HYDRAULIC & PNEUMATIC PTY LTD

INDUSTRIAL LEADER IN HYDRAULIC APPLICATION AND ENGINEERING

Parker

PUMPS / MOTORS BUILD AND DISTRIBUTION CENTRE

PGP511

F11

T6/T7

P1/PD

F12

M3/ M4

QPM3

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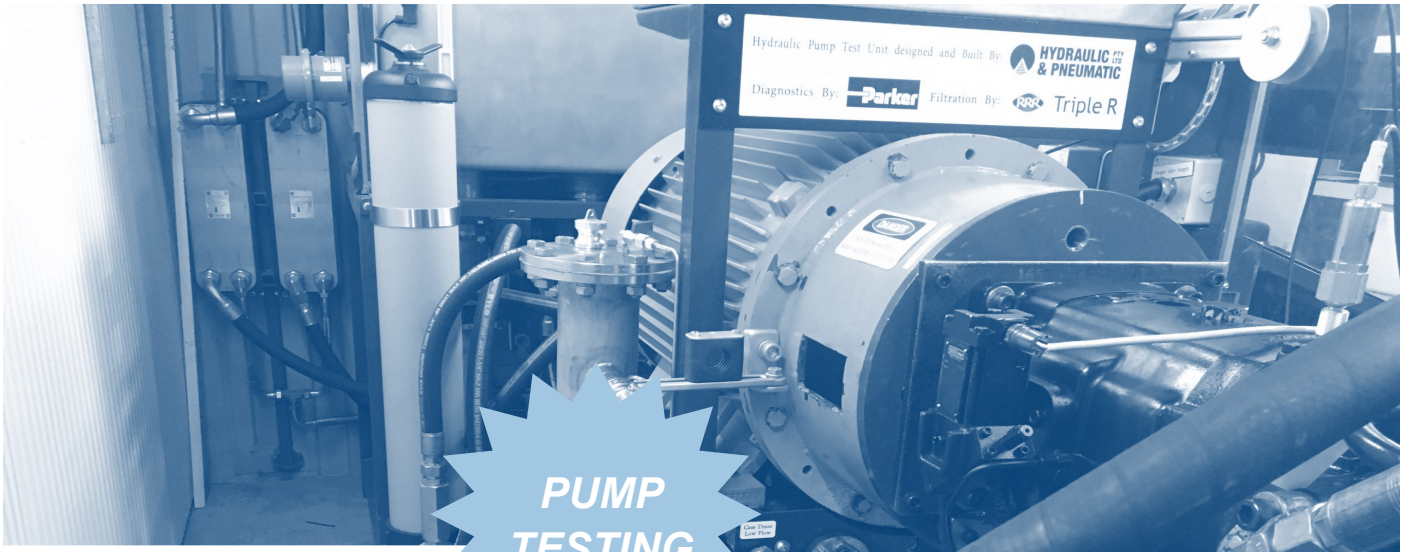
HYDRAULIC & PNEUMATIC PTY LTD

Parker

AUTHORISED PUMP BUILD CENTRE!



PUMP TESTING

WE ADHERE TO STRICT PARKER REQUIREMENTS REGARDING FACILITY, ENGINEERING, MANUFACTURING, TRAINING AND INVENTORY STANDARDS, ALLOWING US TO MANUFACTURE UNITS TO CUSTOMER SPECIFICATION, WITH RAPID DELIVERY

PROVIDING LEADING TECHNICAL CAPABILITIES, 24/7 ACCESSIBILITY AND RESPONSIVENESS

DEPENDABLE ON-TIME DELIVERY AND EXCEPTIONAL SYSTEM SUPPORT

- ⇒ Our Pump Testing Rig can be used for single, double and even triple pumps
- ⇒ Can handle up to 420Bar and 500L/min
- ⇒ Equipped with a range of advanced sensor equipment to monitor the health of your pump
- ⇒ Provides detailed reports on pump performance
- ⇒ Our experienced operators know how to safely test the full range and functionality of your pump
- ⇒ Tests the smallest to biggest pumps with ease
- ⇒ Can test and set simple to advanced pump controls
- ⇒ Able to set electronically and hydraulically actuated closed loop variable speed

✓ ***PUMP SPARES***

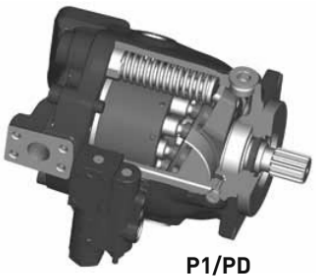
✓ ***RAPID BUILD & DELIVERY***

✓ ***COMPLETE UNITS***

CONTACT OUR TEAM AT MORWELL TO GET YOUR PUMP TESTED TODAY!

P1/ PD

MEDIUM PRESSURE (UP TO 280 BAR) VARIABLE DISPLACEMENT AXIAL PISTON PUMPS



P1/PD

HY28-2665-01/P1/EN | August 2021

P1/PD Model Ordering Code

Axial Piston Pumps
P1/PD Series

Pump Family	Displacement	Circuit Type	Mounting & Ports	Shaft Options	Single Shaft Seal	Rotation	Configuration	Fluorocarbon Seal Material	Design Series	Controls	Additional Control Options	Port Orientation	Displacement Stops	Work Port Type	Thru-Drive Mounting Pad & Coupling	Paint	Special Features
					S			5	B								

Pump Family	
P1	Mobile
PD	Industrial

Displacement	
018	18cc/rev
028	28cc/rev
045	45cc/rev
060	60cc/rev
075	75cc/rev
085	85cc/rev
100	100cc/rev
140	140cc/rev

Circuit Type	
P	Open Circuit - One Side of Center
X	Open Circuit - Overcenter (45-75, 100-140cc with P, T, S, U controls only)

Mounting & Ports	
S	SAE mount; SAE work & aux ports
A	SAE mount; Metric work ports; BSPP aux ports
M	ISO mount; Metric work & aux ports
B	ISO mount; Metric work ports; BSPP aux ports
C	2-bolt SAE C mount; SAE work & aux ports (60-85cc only)
D	2-bolt SAE C mount; metric work ports; BSPP aux ports (60-85cc only)
J	2-bolt SAE-B mount; SAE work & aux ports (60cc only)
K	2-bolt SAE-B mount; Metric work ports; BSPP aux ports (60cc only)

Shaft Options	
01	SAE Spline
02	SAE Keyed
04	ISO Keyed
06[1]	SAE Spline (18 & 100cc only)
08	SAE-B 13T Spline (28 & 45cc only)
09	SAE-BB 15T Spline (60cc only)
10	SAE-B 13T Spline (60cc only; Not with thru drive)

[1] 18cc de-rated to 210 bar

Rotation	
R	Clockwise
L	Counterclockwise

Configuration	
M	Mobile (P1)
S	Industrial (PD)
U[2]	Universal (45-140cc only)

[2] Comes with torque limiter ports drilled in the housing

Controls	
C0	Pressure Limiter
L0	Load sensing & pressure limiter
L2	Load sensing with bleed & pressure limiter
AM	Remote pressure limiter
AN	Remote pressure limiter with D03 interface
AE	Prop. Pressure limiter (Min default - 12VDC)
AF	Prop. Pressure limiter (Min default - 24VDC)
AG[3]	Prop. Pressure limiter (Max default - 24VDC)
AH[3]	Prop. Pressure limiter (Max default - 12VDC)
	Electronic Displacement Controls
P0	Min default; No Pmax override; 12 VDC
PM	Min default; No Pmax override; 24 VDC
T0	Max default; No Pmax override; 12 VDC
TM	Max default; No Pmax override; 24 VDC
S0	Min default; Pmax override; 12 VDC
SM	Min default; Pmax override; 24 VDC
U0	Max default; Pmax override; 12 VDC
UM	Max default; Pmax override; 24 VDC

[3] Requires application review. Consult factory.

Additional Control Options	
0	No other options
2	Cam sensor (mandatory with P, T, S, U controls)
3[4]	Unload Valve - 12VDC (C0 or L0 control only)
6[4]	Unload Valve - 24VDC (C0 or L0 control only)
4	210 bar pressure limit (AG or AH control only)
7	280 bar pressure limit (AG or AH control only)
T	Torque Limiter (45-140cc only; L0, AM, AN control only)

[4] Available on 28-140cc only

Port Orientation	
E	End Ports
S	Side Ports (60-140cc only)
R	Side Ports with ripple chamber (18-45cc only)
T	Side Ports with thru-drive

Displacement Stops[5]	
0	None
1	Adjustable maximum stop
2	Adjustable minimum stop
3	Adjustable maximum & minimum stop

[5] Not standard with thru drive. Contact factory

Work Port Type	
0	Flanged (Not with 18cc "E" or "R" ports)
2[6]	Threaded (18-60cc only)

[6] On 60cc, only with SAE end ports

Thru-Drive Designation Description	
0	None
A	SAE 82-2 (A), 9T coupling
H	SAE 82-2 (A), 11T coupling
B	SAE 101-2 (B), 13T coupling (28-140cc only)
Q	SAE 101-2 (B), 15T coupling (28-140cc only)
C	SAE 127-4 (C), 14T coupling (60cc only) SAE 127-2/4 (C), 14T coupling (75-140cc only)
N	SAE 127-4 (C), 17T coupling (100 & 140cc only)
D	SAE 152-4 (D), 13T coupling (140cc only)

Paint	
00	No Paint
PB	Black Paint

Special Features	
00	Standard
M2	Special Designation

REPLACMENT OF REXROTH A10V

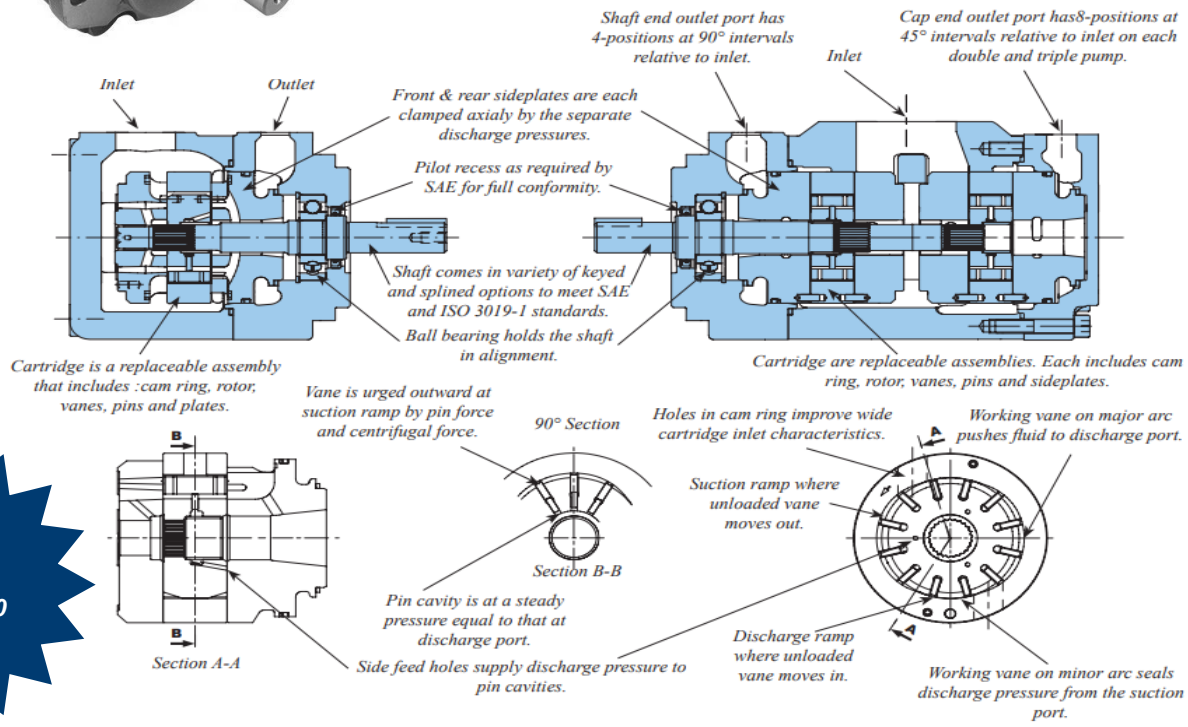
FEATURES AND BENEFITS

- ⇒ Variable displacement, axial piston pump for open-circuit applications
- ⇒ Continuous operation at pressures up to 280 bar
- ⇒ High drive speed models for mobile markets and low noise models for industrial markets
- ⇒ Quiet and efficient control capability
- ⇒ Cam bearing design
- ⇒ Compact overall package size
- ⇒ High power density
- ⇒ Many different standard control options
- ⇒ Modular controls for easy conversions
- ⇒ Easy to service
- ⇒ High operating efficiency for lower power consumption and reduced heat generation
- ⇒ Elastomer seals that eliminate gaskets and external leakage
- ⇒ Simple hydraulic controls with "no-leak" adjustments
- ⇒ Fast and stable compensator response
- ⇒ SAE and ISO standard mounting flanges and ports
- ⇒ Long life, roller shaft bearings
- ⇒ Long life, low friction, hydrostatically balanced swash plate saddle bearings
- ⇒ Full power through-drive capability
- ⇒ Multiple case drain ports for various mounting orientations
- ⇒ Optional minimum and maximum displacement adjustments

WE HAVE A COMPREHENSIVE RANGE OF PARKER P1 PISTON PUMPS IN STOCK!

PARKER-DENISON T6/T7 VANE PUMPS

- ⇒ These vane pumps have been specially designed for high/low circuits
- ⇒ The combination of different cartridges in double and triple pumps allows low flow at high pressure (300 bar max.) and high flow at lower pressure
- ⇒ This is a clever way to optimize your circuit design
- ⇒ This pump feature will also allow a very fast pressure cycle change with a very precise flow repeatability



5.8 TO 268.7 CC

UP TO 320 BAR!

- ⇒ The high pressure capability up to 320 bar, in the small envelope, reduces installation costs and provides extended life at reduced pressure
- ⇒ The high volumetric efficiency, reduces heat generation, and allows speeds down to 600 RPM at full pressure
- ⇒ The high mechanical efficiency, typically better than 94%, reduces energy consumption
- ⇒ The wide speed range (600 RPM at 3600 RPM), combined with large size cartridge displacements will optimize operation for the lowest noise level in the smallest envelope
- ⇒ The low speed (600 RPM), low pressure, high viscosity (860 cSt) allows application in cold environment with a minimum energy consumption and without risk of seizure
- ⇒ The low ripple pressure (± 2 bar) reduces piping noise and increases lifetime of the other components in the circuit
- ⇒ The high resistance to particle contamination, thanks to the double lip technology increasing the pump lifetime
- ⇒ The large variety of options (cam displacement, shaft, porting) allows customised installation
- ⇒ Noise: Specially designed to optimise the low noise level characteristics
- ⇒ Cartridge Concept: Drops maintenance costs

ALSO AVAILABLE IS THE T6CM SPRING LOADED VANE PUMP FOR LOW PRESSURE APPLICATIONS

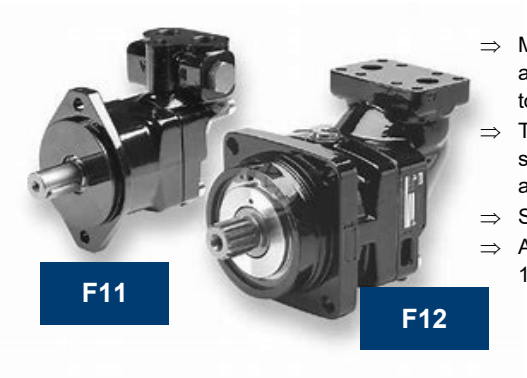
INTERCHANGABLE REPLACMENT OF VICKERS VANE PUMPS

WE CAN CUSTOMISE, BUILD AND TEST COMPLETE PUMPS TO FIT YOUR REQUIREMENTS!

F11/ F12 SERIES
BENT AXIS, FIXED DISPLACEMENT MOTOR/PUMP

SPECIALLY DESIGNED FOR DEMANDING APPLICATIONS, BEING ABLE TO WITHSTAND EXTREME CONDITIONS. PERFECTLY SUITED FOR A WIDE RANGE OF MOBILE APPLICATIONS

- ⇒ Max intermittent pressure up to 420 bar and continuous operating pressure up to 350 bar
- ⇒ Thanks to low weight pistons and a compact design of the rotating parts, the F11 tolerates very high speeds, up to 14000 rpm
- ⇒ CETOP, ISO, SAW and SAE versions
- ⇒ *Available in sizes 5, 6, 10, 12, 14 and 19cc



- ⇒ Max intermittent pressure up to 480 bar and continuous operating pressure up to 420 bar
- ⇒ The 7 or 9 piston design provides high start-up torque and smooth motor operation
- ⇒ SO, Cartridge, SAW and SAE versions
- ⇒ Available in sizes 30, 40, 60, 80, 90, 110, 125, 152, 162, 182 and 250cc

General Features

- The laminated piston ring offers important advantages such as unbeatable efficiency and thermal shock resistance.
- High allowable speeds and operating pressures means high output power.
- The unique piston locking, timing gear and bearing set-up as well as the limited number of parts add up to a very robust design with long service life and, above all, proven reliability.
- The 40° angle between shaft and cylinder barrel allows for a very compact, lightweight motor/ pump.
- Small envelop size and a high power-to-weight ratio.
- The motor version has highly engineered valve plates for high speed and low noise.
- The pump version has highly engineered valve plates for increased self priming speed and low noise, available with left and right hand rotation.
- The F11's and F12's have simple and straight forward design with very few moving parts, making them very reliable motors/pumps.
- Our unique timing gear design synchronises shaft and cylinder barrel, making the F11/F12 very tolerant to high 'G" forces and torsional vibrations.
- Heavy duty roller bearings permit substantial external axial and radial shaft loads.

PGP511 ALUMINIUM GEAR PUMPS
WITH INTEGRATED RELIEF VALVE

PRESSURE ADJUSTMENTS AVAILABLE

Pump Displacement	Code	0060	0100	0140	0190	0330
	cm³/rev	6.0	10.0	14.0	19.0	33.0
Max. Continuous Pressure	bar	250	250	250	250	155
Minimum Speed @ 0 Inlet & Max. outlet pressure	rpm	500	500	500	500	500
Maximum Speed @ 0 Inlet & Max. outlet pressure	rpm	3500	3500	3500	3250	2000
Pump Input Power @ Max. Pressure and 1500 rpm	kW	4.5	7.5	10.5	14.3	17.3
Dimension "L"	mm	50.1	56.5	62.8	70.6	92.6
Approximate Weight [1]	kg	3.40	3.55	3.71	3.91	4.45

APPLICATIONS

- ⇒ Sizes from 3-33cc
- ⇒ Operating pressures up to 250 bar (3,625psi)
- ⇒ Speeds up to 4,000 rpm
- ⇒ CW, CCW, and bio-rotational pumps available
- ⇒ SAE shafts, flanges and porting available
- ⇒ Extensive valve options available– pressure relief, anti-cavitation, cross port relief, solenoid unloading, proportional relief, and reversing

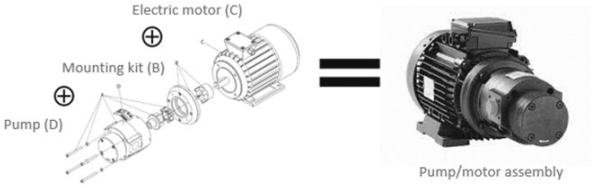
QPM GEROTOR PUMPS
LOW PRESSURE OIL PUMPS FOR INDUSTRIAL AND MARINE APPLICATIONS

SPECIFICATIONS

20 l/min	40 l/min	60 l/min	80 l/min
RELIEF VALVE 10 BAR OR 5 BAR		DIRECT COUPLING TO ELECTRIC MOTOR	

APPLICATIONS

- ⇒ Circulation of oil in cooling and oil filter systems
- ⇒ Circulation of oil in industrial hydraulic systems
- ⇒ Filling and draining of oil in tanks
- ⇒ Transfer of oil in stationary or mobile oil storage depots



WE HAVE A WIDE RANGE OF STOCK AVAILABLE IN MELBOURNE TO SUPPORT YOU!

HYDRAULIC & PNEUMATIC PTY LTD

WE ARE **AUSTRALIA'S LEADING SUPPLIER** OF **HYDRAULIC** & **PNEUMATIC PRODUCTS** & **SERVICES.** WITH **OVER 40 YEARS EXPERIENCE** IN THE **FLUID POWER INDUSTRY.**

OPERATING FROM **GIPPSLAND** & **MELBOURNE**.

WE PROVIDE LEADING TECHNICAL CAPABILITIES, 24/7 ACCESSIBILITY & RESPONSIVENESS

- ⇒ **COMPREHENSIVE RANGE OF P1 PISTON PUMPS AND MOTORS**
- ⇒ **COMPREHENSIVE RANGE OF DENISON VANE PUMPS AND MOTORS**
- ⇒ **PGP511 ALUMINIUM GEAR PUMPS WITH INTEGRATED RELIEF VALVE QPM3 GEROTOR PUMPS**
- ⇒ **HYDRAULIC MOTOR/ PUMP F11/F12 FIXED DISPLACEMENT**
- ⇒ **LARGE STOCK OF COMPLETE UNITS**
- ⇒ **RAPID BUILD AND DELIVERY OF COMPLETE P1, PD, DENISON VANE RANGE AND F11/F12**
- ⇒ **APPLICATION AND ENGINEERING SUPPORT & SERVICE**
- ⇒ **CATERING FOR OUR CUSTOMERS AUSTRALIA WIDE**

PLEASE CONTACT OUR EXPERIENCED TEAM FOR FURTHER TECHNICAL INFORMATION AND PRICING!

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