

Performance Data

Pressures Quoted Are Relief Value Maximum By Pass
Pressures With SAE 20 W Oil At 50°C.

Pump Type	Theoretical Displacement		Nominal Delivery at 1500 rev/min.		Maximum Pressure		Max Speed at max Pressure rev / min.	Min Speed at max Continuous Pressure rev / min.
	in ³ / rev	cm ³ / rev	Imp gal / min	l / min	psi	bar		
OP 3003	0.08	1.23	0.26	1.2	3000	207	4000	500
OP 3004	0.10	1.64	0.39	1.8	3000	207	4000	500
OP 3006	0.13	2.18	0.56	2.5	3000	207	4000	500
OP 3008	0.18	2.87	0.75	3.4	3000	207	4000	500
OP 3011	0.23	3.81	1.06	4.8	3000	207	4000	500
OP 3013	0.27	4.46	1.28	5.8	3000	207	4000	500
OP 3015	0.31	5.14	1.50	6.8	3000	207	4000	600

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	in ³ /rev	cm ³ /rev	Imp gal/min (gpm)	l/min (lpm)	psi	bar		
1P 3017	0.31	5.14	1.70	7.70	3000	207	3500	500
1P 3020	0.43	7.03	2.00	9.10	3000	207	3500	500
1P 3028	0.58	9.46	2.80	12.70	3000	207	3500	500
1P 3036	0.73	11.90	3.60	16.40	3000	207	3500	600
1P 3044	0.88	14.33	4.40	20.00	3000	207	3500	500
1P 3052	1.02	16.77	5.20	23.60	3000	207	3500	600
1P 3060	1.17	19.20	6.00	27.30	3000	207	3500	650
1P 3072	1.40	22.84	7.20	32.70	3000	207	3500	650
1P 3090	1.72	28.12	9.00	40.90	3000	207	2400	650

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	in ³ /rev	cm ³ /rev	Imp gal/min (gpm)	l/min (lpm)	psi	bar		
2P 3050	1.02	16.67	5.0	22.7	3000	207	3000	550
2P 3070	1.39	22.73	7.0	32.0	3000	207	3000	550
2P 3090	1.76	28.79	9.0	41.0	3000	207	3000	650
2P 3105	2.03	33.34	10.5	47.7	3000	207	3000	600
2P 3120	2.31	37.88	12.0	54.5	3000	207	3000	650
2P 3146	2.78	45.46	14.6	66.5	3000	207	3000	650
2P 3158	3.01	49.40	15.8	71.8	2525	174	2500	650
2P 3220	4.07	66.67	22.0	100	2525	174	2500	650

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	in ³ /rev	cm ³ /rev	Imp gal/min (gpm)	l/min (lpm)	psi	bar		
3P 3150	2.88	47.07	15	68.0	3000	207	2500	550
3P 3180	3.43	56.17	18	81.5	3000	207	2500	600
3P 3210	3.99	65.23	21	95.5	3000	207	2500	700
3P 3250	4.71	77.15	25	113.5	3000	207	2500	700
3P 3300	5.62	92.03	30	136.0	2500	174	2000	700
3P 3330	6.21	101.71	33	150.0	2300	159	2500	700
3P 3380	7.14	116.78	38	173.0	2000	138	2500	700
3P 3500	9.24	151.32	50	227.0	2000	138	2500	700