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hp	Disp. (l)	Torque (lb.-ft.)	Fuel	Emissions Certifications	Aftertreatment	Dimensions (in.)			Dry Weight (lb.)	Model	Family/Series	Company
						L	W	H				
1.1	0.03	0.92	G	Tier 3		7.4	6.4	7.8	9.1	GX25	Mini 4-Stroke	Honda Engines
1.3	0.04	1.20	G	Tier 3		9.0	7.6	8.1	10.1	GX35	Mini 4-Stroke	Honda Engines
1.8	0.08	3.3	G	EPA Phase 3		9.4	12.6	11.5	23	79cc	PLMH	Liquid Combustion Technology (LCT)
2.0	0.06	2.1	G	Tier 3		13.0	11.9	9.8	9.5	GX57	GX	Honda Engines
2.1	0.05	2	G	Tier 3		14.5	12.1	8.9	13.9	GX450	GX	Honda Engines
2.1	0.05	2	G	Tier 3		12.5	11.4	9.8	8.9	GXV50	GX	Honda Engines
2.8	0.10	4.2	G	Tier 3		26.2	24.0	11.6	16.5	GX100	GX	Honda Engines
3.5	0.12	5.4	G	Tier 3		34.1	28.6	12.0	13	GX120	GX	Honda Engines
3.6	0.12	5.5	G	Tier 3		23.3	22.9	10.2	11.4	GXR120	GX	Honda Engines
4.0	0.14	7.1	G	EPA Phase 3	Catalyst	12.2	14.9	14.3	29.8	136cc	PLMH	Liquid Combustion Technology (LCT)

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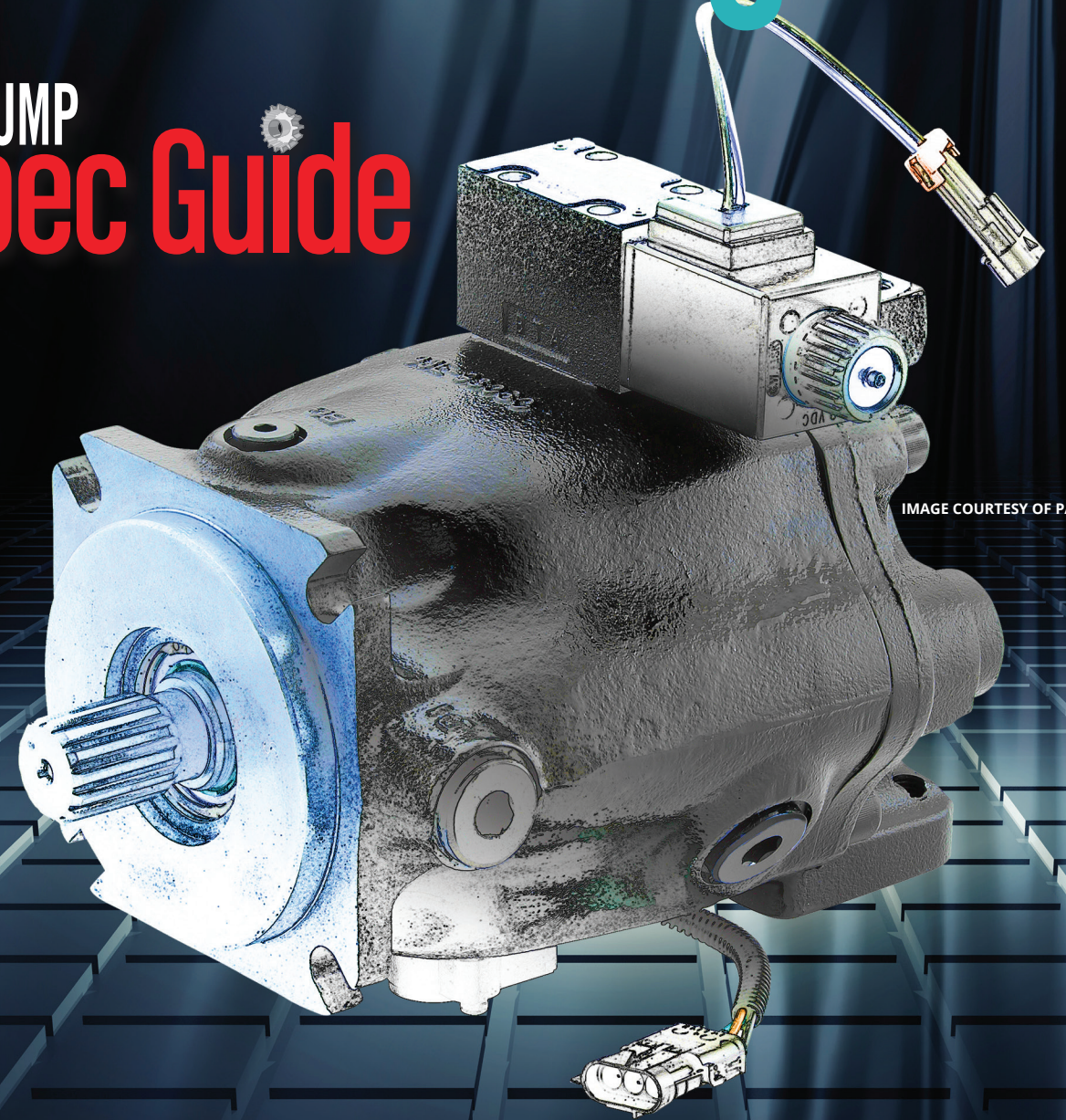


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Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
Yes	No	Axial piston / variable	single / tandem / multi port	0.013 - 64.18	.008 - 3.91	700	10,000	700	10,000	2000	3200	0.25	30	.18 - 110	.05 - 30	DIN	DIN	Various	n/a	DIN	various	n/a	n/a	R	HAWE Hydraulics
yes	no	gear	single	0.19	0.012	190	2755	230	3335	6000	6000	0.38 - 2.03	0.52 - 2.72	1.18 - 6.25	0.31 - 1.65		Parallel Shaft tang drive	6 5	0.236 0.197					HPL Group 0	Bondioli & Pavesi
yes	no	gear	single	0.26	0.016	190	2755	230	3335	6000	6000	0.38 - 2.03	0.52 - 2.72	1.18 - 6.25	0.31 - 1.65		Parallel Shaft tang drive	6 5	0.236 0.197					HPL Group 0	Bondioli & Pavesi
yes	no	gear	single	0.38	0.023	190	2755	230	3335	6000	6000	0.38 - 2.03	0.52 - 2.72	1.18 - 6.25	0.31 - 1.65		Parallel Shaft tang drive	6 5	0.236 0.197					HPL Group 0	Bondioli & Pavesi
yes	no	gear	single	0.51	0.031	190	2755	230	3335	6000	6000	0.38 - 2.03	0.52 - 2.72	1.18 - 6.25	0.31 - 1.65		Parallel Shaft tang drive	6 5	0.236 0.197					HPL Group 0	Bondioli & Pavesi
yes	no	gear	single	0.64	0.039	190	2755	230	3335	6000	6000	0.38 - 2.03	0.52 - 2.72	1.18 - 6.25	0.31 - 1.65		Parallel Shaft tang drive	6 5	0.236 0.197					HPL Group 0	Bondioli & Pavesi
yes	no	gear	single	0.88	0.054	190	2755	230	3335	6000	6000	0.38 - 2.03	0.52 - 2.72	1.18 - 6.25	0.31 - 1.65		Parallel Shaft tang drive	6 5	0.236 0.197					HPL Group 0	Bondioli & Pavesi
yes	no	gear	single	1	0.061	190	2755	230	3335	6000	6000	0.38 - 2.03	0.52 - 2.72	1.18 - 6.25	0.31 - 1.65		Parallel Shaft tang drive	6 5	0.236 0.197					HPL Group 0	Bondioli & Pavesi
yes	no	Fixed Gear Pump	External	1.2	0.073	210	3000	250	3600	800	4500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt AA, (ISO: NFPA 4F17 4 Bolt)	9T 20/40 Spline; 1/2" Keyed; 1:8 Tapered	12.7	0.5	N/A	N/A	N/A	N/A	AP100	Bucher Hydraulics, Inc.
yes	no	gear	single	1.25	0.076	190	2755	230	3335	5000	5000	0.38 - 2.03	0.52 - 2.72	1.18 - 6.25	0.31 - 1.65		Parallel Shaft tang drive	6 5	0.236 0.197					HPL Group 0	Bondioli & Pavesi
yes	no	gear	single	1.37	0.08	220	3190	280	4060	3500	3500	1.82 - 6.68	2.44 - 8.96	4.58 - 23.58	1.21 - 6.23	SAE AA	Tapered (1:8) European Parallel SAE AA Parallel Tapered (1:5) Splined 12x9 SAE AA Splined Front Tooth Tang Drive Tapered High Torque (1:8)	10	0.394					HPL Group 1	Bondioli & Pavesi
yes	no	Fixed Gear Pump	External	1.7	0.103	210	3000	250	3600	650	4500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt AA, (ISO: NFPA 4F17 4 Bolt)	9T 20/40 Spline; 1/2" Keyed; 1:8 Tapered	12.7	0.5	N/A	N/A	N/A	N/A	AP100	Bucher Hydraulics, Inc.
yes	no	gear	single	1.9	0.12	220	3190	280	4060	3500	3500	1.82 - 6.68	2.44 - 8.96	4.58 - 23.58	1.21 - 6.23	SAE AA	Tapered (1:8) European Parallel SAE AA Parallel Tapered (1:5) Splined 12x9 SAE AA Splined Front Tooth Tang Drive Tapered High Torque (1:8)	12	0.472					HPL Group 1	Bondioli & Pavesi
yes	no	Fixed Gear Pump	External	2.5	0.152	210	3000	250	3600	650	4500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt AA, (ISO: NFPA 4F17 4 Bolt)	9T 20/40 Spline; 1/2" Keyed; 1:8 Tapered	12.7	0.5	N/A	N/A	N/A	N/A	AP100	Bucher Hydraulics, Inc.
yes	no	gear	single	2.53	0.15	210	3045	260	3770	3500	3500	1.82 - 6.68	2.44 - 8.96	4.58 - 23.58	1.21 - 6.23	SAE AA	Tapered (1:8) European Parallel SAE AA Parallel Tapered (1:5) Splined 12x9 SAE AA Splined Front Tooth Tang Drive Tapered High Torque (1:8)	12.7	0.5					HPL Group 1	Bondioli & Pavesi
yes	no	gear	single	3.17	0.19	210	3045	260	3770	3500	3500	1.82 - 6.68	2.44 - 8.96	4.58 - 23.58	1.21 - 6.23	SAE AA	Tapered (1:8) European Parallel SAE AA Parallel Tapered (1:5) Splined 12x9 SAE AA Splined Front Tooth Tang Drive Tapered High Torque (1:8)	12.7	0.5					HPL Group 1	Bondioli & Pavesi
yes	no	Fixed Gear Pump	External	3.5	0.213	210	3000	230	3300	650	3500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt AA, (ISO: NFPA 4F17 4 Bolt)	9T 20/40 Spline; 1/2" Keyed; 1:8 Tapered	12.7	0.5	N/A	N/A	N/A	N/A	AP100	Bucher Hydraulics, Inc.

Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
yes	no	gear	single	3.73	0.23	210	3045	260	3770	3500	3500	1.82 - 6.68	2.44 - 8.96	4.58 - 23.58	1.21 - 6.23	SAE AA	Tapered (1:8) European Parallel SAE AA Parallel Tapered (1:5) Splined 12x9 SAE AA Splined Front Tooth Tang Drive Tapered High Torque (1:8)	8	0.316					HPL Group 1	Bondioli & Pavesi
yes	no	Fixed Gear Pump	External	4.3	0.262	210	3000	230	3300	550	3500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt AA, (ISO: NFPA 4F17 4 Bolt)	9T 20/40 Splines; 1/2" Keyed; 1:8 Tapered	12.7	0.5	N/A	N/A	N/A	N/A	AP100	Bucher Hydraulics, Inc.
yes	no	gear	single	4.35	0.27	210	3045	260	3770	3500	3500	1.82 - 6.68	2.44 - 8.96	4.58 - 23.58	1.21 - 6.23	SAE AA	Tapered (1:8) European Parallel SAE AA Parallel Tapered (1:5) Splined 12x9 SAE AA Splined Front Tooth Tang Drive Tapered High Torque (1:8)	11.7	0.461					HPL Group 1	Bondioli & Pavesi
yes	no	Fixed Gear Pump	External	4.4	0.269	250	3600	300	4300	600	4000	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt A, 2-Bolt B	9T 16/32 Splines; 5/8" Keyed; 1:8 Tapered	16	0.625	N/A	N/A	N/A	N/A	AP212	Bucher Hydraulics, Inc.
yes	no	gear	single	4.5	0.27	240	3480	300	4350	3500	3500	6.58 - 25.79	8.82 - 34.59	15.48 - 101.18	4.09 - 26.73	SAE A SAE B	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel DIN 5482 Splined SAE A 9T SAE A 11T SAE B 13T Tang Drive	12	0.472					HPL Group 2	Bondioli & Pavesi
yes	no	gear	single	4.5	0.27	270	3915	320	4640	3500	3500	7.02 - 20.84	9.41 - 27.94	15.48 - 77.41	4.09 - 20.45	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T DIN 5482 Splined	12 15 15.85 15.45 16.5	0.472 0.591 0.624 0.608 0.65					HPG Group 2	Bondioli & Pavesi
Yes	No	Axial piston / variable	single / tandem / multi port	4.58 - 64.18	.279 - 3.91	700	10,000	700	10,000	1450	3200	0.25	30	.18 - 91.2	.05 - 24	DIN	DIN	Various	n/a	DIN	various	n/a	n/a	RG	HAWE Hydraulics
yes	no	gear	single	4.97	0.3	210	3045	260	3770	3500	3500	1.82 - 6.68	2.44 - 8.96	4.58 - 23.58	1.21 - 6.23	SAE AA	Tapered (1:8) European Parallel SAE AA Parallel Tapered (1:5) Splined 12x9 SAE AA Splined Front Tooth Tang Drive Tapered High Torque (1:8)	12.7	0.498					HPL Group 1	Bondioli & Pavesi
yes	no	Fixed Gear Pump	External	5	0.305	210	3000	230	3300	500	3000	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt AA, (ISO: NFPA 4F17 4 Bolt)	9T 20/40 Splines; 1/2" Keyed; 1:8 Tapered	12.7	0.5	N/A	N/A	N/A	N/A	AP100	Bucher Hydraulics, Inc.
yes	no	Fixed Gear Pump	Internal	5.10 - 498.50	0.31 - 30.42	320	4640	400	5800	Min. 1200	3600	Consult Factory	Consult Factory	Consult Factory	Consult Factory	A, B, C, D & Metric	Metric Keyed	-	-	N/A	N/A	N/A	N/A	QX	Bucher Hydraulics, Inc.
yes	no	gear	single	6	0.37	240	3480	300	4350	3500	3500	6.58 - 25.79	8.82 - 34.59	15.48 - 101.18	4.09 - 26.73	SAE A SAE B	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel DIN 5482 Splined SAE A 9T SAE A 11T SAE B 13T Tang Drive	12	0.472					HPL Group 2	Bondioli & Pavesi
yes	no	gear	single	6	0.37	270	3915	320	4640	3500	3500	7.02 - 20.84	9.41 - 27.94	15.48 - 77.41	4.09 - 20.45	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T DIN 5482 Splined	12 15 15.85 15.45 16.5	0.472 0.591 0.624 0.608 0.65					HPG Group 2	Bondioli & Pavesi

Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
yes	no	gear	single	6.08	0.37	210	3045	260	3770	3000	3000	1.82 - 6.68	2.44 - 8.96	4.58 - 23.58	1.21 - 6.23	SAE AA	Tapered (1:8) European Parallel SAE AA Parallel Tapered (1:5) Splined 12x9 SAE AA Splined Front Tooth Tang Drive Tapered High Torque (1:8)	18.8	0.74					HPL Group 1	Bondoli & Pavesi
yes	no	gear	single	6.1	0.37	240	3480	300	4350	3500	3500	9.02 - 19.01	12.09 - 25.49	21.24 - 6.90	5.61 - 16.88	SAE A	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel SAE A 9T Tang Drive	12 12 15 15.85 15.45 32	0.472 0.472 0.591 0.624 0.608 1.26					HPZ Group 2	Bondoli & Pavesi
yes	no	gear	single	6.1	0.37	270	3915	320	4640	3500	3500	9.62 - 19.0	12.9 - 25.49	21.24 - 6.90	5.61 - 16.88	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T	12 15 15.85 15.45	0.472 0.591 0.624 0.608					HPX Group 2	Bondoli & Pavesi
yes	no	Fixed Gear Pump	External	6.4	0.391	250	3600	300	4300	600	4000	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt A, 2-Bolt B	9T 16/32 Spline; 5/8" Keyed; 1:8 Tapered	16	0.625	N/A	N/A	N/A	N/A	AP212	Bucher Hydraulics, Inc.
yes	no	Fixed Gear Pump	External	6.5	0.396	190	2700	220	3150	500	2500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt AA, (ISO: NFPA 4F17 4 Bolt)	9T 20/40 Spline; 1/2" Keyed; 1:8 Tapered	12.7	0.5	N/A	N/A	N/A	N/A	AP100	Bucher Hydraulics, Inc.
no	yes	Axial piston	single	7	0.43	180	2610	230	3335	3600	3600	8.3 - 21.1	11.1 - 28.4	25.4 - 64.7	6.7 - 17.1	SAE A - 2 bolt	SAE 9T, SAE 11T, Round Straight Key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PL	Bondoli & Pavesi
no	yes	Axial piston	single	7	0.43	280	4060	350	5075	3600	3600	12.6 - 29.4	16.9 - 39.4	25.4 - 64.8	6.7 - 17.2	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	6	0.36	SM P0	Bondoli & Pavesi
no	yes	Axial piston	single	7	0.43	280	4060	350	5075	3600	3600	12.6 - 31.0	16.9 - 41.6	25.4 - 68.4	6.7 - 18.1	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PZ	Bondoli & Pavesi
yes	no	gear	single	7	0.43	190	2755	230	3335	3000	3000	1.82 - 6.68	2.44 - 8.96	4.58 - 23.58	1.21 - 6.23	SAE AA	Tapered (1:8) European Parallel SAE AA Parallel Tapered (1:5) Splined 12x9 SAE AA Splined Front Tooth Tang Drive Tapered High Torque (1:8)	23	0.906					HPL Group 1	Bondoli & Pavesi
yes	no	Fixed Gear Pump	External	7.8	0.476	180	2600	210	3000	500	2500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt AA, (ISO: NFPA 4F17 4 Bolt)	9T 20/40 Spline; 1/2" Keyed; 1:8 Tapered	12.7	0.5	N/A	N/A	N/A	N/A	AP100	Bucher Hydraulics, Inc.
yes	no	gear	single	7.87	0.48	160	2320	200	2900	3000	3000	1.82 - 6.68	2.44 - 8.96	4.58 - 23.58	1.21 - 6.23	SAE AA	Tapered (1:8) European Parallel SAE AA Parallel Tapered (1:5) Splined 12x9 SAE AA Splined Front Tooth Tang Drive Tapered High Torque (1:8)	12	0.472					HPL Group 1	Bondoli & Pavesi
no	yes	Axial piston	single	8	0.49	180	2610	230	3335	3600	3600	8.3 - 21.1	11.1 - 28.4	25.4 - 64.7	6.7 - 17.1	SAE A - 2 bolt	SAE 9T, SAE 11T, Round Straight Key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PL	Bondoli & Pavesi
no	yes	Axial piston	single	8	0.49	280	4060	350	5075	3600	3600	12.6 - 29.4	16.9 - 39.4	25.4 - 64.8	6.7 - 17.2	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	6	0.36	SM P0	Bondoli & Pavesi



Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
no	yes	Axial piston	single	8	0.49	280	4060	350	5075	3600	3600	12.6 - 31.0	16.9 - 41.6	25.4 - 68.4	6.7 - 18.1	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PZ	Bondioli & Pavesi
yes	no	Fixed Gear Pump	External	8.4	0.513	250	3600	300	4300	600	4000	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt A, 2-Bolt B	9T 16/32 Spline; 5/8" Keyed; 1:8 Tapered	16	0.625	N/A	N/A	N/A	N/A	AP212	Bucher Hydraulics, Inc.
yes	no	gear	single	8.5	0.52	230	3335	280	4060	3500	3500	6.58 - 25.79	8.82 - 34.59	15.48 - 101.18	4.09 - 26.73	SAE A SAE B	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel DIN 5482 Splined SAE A 9T SAE A 11T SAE B 13T Tang Drive	15	0.591					HPL Group 2	Bondioli & Pavesi
yes	no	gear	single	8.5	0.52	270	3915	320	4640	3500	3500	7.02 - 20.84	9.41 - 27.94	15.48 - 77.41	4.09 - 20.45	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T DIN 5482 Splined	12 15 15.85 15.45 16.5	0.472 0.591 0.624 0.608 0.65					HPG Group 2	Bondioli & Pavesi
no	yes	Axial piston	single	9	0.55	180	2610	230	3335	3600	3600	8.3 - 21.1	11.1 - 28.4	25.4 - 64.7	6.7 - 17.1	SAE A - 2 bolt	SAE 9T, SAE 11T, Round Straight Key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PL	Bondioli & Pavesi
no	yes	Axial piston	single	9	0.55	280	4060	350	5075	3600	3600	12.6 - 29.4	16.9 - 39.4	25.4 - 64.8	6.7 - 17.2	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	6	0.36	SM P0	Bondioli & Pavesi
no	yes	Axial piston	single	9	0.55	280	4060	350	5075	3600	3600	12.6 - 31.0	16.9 - 41.6	25.4 - 68.4	6.7 - 18.1	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PZ	Bondioli & Pavesi
yes	no	gear	single	9	0.55	230	3335	280	4060	3500	3500	9.02 - 19.01	12.09 - 25.49	21.24 - 6.90	5.61 - 16.88	SAE A	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel SAE A 9T Tang Drive	12 12 15 15.85 15.45 32	0.472 0.472 0.591 0.624 0.608 1.26					HPZ Group 2	Bondioli & Pavesi
yes	no	gear	single	9	0.55	270	3915	320	4640	3500	3500	9.62 - 19.0	12.9 - 25.49	21.24 - 6.90	5.61 - 16.88	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T	12 15 15.85 15.45	0.472 0.591 0.624 0.608					HPX Group 2	Bondioli & Pavesi
yes	no	Axial piston	single	10	0.61	250	3625	315	4568	3300	3300	14.7 - 24.1	19.7 - 32.4	33.0 - 54.1	8.7 - 14.3	SAE A - 2 bolt	SAE 9T	15.4	0.6	SAE A, Gr. 1	SAE 9T, Gr. 1 tang			SM A1	Bondioli & Pavesi
no	yes	Axial piston	single	10	0.61	180	2610	230	3335	3600	3600	8.3 - 21.1	11.1 - 28.4	25.4 - 64.7	6.7 - 17.1	SAE A - 2 bolt	SAE 9T, SAE 11T, Round Straight Key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PL	Bondioli & Pavesi
no	yes	Axial piston	single	10	0.61	280	4060	350	5075	3600	3600	12.6 - 29.4	16.9 - 39.4	25.4 - 64.8	6.7 - 17.2	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	6	0.36	SM P0	Bondioli & Pavesi
no	yes	Axial piston	single	10	0.61	280	4060	350	5075	3600	3600	12.6 - 31.0	16.9 - 41.6	25.4 - 68.4	6.7 - 18.1	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PZ	Bondioli & Pavesi
yes	no	Fixed Gear Pump	External	10	0.61	150	2150	180	2600	500	2000	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt AA, (ISO: NFPA 4F17 4 Bolt)	9T 20/40 Spline; 1/2" Keyed; 1:8 Tapered	12.7	0.5	N/A	N/A	N/A	N/A	AP100	Bucher Hydraulics, Inc.
yes	no	Axial Piston	single	10 - 100	.61-6.10	250	3600	315	4600	3600-2300	4320-2500	16-96	22-34	37-230	9.7-60	2 bolt	n/a	n/a	n/a	n/a	Splined, parallel keyed, tapered	n/a	n/a	A10VSO series 52/53	Bosch Rexroth



Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
no	yes	Axial piston	single	11	0.67	180	2610	230	3335	3600	3600	8.3 - 21.1	11.1 - 28.4	25.4 - 64.7	6.7 - 17.1	SAE A - 2 bolt	SAE 9T, SAE 11T, Round Straight Key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PL	Bondiola & Pavesi
no	yes	Axial piston	single	11	0.67	280	4060	350	5075	3600	3600	12.6 - 29.4	16.9 - 39.4	25.4 - 64.8	6.7 - 17.2	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	6	0.36	SM P0	Bondiola & Pavesi
no	yes	Axial piston	single	11	0.67	280	4060	350	5075	3600	3600	12.6 - 31.0	16.9 - 41.6	25.4 - 68.4	6.7 - 18.1	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PZ	Bondiola & Pavesi
yes	no	gear	single	11	0.67	230	3335	280	4060	3500	3500	6.58 - 25.79	8.82 - 34.59	15.48 - 101.18	4.09 - 26.73	SAE A SAE B	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel DIN 5482 Splined SAE A 9T SAE A 11T SAE B 13T Tang Drive	15.85	0.624					HPL Group 2	Bondiola & Pavesi
yes	no	gear	single	11	0.67	250	3625	300	4350	3000	3000	7.02 - 20.84	9.41 - 27.94	15.48 - 77.41	4.09 - 20.45	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T DIN 5482 Splined	12 15 15.85 15.45 16.5	0.472 0.591 0.624 0.608 0.65					HPG Group 2	Bondiola & Pavesi
yes	no	Fixed Gear Pump	External	11.1	0.677	250	3600	300	4300	500	3500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt A, 2-Bolt B	9T 16/32 Splined; 5/8" Keyed; 1:8 Tapered	16	0.625	N/A	N/A	N/A	N/A	AP212	Bucher Hydraulics, Inc.
yes	no	gear	single	11.5	0.7	230	3335	280	4060	3000	3000	9.02 - 19.01	12.09 - 25.49	21.24 - 6.90	5.61 - 16.88	SAE A	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel SAE A 9T Tang Drive	12 12 15 15.85 15.45 32	0.472 0.472 0.591 0.624 0.608 1.26					HPZ Group 2	Bondiola & Pavesi
yes	no	gear	single	11.5	0.7	250	3625	300	4350	3000	3000	9.62 - 19.0	12.9 - 25.49	21.24 - 6.90	5.61 - 16.88	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T	12 15 15.85 15.45	0.472 0.591 0.624 0.608					HPX Group 2	Bondiola & Pavesi
Yes	Yes	Piston	Variable Displacement	11.5	0.70	90	1300	180	2600	1800 - 3600	3600	11.2	15	41.3	10.9	B 2-bolt	Straight	20	0.79			3.2	0.20	HP212	Parker - Pump & Motor Div.
Yes	Yes	Piston	Variable Displacement	11.5	0.70	90	1300	180	2600	1800 - 3600	3600	11.2	15	41.3	10.9	Side 2-bolt, 4-stud	Tapered	20	0.79			2.6	0.16	HP112	Parker - Pump & Motor Div.
yes	no	Axial piston	single	12	0.73	250	3625	315	4568	3300	3300	14.7 - 24.1	19.7 - 32.4	33.0 - 54.1	8.7 - 14.3	SAE A - 2 bolt	SAE 11T	18.5	0.73	SAE A, Gr. 1	SAE 9T, Gr. 1 tang			SM A1	Bondiola & Pavesi
no	yes	Axial piston	single	12	0.73	180	2610	230	3335	3600	3600	8.3 - 21.1	11.1 - 28.4	25.4 - 64.7	6.7 - 17.1	SAE A - 2 bolt	SAE 9T, SAE 11T, Round Straight Key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PL	Bondiola & Pavesi
no	yes	Axial piston	single	12	0.73	280	4060	350	5075	3600	3600	12.6 - 29.4	16.9 - 39.4	25.4 - 64.8	6.7 - 17.2	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	6	0.36	SM P0	Bondiola & Pavesi
no	yes	Axial piston	single	12	0.73	280	4060	350	5075	3600	3600	12.6 - 31.0	16.9 - 41.6	25.4 - 68.4	6.7 - 18.1	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PZ	Bondiola & Pavesi
Yes	No	Fixed / bent axis	Single	12.6	0.77	400	5800	420	6000	2300	3000	6.9	9	29.0	7.7	SAE	Various	Various	Various	n/a	Various	n/a	n/a	K60N	HAWE Hydraulics
no	yes	Axial piston	single	13	0.79	280	4060	350	5075	3600	3600	12.6 - 29.4	16.9 - 39.4	25.4 - 64.8	6.7 - 17.2	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	6	0.36	SM P0	Bondiola & Pavesi



Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
no	yes	Axial piston	single	13	0.79	280	4060	350	5075	3600	3600	12.6 - 31.0	16.9 - 41.6	25.4 - 68.4	6.7 - 18.1	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PZ	Bondiolini & Pavesi
yes	no	Axial piston	single	14	0.85	250	3625	315	4568	3300	3300	14.7 - 24.1	19.7 - 32.4	33.0 - 54.1	8.7 - 14.3	SAE A - 2 bolt	SAE 13T	21.8	0.87	SAE A, Gr. 1	SAE 9T, Gr. 1 tang			SM A1	Bondiolini & Pavesi
no	yes	Axial piston	single	14	0.85	180	2610	230	3335	3600	3600	8.3 - 21.1	11.1 - 28.4	25.4 - 64.7	6.7 - 17.1	SAE A - 2 bolt	SAE 9T, SAE 11T, Round Straight Key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PL	Bondiolini & Pavesi
no	yes	Axial piston	single	14	0.85	280	4060	350	5075	3600	3600	12.6 - 29.4	16.9 - 39.4	25.4 - 64.8	6.7 - 17.2	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	6	0.36	SM P0	Bondiolini & Pavesi
no	yes	Axial piston	single	14	0.85	280	4060	350	5075	3600	3600	12.6 - 31.0	16.9 - 41.6	25.4 - 68.4	6.7 - 18.1	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PZ	Bondiolini & Pavesi
no	yes	Axial piston	single	14	0.85	250	3625	350	5075	4000	4000	27.62 - 36.39	37.04 - 48.8	55.7 - 73.4	14.7 - 19.4	SAE A - 2 bolt SAE B - 2 bolt	SAE 9T SAE 11T SAE 13T	15.4 18.5 21.8	0.60 0.73 0.87	SAE A, Gr. 1	SAE 9T, Gr. 1 tang	6	0.36	HP P2	Bondiolini & Pavesi
yes	no	gear	single	14.2	0.87	230	3335	280	4060	3000	3000	9.02 - 19.01	12.09 - 25.49	21.24 - 6.90	5.61 - 16.88	SAE A	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel SAE A 9T Tang Drive	12 12 15 15.85 15.45 32	0.472 0.472 0.591 0.624 0.608 1.26					HPZ Group 2	Bondiolini & Pavesi
yes	no	gear	single	14.2	0.87	250	3625	300	4350	3000	3000	9.62 - 19.0	12.9 - 25.49	21.24 - 6.90	5.61 - 16.88	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T	12 15 15.85 15.45	0.472 0.591 0.624 0.608					HPX Group 2	Bondiolini & Pavesi
Yes	No	Fixed Gear	Single/Tandem/Multiple	14.4	0.88	241	3500	241	3500	3600	3600	Consult Factory	Consult Factory	51.1	13.5	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	C	Geartek
Yes	No	Fixed Gear	Internal Relief	14.4	0.88	241	3500	241	3500	3600	3600	Consult Factory	Consult Factory	51.1	13.5	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	CX	Geartek
yes	no	gear	single	14.5	0.88	230	3335	280	4060	3500	3500	6.58 - 25.79	8.82 - 34.59	15.48 - 101.18	4.09 - 26.73	SAE A SAE B	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel DIN 5482 Splined SAE A 9T SAE A 11T SAE B 13T Tang Drive	16.5	0.65					HPL Group 2	Bondiolini & Pavesi
yes	no	gear	single	14.5	0.88	250	3625	300	4350	3000	3000	7.02 - 20.84	9.41 - 27.94	15.48 - 77.41	4.09 - 20.45	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T DIN 5482 Splined	12 15 15.85 15.45 16.5	0.472 0.591 0.624 0.608 0.65					HPG Group 2	Bondiolini & Pavesi
yes		HPVR-6	axial piston	14.9	0.91	280	4000	320	4500	1750	3000	13	18	26.0	6.87	"A" 2-Bolt	J744 (Jul 88)	19.05	0.75						Continental Hydraulics
yes		HPVR-6	axial piston	14.9	0.91	280	4000	320	4500	1750	3000	13	18	26.0	6.87	"A/B" 2-Bolt (Splined)	J744 (Jul 88)	20.638 Pitch Dia. 13T, 12/24 Pitch	.8125 Pitch Dia. 13T, 12/24 Pitch						Continental Hydraulics
yes	no	Fixed Gear Pump	External	15.1	0.921	250	3600	300	4300	500	3500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt A, 2-Bolt B	9T 16/32 Spline; 5/8" Keyed; 1:8 Tapered	16	0.625	N/A	N/A	N/A	N/A	AP212	Bucher Hydraulics, Inc.
yes	no	Fixed Gear Pump	External	15.2	0.928	300	4300	320	4600	500	3500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP250	Bucher Hydraulics, Inc.
yes	no	Axial piston	single	16	0.98	250	3625	315	4568	3300	3300	14.7 - 24.1	19.7 - 32.4	33.0 - 54.1	8.7 - 14.3	SAE A - 2 bolt	Round Straight key	19.05	0.75	SAE A, Gr. 1	SAE 9T, Gr. 1 tang			SM A1	Bondiolini & Pavesi
no	yes	Axial piston	single	16	0.98	180	2610	230	3335	3600	3600	8.3 - 21.1	11.1 - 28.4	25.4 - 64.7	6.7 - 17.1	SAE A - 2 bolt	SAE 9T, SAE 11T, Round Straight Key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PL	Bondiolini & Pavesi





Open Loop	Closed Loop	Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
				cm³/rev	in³/rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm³/rev	in³/rev		
Yes		PVX116-KBABA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	B 2 & 4-BOLT	B-B KEYED	25.4	1		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-KBBAA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	B 2 & 4-BOLT	B-B KEYED	25.4	1		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-KBBSB	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	B 2 & 4-BOLT	B-B KEYED	25.4	1		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-KBBKB	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	B 2 & 4-BOLT	B-B KEYED	25.4	1		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-BBXXX	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	B 2 & 4-BOLT	B-B SPLINE	25.4	1			n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-BBASA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	B 2 & 4-BOLT	B-B SPLINE	25.4	1		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-BBAKA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	B 2 & 4-BOLT	B-B SPLINE	25.4	1		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-BBABA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	B 2 & 4-BOLT	B-B SPLINE	25.4	1		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-BBBAA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	B 2 & 4-BOLT	B-B SPLINE	25.4	1		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-BBBSB	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	B 2 & 4-BOLT	B-B SPLINE	25.4	1		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-BBBKB	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	B 2 & 4-BOLT	B-B SPLINE	25.4	1		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CKXXX	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C KEYED	31.75	1.25			n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CKASA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C KEYED	31.75	1.25		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CKAKA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C KEYED	31.75	1.25		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CKABA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C KEYED	31.75	1.25		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CKBAA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C KEYED	31.75	1.25		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CKBSB	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C KEYED	31.75	1.25		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CKBKB	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C KEYED	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CSXXX	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C SPLINE	38.1	1.5			n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CSASA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C SPLINE	38.1	1.5		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CSAKA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C SPLINE	38.1	1.5		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CSABA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C SPLINE	38.1	1.5		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CSBAA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C SPLINE	38.1	1.5		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CSBSB	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C SPLINE	38.1	1.5		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CSBKB	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C SPLINE	38.1	1.5		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CKXXX	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C KEYED	31.75	1.25			n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CKASA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C KEYED	31.75	1.25		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CKAKA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C KEYED	31.75	1.25		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CKABA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C KEYED	31.75	1.25		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CKBAA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C KEYED	31.75	1.25		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CKBSB	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C KEYED	31.75	1.25		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CKBKB	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C KEYED	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CSXXX	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C SPLINE	38.1	1.5			n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CSASA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C SPLINE	38.1	1.5		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CSAKA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C SPLINE	38.1	1.5		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CSABA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C SPLINE	38.1	1.5		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CSBAA	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C SPLINE	38.1	1.5		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CSBSB	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C SPLINE	38.1	1.5		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX116-CSBKB	Axial Piston	16	1	345	5000	417	6000	1,800	3200	54.3	40.5	29.5	7.8	C 4-BOLT	C SPLINE	38.1	1.5		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes	Yes	Piston	Variable Displacement	16.0	0.98	90	1300	180	2600	1800 - 3600	3600	15.7	21	57.9	15.3	B 2-bolt	Straight	20	0.79			3.2	0.20	HP216	Parker - Pump & Motor Div.
Yes	Yes	Piston	Variable Displacement	16.0	0.98	90	1300	180	2600	1800 - 3600	3600	15.7	21	57.9	15.3	Side 2-bolt, 4-stud	Tapered	20	0.79			2.6	0.16	HP116	Parker - Pump & Motor Div.
no	yes	Axial piston	single	17	1.04	280	4060	350	5075	3600	3600	30.4 - 45.7	40.8 - 61.3	61.4 - 100.9	16.2 - 26.7	SAE B - 2 bolt	SAE 13T Round Straight Key	21.8 22.22	0.87 0.87	SAE A, SAE B, Gr. 1	SAE 9T, SAE 13T, Gr. 1 tang	10	0.61	SM P1	Bondioli & Pavesi
yes	no	gear	single	17	1.04	230	3335	280	4060	3500	3500	6.58 - 25.79	8.82 - 34.59	15.48 - 101.18	4.09 - 26.73	SAE A SAE B	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel DIN 5482 Splined SAE A 9T SAE A 11T SAE B 13T Tang Drive	16.5	0.65					HPL Group 2	Bondioli & Pavesi



Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
yes	no	gear	single	17	1.04	230	3335	280	4060	3000	3000	9.02 - 19.01	12.09 - 25.49	21.24 - 6.90	5.61 - 16.88	SAE A	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel SAE A 9T Tang Drive	12 12 15 15.85 15.45 32	0.472 0.472 0.591 0.624 0.608 1.26					HPZ Group 2	Bondiola & Pavesi
yes	no	gear	single	17	1.04	250	3625	280	4060	3000	3000	9.62 - 19.0	12.9 - 25.49	21.24 - 6.90	5.61 - 16.88	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T	12 15 15.85 15.45	0.472 0.591 0.624 0.608					HPX Group 2	Bondiola & Pavesi
yes	no	gear	single	17	1.04	250	3625	280	4060	3000	3000	7.02 - 20.84	9.41 - 27.94	15.48 - 77.41	4.09 - 20.45	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T DIN 5482 Splined	12 15 15.85 15.45 16.5	0.472 0.591 0.624 0.608 0.65					HPG Group 2	Bondiola & Pavesi
Yes	No	Fixed / bent axis	Single	17	1.04	400	5800	420	6000	2300	3000	6.9	9	39.1	10.3	SAE	Various	Various	Various	n/a	Various	n/a	n/a	K60N	HAWE Hydraulics
No	Yes	Axial piston	Variable, Single/ Tandem	17.85	1.09	210	3045	300	4351	3600	3900	27	36	64.3	16.99	A	9 teeth 16/32, 11 teeth 16/32, Keyed shaft	15.9, 19, 15.875, 18	0.63, 0.75, .624, .71	German Group	-	4.9	0.3	PMV0	Poclain Hydraulics
yes	no	Axial piston	single	18	1	250	3625	315	4568	3300	3300	14.7 - 24.1	19.7 - 32.4	33.0 - 54.1	8.7 - 14.3	SAE A - 2 bolt	Round Straight key	22.22	0.87	SAE A, Gr. 1	SAE 9T, Gr. 1 tang			SM A1	Bondiola & Pavesi
no	yes	Axial piston	single	18	1.1	180	2610	230	3335	3600	3600	8.3 - 21.1	11.1 - 28.4	25.4 - 64.7	6.7 - 17.1	SAE A - 2 bolt	SAE 9T, SAE 11T, Round Straight Key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PL	Bondiola & Pavesi
no	yes	Axial piston	single	18	1.1	280	4060	320	4640	3600	3600	12.6 - 29.4	16.9 - 39.4	25.4 - 64.8	6.7 - 17.2	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	6	0.36	SM P0	Bondiola & Pavesi
no	yes	Axial piston	single	18	1.1	280	4060	320	4640	3600	3600	12.6 - 31.0	16.9 - 41.6	25.4 - 68.4	6.7 - 18.1	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PZ	Bondiola & Pavesi
yes	no	Axial Piston	single	18	1.1	280	4000	350	5100	3300	3900	28	40	32	7.2	2 bolt	n/a	n/a	n/a	n/a	keyed and splined	n/a	n/a	(A)A10VSO series 31	Bosch Rexroth
no	yes	Axial Piston	single	18	1.1	300	4350	350	5100	4000	5200	36	48.3	72	19	2 bolt	n/a	n/a	n/a	n/a	splined	5.5	0.34	AA10VG series 1	Bosch Rexroth
yes	no		Variable	18	1.10	280	4060	350	5075	3600	3600	30.2	41.1	64.8	17.1	2-Bolt A	SAE-AH or SAE-A			Yes	SAE-AH or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
yes	no		Variable	18	1.10	280	4060	350	5075	3600	3600	30.2	41.1	64.8	17.1	2-Bolt A	SAE-AH or SAE-A			Yes	SAE-AH or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
yes	no		Variable	18	1.10	280	4060	350	5075	3600	3600	30.2	41.1	64.8	17.1	2-Bolt A	SAE-AH or SAE-A			Yes	SAE-AH or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
yes	no	Axial Piston	single	18 - 35	1.1-2.14	250	3626	280	4061	3300-3000	3300-3000	25-44	34-59	59-105	13-23	2 bolt	n/a	n/a	n/a	n/a	splined	n/a	n/a	A1VO series 10	Bosch Rexroth
no	yes	Axial piston	single	19	1.16	280	4060	320	4640	3600	3600	12.6 - 31.0	16.9 - 41.6	25.4 - 68.4	6.7 - 18.1	SAE A - 2 bolt	SAE 9T, SAE 11T, SAE 13T, Round Straight key	15.4 18.5 21.8 15.85 22.22	0.60 0.73 0.87 0.62 0.87	SAE A, Gr. 1, Gr. 2	SAE 9T, Gr. 1 tang, Gr. 2 tang	5	0.30	SM PZ	Bondiola & Pavesi
no	yes	Axial piston	single	19	1.16	280	4060	350	5075	3600	3600	30.4 - 45.7	40.8 - 61.3	61.4 - 100.9	16.2 - 26.7	SAE B - 2 bolt	SAE 13T Round Straight Key	21.8 22.22	0.87 0.87	SAE A, SAE B, Gr. 1	SAE 9T, SAE 13T, Gr. 1 tang	10	0.61	SM P1	Bondiola & Pavesi
no	yes	Axial piston	single	19	1.16	250	3625	350	5075	3600	3600	27.62 - 36.39	37.04 - 48.8	55.7 - 73.4	14.7 - 19.4	SAE A - 2 bolt SAE B - 2 bolt	SAE 9T SAE 11T SAE 13T	15.4 18.5 21.8	0.60 0.73 0.87	SAE A, Gr. 1	SAE 9T, Gr. 1 tang	6	0.36	HP P2	Bondiola & Pavesi
yes	no	Fixed Gear Pump	External	19.1	1.166	300	4300	320	4600	500	3500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP250	Bucher Hydraulics, Inc.
yes	no	Fixed Gear Pump	External	19.2	1.172	210	3000	260	3700	500	3000	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt A, 2-Bolt B	9T 16/32 Spline; 5/8" Keyed; 1:8 Tapered	16	0.625	N/A	N/A	N/A	N/A	AP212	Bucher Hydraulics, Inc.

Open Loop	Closed Loop	Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
				cm³/rev	in³/rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm³/rev	in³/rev		
yes	no	gear	single	19.5	1.19	200	2900	250	3625	3500	3500	6.58 - 25.79	8.82 - 34.59	15.48 - 101.18	4.09 - 26.73	SAE A SAE B	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel DIN 5482 Splined SAE A 9T SAE A 11T SAE B 13T Tang Drive	15.45	0.608					HPL Group 2	Bondiola & Pavesi
yes	no	gear	single	19.5	1.19	210	3045	250	3625	3000	3000	7.02 - 20.84	9.41 - 27.94	15.48 - 77.41	4.09 - 20.45	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T DIN 5482 Splined	12 15 15.85 15.45 16.5	0.472 0.591 0.624 0.608 0.65					HPG Group 2	Bondiola & Pavesi
yes	no	Axial piston	single	20	1.22	280	4060	350	5075	3300	3300	32.7 - 62.2	43.9 - 83.4	66.0 - 125.5	17.4 - 33.1	SAE B - 2 bolt	SAE 13T, SAE 15T, Round Straight Key	21.8, 25, 22.22	0.87, 0.98, 0.87	SAE A, SAE B	SAE 9T, SAE 13T			SM A2	Bondiola & Pavesi
No	Yes	Axial piston	Variable displacement	20	1.22	300	4350	345	5000	4000	4500	57.5	77.08	80	21.1	2-bolt B	13T, Keyed	22	0.875	SAE A	9T,11T	3.1-7.5	0.189-0.458	DDC 20	Daikin-Sauer-Danfoss
No	Yes	Axial piston	Single	20.32	1.24	350	5076	380	5500	NA	3600	42	56	73.2	19.3	2-Bolt-A	SAE-9T, 13T, 15T, 35T, Straight, Tapered	19.05, 22.2	0.75, 0.875	2-Bolt A	SAE-9T, 11T, 35T	6.9, 10.3, 13.8	0.42, 0.63, 0.84	70160	Eaton
No	Yes	Axial piston	Variable, Single/ Tandem	20.4	1.24	210	3045	350	5076	3600	3600	31	42	73	19.28	A, B	9 teeth 16/32, 11 teeth 16/32, 13 teeth 16/32	16.4, 19.05, 20	.65, .75, .79	A, German Group	-	4.9, 7, 9	.3, .43, .55	PM10	Poclain Hydraulics
Yes	No	Fixed Gear	Single/Tandem/ Multiple	20.8	1.27	241	3500	241	3500	3600	3600	Consult Factory	Consult Factory	73.8	19.5	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	C	Geartek
Yes	No	Fixed Gear	Internal Relief	20.8	1.27	241	3500	241	3500	3600	3600	Consult Factory	Consult Factory	73.8	19.5	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	CX	Geartek
yes		HPVR-10	axial piston	20.9	1.28	280	4000	320	4500	1750	3000	19	25	36.6	9.67	"B" 2-Bolt	J744 (Jul 88)	22.23	0.875	"A", "B", "A-B" Flange					Continental Hydraulics
yes		HPVR-10	axial piston	20.9	1.28	280	4000	320	4500	1750	3000	19	25	36.6	9.67	"B" 2-Bolt (Splined)	J744 (Jul 88)	20.638 Pitch Dia. 13T, 12/24 Pitch	.8125 Pitch Dia. 13T, 12/24 Pitch	"A", "B", "A-B" Flange					Continental Hydraulics
no	yes	Axial piston	single	21	1.28	280	4060	350	5075	3600	3600	30.4 - 45.7	40.8 - 61.3	61.4 - 100.9	16.2 - 26.7	SAE B - 2 bolt	SAE 13T Round Straight Key	21.8 22.22	0.87 0.87	SAE A, SAE B, Gr. 1	SAE 9T, SAE 13T, Gr. 1 tang	10	0.61	SM P1	Bondiola & Pavesi
no	yes	Axial piston	single	21	1.28	250	3625	350	5075	3600	3600	37.4 - 62.4	50.2 - 83.7	75.5 - 126.0	20.0 - 33.3	SAE B - 2 bolt	SAE 11T SAE 13T SAE 15T Round Straight key	19 22 25 22.22 25.4	0.75 0.87 0.98 0.87 1	SAE A, SAE B	SAE 9T, SAE 13T	9	0.55	M4 PV	Bondiola & Pavesi
yes	no	gear	single	21.3	1.3	200	2900	250	3625	3000	3000	9.02 - 19.01	12.09 - 25.49	21.24 - 6.90	5.61 - 16.88	SAE A	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel SAE A 9T Tang Drive	12 12 15 15.85 15.45 32	0.472 0.472 0.591 0.624 0.608 1.26					HPZ Group 2	Bondiola & Pavesi
yes	no	gear	single	21.3	1.3	210	3045	250	3625	3000	3000	9.62 - 19.0	12.9 - 25.49	21.24 - 6.90	5.61 - 16.88	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T	12 15 15.85 15.45	0.472 0.591 0.624 0.608					HPX Group 2	Bondiola & Pavesi
yes	no	gear	single	21.5	1.31	220	3190	310	4495	3000	3000	28.28 - 52.97	37.92 - 71.03	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.806	0.98 0.55 0.787 0.874 0.846 0.859					HPL Group 3	Bondiola & Pavesi
yes	no	gear	single	21.5	1.31	280	4060	310	4495	3000	3000	28.28 - 62.32	37.92 - 83.57	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.81	0.98 0.55 0.787 0.874 0.846 0.86					HPG Group 3	Bondiola & Pavesi
No	Yes	Axial piston	Single	21.60	1.32	350	5076	380	5500	NA	3600	45	61	77.8	20.5	2-Bolt-A	SAE-9T, 13T, 15T, 35T, Straight, Tapered	19.05, 22.2	0.75, 0.875	2-Bolt A	SAE-9T, 11T, 35T	6.9, 10.3, 13.8	0.42, 0.63, 0.84	70160	Eaton
no	yes	Axial piston	single	22	1.34	280	4060	350	5075	3600	3600	30.4 - 45.7	40.8 - 61.3	61.4 - 100.9	16.2 - 26.7	SAE B - 2 bolt	SAE 13T Round Straight Key	21.8 22.22	0.87 0.87	SAE A, SAE B, Gr. 1	SAE 9T, SAE 13T, Gr. 1 tang	10	0.61	SM P1	Bondiola & Pavesi
yes	no	Fixed Gear Pump	External	22.2	1.355	180	2600	230	3300	500	3000	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt A, 2-Bolt B	9T 16/32 Spline; 5/8" Keyed; 1:8 Tapered	16	0.625	N/A	N/A	N/A	N/A	AP212	Bucher Hydraulics, Inc.
yes	no	Fixed Gear Pump	External	22.2	1.355	220	3150	260	3700	500	3000	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt A, 2-Bolt B	9T 16/32 Spline; 5/8" Keyed; 1:8 Tapered	16	0.625	N/A	N/A	N/A	N/A	AP212	Bucher Hydraulics, Inc.



Operation	Open Loop	Closed Loop	Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
					cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
yes	no		Axial piston	single	23	1.4	280	4060	350	5075	3300	3300	32.7 - 62.2	43.9 - 83.4	66.0 - 125.5	17.4 - 33.1	SAE B - 2 bolt	SAE 13T, SAE 15T, Round Straight Key	21.8, 25, 22.22	0.87, 0.98, 0.87	SAE A, SAE B	SAE 9T, SAE 13T			SM A2	Bondiola & Pavesi
no	yes		Axial piston	single	23	1.4	280	4060	350	5075	3600	3600	30.4 - 45.7	40.8 - 61.3	61.4 - 100.9	16.2 - 26.7	SAE B - 2 bolt	SAE 13T Round Straight Key	21.8 22.22	0.87 0.87	SAE A, SAE B, Gr. 1	SAE 9T, SAE 13T, Gr. 1 tang	10	0.61	SM P1	Bondiola & Pavesi
no	yes		Axial piston	single	23	1.4	250	3625	350	5075	3200	3200	27.62 - 36.39	37.04 - 48.8	55.7 - 73.4	14.7 - 19.4	SAE A - 2 bolt SAE B - 2 bolt	SAE 9T SAE 11T SAE 13T	15.4 18.5 21.8	0.60 0.73 0.87	SAE A, Gr. 1	SAE 9T, Gr. 1 tang	6	0.36	HP P2	Bondiola & Pavesi
yes	no		Fixed Gear Pump	External	23	1.403	300	4300	320	4600	500	3500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP250	Bucher Hydraulics, Inc.
No	Yes		Axial piston	Single	23.60	1.44	350	5076	350	5500	NA	3600	49	65	85.0	22.4	2-Bolt-A	SAE-9T, 13T, 15T, 35T, Straight, Tapered	19.05, 22.3	0.75, 0.876	2 Bolt A	SAE-9T, 11T, 35T	6.9, 10.3, 13.8	0.42, 0.63, 0.84	70160	Eaton
yes	no		T7AS	Fixed Vane	24.9	1.52	275	3987.5	300	4350	3600	3600	41.1	55.9	89.64	23.6	2-Bolt A	SAE-A or SAE-B			See T6*R pumps	See T6*R pumps	N/A	N/A	T7 Series	Parker - Pump & Power Div.
yes	no		T7AS	Fixed Vane	24.9	1.52	275	3987.5	300	4350	3600	3600	41.1	55.9	89.64	23.6	2-Bolt A	SAE-A or SAE-B			See T6*R pumps	See T6*R pumps	N/A	N/A	T7 Series	Parker - Pump & Power Div.
yes	no		Axial piston	single	25	1.52	280	4060	350	5075	3300	3300	32.7 - 62.2	43.9 - 83.4	66.0 - 125.5	17.4 - 33.1	SAE B - 2 bolt	SAE 13T, SAE 15T, Round Straight Key	21.8, 25, 22.22	0.87, 0.98, 0.87	SAE A, SAE B	SAE 9T, SAE 13T			SM A2	Bondiola & Pavesi
no	yes		Axial piston	single	25	1.53	280	4060	350	5075	3600	3600	30.4 - 45.7	40.8 - 61.3	61.4 - 100.9	16.2 - 26.7	SAE B - 2 bolt	SAE 13T Round Straight Key	21.8 22.22	0.87 0.87	SAE A, SAE B, Gr. 1	SAE 9T, SAE 13T, Gr. 1 tang	10	0.61	SM P1	Bondiola & Pavesi
Yes	No		Axial Piston	Variable displacement	25	1.53	260	3770	350	5075	3200	3600	43.33	58.11	80	21	2-Bolt B	13T, 15T, Keyed, Tapered	Spline: 22, 25- Keyed: 22.2-Tapered: 25.4	Spline: .85, 1.0- Keyed: .875- Tapered: 1	SAE A,B,BB	9T,11T,13T,15T	N/A	N/A	Series 45	Danfoss
No	Yes		Axial piston	Variable displacement	25	1.53	210	3045	345	5000	3400	3950	63.09	84.61	22.5	85.2	2-bolt B	13T,15T	20, 22,	.80, .875,	SAE A	9T,11T	N/A	N/A	LPV	Danfoss
Yes	No		Axial Piston	Variable displacement	25 - 147	1.53- 8.97	210- 310	3045- 4495	300-400	4350- 5800	2100-3200	2475-3600	47.1-211.8	63.2-284	80-389	21-81.6	2-Bolt B, 2-Bolt C, 4-Bolt C	13T, 14T, 15T, 17T, Keyed, Tapered	Spline: 22, 25, 32, 38, 44 - Keyed: 22.2, 31.72, 35.19, 38.08	Spline: 0.875, 1.0, 1.25, 1.5, 1.75 - Keyed: 0.875, 1.25, 1.385, 1.5	SAE A, B	9T,11T,13T, 14T, 15T	N/A	N/A	Series 45	Danfoss
Yes	No		Fixed / bent axis	Single	25.4	1.55	400	5800	420	6000	2300	3000	7.4	10	58.4	15.5	SAE	Various	Various	Various	n/a	Various	n/a	n/a	K60N	HAWE Hydraulics
yes	no		gear	single	25.6	1.56	180	2610	210	3045	2500	2500	9.02 - 19.01	12.09 - 25.49	21.24 - 6.90	5.61 - 16.88	SAE A	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel SAE A 9T Tang Drive	12 12 15 15.85 15.45 32	0.472 0.472 0.591 0.624 0.608 1.26					HPZ Group 2	Bondiola & Pavesi
yes	no		gear	single	25.6	1.56	180	2610	210	3045	2500	2500	9.62 - 19.0	12.9 - 25.49	21.24 - 6.90	5.61 - 16.88	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T	12 15 15.85 15.45	0.472 0.591 0.624 0.608					HPX Group 2	Bondiola & Pavesi
yes	no		F1-25	Fixed Bent Axis	25.6	1.56	350	5075	400	5800	2600	2700	39	52	67	18	4 bolt SAE B	22-4 SAE B			no	N/A	N/A	N/A	F1	Parker - Pump & Power Div.
yes	no		gear	single	26	1.59	180	2610	210	3045	3000	3000	6.58 - 25.79	8.82 - 34.59	15.48 - 101.18	4.09 - 26.73	SAE A SAE B	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel DIN 5482 Splined SAE A 9T SAE A 11T SAE B 13T Tang Drive	18.631	0.73					HPL Group 2	Bondiola & Pavesi
yes	no		gear	single	26	1.59	210	3045	300	4350	3000	3000	28.28 - 52.97	37.92 - 71.03	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.806	0.98 0.55 0.787 0.874 0.846 0.859					HPL Group 3	Bondiola & Pavesi
yes	no		gear	single	26	1.59	180	2610	210	3045	2500	2500	7.02 - 20.84	9.41 - 27.94	15.48 - 77.41	4.09 - 20.45	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T DIN 5482 Splined	12 15 15.85 15.45 16.5	0.472 0.591 0.624 0.608 0.65					HPG Group 2	Bondiola & Pavesi
yes	no		gear	single	26	1.59	280	460	310	4495	3000	3000	28.28 - 62.32	37.92 - 83.57	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.81	0.98 0.55 0.787 0.874 0.846 0.86					HPG Group 3	Bondiola & Pavesi
yes	no		Fixed Gear Pump	External	26.2	1.599	170	2500	220	3150	500	2800	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt A, 2-Bolt B	9T 16/32 Spline; 5/8" Keyed; 1:8 Tapered	16	0.625	N/A	N/A	N/A	N/A	AP212	Bucher Hydraulics, Inc.

Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
yes	no	Fixed Gear Pump	External	26.2	1.599	200	2850	250	3600	500	2800	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt A, 2-Bolt B	9T 16/32 Spline; 5/8" Keyed; 1:8 Tapered	16	0.625	N/A	N/A	N/A	N/A	AP212	Bucher Hydraulics, Inc.
yes	no	Fixed Gear Pump	External	26.4	1.611	300	4300	320	4600	500	3500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP250	Bucher Hydraulics, Inc.
yes	no	Fixed Gear Pump	External	27	1.674	220	3150	250	3600	600	3000	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP300	Bucher Hydraulics, Inc.
Yes	No	Fixed Gear	Single/Tandem/Multiple	27.2	1.66	241	3500	241	3500	3400	3400	Consult Factory	Consult Factory	90.8	24	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	C	Geartek
Yes	No	Fixed Gear	Internal Relief	27.2	1.66	241	3500	241	3500	3400	3400	Consult Factory	Consult Factory	90.8	24	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	CX	Geartek
yes	no	Axial piston	single	28	1.71	280	4060	350	5075	3300	3300	32.7 - 62.2	43.9 - 83.4	66.0 - 125.5	17.4 - 33.1	SAE B - 2 bolt	SAE 13T, SAE 15T, Round Straight Key	21.8, 25, 22.22	0.87, 0.98, 0.87	SAE A, SAE B	SAE 9T, SAE 13T			SM A2	Bondiola & Pavesi
yes	no	Axial piston	single	28	1.71	280	4060	350	5075	3400	3400	47.2 - 59.7	63.3 - 80.1	95.3 - 131.8	25.2 - 34.8	SAE B - 2 bolt	SAE 13T	21.8	0.87	SAE A, SAE B	SAE 9T, SAE 13T			HP A3	Bondiola & Pavesi
no	yes	Axial piston	single	28	1.71	280	4060	320	4640	3600	3600	30.4 - 45.7	40.8 - 61.3	61.4 - 100.9	16.2 - 26.7	SAE B - 2 bolt	SAE 13T Round Straight Key	21.8 22.22	0.87 0.87	SAE A, SAE B, Gr. 1	SAE 9T, SAE 13T, Gr. 1 tang	10	0.61	SM P1	Bondiola & Pavesi
no	yes	Axial piston	single	28	1.71	250	3625	350	5075	3600	3600	37.4 - 62.4	50.2 - 83.7	75.5 - 126.0	20.0 - 33.3	SAE B - 2 bolt	SAE 11T SAE 13T SAE 15T Round Straight key	19 22 25 22.22 25.4	0.75 0.87 0.98 0.87 1	SAE A, SAE B	SAE 9T, SAE 13T	9	0.55	M4 PV	Bondiola & Pavesi
yes	no	Axial Piston	single	28	1.71	280	4000	350	5100	3000	3600	39	51	59	13.3	2 bolt	n/a	n/a	n/a	n/a	keyed and splined	n/a	n/a	(A)A10VSO series 31	Bosch Rexroth
no	yes	Axial Piston	single	28	1.71	400	5800	450	6500	4250	4250	79	106	119	31.5	2&4 bolt	n/a	n/a	n/a	n/a	splined	6.1	0.37	AA4VG series 32	Bosch Rexroth
no	yes	Axial Piston	single	28	1.71	300	4350	350	5100	3900	4500	54.6	73.2	109	28.8	2 bolt	n/a	n/a	n/a	n/a	splined	6.1	0.37	AA10VG series 1	Bosch Rexroth
Yes	No	Axial Piston	Single	28	1.71	320	4600	350	5075	3000	3600	44.4	59.6	84.0	22.2	SAE	SAE			yes	SAE	n/a	n/a	K3VL	Kawasaki
yes	no		Variable	28	1.71	280	4060	350	5075	3400	3400	44.4	60.4	95.2	25.1	2-Bolt B	SAE-BB or SAE-B			Yes	SAE-BB or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
yes	no		Variable	28	1.71	280	4060	350	5075	3400	3400	44.4	60.4	95.2	25.1	2-Bolt B	SAE-BB or SAE-B			Yes	SAE-BB or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
yes	no		Variable	28	1.71	280	4060	350	5075	3400	3400	44.4	60.4	95.2	25.1	2-Bolt B	SAE-BB or SAE-B			Yes	SAE-BB or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
No	Yes	Axial piston	Variable, Single/ Tandem	28	1.71	250	3625	350	5076	3600	3600	42	57	100.8	26.63	B	13 teeth 16/32, 15 teeth 16/32, Keyed shaft	22.22	0.87	A, German Group	-	9.1, 12	.55, .73	PM25	Poclain Hydraulics
Yes	No	Axial piston	Single	28.20	1.71	280	4061	350	5076	3000	3600 max. standby	39.2	52.6	84.6	22.3	2-Bolt B	SAE -13T, 15T, Straight -ø	22.2, 25.4	0.88, 1.0	2 Bolt A, B	9T, 11T, 13T, 15T	NA	NA	220	Eaton
yes	no	Fixed Gear Pump	External	29.3	1.788	300	4300	320	4600	500	3500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP250	Bucher Hydraulics, Inc.
Yes	No	Axial Piston	Variable displacement	30	1.83	210	3045	300	4350	3200	3600	60	80.46	96	25.4	2-Bolt B	13T, 15T, Keyed, Tapered	Spline: 22, 25- Keyed: 22.2-Tappered: 25.4	Spline:.85,1.0- Keyed: .875- Tappered:1	SAE A,B,BB	9T,11T,13T,15T	N/A	N/A	Series 45	Danfoss
No	Yes	Axial piston	Variable displacement	30	1.83	175	2540	345	5000	3500	4150	79.54	106.67	27.7	104.9	2-bolt B	13T,15T	20, 22,	.80, .875,	SAE A	9T,11T	N/A	N/A	LPV	Danfoss
yes	no	gear	single	30.5	1.86	210	3045	280	4060	3000	3000	28.28 - 52.97	37.92 - 71.03	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.806	0.98 0.55 0.787 0.874 0.846 0.859					HPL Group 3	Bondiola & Pavesi
yes	no	gear	single	30.5	1.86	260	3770	300	4350	3000	3000	28.28 - 62.32	37.92 - 83.57	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.81	0.98 0.55 0.787 0.874 0.846 0.86					HPG Group 3	Bondiola & Pavesi
yes	no	gear	single	31	1.89	150	2175	190	2755	2500	2500	7.02 - 20.84	9.41 - 27.94	15.48 - 77.41	4.09 - 20.45	SAE A	Tapered (1:8) D15 European Parallel SAE A Parallel SAE A 9T DIN 5482 Splined	12 15 15.85 15.45 16.5	0.472 0.591 0.624 0.608 0.65					HPG Group 2	Bondiola & Pavesi



Open Loop	Closed Loop	Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
				cm³/rev	in³/rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm³/rev	in³/rev		
yes	no	Fixed Gear Pump	External	31	1.891	220	3150	250	3600	600	3000	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP300	Bucher Hydraulics, Inc.
yes	no	Axial piston	single	32	1.95	280	4060	350	5075	3300	3300	32.7 - 62.2	43.9 - 83.4	66.0 - 125.5	17.4 - 33.1	SAE B - 2 bolt	SAE 13T, SAE 15T, Round Straight Key	21.8, 25, 22.22	0.87, 0.98, 0.87	SAE A, SAE B	SAE 9T, SAE 13T			SM A2	Bondoli & Pavesi
Yes		PVX232-BKXXX	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B KEYED	22.225	0.875			n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BKASA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B KEYED	22.225	0.875		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BKAKA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B KEYED	22.225	0.875		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BKABA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B KEYED	22.225	0.875		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BKBAA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B KEYED	22.225	0.875		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BKBBSB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B KEYED	22.225	0.875		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BKBKBB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B KEYED	22.225	0.875		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BSXXX	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B SPLINE	22.225	0.875			n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BSASA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BSAKA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BSABA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BSBAA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BSBSB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B SPLINE	22.225	0.875		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BBBKBB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B SPLINE	22.225	0.875		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BKXXX	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B KEYED	22.225	0.875			n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BKASA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B KEYED	22.225	0.875		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BKAKA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B KEYED	22.225	0.875		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BKABA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B KEYED	22.225	0.875		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BKBAA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B KEYED	22.225	0.875		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BKBBSB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B KEYED	22.225	0.875		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BKBKBB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B KEYED	22.225	0.875		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BSXXX	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B SPLINE	22.225	0.875			n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BSASA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BSAKA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BSABA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BSBAA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BSBSB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B SPLINE	22.225	0.875		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BBBKBB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B SPLINE	22.225	0.875		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-KBXXX	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B KEYED	25.4	1			n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-KBASA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B KEYED	25.4	1		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-KBAKA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B KEYED	25.4	1		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-KBABA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B KEYED	25.4	1		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-KBBAA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B KEYED	25.4	1		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-KBBBSB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B KEYED	25.4	1		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-KBBKBB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B KEYED	25.4	1		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BBXXX	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B SPLINE	25.4	1			n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BBASA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B SPLINE	25.4	1		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BBAKA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B SPLINE	25.4	1		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BBABAA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B SPLINE	25.4	1		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BBBAAA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B SPLINE	25.4	1		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BBBBSB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B SPLINE	25.4	1		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BBBKBB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B SPLINE	25.4	1		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-KBXXX	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B KEYED	25.4	1			n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-KBASA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B KEYED	25.4	1		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-KBAKA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B KEYED	25.4	1		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-KBABA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B KEYED	25.4	1		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-KBBAA	Axial Piston	32	2	310	4500	379	5500	1,800	320														

Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
Yes		PVX232-BBXXX	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B SPLINE	25.4	1			n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BBASA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B SPLINE	25.4	1		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BBAKA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B SPLINE	25.4	1		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BBABA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B SPLINE	25.4	1		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BBBAA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B SPLINE	25.4	1		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BBBSB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B SPLINE	25.4	1		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-BBBKB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	B 2 & 4-BOLT	B-B SPLINE	25.4	1		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CKXXX	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C KEYED	31.75	1.25			n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CKASA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C KEYED	31.75	1.25		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CKAKA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C KEYED	31.75	1.25		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CKABA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C KEYED	31.75	1.25		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CKBAA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C KEYED	31.75	1.25		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CKBSB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C KEYED	31.75	1.25		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CKBKB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C KEYED	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CSXXX	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C SPLINE	31.75	1.25			n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CSASA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C SPLINE	31.75	1.25		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CSAKA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C SPLINE	31.75	1.25		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CSABA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C SPLINE	31.75	1.25		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CSBAA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C SPLINE	31.75	1.25		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CSBSB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C SPLINE	31.75	1.25		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CSBKB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C SPLINE	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CKXXX	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C KEYED	31.75	1.25			n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CKASA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C KEYED	31.75	1.25		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CKAKA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C KEYED	31.75	1.25		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CKABA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C KEYED	31.75	1.25		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CKBAA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C KEYED	31.75	1.25		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CKBSB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C KEYED	31.75	1.25		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CKBKB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C KEYED	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CSXXX	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C SPLINE	31.75	1.25			n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CSASA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C SPLINE	31.75	1.25		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CSAKA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C SPLINE	31.75	1.25		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CSABA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C SPLINE	31.75	1.25		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CSBAA	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C SPLINE	31.75	1.25		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CSBSB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C SPLINE	31.75	1.25		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX232-CSBKB	Axial Piston	32	2	310	4500	379	5500	1,800	3200	97.6	72.8	59	15.6	C 4-BOLT	C SPLINE	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes	No	Radial piston	Fixed displacement	32	1.95	350	5076	450	6527	2100	2400	57.5	77.5	77	20.34	-	Keyed shaft	40	1.57	-	-	-	-	PL1H	Poclair Hydraulics
Yes	No	Radial piston	Fixed displacement	2 X 32	2 X 1.95	350	5076	450	6527	2100	2400	115	155	2x77	2x20.34	-	Keyed shaft	40	1.57	-	-	-	-	PL2H	Poclair Hydraulics
Yes	No	Fixed Gear	Single/Tandem/ Multiple	32.1	1.96	241	3500	241	3500	3300	3300	Consult Factory	Consult Factory	104.1	27.5	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	C	Geartek
Yes	No	Fixed Gear	Internal Relief	32.1	1.96	241	3500	241	3500	3300	3300	Consult Factory	Consult Factory	104.1	27.5	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	CX	Geartek
yes	no	Fixed Gear Pump	External	33.2	2.026	300	4300	320	4600	500	3500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP250	Bucher Hydraulics, Inc.
yes	no	Axial piston	single	34	2.07	280	4060	350	5075	3300	3300	32.7 - 62.2	43.9 - 83.4	66.0 - 125.5	17.4 - 33.1	SAE B - 2 bolt	SAE 13T, SAE 15T, Round Straight Key	21.8, 25, 22.22	0.87, 0.98, 0.87	SAE A, SAE B	SAE 9T, SAE 13T			SM A2	Bondiolì & Pavesi
no	yes	Axial piston	single	34	2.07	300	4350	400	5800	3800	3800	73.0 - 116.1	97.9 - 155.7	128.9 - 234.2	34.1 - 61.9	SAE B - 2 bolt	SAE 13T SAE 15T Round Straight Key	22	0.87	SAE A, SAE B	SAE 9T, SAE 13T	14	0.86	M4 PV	Bondiolì & Pavesi
no	yes	Axial piston	single	34	2.07	300	4350	400	5800	3800	3800	73.0 - 116.1	97.9 - 155.7	128.9 - 234.2	34.1 - 61.9	SAE B - 2 bolt	SAE 13T	22	0.87	SAE A, SAE B	SAE 9T, SAE 13T	14	0.86	HP P4	Bondiolì & Pavesi

Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company	
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev			
yes	no	gear	single	34	2.07	160	2320	190	2755	3000	3000	6.58 - 25.79	8.82 - 34.59	15.48 - 101.18	4.09 - 26.73	SAE A SAE B	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel DIN 5482 Splined SAE A 9T SAE A 11T SAE B 13T Tang Drive	22	0.858					HPL Group 2	Bondoli & Pavesi	
yes	no	Axial piston	single	34	2.07	280	4060	350	5075	2800	2800	47.1 - 73.7	63.1 - 98.9	95.0 - 162.7	25.1 - 43.0	SAE B - 2 bolt	SAE 13T	21.8	0.87	SAE A, SAE B	SAE 9T, SAE 13T			HP A4	Bondoli & Pavesi	
Yes	No	Fixed / bent axis	Single	34.2	2.09	400	5800	420	6000	2300	3000	7.4	10	78.7	20.8	SAE	Various	Various	Various	n/a	Various	n/a	n/a	K60N	HAWE Hydraulics	
No	Yes	Axial piston	Variable displacement	35	2.14	380	5000-5511	415	6019	3300-4000	4100-5000	134.49	130.758	126	33.4	2-bolt B	13T, 15T, Tapered, Keyed	20, 22, 25	.80, .875, 1.0	SAE A, B	9T,11T,13T	11.8-16.4	0.72-1.00	S40 PV	Danfoss	
No	Yes	Axial piston	Variable displacement	35	2.14	140	2030	345	5000	3600	4300	96.15	128.94	36.2	137	2-bolt B	13T,15T	20, 22,	.80, .875,	SAE A	9T,11T	N/A	N/A	LPV	Danfoss	
No	Yes	Axial piston	Single	35.10	2.1	350	5076	380	5500	NA	3600	74	99	126.4	33.4	2-Bolt-B	SAE-13T, 15T, 41T, Straight- ø 22.22 (0.875), 25.4 (1.0), Tapered	22.22, 25.4	0.875, 1.0	2-Bolt A, B	SAE-9T, 11T, 13T, 41T	6.9, 13.8, 17.2, 20.7	0.42, 0.84, 1.05, 1.26	70360	Eaton	
yes		HPVR-15	axial piston	35.3	2.15	280	4000	320	4500	1750	3000	32	43	61.7	16.30	"B" 2-Bolt	J744 (Jul 88)	22.23	0.875	"A", "B", "A-B" Flange						Continental Hydraulics
yes		HPVR-15	axial piston	35.3	2.15	280	4000	320	4500	1750	3000	32	43	61.7	16.30	"B" 2-Bolt (Splined)	J744 (Jul 88)	20.638 Pitch Dia. 13T, 16/32 Pitch	.8125 Pitch Dia. 13T, 16/32 Pitch	"A", "B", "A-B" Flange						Continental Hydraulics
yes	no	gear	single	36	2.2	210	3045	280	4060	3000	3000	28.28 - 52.97	37.92 - 71.03	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.806	0.98 0.55 0.787 0.874 0.846 0.859					HPL Group 3	Bondoli & Pavesi	
yes	no	gear	single	36	2.2	260	3770	300	4350	3000	3000	28.28 - 62.32	37.92 - 83.57	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.81	0.98 0.55 0.787 0.874 0.846 0.86					HPG Group 3	Bondoli & Pavesi	
yes	no	Fixed Gear Pump	External	36.1	2.203	300	4300	320	4600	500	3500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP250	Bucher Hydraulics, Inc.	
Yes	No	Fixed Gear	Single/Tandem/Multiple	36.7	2.24	207	3000	207	3000	3100	3100	Consult Factory	Consult Factory	112.4	29.7	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	C	Geartek	
Yes	No	Fixed Gear	Internal Relief	36.7	2.24	207	3000	207	3000	3100	3100	Consult Factory	Consult Factory	112.4	29.7	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	CX	Geartek	
yes	no	Axial piston	single	37	2.26	250	3625	320	4640	3200	3200	47.2 - 59.7	63.3 - 80.1	95.3 - 131.8	25.2 - 34.8	SAE B - 2 bolt	SAE 15T	25	0.98	SAE A, SAE B	SAE 9T, SAE 13T			HP A3	Bondoli & Pavesi	
no	yes	Axial piston	single	37	2.26	250	3625	350	5075	3400	3400	37.4 - 62.4	50.2 - 83.7	75.5 - 126.0	20.0 - 33.3	SAE B - 2 bolt	SAE 11T SAE 13T SAE 15T Round Straight key	19 22 25 22.22 25.4	0.75 0.87 0.98 0.87 1	SAE A, SAE B	SAE 9T, SAE 13T	12	0.74	M4 PV	Bondoli & Pavesi	
Yes	No	Radial piston	Fixed displacement	3 X 37	3 X 2.26	350	5076	450	6527	2100	2400	200	269	3x89	3x23.51	-	Keyed shaft	40	1.57	-	-	-	-	PL3H	Poclain Hydraulics	
yes	no	Axial piston	single	38	2.32	280	4060	350	5075	3300	3300	32.7 - 62.2	43.9 - 83.4	66.0 - 125.5	17.4 - 33.1	SAE B - 2 bolt	SAE 13T, SAE 15T, Round Straight Key	21.8, 25, 22.22	0.87, 0.98, 0.87	SAE A, SAE B	SAE 9T, SAE 13T			SM A2	Bondoli & Pavesi	
yes	no	Fixed Gear Pump	External	38	2.318	220	3150	250	3600	600	2500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP300	Bucher Hydraulics, Inc.	
Yes	No	Axial Piston	Variable displacement	38	2.32	260	3770	350	5075	2650	2800	68.96	92.48	100.7	26.6	2-Bolt B	13T, 15T, Keyed, Tapered	Spline: 22, 25- Keyed: 22.2-Tapered: 25.4	Spline:.85,1.0- Keyed: .875- Tapered:1	SAE A,B,BB	9T,11T,13T,15T	N/A	N/A	Series 45	Danfoss	
no	yes	Axial Piston	single	40	2.44	400	5800	450	6500	4000	4000	107	144	160	42.3	2&4 bolt	n/a	n/a	n/a	n/a	splined	8.6	0.52	AA4VG series 32	Bosch Rexroth	
yes	no	gear	single	40.5	2.47	140	2030	180	2610	2500	2500	6.58 - 25.79	8.82 - 34.59	15.48 - 101.18	4.09 - 26.73	SAE A SAE B	Tapered (1:8) Tapered (1:5) D15 European Parallel SAE A Parallel DIN 5482 Splined SAE A 9T SAE A 11T SAE B 13T Tang Drive	32	1.26					HPL Group 2	Bondoli & Pavesi	



Open Loop	Closed Loop	Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
				cm³/rev	in³/rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm³/rev	in³/rev		
yes	no	Fixed Gear Pump	External	40.5	2.471	275	4000	290	4200	500	3500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP250	Bucher Hydraulics, Inc.
No	Yes	Axial piston	Back to Back	2X 40.6	2.48	350	5076	380	5500	NA	3600	93	125	2X 146	2X 38.6	2-Bolt-B	SAE- 15T			2-Bolt B	SAE- 13T	6.9, 10.3, 13.8, 17.2, 20.7	0.42, 0.63, 0.84, 1.05, 1.26	70360 B2B, 72400 B2B	Eaton
No	Yes	Axial piston	Single	40.64	2.48	350	5076	380	5500	NA	3600	84	113	146.3	38.6	2-Bolt-B	SAE-13T, 15T, 20T, 41T, Straight- ø 22.22 (0.875), 25.4 (1.0), Tapered	21.84, 22.22, 25.0, 25.4	0.858, 0.875, 0.98, 1.0	2-Bolt A, B	SAE-9T, 11T, 13T, 35T 41T	6.9, 10.3, 13.8, 17.2, 20.7	0.42, 0.63, 0.84, 1.05, 1.26	70360, 72400	Eaton
yes	no	F1-41	Fixed Bent Axis	40.9	2.49	350	5075	400	5800	2400	2700	57	76	98	26	4 bolt SAE B	22-4 SAE B			no	N/A	N/A	N/A	F1	Parker - Pump & Power Div.
Yes	No	Axial piston	Single	41	2.5	280	4061	350	5076	2650	3600 max. standby	50.7	68	108.7	28.7	2 Bolt B, 2/4 Bolt-C, 2 Bolt-C	SAE- 11T, 13T, 14T, 15T, Straight, Tapered	22.2, 25.4, 31.75	0.88, 0.985, 1.00, 1.25	2 Bolt A, B (Dual Orientation)	SAE -9T, 11T, 13T, 15T, 26T	NA	NA	420	Eaton
Yes	No	Fixed / bent axis	Single	41.2	2.51	400	5800	420	6000	1900	2500	13	17	78.3	20.7	SAE	Various	Various	Various	n/a	Various	n/a	n/a	K60N	HAWE Hydraulics
yes	no	gear	single	41.5	2.53	210	3045	280	4060	3000	3000	28.28 - 52.97	37.92 - 71.03	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.806	0.98 0.55 0.787 0.874 0.846 0.859					HPL Group 3	Bondiolli & Pavesi
yes	no	gear	single	41.5	2.53	220	3190	300	4350	3000	3000	52.85 - 52.97	70.87 - 71.03	124.39 - 220.01	32.86 - 58.12		Tapered (1:8) European Parallel DIN 5482 Splined	16 22 24.5	0.63 0.866 0.965					HPL Group 4	Bondiolli & Pavesi
yes	no	gear	single	41.5	2.53	260	3770	280	4060	3000	3000	28.28 - 62.32	37.92 - 83.57	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.81	0.98 0.55 0.787 0.874 0.846 0.86					HPG Group 3	Bondiolli & Pavesi
yes	no	Axial Piston	single	42	2.56	350	5100	400	5800	3000	3500	74	99.2	126	33.3	4 bolt	n/a	n/a	n/a	n/a	splined and cylindrical w/key	130-260	7.93-15.87	AA11VO series 10/11	Bosch Rexroth
No	Yes	Axial Piston	Variable Displacement	42	2.56	450	6252	480	6960	4200	4600	171	230	158	35	2-bolt flange	19T, 15T, Tapered			A, B	NA	11; 14	0.67; 0.85	Series 90 Pump	Danfoss
yes	no	Axial piston	single	44	2.68	250	3625	320	4640	3000	3000	47.2 - 59.7	63.3 - 80.1	95.3 - 131.8	25.2 - 34.8	SAE B - 2 bolt	Round Straight Key	22.22	0.87	SAE A, SAE B	SAE 9T, SAE 13T			HP A3	Bondiolli & Pavesi
No	Yes	Axial piston	Variable displacement	44	2.65	345	5000-5511	415	6019	3300-4000	4100-5000	169.07	226.73	145	38.3	2-bolt B	13T, 15T, Tapered, Keyed	20, 22, 25	.80, .875, 1.0	SAE A, B	9T,11T,13T	11.8-16.4	0.72-1.00	S40 PV	Danfoss
no	yes	Axial Piston	double	045 - 045	2.75- 2.75	450	6500	500	7200	3700	3900	240	322	2x168	2x48	2+4+6	n/a	n/a	n/a	n/a	splined	n/a	n/a	A24VG series 10	Bosch Rexroth
yes	no	Axial Piston	single	45	2.75	280	4000	350	5100	2600	3100	55	83	81	21.4	2 bolt	n/a	n/a	n/a	n/a	keyed and splined	n/a	n/a	(A)A10VSO series 31	Bosch Rexroth
yes	no	Fixed Gear Pump	External	45	2.745	200	2900	230	3300	600	2500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP300	Bucher Hydraulics, Inc.
Yes		PVX348-BKXXX	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B KEYED	22.225	0.875			n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BKASA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B KEYED	22.225	0.875		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BKAKA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B KEYED	22.225	0.875		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BKABA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B KEYED	22.225	0.875		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BKBAA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B KEYED	22.225	0.875		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BKBBSB	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B KEYED	22.225	0.875		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BKBKB	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B KEYED	22.225	0.875		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BSXXX	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B SPLINE	22.225	0.875			n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BSASA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BSAKA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BSABA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BSBAA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BSBSB	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B SPLINE	22.225	0.875		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BBBKB	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B SPLINE	22.225	0.875		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BKXXX	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B KEYED	22.225	0.875			n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BKASA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B KEYED	22.225	0.875		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-BKAKA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	B 2 & 4-BOLT	B KEYED	22.225	0.875		A KEYED	n/a	n/a	PVX	Hartmann Controls



Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
Yes		PVX348-CKXXX	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	C 4-BOLT	C KEYED	31.75	1.25			n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-CKASA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	C 4-BOLT	C KEYED	31.75	1.25		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-CKAKA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	C 4-BOLT	C KEYED	31.75	1.25		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-CKABA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	C 4-BOLT	C KEYED	31.75	1.25		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-CKBAA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	C 4-BOLT	C KEYED	31.75	1.25		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-CKBSB	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	C 4-BOLT	C KEYED	31.75	1.25		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-CKBKB	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	C 4-BOLT	C KEYED	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-CSXXX	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	C 4-BOLT	C SPLINE	31.75	1.25			n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-CSASA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	C 4-BOLT	C SPLINE	31.75	1.25		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-CSAKA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	C 4-BOLT	C SPLINE	31.75	1.25		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-CSABA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	C 4-BOLT	C SPLINE	31.75	1.25		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-CSBAA	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	C 4-BOLT	C SPLINE	31.75	1.25		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-CSBSB	Axial Piston	45	2.8	310	4500	379	5500	1,800	2800	119.5	89.1	83	22	C 4-BOLT	C SPLINE	31.75	1.25		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX348-CSBKB	Axial Piston	45	2.8	310	4500	379	4000	1,800	2800	119.5	89.1	83	22	C 4-BOLT	C SPLINE	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes	No	Axial piston / variable	single / tandem	45	2.75	350	5000	420	6000	2600	3600	360	480	65	21.4	4 bolt SAE C & D	Various	Various	Various	Yes SAE A -D	Various	n/a	n/a	V30D	HAWE Hydraulics
Yes	No	Axial Piston	Single	45	2.75	320	4600	350	5075	2700	3250	64.3	86.3	121.5	32.1	SAE	SAE			yes	SAE	n/a	n/a	K3VL	Kawasaki
No	Yes	Axial Piston	Variable Displacement	45	2.75	420	6090	450	6525	3400	3500	131	176	137	30	2-bolt flange	13T, 14T, 15T, Tapered			A, B	NA	12	0.73	H1P	Danfoss
Yes	No	Axial Piston	Variable displacement	45	2.75	210	3045	300	4350	2650	2800	70	93.87	119.3	31.5	2-Bolt B	13T, 15T, Keyed, Tapered	Spline: 22, 25- Keyed: 22.2-Tapered: 25.4	Spline:.85,1.0- Keyed: .875- Tapered:1	SAE A,B,BB	9T,11T,13T,15T	N/A	N/A	Series 45	Danfoss
Yes	No	Axial Piston	Variable displacement	45	2.75	310	4495	400	5800	2800	3360	112	150.19	33.3	126	2-Bolt B, 2-Bolt C, 4-Bolt C	13T, 15T, Keyed, Tapered	Spline: 22, 26,31- Keyed: 31.75-Tapered: 31.75	Spline: .86,1.0,1.27- Keyed: 1.25- Tapered:1.25	SAE A,B,BB,C	9T,11T,13T, 14T, 15T	N/A	N/A	Series 45	Danfoss
yes	no		Variable	45	2.75	280	4060	350	5075	3100	3100	65.1	88.5	139.5	36.7	2-Bolt B	SAE-BB or SAE-B			Yes	SAE-BB or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
yes	no		Variable	45	2.75	280	4060	350	5075	3100	3100	65.1	88.5	139.5	36.7	2-Bolt B	SAE-BB or SAE-B			Yes	SAE-BB or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
yes	no		Variable	45	2.75	280	4060	350	5075	3100	3100	65.1	88.5	139.5	36.7	2-Bolt B	SAE-BB or SAE-B			Yes	SAE-BB or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
yes		HPVR-20	axial piston	45.2	2.76	280	4000	320	4500	1750	3000	41	55	79.1	20.90	"C" 2-Bolt	J744 (Jul 88)	31.75	1.25	"A", "B", "C", "A-B" Flange					Continental Hydraulics
yes		HPVR-20	axial piston	45.2	2.76	280	4000	320	4500	1750	3000	41	55	79.1	20.90	"C" 2-Bolt (Splined)	J744 (Jul 88)	29.67 Pitch Dia. 14T, 12/24 Pitch	1.167 Pitch Dia. 14T, 12/24 Pitch	"A", "B", "C", "A-B" Flange					Continental Hydraulics
yes	no	Fixed Gear Pump	External	45.3	2.764	245	3500	260	3700	500	3500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP250	Bucher Hydraulics, Inc.
yes	no	Axial piston	single	46	2.81	280	4060	350	5075	2800	2800	47.1 - 73.7	63.1 - 98.9	95.0 - 162.7	25.1 - 43.0	SAE B - 2 bolt	SAE 13T	21.8	0.87	SAE A, SAE B	SAE 9T, SAE 13T			HP A4	Bondoli & Pavesi
no	yes	Axial piston	single	46	2.81	300	4350	400	5800	3800	3800	73.0 - 116.1	97.9 - 155.7	128.9 - 234.2	34.1 - 61.9	SAE B - 2 bolt	SAE 14T	31.4	1.24	SAE A, SAE B	SAE 9T, SAE 13T	14	0.86	HP P4	Bondoli & Pavesi
no	yes	Axial Piston	single	46	2.81	300	4350	350	5100	3300	380	75.9	101.8	152	40.2	2 bolt	n/a	n/a	n/a	n/a	splined	8.6	0.53	AA10VG series 1	Bosch Rexroth
No	Yes	Axial piston	Variable displacement	46	2.8	345	5000	385	5585	4000	4100	134.64	180.32	183.6	48.5	2-bolt B	13T, 15T, Tapered, Keyed	20, 22, 25	.80, .875, 1.0	SAE A, B	9T,11T,15T	13.9-22.9	.848-1.397	M46	Danfoss
yes	no	gear	single	46.5	2.84	180	2610	270	3915	3000	3000	28.28 - 52.97	37.92 - 71.03	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.806	0.98 0.55 0.787 0.874 0.846 0.859					HPL Group 3	Bondoli & Pavesi
yes	no	gear	single	46.5	2.84	250	3625	280	4060	3000	3000	28.28 - 62.32	37.92 - 83.57	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.81	0.98 0.55 0.787 0.874 0.846 0.86					HPG Group 3	Bondoli & Pavesi
Yes	No	Fixed / bent axis	Single	47.1	2.87	400	5800	420	6000	1900	2500	13	17	89.49	-	SAE	Various	Various	Various	n/a	Various	n/a	n/a	K60N	HAWE Hydraulics
Yes	No	Fixed Gear	Single/Tandem/ Multiple	48.1	2.93	172	2500	172	2500	2800	2800	Consult Factory	Consult Factory	132.5	35	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	C	Geartek
Yes	No	Fixed Gear	Internal Relief	48.1	2.93	172	2500	172	2500	2800	2800	Consult Factory	Consult Factory	132.5	35	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	CX	Geartek
Yes	No	Fixed Gear	Single/Tandem/ Multiple	48.8	2.98	276	4000	276	4000	2500	2500	Consult Factory	Consult Factory	118.1	31.2	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	D	Geartek



Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
Yes	No	Fixed Gear	Single/Tandem/Multiple	48.8	2.98	276	4000	276	4000	2500	2500	Consult Factory	Consult Factory	118.1	31.2	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	HD	Geartek
Yes	No	Fixed Gear	Hi-Lo Pump	48.8	2.98	276	4000	276	4000	2500	2500	Consult Factory	Consult Factory	118.1	31.2	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	SLD	Geartek
No	Yes	Axial piston	Single	49.10	3	350	5076	380	5500	NA	3600	102	137	176.8	46.7	2 Bolt B	SAE-13T, 15T, 20T, 41T, Straight-ø 22.22 (0.875), 25.4 (1.0), Tapered	22.22, 25.0, 25.4	0.875, 0.98, 1.0	2-Bolt A, B	SAE-9T, 11T, 13T, 35T 41T	6.9, 10.3, 13.8, 17.2, 20.7	0.42, 0.63, 0.84, 1.05, 1.26	70360, 72400	Eaton
No	Yes	Axial piston	Back to Back	2X 49.1	3	350	5076	380	5500	NA	3600	112	150	2X 176.8	2X 46.7	2-Bolt-B	SAE- 15T			2-Bolt B	SAE- 13T	6.9, 10.3, 13.8, 17.2, 20.8	0.42, 0.63, 0.84, 1.05, 1.27	70360 B2B, 72400 B2B	Eaton
Yes	No	Axial piston	Single	49.2	3	280	4061	350	5076	2650	3600 max. standby	60.8	81.5	130.4	34.4	2 Bolt B, 2/4 Bolt-C, 2 Bolt-C	SAE- 13T, 14T, 15T, Straight, Tapered	22.2, 25.4, 31.75	0.88, 0.985, 1.00, 1.25	2 Bolt A, B (Dual Orientation)	SAE -9T, 11T, 13T, 15T, 26T	NA	NA	420	Eaton
no	yes	Axial piston	single	50	3.05	300	4350	400	5800	3800	3800	73.0 - 116.1	97.9 - 155.7	128.9 - 234.2	34.1 - 61.9	SAE B - 2 bolt	SAE 13T SAE 15T Round Straight Key	22.22	0.87	SAE A, SAE B	SAE 9T, SAE 13T	14	0.86	M4 PV	Bondioli & Pavesi
no	yes	Axial piston	single	50	3.05	300	4350	400	5800	3800	3800	73.0 - 116.1	97.9 - 155.7	128.9 - 234.2	34.1 - 61.9	SAE B - 2 bolt	SAE 15T	25	0.98	SAE A, SAE B	SAE 9T, SAE 13T	14	0.86	HP P4	Bondioli & Pavesi
yes	no	gear	single	50	3.05	270	3915	310	4495	3000	3000	65.83 - 96.87	88.28 - 129.9	149.94 - 244.23	39.61 - 64.52	SAE C - 2 & 4 bolt	SAE C 14T	31.2	1.228					HPG Group 4	Bondioli & Pavesi
Yes	No	Axial Piston	Single	50	3.05	280	4060	350	5075	2600		60.6	81.3	130.0	34.3	SAE	SAE			yes	SAE	n/a	n/a	K3VLS	Kawasaki
yes	no	T7BS	Fixed Vane	50	3.05	290	4205	320	4640	3600	3600	87.0	118.3	180	47.4	2-Bolt B	SAE-B or SAE-BB			See T6*R pumps	See T6*R pumps	N/A	N/A	T7 Series	Parker - Pump & Power Div.
yes	no	T7BS	Fixed Vane	50	3.05	290	4205	320	4640	3600	3600	87.0	118.3	180	47.4	2-Bolt B	SAE-B or SAE-BB			See T6*R pumps	See T6*R pumps	N/A	N/A	T7 Series	Parker - Pump & Power Div.
yes	no	Fixed Gear Pump	External	50.2	3.063	220	3200	235	3400	500	3000	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP250	Bucher Hydraulics, Inc.
yes	no	gear	single	50.5	3.08	180	2610	270	3915	3000	3000	28.28 - 52.97	37.92 - 71.03	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.806	0.98 0.55 0.787 0.874 0.846 0.859					HPL Group 3	Bondioli & Pavesi
yes	no	gear	single	50.5	3.08	190	2755	2850	4060	3000	3000	52.85 - 52.97	70.87 - 71.03	124.39 - 220.01	32.86 - 58.12		Tapered (1:8) European Parallel DIN 5482 Splined	16 22 24.5	0.63 0.866 0.965					HPL Group 4	Bondioli & Pavesi
yes	no	gear	single	50.5	3.08	240	3480	270	3915	2750	2750	28.28 - 62.32	37.92 - 83.57	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.81	0.98 0.55 0.787 0.874 0.846 0.86					HPG Group 3	Bondioli & Pavesi
Yes	No	Axial Piston	Variable displacement	51	3.11	310	4495	400	5800	2700	3240	122.4	164.14	36.4	137.7	2-Bolt B, 2-Bolt C, 4-Bolt C	13T, 15T, Keyed, Tapered	Spline: 22, 28- Keyed: 31.75-Tappered: 25.4	Spline: .86,1.0,1.27- Keyed: 1.25- Tappered:1.25	SAE A,B,BB,C	9T,11T,13T, 14T, 15T	N/A	N/A	Series 45	Danfoss
yes	no	F1-51	Fixed Bent Axis	51.1	3.12	350	5075	400	5800	2200	2700	66	88	112	30	4 bolt SAE B	22-4 SAE B			no	N/A	N/A	N/A	F1	Parker - Pump & Power Div.
No	Yes	Axial piston	Variable, Single/ Tandem	52	3.17	250	3625	350	5076	3600	3600	78	105	187.2	49.45	B, BB	13 teeth 16/32, 14 teeth 12/24, 15 teeth 16/32, Keyed shaft	25.38	1	A, B, BB	-	11, 16.9	.67, 1.03	PM45	Poclair Hydraulics
No	Yes	Axial piston	Variable, Single/ Tandem	52	3.17	300	4351	400	5801	3400	3600	99.8	134	187.2	49.45	B, BB	13 teeth 16/32, 14 teeth 16/32, 15 teeth 16/32	25.38	1	A, B, BB	-	11, 15.8	.67, .96	PM50	Poclair Hydraulics
yes	no	Fixed Gear Pump	External	53	3.233	200	2900	230	3300	600	2500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP300	Bucher Hydraulics, Inc.
No	Yes	Axial Piston	Variable Displacement	53	3.28	380	5510	400	5800	3400	3500	137	184	162	35	2-bolt flange	13T, 14T, 15T, Tapered			A, B	NA	12	0.73	H1P	Danfoss
yes	no	Fixed Gear Pump	External	54	3.295	205	3000	220	3200	500	3000	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP250	Bucher Hydraulics, Inc.
no	yes	HPV055	Axial Piston Variable Displacement	54.7	3.34	450	6525	500	7250	3900	4150	153	205	213.7	56.4	C	SAE C	31.22	1.229	A,B,C	ANSI 18T	16	0.98	2	Linde Hydraulics
Yes	No	Axial piston	Single	55.00	3.35	420	6091	500	7252	NA	2700	104	139	148.5	39.2	2 Bolt-C	SAE-14T			SAE-A, B, C pad	SAE-9T, 13T, 14T, 15T	NA	NA	HPR	Eaton

Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
No	Yes	Axial piston	Single	55.00	3.34	420	6091	500	7252	3300	3700	122	163	203.5	53.8	2 Bolt-C	SAE-14T, 21T	31.22, 34.51	1.23, 1.36	SAE-A, B, C pad	SAE-9T, 11T, 13T, 14T, 15T, 21T	16, 22.5, 31, 32, 38.6, 45	0.97, 1.37, 1.89, 1.95, 2.35, 2.75	HPV	Eaton
No	Yes	Axial Piston	Variable Displacement	55	3.35	450	6252	480	6960	3900	4250	207	278	193	42	4-bolt flange	21T, 14T Tapered			A, B, C	NA	11, 14; 17	0.67; 0.85; 1.04	Series 90 Pump	Danfoss
yes	no	HPR055	Axial Piston, Self-Regulating	55	3.34	420	6090	500	7250	2700	2700	104	139.5	148.5	38.6	C	SAE C	31.22	1.229	A,B,C	ANSI 15T	-	-	2	Linde Hydraulics
no	yes	C055	Variable axial piston	55	3.35	420	6090	450	6525	3800	4000	165	221	209	55	2/4 Bolt C	32-4 SAE C, 21T 16/32 DP			Yes	SAE-C or smaller	18	1.1	C Series	Parker - Pump & Power Div.
No	Yes	Axial piston	Variable, Single/ Tandem	55	3.35	420	6000	480	7000	3900	4250	158	212	215	57	C	21 teeth 16/32, 14 teeth 12/24	31.14, 34.42	1.226, 1.355	A, BB, B, C	-	11, 14, 17	0.67, 0.85, 1.03	P90 55	Poclain Hydraulics
yes	no	gear	single	55.5	3.39	170	2465	230	3335	2500	2500	28.28 - 52.97	37.92 - 71.03	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.806	0.98 0.55 0.787 0.874 0.846 0.859					HPL Group 3	Bondiola & Pavesi
yes	no	gear	single	55.5	3.39	220	3190	250	3625	2750	2750	28.28 - 62.32	37.92 - 83.57	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.81	0.98 0.55 0.787 0.874 0.846 0.86					HPG Group 3	Bondiola & Pavesi
no	yes	Axial Piston	single	56	3.42	400	5800	450	6500	3600	3600	134	180	202	53.4	2&4 bolt	n/a	n/a	n/a	n/a	splined	11.6	0.71	AA4VG series 32	Bosch Rexroth
Yes	No	Fixed / bent axis	Single	56	3.41	400	5800	420	6000	1900	2500	13	17	106.4	-	SAE	Various	Various	Various	n/a	Various	n/a	n/a	K60N	HAWE Hydraulics
Yes	No	Fixed Gear	Single/Tandem/ Multiple	57.5	3.51	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2500	2500	Consult Factory	Consult Factory	142.0	37.5	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	C	Geartek
Yes	No	Fixed Gear	Internal Relief	57.5	3.51	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2500	2500	Consult Factory	Consult Factory	142.0	37.5	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	CX	Geartek
yes	no	Axial piston	single	58	3.54	250	3625	320	4640	2650	2650	47.1 - 73.7	63.1 - 98.9	95.0 - 162.7	25.1 - 43.0	SAE B - 2 bolt	SAE 15T	25	0.98	SAE A, SAE B	SAE 9T, SAE 13T			HP A4	Bondiola & Pavesi
no	yes	Axial piston	single	58	3.54	250	3625	400	5800	3600	3600	73.0 - 116.1	97.9 - 155.7	128.9 - 234.2	34.1 - 61.9	SAE B - 2 bolt	SAE 13T SAE 15T Round Straight Key	25.4	1	SAE A, SAE B	SAE 9T, SAE 13T	14	0.86	M4 PV	Bondiola & Pavesi
no	yes	Axial piston	single	58	3.54	250	3625	400	5800	3600	3600	73.0 - 116.1	97.9 - 155.7	128.9 - 234.2	34.1 - 61.9	SAE B - 2 bolt	Round Straight key	22.22	0.87	SAE A, SAE B	SAE 9T, SAE 13T	16	0.98	HP P4	Bondiola & Pavesi
yes	no	Axial Piston	single	58.5	3.57	350	5100	400	5800	2700	3250	92	123.4	158	41.7	4 bolt	n/a	n/a	n/a	n/a	splined and cylindrical w/key	130-260	7.93-15.87	AA11VO series 10/11	Bosch Rexroth
yes	no	F1-61	Fixed Bent Axis	59.5	3.63	350	5075	400	5800	2200	2700	76	102	131	35	4 bolt SAE B	22-4 SAE B			no	N/A	N/A	N/A	F1	Parker - Pump & Power Div.
Yes		PVX360-BKXXX	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B KEYED	22.225	0.875			n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-BKASA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B KEYED	22.225	0.875		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-BKAKA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B KEYED	22.225	0.875		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-BKABA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B KEYED	22.225	0.875		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-BKBAA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B KEYED	22.225	0.875		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-BKBBSB	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B KEYED	22.225	0.875		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-BKBKB	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B KEYED	22.225	0.875		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-BSXXX	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B SPLINE	22.225	0.875			n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-BSASA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-BSAKA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-BSABA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-BSBAA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B SPLINE	22.225	0.875		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-BSBSB	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B SPLINE	22.225	0.875		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-BBBKB	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B SPLINE	22.225	0.875		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-BKXXX	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B KEYED	22.225	0.875			n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-BKASA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	B 2 & 4-BOLT	B KEYED	22.225	0.875		A SPLINE	n/a	n/a	PVX	Hartmann Controls





Open Loop	Closed Loop	Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
				cm³/rev	in³/rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm³/rev	in³/rev		
Yes		PVX360-CSBKB	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	C 4-BOLT	C SPLINE	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-CKXXX	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	C 4-BOLT	C KEYED	31.75	1.25			n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-CKASA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	C 4-BOLT	C KEYED	31.75	1.25		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-CKAKA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	C 4-BOLT	C KEYED	31.75	1.25		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-CKABA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	C 4-BOLT	C KEYED	31.75	1.25		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-CKBAA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	C 4-BOLT	C KEYED	31.75	1.25		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-CKBSB	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	C 4-BOLT	C KEYED	31.75	1.25		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-CKBKB	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	C 4-BOLT	C KEYED	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-CSXXX	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	C 4-BOLT	C SPLINE	31.75	1.25			n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-CSASA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	C 4-BOLT	C SPLINE	31.75	1.25		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-CSAKA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	C 4-BOLT	C SPLINE	31.75	1.25		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-CSABA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	C 4-BOLT	C SPLINE	31.75	1.25		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-CSBAA	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	C 4-BOLT	C SPLINE	31.75	1.25		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-CSBSB	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	C 4-BOLT	C SPLINE	31.75	1.25		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX360-CSBKB	Axial Piston	60	3.7	241	3500	276	4000	1,800	2800	121.5	90.6	108	28.5	C 4-BOLT	C SPLINE	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes	No	Axial piston / variable	single / tandem	60	3.66	350	5000	400	5800	2500	3000	190	250	80-250	20-66	4 bolt SAE C & DIN Truck Mount	Various	Various	Various	Yes SAE A-C	Variuos	n/a	n/a	V60N	HAWE Hydraulics
Yes	No	Axial Piston	Single	60	3.66	250	3625	280	4060	2400	3000	60.0	80.4	144.0	38.0	SAE	SAE		yes	SAE	n/a	n/a	K3VL	Kawasaki	
No	Yes	Axial Piston	Variable Displacement	60	3.69	420	6090	450	6525	3500	4000	200	268	189	41	4-bolt flange	14T, 21T, Tapered		A, B, C	NA	14; 17	0,85; 1,04	H1P	Danfoss	
Yes	No	Axial Piston	Variable displacement	60	3.66	310	4495	400	5800	2600	3120	138.67	185.96	14.2	156	2-Bolt B, 2-Bolt C, 4-Bolt C	13T, 15T, Keyed, Tapered	Spline: 22, 28- Keyed: 31.75-Tappered: 25.4	Spline: .86,1.0,1.27- Keyed: 1.25- Tapered:1.25	SAE A,B,BB,C	9T,11T,13T, 14T, 15T	N/A	N/A	Series 45	Danfoss
yes	no		Variable	60	3.66	280	4060	350	5075	2800	2800	78.4	106.6	168	44.2	2-Bolt B or 2/4-Bolt C	SAE-C, SAE-BB, or SAE-B		Yes	SAE-C or smaller	N/A	N/A	P1	Parker - Pump & Power Div.	
yes	no		Variable	60	3.66	320	4640	370	5365	2800	2800	89.6	121.9	168	44.2	2-Bolt B or 2/4-Bolt C	SAE-C, SAE-BB, or SAE-B		Yes	SAE-C or smaller	N/A	N/A	P2	Parker - Pump & Power Div.	
yes	no		Variable	60	3.66	280	4060	350	5075	2800	2800	78.4	106.6	168	44.2	2-Bolt B or 2/4-Bolt C	SAE-C, SAE-BB, or SAE-B		Yes	SAE-C or smaller	N/A	N/A	P1	Parker - Pump & Power Div.	
yes	no		Variable	60	3.66	320	4640	370	5365	2800	2800	89.6	121.9	168	44.2	2-Bolt B or 2/4-Bolt C	SAE-C, SAE-BB, or SAE-B		Yes	SAE-C or smaller	N/A	N/A	P2	Parker - Pump & Power Div.	
yes	no		Variable	60	3.66	280	4060	350	5075	2800	2800	78.4	106.6	168	44.2	2-Bolt B or 2/4-Bolt C	SAE-C, SAE-BB, or SAE-B		Yes	SAE-C or smaller	N/A	N/A	P1	Parker - Pump & Power Div.	
yes	no		Variable	60	3.66	320	4640	370	5365	2800	2800	89.6	121.9	168	44.2	2-Bolt B or 2/4-Bolt C	SAE-C, SAE-BB, or SAE-B		Yes	SAE-C or smaller	N/A	N/A	P2	Parker - Pump & Power Div.	
yes	no	gear	single	61	3.72	150	2175	200	2900	2500	2500	28.28 - 52.97	37.92 - 71.03	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.806	0.98 0.55 0.787 0.874 0.846 0.859					HPL Group 3	Bondiola & Pavesi
yes	no	gear	single	61	3.72	160	2320	200	2900	2500	2500	52.85 - 52.97	70.87 - 71.03	124.39 - 220.01	32.86 - 58.12		Tapered (1:8) European Parallel DIN 5482 Splined	16 22 24.5	0.63 0.866 0.965					HPL Group 4	Bondiola & Pavesi
yes	no	gear	single	61	3.72	200	2900	220	3190	2500	2500	28.28 - 62.32	37.92 - 83.57	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.81	0.98 0.55 0.787 0.874 0.846 0.86					HPG Group 3	Bondiola & Pavesi
Yes	No	Axial piston	Single	62.3	3.8	280	4061	350	5076	2600	3600 max. standby	75.6	101.3	162.0	42.8	2 Bolt B, 2/4 Bolt-C, 2 Bolt-C	SAE - 13T, 14T, 15T, Straight	22.2, 25.4, 31.75	0.88, 0.985, 1.00, 1.25	2 Bolt A, B (Dual Orientation)	SAE -9T, 11T, 13T, 15T, 26T	NA	NA	420	Eaton
yes	no	gear	single	63	3.84	270	3915	310	4495	3000	3000	65.83 - 96.87	88.28 - 129.9	149.94 - 244.23	39.61 - 64.52	SAE C - 2 & 4 bolt	SAE C 14T	31.2	1.228					HPG Group 4	Bondiola & Pavesi
no	yes	Axial Piston	single	63	3.84	300	4350	350	5100	3000	350	94.5	126.7	189	49.9	2 bolt	n/a	n/a	n/a	n/a	splined	14.9	0.91	AA10VG series 1	Bosch Rexroth
yes	no	Fixed Gear Pump	External	63	3.843	180	2600	210	3000	550	2500	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP300	Bucher Hydraulics, Inc.
Yes	No	Axial Piston	Single	63	3.84	350	5075	400	5800	2600	3250	95.4	128.0	163.8	43.2	metric	ISO		yes	SAE	n/a	n/a	K3VG	Kawasaki	
Yes	No	Axial Piston	double	63 x 2	3.84x2	343	4970	392	5680	2650	3250	190.7	255.8	333.9	88.2	metric	SAE		yes	SAE	n/a	n/a	K3V	Kawasaki	
Yes	No	Axial Piston	double	63 x 2	3.84x2	350	5075	400	5800	2600	3250	191.1	256.3	327.6	86.6	metric	ISO		no	no	n/a	n/a	K7V	Kawasaki	

Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm³/rev	in³/rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm³/rev	in³/rev		
Yes	No	Fixed / bent axis	Single	63.5	3.88	400	5800	420	6000	1900	2500	13	17	120.65	-	SAE	Various	Various	Various	n/a	Various	n/a	n/a	K60N	HAWE Hydraulics
No	Yes	Axial piston	Single	63.74	3.89	420	6000		7000	NA	4160	186	249	265.2	70.0	4-Bolt-C	SAE-14T, 19T, 20T, 21T, 23T, Straight, Tapered	38.1	1.5	2-Bolt A, 4-Bolt B	SAE-9T, 11T, 13T	13.9, 17.4, 21.0, 27.9, 34.7	0.85, 1.06, 1.28, 1.70, 2.12	Series 1	Eaton
No	Yes	Axial piston	Single	63.74	3.89	430	6250	500	7250	NA	4165	190	255	265.5	70.1	4-Bolt-C	SAE-14T, 21T, 23T, Tapered			Dual 2-Bolt A & B 4-Bolt-C	SAE-9T, 11T, 13T, 14T, 15T, 27T	13.9, 17.4, 21.0, 27.9, 34.7	0.85, 1.06, 1.28, 1.70, 2.12	Series 2	Eaton
Yes	No	Fixed Gear	Single/Tandem/ Multiple	63.9	3.9	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2200	2200	Consult Factory	Consult Factory	140.1	37	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	C	Geartek
Yes	No	Fixed Gear	Internal Relief	63.9	3.9	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2200	2200	Consult Factory	Consult Factory	140.1	37	A/B	A/B/Spline/Straight/Custom	N/A	0.625/0.75/0.875	N/A	N/A	N/A	N/A	CX	Geartek
Yes		PVX464-CKASA	Axial Piston	64	4	276	4000	345	5000	1,800	2800	151.7	113.2	118	31.2	C 2 & 4	C KEYED	31.75	1.25			n/a	n/a	PVX	Hartmann Controls
Yes		PVX464-CKASA	Axial Piston	64	4	276	4000	345	5000	1,800	2800	151.7	113.2	118	31.2	C 2 & 4	C KEYED	31.75	1.25		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX464-CKABA	Axial Piston	64	4	276	4000	345	5000	1,800	2800	151.7	113.2	118	31.2	C 2 & 4	C KEYED	31.75	1.25		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX464-CKABA	Axial Piston	64	4	276	4000	345	5000	1,800	2800	151.7	113.2	118	31.2	C 2 & 4	C KEYED	31.75	1.25		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX464-CKBSB	Axial Piston	64	4	276	4000	345	5000	1,800	2800	151.7	113.2	118	31.2	C 2 & 4	C KEYED	31.75	1.25		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX464-CKBSB	Axial Piston	64	4	276	4000	345	5000	1,800	2800	151.7	113.2	118	31.2	C 2 & 4	C KEYED	31.75	1.25		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX464-CKCSC	Axial Piston	64	4	276	4000	345	5000	1,800	2800	151.7	113.2	118	31.2	C 2 & 4	C KEYED	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX464-CKCSC	Axial Piston	64	4	276	4000	345	5000	1,800	2800	151.7	113.2	118	31.2	C 2 & 4	C KEYED	31.75	1.25		C SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX464-CSCCK	Axial Piston	64	4	276	4000	345	5000	1,800	2800	151.7	113.2	118	31.2	C 2 & 4	C SPLINE	31.75	1.25		C KEYED	n/a	n/a	PVX	Hartmann Controls
yes	no	Axial piston	single	65	3.97	250	3625	320	4640	2500	2500	47.1 - 73.7	63.1 - 98.9	95.0 - 162.7	25.1 - 43.0	SAE B - 2 bolt	Round Straight key	22.22	0.87	SAE A, SAE B	SAE 9T, SAE 13T			HP A4	Bondioli & Pavesi
no	yes	Axial piston	single	65	3.97	250	3625	350	5075	3600	3600	73.0 - 116.1	97.9 - 155.7	128.9 - 234.2	34.1 - 61.9	SAE B - 2 bolt	SAE 13T SAE 15T Round Straight Key	30	1.18	SAE A, SAE B	SAE 9T, SAE 13T	14	0.86	M4 PV	Bondioli & Pavesi
no	yes	Axial piston	single	65	3.97	251	3626	350	5076	3600	3600	73.0 - 116.1	97.9 - 155.7	128.9 - 234.2	34.1 - 61.9	SAE B - 2 bolt	Round Straight key	25.4	1	SAE A, SAE B	SAE 9T, SAE 13T	16	0.98	HP P4	Bondioli & Pavesi
Yes	No	Axial Piston	Single	65	3.97	280	4060	350	5075	2600		78.9	105.8	169.0	44.7	SAE	SAE			yes	SAE	n/a	n/a	K3VLS	Kawasaki
Yes	No	Axial Piston	Variable displacement	65	3.97	260	3770	350	5075	2500	3000	126.39	169.49	42.9	162.6	2-Bolt B, 2-Bolt C, 4-Bolt C	13T, 15T, Keyed, Tapered	Spline: 22, 28- Keyed: 31.75-Tapered: 25.4	Spline: .86,1.0,1.27- Keyed: 1.25- Tapered:1.25	SAE A,B,BB,C	9T,11T,13T,14T, 15T	N/A	N/A	Series 45	Danfoss
No	Yes	Axial piston	Variable, Single/ Tandem	65	3.97	250	3625	350	5076	3600	3600	92	123	234	61.82	B, BB	15 teeth 16/32, Keyed shaft	22.22	0.87	A, B, BB	-	11, 16.9	.67, 1.03	PM65	Poclair Hydraulics
no	yes	Axial Piston	double	065 - 045	3.97- 2.75	450	6500	500	7200	2600	2800	206	276	1x170 +1x118	1x45 +1x31	2+4+6	n/a	n/a	n/a	n/a	splined	n/a	n/a	A24VG series 10	Bosch Rexroth
no	yes	Axial Piston	double	065 - 065	3.97- 3.97	450	6500	500	7200	2600	2800	243	326	2x170	2x45	2+4+6	n/a	n/a	n/a	n/a	splined	n/a	n/a	A24VG series 10	Bosch Rexroth
Yes	No	Fixed Gear	Single/Tandem/ Multiple	65.1	3.97	262	3800	262	3800	2500	2500	Consult Factory	Consult Factory	157.9	41.7	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	D	Geartek
Yes	No	Fixed Gear	Single/Tandem/ Multiple	65.1	3.97	276	4000	276	4000	2500	2500	Consult Factory	Consult Factory	157.9	41.7	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	HD	Geartek
Yes	No	Fixed Gear	Hi-Lo Pump	65.1	3.97	262	3800	262	3800	2500	2500	Consult Factory	Consult Factory	157.9	41.7	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	SLD	Geartek
yes		HPVR-29	axial piston	65.9	4.02	280	4000	320	4500	1750	3000	60	80	115.3	30.46	"C" 2-Bolt	J744 (Jul 88)	31.75	1.25	"A", "B", "C", "A-B" Flange					Continental Hydraulics
yes		HPVR-29	axial piston	65.9	4.02	280	4000	320	4500	1750	3000	60	80	115.3	30.46	"C" 2-Bolt (Splined)	J744 (Jul 88)	29.67 Pitch Dia. 14T, 12/24 Pitch	1.167 Pitch Dia. 14T, 12/24 Pitch	"A", "B", "C", "A-B" Flange					Continental Hydraulics
No	Yes	Axial Piston	Variable Displacement	68	4.15	380	5510	400	5800	3500	4000	201	270	214	47	4-bolt flange	14T, 21T, Tapered			A, B, C	NA	14; 17	0.85; 1.04	H1P	Danfoss
No	Yes	Axial Piston	Variable Displacement	69	4.22	450	6525	480	6960	3500	4000	204	274	217	47	4-bolt flange	14T, 21T, 23T, Tapered			A, B, C	NA	14; 17	0.85; 1.04	H1P	Danfoss
yes	no	Axial piston	single	70	4.27	280	4060	350	5075	2500	2500	86.7 - 87.9	116.3 - 117.9	174.9 - 206.9	46.2 - 54.7	SAE C - 2 & 4 bolt	SAE 14T	31.4	1.24	SAE A, SAE B, SAE C	SAE 9T, SAE 13T, SAE 14T			HP A6	Bondioli & Pavesi
yes	no	gear	single	71	4.33	250	3625	300	4350	3000	3000	65.83 - 96.87	88.28 - 129.9	149.94 - 244.23	39.61 - 64.52	SAE C - 2 & 4 bolt	SAE C 14T	31.2	1.228					HPG Group 4	Bondioli & Pavesi
yes	no	Axial Piston	single	71	4.33	280	4000	350	5100	2550	2600	84	112	128	33.8	2 bolt	n/a	n/a	n/a	n/a	keyed and splined	n/a	n/a	(A)A10VSO series 31	Bosch Rexroth
no	yes	Axial Piston	single	71	4.33	400	5800	450	6500	3300	3300	156	209	234	61.8	2&4 bolt	n/a	n/a	n/a	n/a	splined	19.6	1.2	AA4VG series 32	Bosch Rexroth
No	Yes	Axial Piston	Single	71	4.33	400	5800	450	6530	3300		156.1	209.3	234.3	61.9	SAE	SAE			yes	SAE	20	1.22	K8V	Kawasaki

Operation	Open Loop	Closed Loop	Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
					cm³/rev	in³/rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm³/rev	in³/rev		
	no	yes	Axial piston	single	72	4.39	380	5510	420	6090	3300	3300	141.2 - 160.9	189.4 - 215.7	237.4 - 270.4	62.7 - 71.4	SAE C - 2 bolt	SAE 14T	31.4	1.24	SAE A, SAE B, SAE C	SAE 9T, SAE 13T, SAE 14T	16	0.98	M6 PV	Bondiola & Pavesi
	yes	no	gear	single	72	4.39	140	2030	180	2610	2500	2500	28.28 - 52.97	37.92 - 71.03	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.806	0.98 0.55 0.787 0.874 0.846 0.859					HPL Group 3	Bondiola & Pavesi
	yes	no	gear	single	72	4.39	150	2175	180	2610	2500	2500	52.85 - 52.97	70.87 - 71.03	124.39 - 220.01	32.86 - 58.12		Tapered (1:8) European Parallel DIN 5482 Splined	16 22 24.5	0.63 0.866 0.965					HPL Group 4	Bondiola & Pavesi
	yes	no	gear	single	72	4.39	190	2755	220	3190	2500	2500	28.28 - 62.32	37.92 - 83.57	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.81	0.98 0.55 0.787 0.874 0.846 0.86					HPG Group 3	Bondiola & Pavesi
Yes	No		Axial Piston	Variable displacement	72	4.58	260	3770	350	5075	2400	2880	134.4	180.23	47.5	180	2-Bolt B, 2-Bolt C, 4-Bolt C	13T, 15T, Keyed, Tapered	Spline: 22, 28- Keyed: 31.75-Tapered: 25.4	Spline: .86,1.0,1.27- Keyed: 1.25- Tapered:1.25	SAE A,B,BB,C	9T,11T,13T, 14T, 15T	N/A	N/A	Series 45	Danfoss
yes	no		Axial Piston	single	74	4.52	350	5100	400	5800	2550	3000	110	147.5	189	49.9	4 bolt	n/a	n/a	n/a	n/a	splined and cylindrical w/key	130-260	7.93-15.87	AA11VO series 10/11	Bosch Rexroth
Yes	No		Axial Piston	Variable displacement	74	4.52	310	4495	400	5800	2400	2800	153.48	205.82	46.9	177.6	2-Bolt B, 2-Bolt C, 4-Bolt C	14T, 17T, Keyed	Spline: 31,38- Keyed:31.75	Spline: 1.23, 1.5- Keyed: 1.25	SAE A,B,BB,C	9T,11T,13T, 15T	N/A	N/A	Series 45	Danfoss
Yes	No		Radial piston	Fixed displacement	4 X 74	4 X 4.51	350	5076	450	6527	2100	2300	510	686	4x170	4x44.91	-	Keyed shaft	80	3.15	-	-	-	-	PL4H	Poclair Hydraulics
Yes	No		Radial piston	Fixed displacement	6 X 74	6 X 4.51	350	5076	450	6527	1800	2000	666	895	6x148	6x39.1	-	Keyed shaft	80	3.15	-	-	-	-	PL6H	Poclair Hydraulics
Yes	No		Axial piston	Single	74.4	4.54	280	4061	350	5076	2400	3000 max. standby	83.3	111.7	178.6	47.2	2/4-Bolt C, 4 Bolt C	SAE -14T, 17T, Straight, Tapered	31.75, 38.1	1.25, 1.5	2 Bolt A, 2/4 Bolt B & C	SAE 9T, 11T, 13T, 14T, 15T 17T	NA	NA	620	Eaton
yes	no		Fixed Gear Pump	External	75	4.575	170	2400	190	2700	550	2000	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP300	Bucher Hydraulics, Inc.
No	Yes		Axial piston	Single	75	4.6	420	6000	480	7000	NA	4160	219	294	312.0	82.4	4-Bolt-C	SAE-14T, 19T, 20T, 21T, 23T, Straight, Tapered	38.1	1.5	2-Bolt A, 4-Bolt B	SAE-9T, 11T, 13T	13.9, 17.4, 21.0, 27.9, 34.7	0.85, 1.06, 1.28, 1.70, 2.12	Series 1	Eaton
No	Yes		Axial piston	Single	75	4.59	430	6250	500	7250	NA	4165	224	301	312.4	82.5	4-Bolt-C	SAE-14T, 21T, 23T, Tapered			Dual 2-Bolt A & B 4-Bolt-C	SAE-9T, 11T, 13T, 14T, 15T, 27T	13.9, 17.4, 21.0, 27.9, 34.7	0.85, 1.06, 1.28, 1.70, 2.12	Series 2	Eaton
Yes	No		Axial piston	Single	75	4.63	420	6091	500	7252	NA	2500	133	178	187.5	49.5	2 Bolt-C	SAE-14T, 21T			SAE-A, B, C pad	SAE-9T, 13T, 14T, 15T, 21T	NA	NA	HPR	Eaton
No	Yes		Axial piston	Single	75	4.63	420	6091	500	7252	3100	3500	159	213	262.5	69.3	2 Bolt-C**	SAE-14T, 21T	31.22, 34.51	1.23, 1.36	SAE-A, B, C pad	SAE-9T, 13T, 14T, 15T, 21T	16, 22.5, 31, 32, 38.6, 45	0.97, 1.37, 1.89, 1.95, 2.35, 2.75	HPV	Eaton
Yes	No		Axial piston / variable	single / tandem	75	4.58	350	5000	420	6000	2400	3200	360	480	109	35.7	4 bolt SAE C & D	Various	Various	Various	Yes SAE A -D	Various	n/a	n/a	V30D	HAWE Hydraulics
No	Yes		Axial Piston	Variable Displacement	75	4.59	450	6252	480	6960	3600	3950	263	353	243	53	4-bolt flange	21T, 23T, 14T, Tapered			A, B, C	NA	14; 17; 20	0,85; 1,04; 1,22	Series 90 Pump	Danfoss
yes	no			Variable	75	4.58	280	4060	350	5075	2700	2700	94.5	128.5	202.5	53.3	2/4-Bolt C	SAE-C			Yes	SAE-C or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
yes	no			Variable	75	4.58	320	4640	370	5365	2500	2500	100.0	136.0	187.5	49.3	2/4-Bolt C	SAE-CC or SAE-C			Yes	SAE-C or smaller	N/A	N/A	P2	Parker - Pump & Power Div.
yes	no			Variable	75	4.58	320	4640	370	5365	3000	3000	120.0	163.2	225	59.2	2/4-Bolt C	SAE-CC or SAE-C			Yes	SAE-C or smaller	N/A	N/A	P3	Parker - Pump & Power Div.
yes	no			Variable	75	4.58	280	4060	350	5075	2700	2700	94.5	128.5	202.5	53.3	2/4-Bolt C	SAE-C			Yes	SAE-C or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
yes	no			Variable	75	4.58	320	4640	370	5365	2500	2500	100.0	136.0	187.5	49.3	2/4-Bolt C	SAE-CC or SAE-C			Yes	SAE-C or smaller	N/A	N/A	P2	Parker - Pump & Power Div.
yes	no			Variable	75	4.58	320	4640	370	5365	3000	3000	120.0	163.2	225	59.2	2/4-Bolt C	SAE-CC or SAE-C			Yes	SAE-C or smaller	N/A	N/A	P3	Parker - Pump & Power Div.
yes	no			Variable	75	4.58	280	4060	350	5075	2700	2700	94.5	128.5	202.5	53.3	2/4-Bolt C	SAE-C			Yes	SAE-C or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
yes	no			Variable	75	4.58	320	4640	370	5365	2500	2500	100.0	136.0	187.5	49.3	2/4-Bolt C	SAE-CC or SAE-C			Yes	SAE-C or smaller	N/A	N/A	P2	Parker - Pump & Power Div.
yes	no			Variable	75	4.58	320	4640	370	5365	3000	3000	120.0	163.2	225	59.2	2/4-Bolt C	SAE-CC or SAE-C			Yes	SAE-C or smaller	N/A	N/A	P3	Parker - Pump & Power Div.



Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
No	Yes	Axial piston	Variable, Single/ Tandem	75	4.6	420	6000	480	7000	3600	3950	199	267	270	71	C	21 teeth 16/32, 14 teeth 12/24, 23 teeth 16/32	31.14, 37.59	1.226, 1.48	A, BB, B, C	-	14, 17, 20	0.85, 1.03, 1.22	P90 75	Poclain Hydraulics
no	yes	HPV075	Axial Piston Variable Displacement	75.9	4.63	450	6525	500	7250	3400	3600	185	248	258.3	68.1	C	SAE C	31.22	1.229	A,B,C	ANSI 18T	22.5	1.37	2	Linde Hydraulics
yes	no	HPR075	Axial Piston, Self-Regulating	75.9	4.63	420	6090	500	7250	2500	2500	132.8	178.1	189.8	49.3	C	SAE C	31.22	1.229	A,B,C	ANSI 18T	-	-	2	Linde Hydraulics
No	Yes	Axial Piston	Variable Displacement	78	4.77	450	6525	480	6960	3500	4000	245	328	245	54	4-bolt flange	14T, 21T, 23T, Tapered			A, B, C	NA	14; 17	0.85; 1.04	H1P	Danfoss
yes	no	Axial piston	single	80	4.88	250	3625	320	4640	2400	2400	86.7 - 87.9	116.3 - 117.9	174.9 - 206.9	46.2 - 54.7	SAE C - 2 & 4 bolt	SAE 14T	31.4	1.24	SAE A, SAE B, SAE C	SAE 9T, SAE 13T, SAE 14T			HP A6	Bondoli & Pavesi
Yes	No	Axial piston	Single	80	4.88	210	3046	250	3626	2500	3600 max. standby	61.7	82.7	200.0	52.8	2 Bolt B, 2/4 Bolt-C, 2 Bolt-C	SAE- 13T, 14T, 15T, Straight, Tapered	22.2, 25.4, 31.75	0.88, 0.985, 1.00, 1.25	2 Bolt A, B (Dual Orientation)	SAE -9T, 11T, 13T, 15T, 26T	NA	NA	420	Eaton
Yes		PVX580-CKXXX	Axial Piston	80	5	276	4000	345	5000	1,800	2800	189.7	141.5	147.6	39	C 2 & 4	C KEYED	31.75	1.25		C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX580-CKASA	Axial Piston	80	5	276	4000	345	5000	1,800	2800	189.7	141.5	147.6	39	C 2 & 4	C KEYED	31.75	1.25			n/a	n/a	PVX	Hartmann Controls
Yes		PVX580-CKASA	Axial Piston	80	5	276	4000	345	5000	1,800	2800	189.7	141.5	147.6	39	C 2 & 4	C KEYED	31.75	1.25		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX580-CKABA	Axial Piston	80	5	276	4000	345	5000	1,800	2800	189.7	141.5	147.6	39	C 2 & 4	C KEYED	31.75	1.25		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX580-CKABA	Axial Piston	80	5	276	4000	345	5000	1,800	2800	189.7	141.5	147.6	39	C 2 & 4	C KEYED	31.75	1.25		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX580-CKBSB	Axial Piston	80	5	276	4000	345	5000	1,800	2800	189.7	141.5	147.6	39	C 2 & 4	C KEYED	31.75	1.25		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX580-CKBSB	Axial Piston	80	5	276	4000	345	5000	1,800	2800	189.7	141.5	147.6	39	C 2 & 4	C KEYED	31.75	1.25		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX580-CKCSC	Axial Piston	80	5	276	4000	345	5000	1,800	2800	189.7	141.5	147.6	39	C 2 & 4	C KEYED	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX580-CKCSC	Axial Piston	80	5	276	4000	345	5000	1,800	2800	189.7	141.5	147.6	39	C 2 & 4	C KEYED	31.75	1.25		C SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX580-CSCCKC	Axial Piston	80	5	276	4000	345		1,800	2800	189.7	141.5	147.6	39	C 2 & 4	C SPLINE	31.75	1.25		C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes	No	Axial Piston	Single	80	4.88	320	4600	350	5075	2700	3250	114.2	153.1	216.0	57.0	SAE	SAE			yes	SAE	n/a	n/a	K3VL	Kawasaki
Yes	No	Axial Piston	double	80 x 2	4.88x2	343	4970	392	5680	2460	3000	224.9	301.5	393.6	104.0	metric	ISO			yes	SAE	n/a	n/a	K5V	Kawasaki
yes	no	gear	single	80.5	4.91	230	3335	300	4350	3000	3000	65.83 - 96.87	88.28 - 129.9	149.94 - 244.23	39.61 - 64.52	SAE C - 2 & 4 bolt	SAE C 14T	31.2	1.228					HPG Group 4	Bondoli & Pavesi
no	yes	C081	Variable axial piston	81	4.94	420	6090	450	6525	3400	3600	203	272	275	73	2/4 Bolt C	32-4 SAE C, 21T 16/32 DP			Yes	SAE-C or smaller	27	1.65	C Series	Parker - Pump & Power Div.
Yes	No	Fixed Gear	Single/Tandem/ Multiple	81.4	4.97	207	3000	207	3000	2500	2500	Consult Factory	Consult Factory	196.8	52	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	D	Geartek
Yes	No	Fixed Gear	Single/Tandem/ Multiple	81.4	4.97	276	4000	276	4000	2500	2500	Consult Factory	Consult Factory	196.8	52	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	HD	Geartek
Yes	No	Fixed Gear	Hi-Lo Pump	81.4	4.97	207	3000	207	3000	2500	2500	Consult Factory	Consult Factory	196.8	52	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	SLD	Geartek
no	yes	Axial piston	single	82	5	320	4640	380	5510	3000	3000	132.3 - 201.1	177.4 - 269.7	245.8 - 373.6	64.9 - 98.7	SAE C - 2 & 4 bolt	SAE 14T SAE 21T SAE 23T SAE 13T	31.4 34.5 37.6 43.7	1.24 1.36 1.48 1.72	SAE A, SAE B, SAE BB, SAE C	SAE 9T, SAE 13T, SAE 15T, SAE 21T	18	1.10	HP P7	Bondoli & Pavesi
no	yes	Axial piston	single	82	5	380	5510	420	6090	3300	3300	141.2 - 160.9	189.4 - 215.7	237.4 - 270.4	62.7 - 71.4	SAE C - 2 bolt	SAE 21T	34.5	1.36	SAE A, SAE B, SAE C	SAE 9T, SAE 13T, SAE 14T	16	0.98	M6 PV	Bondoli & Pavesi
no	yes	Axial piston	single	82	5	400	5800	450	6525	3000	3000	156.7 - 238.1	210.1 - 319.3	245.8 - 373.6	64.9 - 98.7	SAE C - 2 & 4 bolt	SAE 14T SAE 21T SAE 23T SAE 13T	31.4 34.5 37.6 43.7	1.24 1.36 1.48 1.72	SAE A, SAE B, SAE BB, SAE C	SAE 9T, SAE 13T, SAE 15T, SAE 21T	18	1.10	HP P8	Bondoli & Pavesi
Yes	No	Fixed / bent axis	Single	83.6	5.1	400	5800	420	6000	1500/1600	2000/2200	21	28	125/134	-	SAE	Various	Various	Various	n/a	Various	n/a	n/a	K60N	HAWE Hydraulics
Yes	No	Axial Piston	Single	85	5.19	280	4060	350	5075	2500		99.2	133.0	212.5	56.2	SAE	SAE			yes	SAE	n/a	n/a	K3VLS	Kawasaki
No	Yes	Axial piston	Variable, Single/ Tandem	85.2	5.2	450	6527	500	7252	3650	3850	223	299	170	44.91	C	21 teeth 16/32, 23 teeth 16/32, 13 teeth 8/16, 14 teeth 12/24	34.925, 38.1, 44.45, 31.75	1.375, 1.50, 1.750, 1.25	A, B, BB, C	-	17, 22	1.04, 1.34	PW-85	Poclain Hydraulics
yes	no	gear	single	88	5.37	110	1595	170	2465	2500	2500	28.28 - 52.97	37.92 - 71.03	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.806	0.98 0.55 0.787 0.874 0.846 0.859					HPL Group 3	Bondoli & Pavesi
yes	no	gear	single	88	5.37	120	1740	170	2465	2500	2500	52.85 - 52.97	70.87 - 71.03	124.39 - 220.01	32.86 - 58.12		Tapered (1:8) European Parallel DIN 5482 Splined	16 22 24.5	0.63 0.866 0.965					HPL Group 4	Bondoli & Pavesi

Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company	
Open Loop	Closed Loop			cm³/rev	in³/rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm³/rev	in³/rev			
yes	no	gear	single	88	5.37	180	2610	200	2900	2500	2500	28.28 - 62.32	37.92 - 83.57	64.39 - 220.01	17.01 - 58.12	SAE B	SAE BB 15T Tapered (1:8) European Parallel SAE B Parallel DIN 5482 Splined SAE B 13T	25 14 20 22.2 21.5 21.81	0.98 0.55 0.787 0.874 0.846 0.86					HPG Group 3	Bondioli & Pavesi	
No	Yes	Axial Piston	Variable Displacement	89	5.44	450	6525	480	6960	3300	3800	300	403	264	58	4-bolt flange	14T, 21T, 23T, 13T, 17T, Tapered			A, B, C	NA	20; 24	1,22; 1,46	H1P	Danfoss	
No	Yes	Axial piston	Single	89.13	5.43	420	6000	480	7000	NA	3720	232	311	331.6	87.6	4-Bolt-C, D	SAE-14T, 19T, 20T, 21T, 23T, Straight, Tapered	38.1	1.5	2-Bolt A, 4-Bolt B	SAE-9T, 11T, 13T	13.9, 17.4, 21.0, 27.9, 34.7	0.85, 1.06, 1.28, 1.70, 2.12	Series 1	Eaton	
No	Yes	Axial piston	Single	89.13	5.43	430	6250	500	7250	NA	3720	238	319	331.6	87.6	4-Bolt-C	SAE-13T, 21T, 23T, Tapered			Dual 2-Bolt A & B 4-Bolt-C	SAE-9T, 11T, 13T, 14T, 15T, 27T	13.9, 17.4, 21.0, 27.9, 34.7	0.85, 1.06, 1.28, 1.70, 2.12	Series 2	Eaton	
yes	no	Axial piston	single	90	5.49	250	3625	300	4350	2300	2300	86.7 - 87.9	116.3 - 117.9	174.9 - 206.9	46.2 - 54.7	SAE C - 2 & 4 bolt	SAE 14T	31.4	1.24	SAE A, SAE B, SAE C	SAE 9T, SAE 13T, SAE 14T			HP A6	Bondioli & Pavesi	
no	yes	Axial Piston	single	90	5.49	400	5800	450	6500	3050	3050	183	245	275	72.5	2&4 bolt	n/a	n/a	n/a	n/a	splined	19.6	1.2	AA4VG series 32	Bosch Rexroth	
Yes	No	Axial piston / variable	single / tandem	90	5.49	350	5000	400	5800	2500	3000	283	211	225	59.5	4 bolt SAE C & DIN Truck Mount	Various	Various	Various	Yes SAE A-C	Varios	n/a	n/a	V60N	HAWE Hydraulics	
No	Yes	Axial Piston	Single	90	5.49	400	5800	450	6530	3050		182.9	245.3	274.5	72.5	SAE	SAE			yes	SAE	28	1.71	K8V	Kawasaki	
Yes	No	Axial Piston	Variable displacement	90	5.49	260	3770	350	5075	2200	2600	151.37	203.39	52.3	198	2-Bolt B, 2-Bolt C, 4-Bolt C	14T, 17T, Keyed	Spline: 31,38- Keyed:31.75	Spline: 1.23, 1.5- Keyed: 1.25	SAE A,B,BB,C	9T,11T,13T, 15T	N/A	N/A	Series 45	Danfoss	
yes	no	gear	single	90.5	5.52	210	3045	280	4060	2700	2700	65.83 - 96.87	88.28 - 129.9	149.94 - 244.23	39.61 - 64.52	SAE C - 2 & 4 bolt	SAE C 14T	31.2	1.228					HPG Group 4	Bondioli & Pavesi	
yes	no	Fixed Gear Pump	External	93	5.673	150	2100	170	2400	500	2000	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2-Bolt B	13T 16/32 Spline; 3/4" Keyed; 1:8 Tapered	19.05	0.75	N/A	N/A	N/A	N/A	AP300	Bucher Hydraulics, Inc.	
yes	no	Axial Piston	single	93.5	5.71	350	5100	400	5800	2350	2780	128	171.7	220	58.1	4 bolt	n/a	n/a	n/a	n/a	splined and cylindrical w/key	130-260	7.93-15.87	AA11VO series 10/11	Bosch Rexroth	
Yes	No	Axial piston / variable	single / tandem	95	5.79	350	5000	420	6000	2500	2900	360	480	142	46.5	4 bolt SAE C & D	Various	Various	Various	Yes SAE A -D	Various	n/a	n/a	V30E	HAWE Hydraulics	
yes	no	VP1-095	Variable axial piston	95	5.79	400	5800	420	6090	1750	3000	39	52	166	44	4 Bolt SAE C	32-4 SAE C			no	N/A	N/A	N/A	VP1	Parker - Pump & Power Div.	
Yes		PVX696-CKXXX	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C KEYED	31.75	1.25			n/a	n/a	PVX	Hartmann Controls	
Yes		PVX696-CKAKA	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C KEYED	31.75	1.25			A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX696-CKAKA	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C KEYED	31.75	1.25			A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX696-CKBAA	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C KEYED	31.75	1.25			A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX696-CKBAA	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C KEYED	31.75	1.25			A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX696-CKBKB	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C KEYED	31.75	1.25			B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX696-CKBKB	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C KEYED	31.75	1.25			B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX696-CKCKC	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C KEYED	31.75	1.25			C SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX696-CKCKC	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C KEYED	31.75	1.25			C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX696-KCASA	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C-C KEYED	38.1	1.5			n/a	n/a	PVX	Hartmann Controls	
Yes		PVX696-KCASA	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C-C KEYED	38.1	1.5			A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX696-KCABA	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C-C KEYED	38.1	1.5			A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX696-KCABA	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C-C KEYED	38.1	1.5			A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX696-KCBSB	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C-C KEYED	38.1	1.5			A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX696-KCBSB	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C-C KEYED	38.1	1.5			B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX696-KCCSC	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C-C KEYED	38.1	1.5			B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX696-KCCSC	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C-C KEYED	38.1	1.5			C SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX696-CCCKC	Axial Piston	96	6	241	3500	293	4250	1,800	2300	163.6	122.0	177	46.8	C 2 & 4	C-C SPLINE	38.1	1.5			C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes	No	Axial piston / variable	single / tandem	96	5.86	350	5000	420	6000	2200	2900	360	480	139	45.7	4 bolt SAE C & D	Various	Various	Various	Yes SAE A -D	Various	n/a	n/a	V30D	HAWE Hydraulics	
No	Yes	Axial piston	Variable, Single/ Tandem	96.4	5.88	400	5802	450	6527	3650	3850	223	299	192	50.72	C	21 teeth 16/32, 23 teeth 16/32, 13 teeth 8/16, 14 teeth 12/24	34.925, 38.1, 44.45, 31.75	1.375, 1.50, 1.750, 1.25	A, B, BB, C	-	17, 22	1.04, 1.34	PW-96	Poclain Hydraulics	
Yes	No	Fixed Gear	Single/Tandem/ Multiple	97.6	5.96	172	2500	172	2500	2500	2500	Consult Factory	Consult Factory	236.6	62.5	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	D	Geartek	
Yes	No	Fixed Gear	Single/Tandem/ Multiple	97.6	5.96	228	3300	228	3300	2500	2500	Consult Factory	Consult Factory	236.6	62.5	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	HD	Geartek	

Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
Yes	No	Fixed Gear	Hi-Lo Pump	97.6	5.96	172	2500	172	2500	2500	2500	Consult Factory	Consult Factory	236.6	62.5	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	SLD	Geartek
Yes	No	Axial piston	Single	98	5.98	280	4061	350	5076	2200	3000 max. standby	100.6	134.9	215.6	57.0	2/4-Bolt C, 4 Bolt C	SAE -14T, 17T, Straight, Tapered	31.75, 38.1	1.25, 1.5	2 Bolt A, 2/4 Bolt B & C	SAE 9T, 11T, 13T, 14T, 15T, 17T	NA	NA	620	Eaton
Yes	No	Fixed Gear	Single/Tandem/Multiple	98	5.98	276	4000	276	4000	2500	2500	Consult Factory	Consult Factory	236.6	62.5	C/D	C/Spline/Straight/Custom	N/A	1.25/1.5	N/A	N/A	N/A	N/A	E	Geartek
yes	yes	P6	Fixed or Variable Axial Piston	98.3	6.00	350	5075	420	6090	3000	3000	172.0	234.0	294.9	77.6	2-Bolt C or 4-Bolt D	32-4 C or 44-4 D			Yes	SAE-C or smaller	17.5	1.068	Gold Cup	Parker - Pump & Power Div.
yes	yes	P6	Fixed or Variable Axial Piston	98.3	6.00	350	5075	420	6090	3000	3000	172.0	234.0	294.9	77.6	2-Bolt C or 4-Bolt D	32-4 C or 44-4 D			Yes	SAE-C or smaller	17.5	1.068	Gold Cup	Parker - Pump & Power Div.
no	yes	Axial piston	single	100	6.1	320	4640	380	5510	3000	3000	132.3 - 201.1	177.4 - 269.7	245.8 - 373.6	64.9 - 98.7	SAE C - 2 & 4 bolt	SAE 14T SAE 21T SAE 23T SAE 13T	31.4 34.5 37.6 43.7	1.24 1.36 1.48 1.72	SAE A, SAE B, SAE BB, SAE C	SAE 9T, SAE 13T, SAE 15T, SAE 21T	18	1.10	HP P7	Bondioli & Pavesi
no	yes	Axial piston	single	100	6.1	400	5800	450	6525	3000	3000	156.7 - 238.1	210.1 - 319.3	245.8 - 373.6	64.9 - 98.7	SAE C - 2 & 4 bolt	SAE 14T SAE 21T SAE 23T SAE 13T	31.4 34.5 37.6 43.7	1.24 1.36 1.48 1.72	SAE A, SAE B, SAE BB, SAE C	SAE 9T, SAE 13T, SAE 15T, SAE 21T	18	1.10	HP P8	Bondioli & Pavesi
yes	no	Axial Piston	single	100	6.1	280	4000	350	5100	2300	2400	107	142	180	47.6	2 bolt	n/a	n/a	n/a	n/a	keyed and splined	n/a	n/a	(A)A10VSO series 31	Bosch Rexroth
No	Yes	Axial Piston	Variable Displacement	100	6.21	450	6525	480	6960	3300	3800	337	452	297	65	4-bolt flange	14T, 21T, 23T, 13T, 17T, Tapered			A, B, C	NA	20; 24	1,22; 1,46	H1P	Danfoss
No	Yes	Axial Piston	Variable Displacement	100	6.1	450	6252	480	6960	3300	3650	324	435	297	65	4-bolt flange	21T, 23T, 23T, 13T 14T, Tapered			A, B, C	NA	17; 20; 26	1,04; 1,22; 1,59	Series 90 Pump	Danfoss
Yes	No	Axial Piston	Variable displacement	100	6.1	310	4495	400	5800	2450	2880	213.33	286.08	64.7	245	4-Bolt C	1.5 Straght Keyed, 13T, 14T, 17T	Spline: 31,37,44-Keyed:38.08	Spline:1.2, 1.4, 1.7-Keyed: 1.5	SAE A,B,BB,C, CC	9T,11T,13T, 15T, 17T	N/A	N/A	Series 45	Danfoss
yes	no		Variable	100	6.10	280	4060	350	5075	2500	2500	116.7	158.7	250	65.8	2/4-Bolt C	SAE-CC or SAE-C			Yes	SAE-CC or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
yes	no	T6C	Fixed Vane	100	6.10	240	3480	275	3987.5	2800	2800	112.0	152.3	280	73.7	2-Bolt B	SAE-B or SAE-BB			See T6'R pumps	See T6'R pumps	N/A	N/A	T6 Series	Parker - Pump & Power Div.
yes	no	T6CM	Fixed Vane	100	6.10	240	3480	275	3988	2800	2800	112.0	152.3	280	73.7	2-Bolt B	SAE-B or SAE-BB			See T6'R pumps	See T6'R pumps	N/A	N/A	T6 Series	Parker - Pump & Power Div.
yes	no		Variable	100	6.10	280	4060	350	5075	2500	2500	116.7	158.7	250	65.8	2/4-Bolt C	SAE-CC or SAE-C			Yes	SAE-CC or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
yes	no	T6C	Fixed Vane	100	6.10	240	3480	275	3987.5	2800	2800	112.0	152.3	280	73.7	2-Bolt B	SAE-B or SAE-BB			See T6'R pumps	See T6'R pumps	N/A	N/A	T6 Series	Parker - Pump & Power Div.
yes	no	T6CM	Fixed Vane	100	6.10	240	3480	275	3988	2800	2800	112.0	152.3	280	73.7	2-Bolt B	SAE-B or SAE-BB			See T6'R pumps	See T6'R pumps	N/A	N/A	T6 Series	Parker - Pump & Power Div.
yes	no		Variable	100	6.10	280	4060	350	5075	2500	2500	116.7	158.7	250	65.8	2/4-Bolt C	SAE-CC or SAE-C			Yes	SAE-CC or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
No	Yes	Axial piston	Variable, Single/ Tandem	100	6.1	420	6000	480	7000	3300	3650	226	304	330	87	C	21 teeth 16/32, 14 teeth 12/24, 23 teeth 16/32, 13 teeth 8/16	31.14, 37.59, 43.94	1.226, 1.48, 1.73	A, BB, B, C	-	17, 20, 26	1.03, 1.22, 1.58	P90 100	Poclair Hydraulics
Yes	No	Axial piston	Single	105.00	6.4	420	6091	500	7252	NA	2350	173	232	246.8	65.2	2 Bolt-C**, SAE 3 Bell Housing	SAE- 17T, 23T			SAE-A, B, C pad	SAE-9T, 13T, 14T, 15T, 21T, 23T	NA	NA	HPR	Eaton
No	Yes	Axial piston	Single	105.00	6.4	420	6091	500	7252	2900	3200	206	276	336.0	88.8	2 Bolt-C**	SAE-14T, 17T, 23T	31.22, 37.68, 37.68	1.23, 1.48, 1.48	SAE-A, B, C pad	SAE-9T, 11T, 13T, 14T, 15T, 21T, 23T	16, 22.5, 31, 32, 38.6, 45	0.97, 1.37, 1.89, 1.95, 2.35, 2.75	HPV	Eaton
No	Yes	Axial piston	Single	105.00	6.44	420	6000	480	7000	NA	3720	275	369	390.6	103.2	4-Bolt-C, D	SAE-14T, 19T, 20T, 21T, 23T, Straight, Tapered	38.1	1.5	2-Bolt A, 4-Bolt B	SAE-9T, 11T, 13T	13.9, 17.4, 21.0, 27.9, 34.7	0.85, 1.06, 1.28, 1.70, 2.12	Series 1	Eaton
No	Yes	Axial piston	Single	105.00	6.43	430	6250	500	7250	NA	3720	281	377	390.6	103.2	4-Bolt-C	SAE-13T, 21T, 23T, Straight Tapered	44.45	1.75	Dual 2-Bolt A & B 4-Bolt-C	SAE-9T, 11T, 13T, 14T, 15T, 27T	13.9, 17.4, 21.0, 27.9, 34.7	0.85, 1.06, 1.28, 1.70, 2.12	Series 2	Eaton
Yes	No	Axial Piston	Single	105	6.41	280	4060	350	5075	2300		112.7	151.2	241.5	63.8	SAE	SAE			yes	SAE	n/a	n/a	K3VLS	Kawasaki
no	yes	HPV105	Axial Piston Variable Displacement	105	6.41	450	6525	500	7250	3200	3400	241	323	336.5	88.8	C	SAE C	31.22	1.229	A,B,C	ANSI 19T	22.5	1.37	2	Linde Hydraulics
yes	no	HPR105	Axial Piston, Self-Regulating	105	6.41	420	6090	500	7250	2350	2350	172.7	231.6	246.8	64.2	C	SAE C	31.22	1.229	A,B,C	ANSI 19T	-	-	2	Linde Hydraulics
yes	no		Variable	105	6.41	350	5075	370	5365	2300	2300	140.9	191.6	241.5	63.6	2/4-Bolt C	SAE-D, SAE-CC, or SAE-C			Yes	SAE-D or smaller	N/A	N/A	P2	Parker - Pump & Power Div.



Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company	
Open Loop	Closed Loop			cm³/rev	in³/rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm³/rev	in³/rev			
yes	no		Variable	105	6.41	350	5075	370	5365	2600	2600	159.3	216.6	273	71.8	2/4-Bolt C	SAE-D, SAE-CC, or SAE-C			Yes	SAE-D or smaller	N/A	N/A	P3	Parker - Pump & Power Div.	
yes	no		Variable	105	6.41	350	5075	370	5365	2300	2300	140.9	191.6	241.5	63.6	2/4-Bolt C	SAE-D, SAE-CC, or SAE-C			Yes	SAE-D or smaller	N/A	N/A	P2	Parker - Pump & Power Div.	
yes	no		Variable	105	6.41	350	5075	370	5365	2600	2600	159.3	216.6	273	71.8	2/4-Bolt C	SAE-D, SAE-CC, or SAE-C			Yes	SAE-D or smaller	N/A	N/A	P3	Parker - Pump & Power Div.	
yes	no		Variable	105	6.41	350	5075	370	5365	2300	2300	140.9	191.6	241.5	63.6	2/4-Bolt C	SAE-D, SAE-CC, or SAE-C			Yes	SAE-D or smaller	N/A	N/A	P2	Parker - Pump & Power Div.	
yes	no		Variable	105	6.41	350	5075	370	5365	2600	2600	159.3	216.6	273	71.8	2/4-Bolt C	SAE-D, SAE-CC, or SAE-C			Yes	SAE-D or smaller	N/A	N/A	P3	Parker - Pump & Power Div.	
yes	no	HPR105D	Axial Piston, Self-Regulating	105 x 2	6.41 x 2	420	6090	500	7250	2450	2450	319.4	428.3	514.5	133.8	C	ANSI B92.1,16/32 23T	37.68	1.483	Consult Factory	Consult Factory	-	-	2	Linde Hydraulics	
No	Yes		Axial piston	2X 105	12.8	420	6091	500	7252	NA	2350	307	411	2X 246.8	2X 65.2	2 Bolt-C**	23T			2-Bolt A, B	SAE-9T, 11T, 13T, 15T	NA	NA	HPR105D Double Pump	Eaton	
Yes	No		Fixed / bent axis	Single	108	6.59	400	5800	420	6000	1500/1900	2000/2300	21	28	162/205	-	SAE	Various	Various	Various	n/a	Various	n/a	n/a	K60N	HAWE Hydraulics
Yes	No		Axial piston / variable	single / tandem	110	6.71	350	5000	400	5800	2500	3000	283	211	275	72.8	4 bolt SAE C & DIN Truck Mount	Various	Various	Various	Yes SAE A-C	Various	n/a	n/a	V60N	HAWE Hydraulics
yes	no		VP1-110	Variable axial piston	110	6.71	400	5800	420	6090	1500	3000	57	76	165	44	4 Bolt SAE C	32-4 SAE C			no	N/A	N/A	N/A	VP1	Parker - Pump & Power Div.
Yes			PVX7112-CKXXX	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C KEYED	31.75	1.25		C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-CKAKA	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C KEYED	31.75	1.25		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-CKAKA	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C KEYED	31.75	1.25		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-CKBAA	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C KEYED	31.75	1.25		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-CKBAA	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C KEYED	31.75	1.25		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-CKBKB	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C KEYED	31.75	1.25		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-CKBKB	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C KEYED	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-CKCKC	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C KEYED	31.75	1.25		C SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-CKCKC	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C KEYED	31.75	1.25		C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-KCASA	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C-C KEYED	38.1	1.5			n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-KCASA	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C-C KEYED	38.1	1.5		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-KCABA	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C-C KEYED	38.1	1.5		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-KCABA	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C-C KEYED	38.1	1.5		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-KCBSB	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C-C KEYED	38.1	1.5		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-KCBSB	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C-C KEYED	38.1	1.5		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-KCCSC	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C-C KEYED	38.1	1.5		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-KCCSC	Axial Piston	112	7	241	3500	293	4250	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C-C KEYED	38.1	1.5		C SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes			PVX7112-CCCKC	Axial Piston	112	7	241	3500	293	4500	1,800	2200	182.6	136.1	206	54.5	C 2 & 4	C-C SPLINE	38.1	1.5		C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes	No		Axial Piston	Single	112	6.83	320	4600	350	5075	2700	3250	159.8	214.2	302.4	79.8	SAE	SAE			yes	SAE	n/a	n/a	K3VL	Kawasaki
Yes	No		Axial Piston	Single	112	6.83	350	5075	400	5800	2200	2700	143.6	192.6	246.4	65.0	metric	ISO			yes	SAE	n/a	n/a	K3VG	Kawasaki
Yes	No		Axial piston	Back to Back	2X 112	6.83	345	5000	385	5584	2360	2460	125	168	2X 275.5	2X 72.8	Non Standard (Pilot ø 160 mm)	14T			NA	NA	10	0.61	JPVB Back to Back	Eaton
Yes	No		Axial Piston	double	112 x 2	6.83x2	343	4970	392	5680	2360	2700	302.0	405.0	528.6	139.7	metric	ISO			yes	SAE	n/a	n/a	K3V	Kawasaki
Yes	No		Fixed Gear	Single/Tandem/Multiple	113.5	6.93	276	4000	276	4000	2500	2500	Consult Factory	Consult Factory	276.3	73	C/D	C/Spline/Straight/Custom	N/A	1.25/1.5	N/A	N/A	N/A	N/A	E	Geartek
Yes	No		Fixed Gear	Single/Tandem/Multiple	113.9	6.95	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2500	2500	Consult Factory	Consult Factory	276.3	73	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	D	Geartek
Yes	No		Fixed Gear	Single/Tandem/Multiple	113.9	6.95	200	2900	200	2900	2500	2500	Consult Factory	Consult Factory	276.3	73	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	HD	Geartek
Yes	No		Fixed Gear	Hi-Lo Pump	113.9	6.95	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2500	2500	Consult Factory	Consult Factory	276.3	73	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	SLD	Geartek
Yes	No		Axial piston / variable	single / tandem	115	7.02	250	3600	300	4300	2000	2800	360	480	167	54.7	4 bolt SAE C & D	Various	Various	Various	Yes SAE A -D	Various	n/a	n/a	V30D	HAWE Hydraulics
No	Yes		Axial Piston	Variable Displacement	115	7.03	450	6525	480	6960	3200	3400	347	466	331	72	4-bolt flange	13T, 27 T Tapered			A, B, C, D	NA	26; 34	1,59; 2,07	H1P	Danfoss



Open Loop	Closed Loop	Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
				cm³/rev	in³/rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm³/rev	in³/rev		
No	Yes	Axial Piston	Variable Displacement	130	7.93	450	6252	480	6960	3100	3400	392	526	362	80	4-bolt flange	27T, 13T, 14T, Tapered			A, B, C, D	NA	26; 34	1.59; 2.07	Series 90 Pump	Danfoss
Yes	No	Axial Piston	Variable displacement	130	7.93	310	4495	400	5800	2200	2600	250.37	335.75	75.5	286	4-Bolt C	1.5 Straght Keyed, 13T, 14T, 17T	Spline: 31,37,44- Keyed:38.08	Spline:1.2, 1.4, 1.7- Keyed: 1.5	SAE A,B,BB,C, CC	9T,11T,13T, 15T, 17T	N/A	N/A	Series 45	Danfoss
No	Yes	Axial piston	Variable, Single/ Tandem	130	7.91	420	6000	480	7000	3100	3400	297	398	403	106	D	27 teeth 16/32, 13 teeth 8/16	43.89, 44.35	1.73, 1.75	A, BB, B, C, D	-	26, 34	1.58, 2.07	P90 130	Poclain Hydraulics
Yes	No	Fixed Gear	Single/Tandem/ Multiple	130.2	7.95	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2500	2500	Consult Factory	Consult Factory	314.2	83	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	D	Geartek
Yes	No	Fixed Gear	Single/Tandem/ Multiple	130.2	7.95	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2500	2500	Consult Factory	Consult Factory	314.2	83	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	HD	Geartek
Yes	No	Fixed Gear	Hi-Lo Pump	130.2	7.95	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2500	2500	Consult Factory	Consult Factory	314.2	83	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	SLD	Geartek
Yes	No	Axial piston	Single	131	8	315	4568	350	5076	2000	2200 max. standby	122	164	262.0	69.2	SAE- 2 Bolt C, 2/4 Bolt C, 4-Bolt D, 4 Bolt C  ISO-125-A2HW, 125-B4HW, 160-B4HW	SAE- 14T, 17T, 13T(D),  Straight, Tapered - SAE-C, CC, D,  ISO-E32N, E40N.	31.75, 38.1, 44.5	1.25, 1.5, 1.75	SAE- 2 Bolt A, 2/4 Bolt B, C,  ISO-80-A2HW, 100-A2/B4HW, 125-A2/B4HW	SAE -9T, 11T, 13T, 14T, 15T, 17T, 17T, straight key 22, 25, 32mm	NA	NA	PVM	Eaton
yes	yes	P8	Fixed or Variable Axial Piston	131.1	8.00	350	5075	350	5075	2700	2700	206.5	280.8	353.97	93.2	2-Bolt C or 4-Bolt D	32-4 C or 44-4 D			Yes	SAE-C or smaller	17.5	1.068	Gold Cup	Parker - Pump & Power Div.
yes	yes	P8	Fixed or Variable Axial Piston	131.1	8.00	350	5075	350	5075	2700	2700	206.5	280.8	353.97	93.2	2-Bolt C or 4-Bolt D	32-4 C or 44-4 D			Yes	SAE-C or smaller	17.5	1.068	Gold Cup	Parker - Pump & Power Div.
Yes	No	Axial piston	Single	135.00	8.27	420	6091	500	7252	NA	2300	219	294	310.5	82.0	2 Bolt-D**, SAE 3 Bell Housing	SAE-13T, 17T, 27T			SAE-A, B, C, D pad	SAE-9T, 13T, 14T, 15T, 17T, 21T, 23T, 27T	NA	NA	HPR	Eaton
No	Yes	Axial piston	Single	135.00	8.28	420	6091	500	7252	2700	2900	247	331	391.5	103.4	2 Bolt- D**	SAE-13T, 17T, 27T	43.71, 37.68, 44.05	1.72, 1.48, 1.73	SAE-A, B, C, D pad	SAE-9T, 13T, 14T, 15T, 17T, 27T	16, 22.5, 31, 32, 38.6, 45	0.97, 1.37, 1.89, 1.95, 2.35, 2.75	HPV	Eaton
no	yes	HPV135	Axial Piston Variable Displacement	135.7	8.27	450	6525	500	7250	3000	3200	292	392	407.1	107.4	D	SAE D	43.71	1.720	A,B,C,D	ANSI 21T	22.5	1.37	2	Linde Hydraulics
yes	no	HPR135	Axial Piston, Self-Regulating	135.7	8.27	420	6090	500	7250	2300	2300	218.5	293.0	312.1	81.1	D	SAE D	43.71	1.720	A,B,C,D	ANSI 21T	-	-	2	Linde Hydraulics
no	yes	C136	Variable axial piston	136	8.3	420	6090	450	6525	2850	3250	343	459	388	103	2/4Bolt D	44-4 SAE D-E, 50-4 SAE			Yes	SAE D or smaller	27	1.65	C Series	Parker - Pump & Power Div.
yes	no	Axial Piston	single	140	8.54	280	4000	350	5100	2050	2100	134	177	252	67	2 bolt	n/a	n/a	n/a	n/a	keyed and splined	n/a	n/a	(A)A10VSO series 31	Bosch Rexroth
Yes	No	Axial Piston	Single	140	8.54	320	4600	350	5075	2700	3250	199.8	267.9	378.0	99.8	SAE	SAE			yes	SAE	n/a	n/a	K3VL	Kawasaki
yes	no		Variable	140	8.54	280	4060	350	5075	2400	2400	156.8	213.2	336	88.4	4-Bolt D	SAE-D 13T			Yes	SAE-D or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
yes	no		Variable	140	8.54	280	4060	350	5075	2400	2400	156.8	213.2	336	88.4	4-Bolt D	SAE-D 13T			Yes	SAE-D or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
yes	no		Variable	140	8.54	280	4060	350	5075	2400	2400	156.8	213.2	336	88.4	4-Bolt D	SAE-D 13T			Yes	SAE-D or smaller	N/A	N/A	P1	Parker - Pump & Power Div.
Yes	No	Axial Piston	double	140 x 2	8.54x2	343	4970	392	5680	2150	2500	343.9	461.2	602.0	159.0	metric	ISO			yes	SAE	n/a	n/a	K3V	Kawasaki
Yes	No	Axial Piston	double	140 x 2	8.54x2	343	4970	392	5680	2160	2500	345.5	463.3	604.8	159.8	metric	ISO			yes	SAE	n/a	n/a	K5V	Kawasaki
Yes	No	Axial piston	Single	141	8.6	230	3336	280	4061	2000	2000	102	137	282.0	74.5	SAE- 2 Bolt C, 2/4 Bolt C, 4-Bolt D, 4 Bolt C  ISO-125-A2HW, 125-B4HW, 160-B4HW	SAE- 14T, 17T, 13T(D), Straight, Tapered - SAE-C, CC, D, ISO-E32N, E40N.	31.75, 38.1, 44.5	1.25, 1.5, 1.75	SAE- 2 Bolt A, 2/4 Bolt B, C,  ISO-80-A2HW, 100-A2/B4HW, 125-A2/B4HW	SAE -9T, 11T, 13T, 14T, 15T, 17T, straight key 22, 25, 32mm	NA	NA	PVM	Eaton
Yes	No	Axial piston / variable	single / tandem	142	8.66	350	5000	420	6000	2200	2600	360	480	206	67.6	4 bolt SAE C & D	Various	Various	Various	Yes SAE A -D	Various	n/a	n/a	V30D	HAWE Hydraulics
Yes		PVX9144-CKXXX	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C KEYED	31.75	1.25		C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-CKASA	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C KEYED	31.75	1.25			n/a	n/a	PVX	Hartmann Controls



Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
Yes		PVX9144-CKASA	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C KEYED	31.75	1.25		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-CKABA	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C KEYED	31.75	1.25		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-CKABA	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C KEYED	31.75	1.25		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-CKBSB	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C KEYED	31.75	1.25		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-CKBSB	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C KEYED	31.75	1.25		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-CKCSC	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C KEYED	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-CKCSC	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C KEYED	31.75	1.25		C SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-KCXXX	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C-C KEYED	38.1	1.5		C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-KCXXX	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C-C KEYED	38.1	1.5			n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-KCAKA	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C-C KEYED	38.1	1.5		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-KCAKA	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C-C KEYED	38.1	1.5		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-KCBAA	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C-C KEYED	38.1	1.5		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-KCBAA	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C-C KEYED	38.1	1.5		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-KCBKB	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C-C KEYED	38.1	1.5		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-KCBKB	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C-C KEYED	38.1	1.5		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-KCCKC	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C-C KEYED	38.1	1.5		C SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-KCCKC	Axial Piston	144	9	265	3850	310	4500	1,800	2100	246.4	183.8	265	70.1	C 2 & 4	C-C KEYED	38.1	1.5		C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-DKASA	Axial Piston	144	9	276	4000	310	4500	1,800	2200	268.3	200.1	265	70.1	D 4-BOLT	D KEYED	44.45	1.75			n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-DKASA	Axial Piston	144	9	276	4000	310	4500	1,800	2200	268.3	200.1	265	70.1	D 4-BOLT	D KEYED	44.45	1.75		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-DKABA	Axial Piston	144	9	276	4000	310	4500	1,800	2200	268.3	200.1	265	70.1	D 4-BOLT	D KEYED	44.45	1.75		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-DKABA	Axial Piston	144	9	276	4000	310	4500	1,800	2200	268.3	200.1	265	70.1	D 4-BOLT	D KEYED	44.45	1.75		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-DKBSB	Axial Piston	144	9	276	4000	310	4500	1,800	2200	268.3	200.1	265	70.1	D 4-BOLT	D KEYED	44.45	1.75		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-DKBSB	Axial Piston	144	9	276	4000	310	4500	1,800	2200	268.3	200.1	265	70.1	D 4-BOLT	D KEYED	44.45	1.75		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-DKCSC	Axial Piston	144	9	276	4000	310	4500	1,800	2200	268.3	200.1	265	70.1	D 4-BOLT	D KEYED	44.45	1.75		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-DKCSC	Axial Piston	144	9	276	4000	310	4500	1,800	2200	268.3	200.1	265	70.1	D 4-BOLT	D KEYED	44.45	1.75		C SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX9144-DSCKC	Axial Piston	144	9	276	4000	310	4500	1,800	2200	268.3	200.1	265	70.1	D 4-BOLT	D SPLINE	44.45	1.75		C KEYED	n/a	n/a	PVX	Hartmann Controls
yes	no	Axial Piston	single	145	8.84	350	5100	400	5800	2200	2500	186	249.4	319	84.3	4 bolt	n/a	n/a	n/a	n/a	splined and cylindrical w/key	145	8.84	AA11VO series 10/11	Bosch Rexroth
yes	no		Variable	145	8.85	350	5075	370	5365	2200	2200	186.1	253.1	319	83.9	2/4-Bolt C or 4-Bolt D	SAE-D, SAE-CC, or SAE-C			Yes	SAE-D or smaller	N/A	N/A	P2	Parker - Pump & Power Div.
yes	no		Variable	145	8.85	350	5075	370	5365	2500	2500	211.5	287.6	362.5	95.4	2/4-Bolt C or 4-Bolt D	SAE-D, SAE-CC, or SAE-C			Yes	SAE-D or smaller	N/A	N/A	P3	Parker - Pump & Power Div.
yes	no		Variable	145	8.85	350	5075	370	5365	2200	2200	186.1	253.1	319	83.9	2/4-Bolt C or 4-Bolt D	SAE-D, SAE-CC, or SAE-C			Yes	SAE-D or smaller	N/A	N/A	P2	Parker - Pump & Power Div.
yes	no		Variable	145	8.85	350	5075	370	5365	2500	2500	211.5	287.6	362.5	95.4	2/4-Bolt C or 4-Bolt D	SAE-D, SAE-CC, or SAE-C			Yes	SAE-D or smaller	N/A	N/A	P3	Parker - Pump & Power Div.
yes	no		Variable	145	8.85	350	5075	370	5365	2200	2200	186.1	253.1	319	83.9	2/4-Bolt C or 4-Bolt D	SAE-D, SAE-CC, or SAE-C			Yes	SAE-D or smaller	N/A	N/A	P2	Parker - Pump & Power Div.
yes	no		Variable	145	8.85	350	5075	370	5365	2500	2500	211.5	287.6	362.5	95.4	2/4-Bolt C or 4-Bolt D	SAE-D, SAE-CC, or SAE-C			Yes	SAE-D or smaller	N/A	N/A	P3	Parker - Pump & Power Div.
Yes	No	Fixed Gear	Single/Tandem/Multiple	146.2	8.92	276	4000	276	4000	2500	2500	Consult Factory	Consult Factory	354.7	93.7	C/D	C/Spline/Straight/Custom	N/A	1.25/1.5	N/A	N/A	N/A	N/A	E	Geartek
Yes	No	Fixed Gear	Single/Tandem/Multiple	146.5	8.94	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2500	2500	Consult Factory	Consult Factory	355.8	94	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	D	Geartek
Yes	No	Fixed Gear	Single/Tandem/Multiple	146.5	8.94	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2500	2500	Consult Factory	Consult Factory	355.8	94	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	HD	Geartek
Yes	No	Fixed Gear	Hi-Lo Pump	146.5	8.94	Consult Factory	Consult Factory	Consult Factory	Consult Factory	2500	2500	Consult Factory	Consult Factory	355.8	94	B/C	B/C/Spline/Straight/Custom	N/A	0.875/1.0/1.25	N/A	N/A	N/A	N/A	SLD	Geartek
No	Yes	Axial Piston	Variable Displacement	147	8.98	450	6525	480	6960	3000	3100	405	543	396	87	4-bolt flange	13T, 27 T Tapered			A, B, C, D	NA	26; 34	1,59; 2,07	H1P	Danfoss
Yes	No	Axial Piston	Variable displacement	147	8.97	260	3770	350	5075	2100	2475	235.81	316.23	81.5	308.7	4-Bolt C	1.5 Straght Keyed, 13T, 14T, 17T	Spline: 31,37,44-Keyed:38.08	Spline:1.2, 1.4, 1.7-Keyed: 1.5	SAE A,B,BB,C, CC	9T,11T,13T, 15T, 17T	N/A	N/A	Series 45	Danfoss
Yes	No	Axial Piston	Single	150	9.15	280	4060	350	5075	2200		153.9	206.4	330.0	87.1	SAE	SAE			yes	SAE	n/a	n/a	K3VLS	Kawasaki

Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
yes	no	T7DS	Fixed Vane	158	9.64	250	3625	300	4350	3000	3000	197.5	268.6	474	124.7	2-Bolt C	SAE-C			See T6*R pumps	See T6*R pumps	N/A	N/A	T7 Series	Parker - Pump & Power Div.
yes	no	T6DM	Fixed Vane	158	9.64	210	3045	240	3480	2500	2500	138.3	188.0	395	103.9	2-Bolt C	SAE-C			See T6*R pumps	See T6*R pumps	N/A	N/A	T6 Series	Parker - Pump & Power Div.
yes	no	T7DS	Fixed Vane	158	9.64	250	3625	300	4350	3000	3000	197.5	268.6	474	124.7	2-Bolt C	SAE-C			See T6*R pumps	See T6*R pumps	N/A	N/A	T7 Series	Parker - Pump & Power Div.
yes	no	T6DM	Fixed Vane	158	9.64	210	3045	240	3480	2500	2500	138.3	188.0	395	103.9	2-Bolt C	SAE-C			See T6*R pumps	See T6*R pumps	N/A	N/A	T6 Series	Parker - Pump & Power Div.
Yes		PVX10160-CKXXX	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C KEYED	31.75	1.25		C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-CK-ASA	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C KEYED	31.75	1.25			n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-CK-ASA	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C KEYED	31.75	1.25		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-CK-ABA	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C KEYED	31.75	1.25		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-CK-ABA	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C KEYED	31.75	1.25		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-CKBSB	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C KEYED	31.75	1.25		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-CKBSB	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C KEYED	31.75	1.25		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-CKCSC	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C KEYED	31.75	1.25		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-CKCSC	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C KEYED	31.75	1.25		C SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-KCXXX	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C-C KEYED	38.1	1.5		C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-KCXXX	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C-C KEYED	38.1	1.5			n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-KCA-KA	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C-C KEYED	38.1	1.5		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-KCA-KA	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C-C KEYED	38.1	1.5		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-KC-BAA	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C-C KEYED	38.1	1.5		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-KC-BAA	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C-C KEYED	38.1	1.5		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-KCBKB	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C-C KEYED	38.1	1.5		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-KCBKB	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C-C KEYED	38.1	1.5		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-KC-CKC	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C-C KEYED	38.1	1.5		C SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-KC-CKC	Axial Piston	160	10	265	3850	310	4500	1,800	2000	260.8	194.5	295	77.9	C 2 & 4	C-C KEYED	38.1	1.5		C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-DKA-SA	Axial Piston	160	10	276	4000	310	4500	1,800	2200	298.0	222.3	295	77.9	D 4-BOLT	D KEYED	44.45	1.75			n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-DKA-SA	Axial Piston	160	10	276	4000	310	4500	1,800	2200	298.0	222.3	295	77.9	D 4-BOLT	D KEYED	44.45	1.75		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-DK-ABA	Axial Piston	160	10	276	4000	310	4500	1,800	2200	298.0	222.3	295	77.9	D 4-BOLT	D KEYED	44.45	1.75		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-DK-ABA	Axial Piston	160	10	276	4000	310	4500	1,800	2200	298.0	222.3	295	77.9	D 4-BOLT	D KEYED	44.45	1.75		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-DKBSB	Axial Piston	160	10	276	4000	310	4500	1,800	2200	298.0	222.3	295	77.9	D 4-BOLT	D KEYED	44.45	1.75		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-DKBSB	Axial Piston	160	10	276	4000	310	4500	1,800	2200	298.0	222.3	295	77.9	D 4-BOLT	D KEYED	44.45	1.75		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-DKCSC	Axial Piston	160	10	276	4000	310	4500	1,800	2200	298.0	222.3	295	77.9	D 4-BOLT	D KEYED	44.45	1.75		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-DKCSC	Axial Piston	160	10	276	4000	310	4500	1,800	2200	298.0	222.3	295	77.9	D 4-BOLT	D KEYED	44.45	1.75		C SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX10160-DSCCKC	Axial Piston	160	10	276	4000	310	3750	1,800	2200	298.0	222.3	295	77.9	D 4-BOLT	D SPLINE	44.45	1.75		C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes	No	Axial piston / variable	single / tandem	160	9.76	350	5000	420	6000	2500	2900	360	480	232	76	4 bolt SAE C & D	Various	Various	Various	Yes SAE A -D	Various	n/a	n/a	V30E	HAWE Hydraulics

Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm³/rev	in³/rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm³/rev	in³/rev		
Yes	No	Axial Piston	double	160 x 2	9.76x2	343	4970	392	5680	2000	2350	365.6	490.3	640.0	169.1	metric	ISO			yes	SAE	n/a	n/a	K5V	Kawasaki
Yes	No	Fixed Gear	Single/Tandem/Multiple	161.6	9.86	262	3800	262	3800	2500	2500	Consult Factory	Consult Factory	393.7	104	C/D	C/Spline/Straight/Custom	N/A	1.25/1.5	N/A	N/A	N/A	N/A	E	Geartek
Yes	No	Axial piston / variable	single / tandem	164	10	250	3600	300	4300	1900	2500	360	480	238	77.3	4 bolt SAE C & D	Various	Various	Various	Yes SAE A -D	Various	n/a	n/a	V30D	HAWE Hydraulics
No	Yes	Axial piston	Single	165.00	10.1	420	6091	500	7252	2500	2700	279	374	445.5	117.7	2 Bolt-D**	SAE-13T, 27T	43.71, 44.05	1.72, 1.73	SAE-A, B, C, D pad	SAE-13T, 14T, 27T	38, 44	2.32, 2.69	HPV	Eaton
No	Yes	Axial Piston	Variable Displacement	165	10.08	450	6525	480	6960	3000	3100	454	609	445	98	4-bolt flange	13T, 27 T Tapered			A, B, C, D	NA	26; 34	1.59; 2.07	H1P	Danfoss
No	Yes	Axial piston	Back to Back	2X 165	20.2	420	6091	500	7252	NA	2100	432	579	2X 346.5	2X 91.5	2 Bolt-D**	27T			2-Bolt A, B	SAE-9T, 11T, 13T, 15T	NA	NA	HPR165D Double Pump	Eaton+A3:AA45
Yes	No	Axial piston	Single	165.60	10.1	420	6091	500	7252	NA	2100	243	326	347.8	91.9	2 Bolt-D**	SAE-13T, 27T			SAE-A, B, C, D pad	SAE-9T, 13T, 14T, 23T, 27T	NA	NA	HPR	Eaton
no	yes	HPV165	Axial Piston Variable Displacement	165.6	10.06	450	6525	500	7250	2750	2950	326	437	453.9	119.8	D	SAE D	43.71	1.720	A,B,C,D	ANSI 23T	-	-	2	Linde Hydraulics
yes	no	HPR165	Axial Piston, Self-Regulating	165.6	10.06	420	6090	500	7250	2200	2200	255	342.0	364.3	94.7	D	SAE D	43.71	1.720	A,B,C,D	ANSI 22T	-	-	2	Linde Hydraulics
yes	no	HPR165D	Axial Piston, Self-Regulating	165.6 x 2	10.06 x 2	420	6090	500	7250	2100	2100	431.8	579.1	695.5	180.8	D	ANSI B92.1,16/32 27T	44.05	1.734			-	-	2	Linde Hydraulics
Yes		PVX11176-DKXXX	Axial Piston	176	11	224	3250	259	3750	1,800	2200	266.4	198.7	324	85.7	D 4-BOLT	D KEYED	44.45	1.75		C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX11176-DKASA	Axial Piston	176	11	224	3250	259	3750	1,800	2200	266.4	198.7	324	85.7	D 4-BOLT	D KEYED	44.45	1.75			n/a	n/a	PVX	Hartmann Controls
Yes		PVX11176-DKASA	Axial Piston	176	11	224	3250	259	3750	1,800	2200	266.4	198.7	324	85.7	D 4-BOLT	D KEYED	44.45	1.75		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX11176-DKABA	Axial Piston	176	11	224	3250	259	3750	1,800	2200	266.4	198.7	324	85.7	D 4-BOLT	D KEYED	44.45	1.75		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX11176-DKABA	Axial Piston	176	11	224	3250	259	3750	1,800	2200	266.4	198.7	324	85.7	D 4-BOLT	D KEYED	44.45	1.75		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX11176-DKBBSB	Axial Piston	176	11	224	3250	259	3750	1,800	2200	266.4	198.7	324	85.7	D 4-BOLT	D KEYED	44.45	1.75		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX11176-DKBBSB	Axial Piston	176	11	224	3250	259	3750	1,800	2200	266.4	198.7	324	85.7	D 4-BOLT	D KEYED	44.45	1.75		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX11176-DKCSC	Axial Piston	176	11	224	3250	259	3750	1,800	2200	266.4	198.7	324	85.7	D 4-BOLT	D KEYED	44.45	1.75		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX11176-DKCSC	Axial Piston	176	11	224	3250	259	3750	1,800	2200	266.4	198.7	324	85.7	D 4-BOLT	D KEYED	44.45	1.75		C SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX11176-DSCKC	Axial Piston	176	11	224	3250	259	3750	1,800	2200	266.4	198.7	324	85.7	D 4-BOLT	D SPLINE	44.45	1.75		C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes	No	Fixed Gear	Single/Tandem/Multiple	178	10.86	234	3400	234	3400	2500	2500	Consult Factory	Consult Factory	433.8	114.6	C/D	C/Spline/Straight/Custom	N/A	1.25/1.5	N/A	N/A	N/A	N/A	E	Geartek
no	yes	Axial Piston	single	180	10.98	400	5800	450	6500	2500	2500	300	402	450	118.8	2&4 bolt	n/a	n/a	n/a	n/a	splined	39.8	2.43	AA4VG series 32	Bosch Rexroth
Yes	No	Axial Piston	Single	180	11	350	5075	400	5800	1850	2300	194.5	260.8	333.0	88.1	metric	ISO			yes	SAE	n/a	n/a	K3VG	Kawasaki
Yes	No	Axial Piston	Single	180	11	350	5075	400	5800	1800	2200	189.3	253.8	324.0	85.7	metric	ISO			yes	SAE	n/a	n/a	K7VG	Kawasaki
No	Yes	Axial Piston	Variable Displacement	180	10.98	450	6252	480	6960	2600	2850	456	611	421	92	4-bolt flange	27T, 21T			A, B ,C, D, E	NA	34; 47	2.07; 2.87	Series 90 Pump	Danfoss
No	Yes	Axial piston	Variable, Single/ Tandem	180	10.98	420	6000	480	7000	2600	2850	345	463	468	124	E	27 teeth 16/32, 13 teeth 8/16	43.89, 44.35	1.73, 1.75	A, BB, B, C, D, E	-	34, 47	2.07, 2.86	P90 180	Poclair Hydraulics
Yes	No	Axial Piston	double	180 x 2	11.0x2	350	5075	400	5800	1850	2300	388.5	521.0	666.0	176.0	metric	ISO			yes	SAE	n/a	n/a	K3VG	Kawasaki
Yes	No	Axial Piston	double	180 x 2	11.0x2	343	4970	392	5680	1950	2300	401.0	537.8	702.0	185.5	metric	ISO			yes	SAE	n/a	n/a	K3V	Kawasaki
yes	yes	P11	Fixed or Variable Axial Piston	180.3	11.00	350	5075	420	6090	2400	2400	252.4	343.3	432.72	113.9	4-Bolt E	44-4 E			Yes	SAE-E or smaller	35	2.136	Gold Cup	Parker - Pump & Power Div.
yes	yes	P11	Fixed or Variable Axial Piston	180.3	11.00	350	5075	420	6090	2400	2400	252.4	343.3	432.72	113.9	4-Bolt E	44-4 E			Yes	SAE-E or smaller	35	2.136	Gold Cup	Parker - Pump & Power Div.
Yes		PVX12190-DKXXX-20FL/FL-XXXXXX	Axial Piston	190	12	224	3250	259	3750	1,800	2200	283.4	211.3	345	91.1	D 4-BOLT	D KEYED	44.45	1.75		C KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX12190-DKASA-20FL/FL-XXXXXX	Axial Piston	190	12	224	3250	259	3750	1,800	2200	283.4	211.3	345	91.1	D 4-BOLT	D KEYED	44.45	1.75			n/a	n/a	PVX	Hartmann Controls



Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm³/rev	in³/rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm³/rev	in³/rev		
Yes		PVX12190-DKA-SA-20FL/FG-XXXXXX	Axial Piston	190	12	224	3250	259	3750	1,800	2200	283.4	211.3	345	91.1	D 4-BOLT	D KEYED	44.45	1.75		A SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX12190-DK-ABA-20FL/FL-XXXXXX	Axial Piston	190	12	224	3250	259	3750	1,800	2200	283.4	211.3	345	91.1	D 4-BOLT	D KEYED	44.45	1.75		A KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX12190-DK-ABA-20FL/FG-XXXXXX	Axial Piston	190	12	224	3250	259	3750	1,800	2200	283.4	211.3	345	91.1	D 4-BOLT	D KEYED	44.45	1.75		A-B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX12190-DKBSB-20FL/FL-XXXXXX	Axial Piston	190	12	224	3250	259	3750	1,800	2200	283.4	211.3	345	91.1	D 4-BOLT	D KEYED	44.45	1.75		A-B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX12190-DKBSB-20FL/FG-XXXXXX	Axial Piston	190	12	224	3250	259	3750	1,800	2200	283.4	211.3	345	91.1	D 4-BOLT	D KEYED	44.45	1.75		B SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX12190-DKCSC-20FL/FL-XXXXXX	Axial Piston	190	12	224	3250	259	3750	1,800	2200	283.4	211.3	345	91.1	D 4-BOLT	D KEYED	44.45	1.75		B KEYED	n/a	n/a	PVX	Hartmann Controls
Yes		PVX12190-DKCSC-20FL/FG-XXXXXX	Axial Piston	190	12	224	3250	259	3750	1,800	2200	283.4	211.3	345	91.1	D 4-BOLT	D KEYED	44.45	1.75		C SPLINE	n/a	n/a	PVX	Hartmann Controls
Yes		PVX12190-DSCKC-21FL/FG-XXXXXX	Axial Piston	190	12	224	3250	259	3750	1,800	2200	283.4	211.3	345	91.1	D 4-BOLT	D SPLINE	44.45	1.75		C KEYED	n/a	n/a	PVX	Hartmann Controls
yes	no	Axial Piston	single	193	11.78	350	5100	400	5800	2100	2100	236	316.5	405	107	4 bolt	n/a	n/a	n/a	n/a	splined and cylindrical w/key	193	11.78	AA11VO series 10/11	Bosch Rexroth
Yes	No	Axial Piston	Single	200	12.2	320	4600	350	5075	2700	3250	285.4	382.7	540.0	142.6	SAE	SAE			yes	SAE	n/a	n/a	K3VL	Kawasaki
Yes	No	Axial Piston	double	200 x 2	12.2x2	343	4970	392	5680	1900	2200	434.2	582.2	760.0	200.8	metric	ISO			yes	SAE	n/a	n/a	K5V	Kawasaki
Yes	No	Axial piston / variable	Single	202	12.33	400	5800	450	6500	500	2500	133	178	101	-	4 bolt SAE A, B, C, D & E	Various	Various	Various	n/a	Various	n/a	n/a	V80M	HAWE Hydraulics
Yes	No	Axial piston	Single	210.00	12.81	420	6091	500	7252	NA	2000	294	394	420.0	111.0	4 Bolt-E	SAE-15T, 27T			SAE-A, B, C, D, E pad	SAE-9T, 11T, 13T, 14T, 21T, 23T, 27T	NA	NA	HPR	Eaton
No	Yes	Axial piston	Single	210.00	12.82	420	6091	500	7252	2300	2500	326	437	525.0	138.7	4 Bolt-E	SAE-15T, 27T	50.06, 44.05	1.97, 1.73	SAE-A, B, C, D, E pad	SAE-13T, 14T, 15T, 23T, 27T	31, 38, 45	1.89, 2.32, 2.75	HPV	Eaton
No	Yes	Axial Piston	Variable Displacement	210	12.91	450	6525	480	6960	2600	2800	522	700	491	108	4-bolt flange	13T, 17T, 27T			A, B, C, D, E	NA	52; 60	3,17; 3,66	H1P	Danfoss
no	yes	HPV 210	Axial Piston Variable Displacement	210.1	12.61	450	6525	500	7250	2300	2500	346	464	475.9	125.6	E	SAE F	50.06	1.970	A,B,C,D,E	ANSI 24T	-	-	3	Linde Hydraulics
yes	no	HPR210	Axial Piston, Self-Regulating	210.1	12.81	420	6090	500	7250	2100	2100	308.8	414.1	441.2	114.7	E	SAE F	50.06	1.970	A,B,C,D,E	ANSI 24T	-	-	2	Linde Hydraulics
Yes	No	Fixed Gear	Single/Tandem/Multiple	215.6	13.17	200	2900	200	2900	2500	2500	Consult Factory	Consult Factory	520.5	137.5	C/D	C/Spline/Straight/Custom	N/A	1.25/1.5	N/A	N/A	N/A	N/A	E	Geartek
Yes	No	Fixed Gear	Single/Tandem/Multiple	215.9	13.17	200	2900	200	2900	2500	2500	Consult Factory	Consult Factory	520.5	137.5	D	D/Spline	N/A	1.75	N/A	N/A	N/A	N/A	F	Geartek
yes	yes	P14	Fixed or Variable Axial Piston	229.5	14.00	350	5075	420	6090	2400	2400	321.3	437.0	550.8	144.9	4-Bolt E	44-4 E			Yes	SAE-E or smaller	35	2.136	Gold Cup	Parker - Pump & Power Div.
yes	yes	P14	Fixed or Variable Axial Piston	229.5	14.00	350	5075	420	6090	2400	2400	321.3	437.0	550.8	144.9	4-Bolt E	44-4 E			Yes	SAE-E or smaller	35	2.136	Gold Cup	Parker - Pump & Power Div.
Yes	No	Fixed Gear	Single/Tandem/Multiple	249.2	15.2	172	2500	172	2500	2500	2500	Consult Factory	Consult Factory	607.2	160.4	C/D	C/Spline/Straight/Custom	N/A	1.25/1.5	N/A	N/A	N/A	N/A	E	Geartek
Yes	No	Fixed Gear	Single/Tandem/Multiple	249.2	15.2	172	2750	172	2750	2500	2500	Consult Factory	Consult Factory	607.2	160.4	D	D/Spline	N/A	1.75	N/A	N/A	N/A	N/A	F	Geartek
no	yes	Axial Piston	single	250	15.25	400	5800	450	6500	2400	2400	400	536	600	158.4	2&4 bolt	n/a	n/a	n/a	n/a	splined	52.5	3.2	AA4VG series 32	Bosch Rexroth
No	Yes	Axial Piston	Variable Displacement	250	15.36	450	6525	480	6960	2600	2800	622	834	585	129	4-bolt flange	13T, 17T, 27T			A, B, C, D, E	NA	52; 60	3,17; 3,66	H1P	Danfoss
No	Yes	Axial Piston	Variable Displacement	250	15.25	450	6252	480	6960	2600	2500	555	745	585	129	4-bolt flange	13T, 27T			A, B, C, D, E	NA	47; 65	2,87; 3,97	Series 90 Pump	Danfoss
No	Yes	Axial piston	Variable, Single/ Tandem	250	15.25	420	6000	480	7000	2300	2500	424	568	575	152	E	27 teeth 16/32, 13 teeth 8/16	43.89, 44.35	1.73, 1.75	A, BB, B, C, D, E	-	47, 65	2.86, 3.96	P90 250	Poclair Hydraulics
yes	no	Axial Piston	single	260	15.87	350	5100	400	5800	1800	2300	273	366.1	468	123.6	4 bolt	n/a	n/a	n/a	n/a	splined and cylindrical w/key	260	15.87	AA11VO series 10/11	Bosch Rexroth

Operation		Unit	Type	Displacement		Nominal Pressure		Peak Pressure		Speed (RPM)		Max Input Power		Theo. Flow at Rated Speed		Front Mounting (SAE)	Input Shaft Diameter			Auxiliary Mount (SAE)	Output Shafts	Charge Pump Displacement		Product Series	Company
Open Loop	Closed Loop			cm <sup>3</sup> /rev	in <sup>3</sup> /rev	bar	psi	bar	psi	Continuous	Max.	kw	hp	lpm	gpm		SAE/ISO	mm	inch			cm <sup>3</sup> /rev	in <sup>3</sup> /rev		
Yes	No	Axial piston / variable	single / tandem	260	15.86	350	5000	420	6000	1800	2000	360	480	356	99.9	4 bolt SAE C & D	Various	Various	Various	Yes SAE A -D	Various	n/a	n/a	V30D	HAWE Hydraulics
yes	no	T7ES	Fixed Vane	269	16.41	210	3045	240	3480	2200	2200	207.1	281.7	591.8	155.7	2-Bolt C	SAE-C or SAE-CC			See T6*R pumps	See T6*R pumps	N/A	N/A	T7 Series	Parker - Pump & Power Div.
yes	no	T6EM	Fixed Vane	269	16.41	210	3045	240	3480	2200	2200	207.1	281.7	591.8	155.7	2-Bolt C	SAE-C or SAE-CC			See T6*R pumps	See T6*R pumps	N/A	N/A	T6 Series	Parker - Pump & Power Div.
yes	no	T7ES	Fixed Vane	269	16.41	210	3045	240	3480	2200	2200	207.1	281.7	591.8	155.7	2-Bolt C	SAE-C or SAE-CC			See T6*R pumps	See T6*R pumps	N/A	N/A	T7 Series	Parker - Pump & Power Div.
yes	no	T6EM	Fixed Vane	269	16.41	210	3045	240	3480	2200	2200	207.1	281.7	591.8	155.7	2-Bolt C	SAE-C or SAE-CC			See T6*R pumps	See T6*R pumps	N/A	N/A	T6 Series	Parker - Pump & Power Div.
Yes	No	Axial piston / variable	single / tandem	270	16.48	350	5000	420	6000	2500	2900	360	480	392	128	4 bolt SAE C & D	Various	Various	Various	Yes SAE A -D	Various	n/a	n/a	V30E	HAWE Hydraulics
Yes	No	Axial Piston	Single	270	16.5	350	5075	400	5800	1600	1900	252.3	338.4	432.0	114.3	metric	ISO			yes	SAE	n/a	n/a	K7VG	Kawasaki
Yes	No	Fixed Gear	Single/Tandem/ Multiple	275.2	16.79	155	2250	155	2250	2500	2500	Consult Factory	Consult Factory	670.0	177	C/D	C/Spline/Straight/Custom	N/A	1.25/1.5	N/A	N/A	N/A	N/A	E	Geartek
Yes	No	Fixed Gear	Single/Tandem/ Multiple	275.2	16.79	155	2250	155	2250	2500	2500	Consult Factory	Consult Factory	670.0	177	D	D/Spline	N/A	1.75	N/A	N/A	N/A	N/A	F	Geartek
No	Yes	Axial piston	Single	280.00	17.2	420	6091	500	7252	2000	2200	381	511	616.0	162.7	4 Bolt-E	SAE-15T, 33T	50.06, 53.37	1.97, 2.10	SAE-A, B, C, D, E pad	SAE-13T, 14T, 27T, 33T	38, 45	2.32, 2.75	HPV	Eaton
Yes	No	Axial Piston	Single	280	17.1	350	5075	400	5800	1600	2000	261.5	350.7	448.0	118.4	metric	ISO			yes	SAE	n/a	n/a	K3VG	Kawasaki
Yes	No	Axial Piston	double	280 x 2	17.1x2	350	5075	400	5800	1600	2000	522.7	700.9	896.0	236.7	metric	ISO			yes	SAE	n/a	n/a	K3VG	Kawasaki
Yes	No	Axial Piston	double	280 x 2	17.1x2	343	4970	392	5680	2000	2000	639.8	858.0	1120.0	295.9	metric	ISO			yes	SAE	n/a	n/a	K3V	Kawasaki
no	yes	HPV280	Axial Piston Variable Displacement	281.9	17.08	450	6525	500	7250	2400	2550	485	650	672.6	177.5	E	SAE F	50.06	1.970	A,B,C,D,E	ANSI 27T	-	-	2	Linde Hydraulics
yes	no	HPR280	Axial Piston, Self-Regulating	281.9	17.1	420	6090	500	7250	2000	2000	394.7	529.3	563.8	146.6	E	SAE F	50.06	1.970	A,B,C,D,E	ANSI 27T	-	-	2	Linde Hydraulics
Yes	No	Axial piston	Single	282.00	17.2	420	6091	500	7252	NA	2100	355	476	592.2	156.4	4 Bolt-E	SAE-15T			SAE- B, C pad	SAE-11T, 13T, 14T, 15T	NA	NA	HPR	Eaton
Yes	No	Fixed Gear	Single/Tandem/ Multiple	309.8	18.91	138	2000	138	2000	2500	2500	Consult Factory	Consult Factory	749.5	198	C/D	C/Spline/Straight/Custom	N/A	1.25/1.5	N/A	N/A	N/A	N/A	E	Geartek
Yes	No	Fixed Gear	Single/Tandem/ Multiple	344	21	104	1500	104	1500	2500	2500	Consult Factory	Consult Factory	866.9	229	C/D	C/Spline/Straight/Custom	N/A	1.25/1.5	N/A	N/A	N/A	N/A	E	Geartek
yes	yes	P24	Fixed or Variable Axial Piston	403.2	24.60	350	5075	370	5365	2100	2100	493.9	671.7	846.72	222.8	4-Bolt F	50-4 F			Yes	SAE-F or smaller	100	6.102	Gold Cup	Parker - Pump & Power Div.
yes	yes	P24	Fixed or Variable Axial Piston	403.2	24.60	350	5075	370	5365	2100	2100	493.9	671.7	846.72	222.8	4-Bolt F	50-4 F			Yes	SAE-F or smaller	100	6.102	Gold Cup	Parker - Pump & Power Div.
yes	yes	P30	Fixed or Variable Axial Piston	501.5	30.60	350	5075	370	5365	1800	1800	526.6	716.1	902.7	237.6	4-Bolt F	50-4 F			Yes	SAE-F or smaller	100	6.102	Gold Cup	Parker - Pump & Power Div.
yes	yes	P30	Fixed or Variable Axial Piston	501.5	30.60	350	5075	370	5365	1800	1800	526.6	716.1	902.7	237.6	4-Bolt F	50-4 F			Yes	SAE-F or smaller	100	6.102	Gold Cup	Parker - Pump & Power Div.