

# Pumps - Variable Displacement

## Axial Piston

VP1 – Truck



- Intermittent pressure up to 400 bar
- Suitable for all load-sensing systems
- Splined shaft DIN 5462
- Light and compact
- Mounting flange and shaft meet the ISO Standard
- Strong and reliable
- Less energy – less fuel – less heat

Frame size* VP1	45	75	95	120
Displacement (cm <sup>3</sup> /rev)	45	75	95	120
Max cont pressure (bar)	350	350	400	360
Max operating speed (rpm)	2400*	2200*	2200**	1900*
Input power (kW)	63	96	139	137
Weight (kg)	27	27	27	27

\* 2 1/2" suction line    \*\* 3" suction line

P2 / P3



- Designed for mobile applications
- High self priming speed
- Unique port layout
- Quiet operation
- Reduced flow and pressure ripple
- Easy to install
- Service friendly

Frame size P2	060	075	105	145		P3	105	145
Displacement (cm <sup>3</sup> /rev)	60	75	105	145			105	145
Max cont pressure (bar)	320	320	320	320			320	320
Max operating speed (rpm)	2800	2500	2300	2200			2600	2500
Weight (kg)	37	44	63	78			62	76

PV



- High strength cast iron housing
- Modular controls concepts
- Large servo pistons for fast response
- Thru-drive for 100 % nominal torque
- 9 piston design
- Multiple pressure control
- SAE and metric mounting features
- Reduced flow and pressure ripple
- Service-friendly

Frame size PV	16	20	23	28	32	40	46	63	80	92	140	180	270	360
Displacement (cm <sup>3</sup> /rev)	16	20	23	28	32	40	46	63	80	92	140	180	270	360
Max cont pressure (bar)	350	350	350	350	350	350	350	350	350	350	350	350	350	420
Max operating speed (rpm)	3000	3000	3000	3000	2800	2800	2800	2800	2500	2300	2400	2200	1800	1750
Input power (kW)	15.5	19.5	22.5	24.5	31	39	45	61.5	78	89.5	136	175	263	350
Weight (kg)	19	19	19	19	30	30	30	60	60	60	90	90	172	180

P1



- Compact overall package size for easy installation
- Wide range of hydromechanic and electronic control solutions
- Open loop 100% overcenter available (60cc and above) for energy recovery
- Quiet operation (9 piston design, ripple chamber)
- High flexibility by various thru drive options
- Service friendly

Frame size P1	018	028	045	060	075	100	140
Displacement (cm <sup>3</sup> /rev)	18	28	45	60	75	100	140
Max cont pressure (bar)	280	280	280	280	280	280	280
Max operating speed (rpm)	3300	3200	2800	2500	2400	2100	2100
Weight (kg)	14	18	24	30	31	53	67