

Bell Hydromatics

Variable Displacement Vane Pumps

VP5FD – Double Pumps



Ordering Code

VP5FD	-A		5		-A		5		-50	
Series No.	Shaft end pump				Cover end pump				Design No.	
	Outlet Flow at 3.5 bar, 1800 rpm lpm		Operating Pressure range bar		Outlet Flow at 3.5 bar, 1800 rpm lpm		Operating Pressure range bar			
VP5FD Flange Mounting	Code	Outlet Flow	Code	Pressure Range	Code	Outlet Flow	Code	Pressure Range	50:PT(Rc)5080:PF(G) 5090:NPT	
	A	30 lpm	2	15-35 lpm	A	30 lpm	2	15 ~ 35 bar		
	B	40 lpm	3	20-70 lpm	B	40 lpm	3	20 ~ 70 bar		
	Factory Setting Qmax.		4	50-105bar	Factory Setting Qmax.		4	50 ~105 bar		
			5	70-140bar			5	70 ~ 140 bar		
			Factory Setting Pmin.				Factory Setting Pmin			

Operating Data

High Efficiency Operation With High Pressure.

Under the conditions of pressure 140 bar, the 5 pump is stable and highly efficient. Due to our improvement designs "THREE POINT RING" support systems.

No Vibration And Quiet.

The cam ring is specifically designed to have a special curve so the noise level (dB) is very low, even in the high pressure operations.

Sharp Characteristics And Quick Response.

Quick response displayed in both "ON-OFF" control of operation, due to use special design "BIAS PISTON" stable and accurate operation can be attained in an instant.

Stable Flow.

Due to use new design "PRESSURE BALANCE MECHANISM" the output flow pressure control systems, the output flow is very stable even in the high pressure ranges.

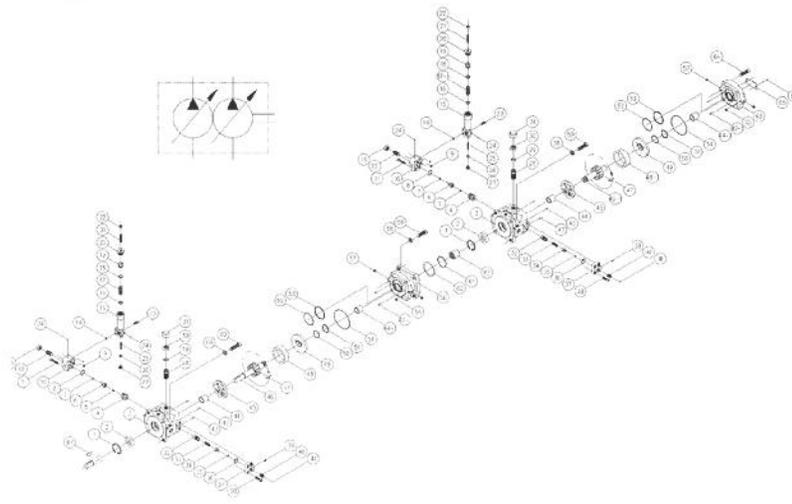
Energy Saving Type.

Power loss has been reduced further by application of our highly advanced precision machining technology to assure the same high efficiency performance. As the "VP5" series with many new mechanisms of our improvement designs. And the power loss at the "dead head" has been reduced by a large degree.

Easy Testing And Maintenance.

Pressure adjusting screw, and the volume adjusting screw were located at the same side, and ensure easy testing at a glance.

Assembly



Parts List:

No.	Part Name	Specification	Quantity	No.	Part Name	Specification	Quantity
1	Retainer Ring	R42	1+1	38	Socket Head Cap Screw	M6xP1.0x25L	4+4
2	Shaft Seal	TCV 224211	1+1	39	Socket Set Screw	M5xPO.8x10L	1+1
3	Pump Body		1+1	40	Socket Set Screw	M10xp1.5x12L	1+1
4	Piston		1+1	41	Plug		1+1
5	Socket Set Screw	M4xP0.7x5L	1+1	42	Spring Pin	ø4×10	1+1
6	Piston		1+1	42-1	Spring Pin	ø4×10	2+2
7	O-Ring	1A-P5	1+1	43	Straight Pin	ø4×10	2+2
8	O-Ring	1A-P20	1+1	44	English Bush	DIADO(Japan)DD2225	1+1
9	O-Ring	1A-P6	2+2	44-1	English Bush	DIADO(Japan)DD2225	1+1
10	Cover		1+1	45	Port Plate		1+1
11	Socket Head Cap Screw	M6xP1.0x35L	4+4	46	Rotorshaft(A)		1
12	Socket Set Screw	M12xP1.75x25L	1+1	46-1	Rotorshaft(B)		1
13	Hexagon Nut	M12xP1.75	1+1	47	Vanes		13+13
14	O-Ring	1A-P6	3+3	48	Cam Ring		1
15	Body		1+1	48-1	Cam Ring		1
16	Hold		1+1	49	Thrust Plate		1+1
17	Spring		1	50	O-Ring	AS568-026	1+1
18	O-Ring	1A-P14	1	51	Endless Back-up Ring		1+1
19	Spring Retainer		1+1	52	O-Ring	AS568-034	1+1
20	Screw		1+1	53	Endless Back-up Ring		1+1
21	Socket Set Screw	M8xP1.25x35L	1+1	52	O-Ring	1A-S85	1+1
22	Hexagon Nut	M8xP1.25	1+1	55	O-Ring	1A-P6	2+2
23	Socket Set Screw	M5xPO.8x25L	4+4	56	Cover		1
24	Plug		2+2	57	Plug	1/16"	2+2
25	Spool		1+1	58	Spring Washer	M10	4+4
26	O-Ring	1A-P10	1+1	59	Hexagon Head Screw	M10xP1.5x30L	4+4
27	Plug		1+1	60	O-Ring	1A-G45	1
28	Slide Screw		1+1	61	O-Ring	1A-G60	1
29	O-Ring	1A-P14	1+1	62	Coupling		1
30	Hexagon Nut	M16xP1.0	1+1	63	Cover		1
31	Cap		1+1	64	Skt.HD.cap Scr.	M10xP1.5x35L	4
32	Piston		1+1	65	Name Plate		1
33	Spring		1+1	66	Fixing Screw		2
34	Piston		1+1	67	Woodruff Key	NO.608	1
35	O-Ring	1A-P5	1+1	68	Spring Washer	M10	4
36	O-Ring	1A-P22	1+1	69	Skt. HD.cap Scr.	M10xP1.5x30L	4
37	Cover		1+1				

Dimensions

