

PVplus High Pressure Industrial Piston Pumps



PVplus piston pumps are ideal for heavy duty industrial applications with operating pressure up to 5000 PSI (350 BAR). These pumps respond quickly to system demands and, with the use of “ripple chamber” technology, are some of the quietest piston pumps available.

- High strength cast-iron housing
- Modular controls
- Large control piston for fast response
- Thru-shaft option with 100% thru torque capability
- Multiple pressure control
- Pre-Compression chamber

Pump Performance Data

Model Series	Displacement in ³ /rev (cc/rev)	Max. Outlet Pressure PSI (BAR)	Max Rated Drive Speed RPM	Pump Flow 1800 RPM & 100 PSI GPM (LPM)	Input Horsepower 1800 RPM & 5000 PSI HP (KW)
PV016	0.98 (16)	5000 (350)	3000 RPM	8 (30.3)	25 (18.6)
PV020	1.22 (20)	5000 (350)	3000 RPM	9.5 (36.0)	31 (23.1)
PV023	1.40 (23)	5000 (350)	3000 RPM	11 (41.6)	34 (25.4)
PV028	1.71 (28)	5000 (350)	3000 RPM	13 (49.2)	40 (29.8)
PV032	1.95 (32)	5000 (350)	2800 RPM	15 (56.8)	47 (35.0)
PV040	2.44 (40)	5000 (350)	2800 RPM	19 (71.9)	62 (46.2)
PV046	2.81 (46)	5000 (350)	2800 RPM	22 (83.3)	67 (50.0)
PV063	3.84 (63)	5000 (350)	2800 RPM	30 (113.6)	94 (70.1)
PV080	4.88 (80)	5000 (350)	2500 RPM	38 (143.9)	120 (89.5)
PV092	5.61 (92)	5000 (350)	2300 RPM	44 (166.6)	184 (137.2)
PV140	8.54 (140)	5000 (350)	2400 RPM	67 (253.6)	200 (149.1)
PV180	10.98 (180)	5000 (350)	2200 RPM	86 (235.5)	282 (210.3)
PV270	16.48 (270)	5000 (350)	1800 RPM	128 (484.5)	400 (298.3)
PV360	21.97 (360)	5000 (350)	1750 RPM	160 (605.7)	500 (372.8)

Markets

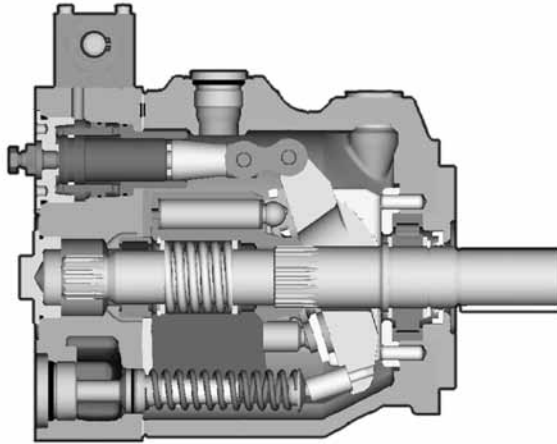
Industrial	Presses, Shears, Injection Molding, Aircraft Test Stands, Test Equipment, Simulators
Oil & Gas	Nitrogen Pumps, Cementers, Coil Tubing, Oil Lift Pumps
Construction	Wheel Loader
Mining	Drill Rigs, Tunneling Equipment
Material Handling	Conveyor Drives, Apron Feeders, Rail Car Tippers, Mixers
Recycling	Shredders, Balers, Compactors

Applications



Piston Pumps (Industrial)

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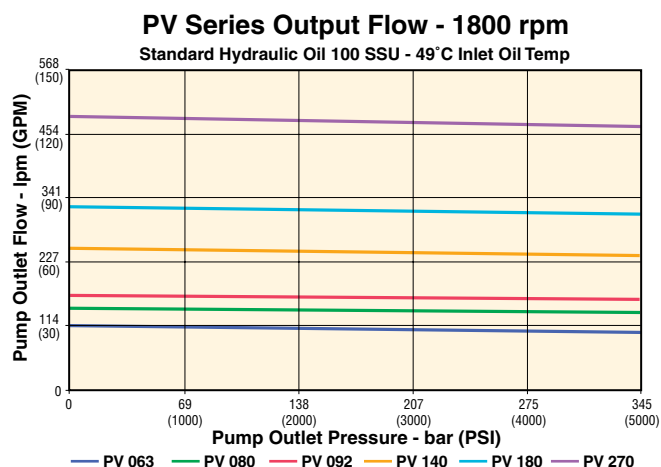
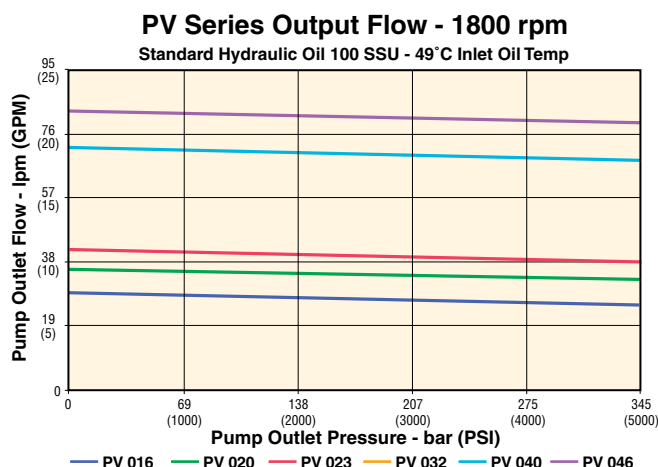
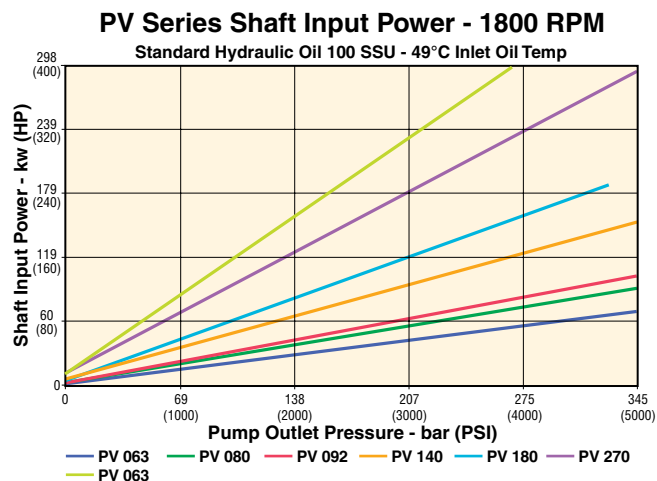
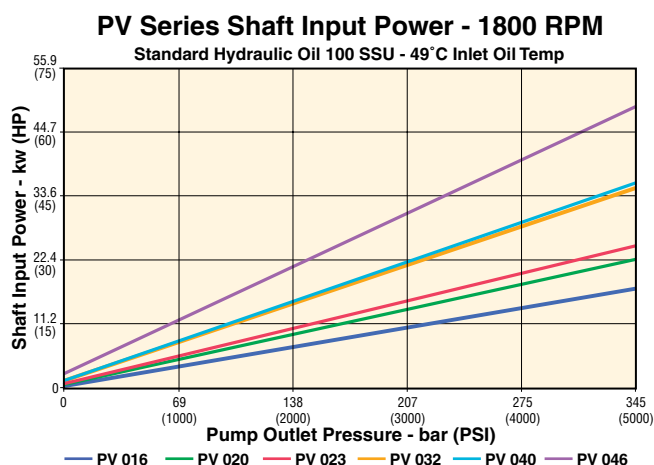
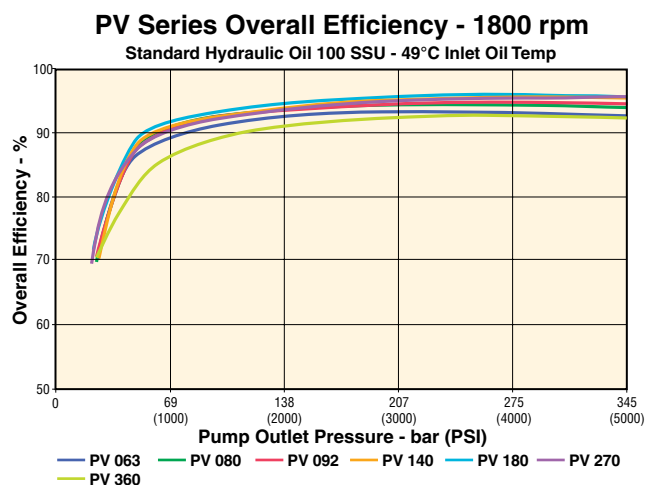
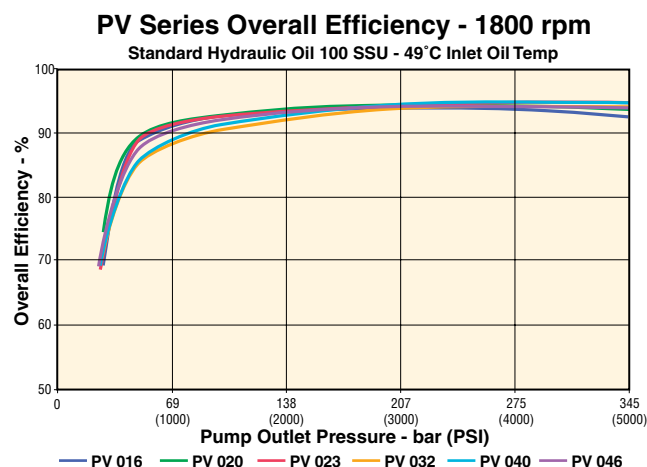


Benefits/Features

- High strength cast-iron housing for high reliability and quiet operation
- Modular controls for field convertibility
- Large control piston for fast response
- Thru-shaft option with 100% thru torque capability
- Multiple pressure control with valves mounted directly on pump
- Pre-compression chamber to minimize over-all system noise
- High self-priming speed and cold start capability

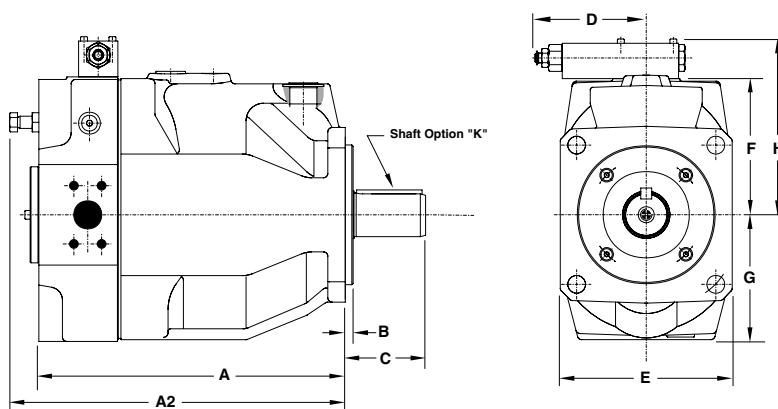
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Performance Characteristics



For 360 Consult Factory

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Dimensions, inch (mm)

Model	A	A2 Max.	B	C	D Max.	E	F	G	H
PV016/020/023	77.8 (195)	83.5 (212)	0.37 (9)	2.0 (52)	0.49 (12.44)	5.2 (132)	3.7 (94)	3.1 (80)	5.5 (140)
PV032/040/046	89 (227)	96 (245)	0.50 (9)	2.7 (68)	2.19 (55.62)	6.1 (156)	4.2 (107)	3.6 (92)	6.0 (153)
PV063/080/092	112.9 (287)	120.5 (306)	0.50 (9)	3.6 (92)	4.25 (107.95)	8.0 (204)	5.3 (135)	4.6 (118)	7.1 (181)
PV140/180	138 (350)	152 (385)	0.50 (9)	3.6 (92)	4.25 (107.95)	7.8 (200)	6.2 (158)	5.7 (145)	8.0 (204)
PV270	186 (472.5)	201 (510)	0.50 (9)	4.5 (115)	—	10.4 (265)	7.2 (184)	6.9 (176)	9.1 (230)
PV360	187.7 (477)	201 (510)	0.50 (9)	4.5 (115)	—	98.4 (250)	7.2 (184)	6.9 (176)	9.1 (230)

Filtration and auxiliary function pump suggestions



Pump

Model Code	Flow @1800 RPM GPM (LPM)	Pressure PSI (BAR)
T67B-B02-3R00-A100	3 (11.4)	4000 (275.8)
T67B-B04-3R00-A100	6 (22.7)	4000 (275.8)
T67B-B07-3R00-A100	10 (37.9)	4000 (275.8)

Thru-Drive Kits

Pump Series	Kit #	Mount
PV016/020/023	MK-PVBG1BSN45 plus MK-PVBG1K1342	SAE B
PV032/040/046	MK-PVBG2BSN40 plus MK-PVBG2K1340	SAE B
PV063/080/092	MK-PVBG3BSN41 plus MK-PVBG3K1341	SAE B
PV140/180	MK-PVBG4BSN40 plus MK-PVBG4K1340	SAE B
PV270	MK-PVBG5BSN40 plus MK-PVBG5K1340	SAE B
PV270	MK-PVBG5BSN40 plus MK-PVBG5K1340	SAE B

* Verify correct design series