	76	85×3.55	WITONAS	207	inlet									
F28-A	3-1/2"	136.0	155.0	69.9	120.7	17.0	50.0	17	3-1/2"			89	4000 55	M16×40	287										
F28-B	3-1/2	130.0	100.0	09.9	120.7	17.0	30.0			28	102.8	09	100×3.55	M16×50	207										
F32-A	4"	145.0	162.0	77.8	130.2	17.0	50.0	17	4″			102	115×3.55	M16×40	287										
F32-B	4	145.0	102.0	11.0	130.2	17.0	30.0	' '		28	115.5	102	110*3.05	M16×50	207										