TIDAL FLUID POWER

AVAILABILITY, SERVICE, QUALITY, PRICE

Piston Pump

TPV3V/5V

Features

- Open Circuit
- Variable displacement axial piston pump
- Swashplate design
- Good suction characteristics
- Low noise level
- Long Service life
- Wide Range of controls
- Short response times
- Nominal Pressure 350Bar
- Peak Pressure 400 Bar

AVAILABLE TANDEM UNITS:

TFP3V (K3V)		TFP5V (K5V)	
63DT	63DTP*		
112DT	112DTP*		
140DT	140DTP*	140DTP*	
			160DTH
180DT			
		200DTP*	200DTH

*on request

TPV3V63DT	TPV3V63DTP	TPV3V112DT	TPV3V112DTP	TPV3V140DT	TPV3V180DT	TPV5V140DTP	TPV5V200DTH
Hyundai R130/140-7	Kobelco SK135/130	Volvo EC210, EC240, EC210B	Kobelco SK200-8, SK210-8, SK250-8	Volvo EC290	Volvo EC360	Kobelco S5350-8, SK330-6E	Volvo EC460
Hyundai R130/150/160		Hyundai R210-7 R220-7, R225-7	Kobelco SK230-6E (new)	Hyundai R290-7	Hyundai R320-3, R320-7, R335-7	Hyundai R300-7, R305LC-7	Hyundai R455
XCMG XE150		Doosan DH220-5 (internal leakage)	Kobelco SK200-6	Hyundai R300, R320, R330		Doosan DX300	Sany SY385
Liugong LG915		Doosan DH225-7 (leaked)	Sumitomo SH240-5, SH200A3	Doosan DH280, S280, S290		Sany SY235-8S, SY235-9	XCMG XE450, XE470C3, XE490
		XCMG XE195, XE210, XE215, XE230, XE240	Hyundai R215-9, R215-9T, T225-9T, R275-9T				Volvo EC350D (US Size)
		LIUGONG LG920, LG922, LG923, LG925	Doosan DX225, DH225-9 (side PTO) DX260 (side PTO), DH258				
		Volvo EC	Sany SY205/215 8L Sany SY205/215 6 holes OE				

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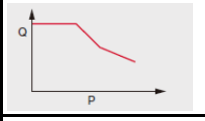
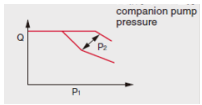
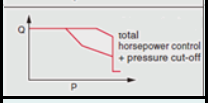
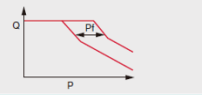
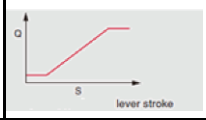
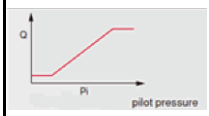
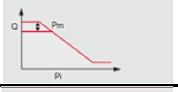
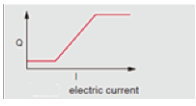
TPV	3V	63	0	L	R	S	S	*
Model	Series	Displacement	HP control	Flow control	Rotation	Mounting Flange and Shaft	Porting Threads	Torque Limiter setting
Tidal Piston Variable	3V	63 CC/REV 112 CC/REV 140 CC/REV 180 CC/REV	1 = Constant Horsepower Control 2 = Total Horsepower control 4 = High Pressure Cut Off 5 = Horsepower Control + Pressure Cut off 6 = Total Horsepower control + Pressure cut Off 9 = Variable Horsepower control	P = Positive flow control N = Negative Flow control C = 2 stage max flow control L = Load sense control E – Electric Flow control	R = Clockwise L = Counter Clockwise	S = Splined S14 = 14 Tooth S17 = 17 Tooth S18 – 18 Tooth	N62 = Flanged Side Ports P = SAE Code 62 S = SAE Code 61	On request
	5V	140 CC/REV 160 CC/REV 200 CC/REV				S12 = 12 Tooth S17 = 17 Tooth		

Code	Control Type	Control Curve	Functions and Features
1	Constant Horsepower Control		According to the rise of delivery pressure of a pump, the tilting angle of the pump is automatically decreased and the constant torque control is achieved.
2	Total Horsepower control		1. According to the rise of delivery pressure of a pummp, the tiliting angle of the pump is automatically decreased and the constant torque control is achieved (compensation control). 2. The total horsepower control can be achieved by decreasing the horsepower of a pump depending upon the pressure of its companion pump.
4	High Pressure cut-off		If the pressure rises above the set value, the pump outlet flow is automatically decreased by the pressure cut-off control.
5			
6			
9	Variable Horsepower Control		Variable horsepower control can be obtained by supplying pilot pressure or electric current.

Code	Control Type	Control Curve	Functions and Features
M	Manual Flow control		With the manual control, the outlet flow can be steplessly controlled
P	Positive Flow control		Positive flow control can be carried out by using the pilot pressure
N	Negative Flow control		Negative flow control can be carried out by using the pilot pressure
C	2 stage max. flow control		Two stage max. flow control can be obtained by supplying external pilot pressure (only in negative flow control).
L	load sensing control		Load sensing control can be obtained.
E	electric flow control		With the electric current, the outlet flow can be controlled.

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