



Bell Hydromatics

Variable Displacement Vane Pumps

TPF – Hi-Lo Pumps



Ordering Code

TPF	-VL30		2		-GH		2		-11
Series No.	Shaft end Pump		Variable Volume pressure compensated vane pump		Cover end Pump		Fixed Displacement Gear Pump		Design No.
	Outlet Flow (lpm) at 3.5 bar, 1800 rpm		Operating Pressure range (bar)		Displacement (lpm)		Operating Pressure (bar)		
TPF Flange Mounting	Code	Outlet Flow (lpm)	Code	Pressure Range	Code	Outlet Flow	Pressure	Peak	11: PT(Rc)
	VL30	30 lpm	1	15 ~ 35 bar	GH1	1.09	210	250	
	VL40	40 lpm	2	30 ~ 70 bar	GH2	2.07			
	Factory Setting Qmax.		Factory Setting Pmin.		GH3	3.08			
					GH4	4.06			
					GH5	6.16			
					GH6	7.67			
					GH7	9.24			
					GH8	10.77			
					GH9	12.0			
G00	G00 type is variable vane pump only. It does not include the gear pump								1190: NPT

Operating Data

ROTARY DIRECTION

Clockwise rotation viewed from shaft end is standard.

FLUIDS PERMISSIBLE

When working pressure lower than 70 bar, hydraulic oil with a viscosity ranging from 30~50 cSt(ISO VG32). When working pressure higher than 71 bar ,hydraulic oil with a viscosity ranging from 50-70 cSt(ISO VG68) at 40°C is recommended.(ISO VG32) at 40 °C is recommended.

DRAIN PORT PIPING

Drain connection must be piped directly to tank and below the oil level with a back pressure not exceed 0.3 bar.

OIL TEMPERATURE RANGE

Oil temperature range should be between 15-60°C for continuous operation and should be higher than 7°C at starting.

ALIGNMENT AND INSTALLATION OF PUMP

The shaft alignment for pump and electric motor shall be limited to 0.05mm TIR, and 1 degree angular error.

INLET PORT PRESSURE

Inlet port pressure should be -0.3 bar to +0.3 bar.

FLOW ADJUSTMENT

The flow will be reduced when the flow adjusting screw is turned clockwise and increased when anti-clockwise.

PRESSURE ADJUSTMENT

The pressure will be increased when the pressure adjusting screw is turned clockwise and reduced when anti-clockwise.

P-Q CHARACTERISTICS (EX-WORK SET) Flow setting:The max. flow as catalogue shown. Pressure setting:The min. operating pressure range.

SLIDE SCREW

The slide screw is non-adjustable and set at factory. Unauthorized persons cannot tamper with the desired setting.

CAUTIONS FOR STARTING

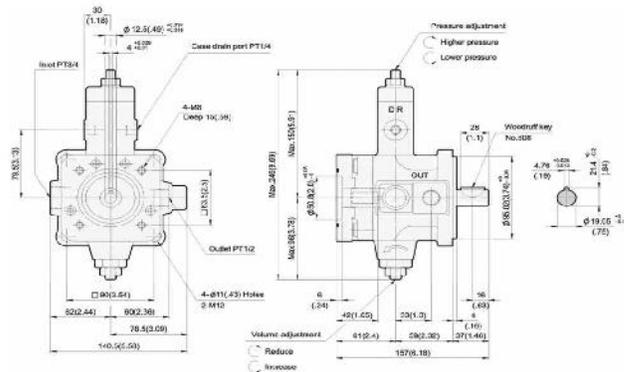
Start up the pump under No-Load condition and repeat to start and stop the motor several times to extract the air from inside of the pump and piping.Then keep a 10 minutes continuous running for a better de-airing.

PEAK-PRESSURE

The peak pressure is 140 bar for code * 2 & * 3,and 210 bar for A4 & A5.

Dimensions

TPF-VL***-G00-11 Dimensions



TPF-VL***-GH-11 Dimensions

