Bell Hydromatics



Variable Displacement Vane Pumps

VP5F - Single Pumps



Ordering Code

VP5F	-A		5		-50
Series No.	(lpm)	t Flow at 3.5 300 rpm	Operating Pressure range (bar)		Design No.
VP5 Flange Mounting	Code	Outlet Flow (lpm)	Code	Pressure Range	50:PT(Rc) 5080:PF(G)
	А	30 Ipm	2	15 ~ 35 bar	
	В	40 lpm	3	20 ~ 70 bar	
	Factory Setting Qmax.		4	50 ~105 bar	5090:NPT
			5	70 ~ 140 bar	
			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.

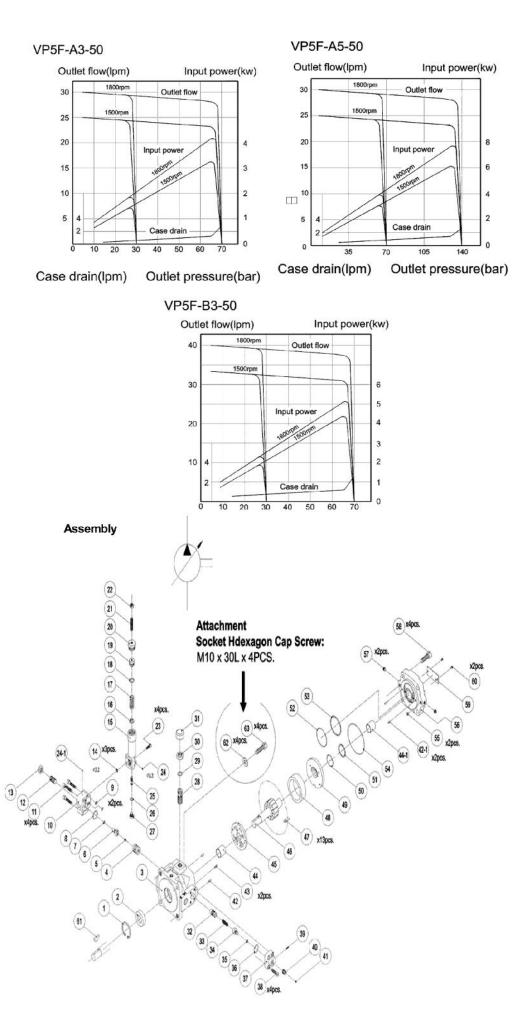
Due to use new design "PRESSURE BALANCE MECHANISM" the output flow pressure control systems, the output flow is very stable even in the high pressure ranges.

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.



No.	Part Name	Specification	Quantity
1	Retainer Ring	R42	-1
2	Shaft Seal	TCV 224211	1
3	Pump Body		1
4	Piston		1
5	Socket Set Screw	M4xP0.7x5L	1
6	Piston		1
7	O-Ring	1A-P5	1
8	O-Ring	1A-P20	1
9	O-Ring	1A-P6	2
10	Cover		1
11	Socket Head Cap Screw	M6xP1.Ox35L	4
12	Socket Set Screw	M12xP1.75x25L	1
13	Hexagon Nut	M12xP1.75	1
14	O-Ring	1A-P6	3
15	Body		1
16	Hold		1
17	Spring		1
18	O-Ring	1A-P14	1
19	Spring Retainer		1
20	Screw		-1
21	Socket Set Screw	M8xP1.25x35L	1
22	Hexagon Nut	M8xP1.25	1
23	Socket Set Screw	M5xPO.8x25L	4
24	Plug		1
25	Spool		1
26	O-Ring	1A-P10	1
27	Plug		1
28	Slide Screw		1
29	O-Ring	1A-P14	-1
30	Hexagon Nut	M16xP1.0	-1
31	Сар		1
32	Piston		1

No.	Part Name	Specification	Quantity
33	Spring		1
34	Piston		1
35	O-Ring	1A-P5	1
36	O-Ring	1A-P55	1
37	Cover		1
38	Socket Head Cap Screw	M6xP1.Ox25L	4
39	Socket Set Screw	M5xPO.8x10L	1
40	Socket Set Screw	M1Oxp1.5x12L	1
41	Plug		1
42	Spring Pin	ø4×10	1
42- 1	Spring Pin	ø4×10	2
43	Straight Pin	ø4×10	2
44	English Bush	DIADO(Japan)DD2225	1
44- 1	English Bush	DIADO(Japan)DD2225	1
45	Port Plate		1
46	Rotorshaft		1
47	Vanes		13
48	Cam Ring		2
49	Thrust Plate		1
50	O-Ring	AS568-026	1
51	Endless Back-up Ring		1
52	O-Ring	AS568-034	1
53	Endless Back-up Ring		1
52	O-Ring	1A-S85	1
55	O-Ring	1A-P6	2
56	Cover		1
57	Plug	1/16″	2
58	Socket Head Cap Screw	M10xP1.5x35L	4
59	Name Plate		1
60	Fixing Screw		2
61	Woodruff Key	NO. 608	1
62	Spring Washer	M10	4
63	Socket Head Cap Screw	M10xP1.5x30L	4

Dimensions

VPF5-* * -50

