

POLARIS series

Gear pumps and motors built in three pieces with an extruded body in high resistance aluminium alloy. The wide choice of shafts, flanges and ports, in compliance with all international standards (SAE, DIN and EUROPEAN) allow for their use in an infinite variety of applications.

Displacements from 1,07 cm³/rev ▪ 0.07 in³/rev to 91,10 cm³/rev ▪ 5.56 in³/rev available in groups 10, 20 and 30.

Max. peak pressure up to 300 bar ▪ 4350 psi.

Max. speed up to 4000 min⁻¹.



Features

- ◆ High efficiencies
- ◆ Integrated outboard bearings for heavy duty applications
- ◆ Multiple units available in standard version, common inlet and separated stages
- ◆ Electro-hydraulic fan drive system
- ◆ Custom design

Optional built-in valves

- ◆ Anticavitation valves
- ◆ Maximum pressure relief valves
- ◆ Priority valves
- ◆ Load-Sensing priority valves
- ◆ By-pass electric valves
- ◆ Proportional relief valves
- ◆ Reverse valves

Main characteristics

	Displacement	Max. continuous pressure	Max. speed
	cm ³ /rev ▪ in ³ /rev	bar ▪ psi	min ⁻¹
POLARIS 10	cm ³ /rev ▪ in ³ /rev	bar ▪ psi	min ⁻¹
PL. 10•1	1,07 ▪ 0.07	260 ▪ 3750	4000
PL. 10•1,5	1,60 ▪ 0.10	260 ▪ 3750	4000
PL. 10•2	2,13 ▪ 0.13	260 ▪ 3750	4000
PL. 10•2,5	2,67 ▪ 0.16	260 ▪ 3750	4000
PL. 10•3,15	3,34 ▪ 0.20	260 ▪ 3750	4000
PL. 10•4	4,27 ▪ 0.26	250 ▪ 3600	4000
PL. 10•5	5,34 ▪ 0.33	250 ▪ 3600	4000
PL. 10•5,8	6,20 ▪ 0.38	230 ▪ 3350	3500
PL. 10•6,3	6,67 ▪ 0.41	230 ▪ 3350	3500
PL. 10•8	8,51 ▪ 0.52	180 ▪ 2600	3500
PL. 10•10	10,67 ▪ 0.65	140 ▪ 2050	3500
POLARIS 20	cm ³ /rev ▪ in ³ /rev	bar ▪ psi	min ⁻¹
PL. 20•4	4,95 ▪ 0.30	250 ▪ 3600	4000
PL. 20•6,3	6,61 ▪ 0.40	250 ▪ 3600	4000
PL. 20•7,2	7,29 ▪ 0.44	250 ▪ 3600	4000
PL. 20•8	8,26 ▪ 0.50	250 ▪ 3600	3500
PL. 20•9	9,17 ▪ 0.56	250 ▪ 3600	3500
PL. 20•10,5	10,90 ▪ 0.66	250 ▪ 3600	3500
PL. 20•11,2	11,23 ▪ 0.69	250 ▪ 3600	3500
PL. 20•14	14,53 ▪ 0.89	250 ▪ 3600	3500
PL. 20•16	16,85 ▪ 1.03	250 ▪ 3600	3000
PL. 20•19	19,09 ▪ 1.16	200 ▪ 2900	3000
PL. 20•20	21,14 ▪ 1.29	200 ▪ 2900	3000
PL. 20•24,5	24,84 ▪ 1.52	170 ▪ 2450	2500
PL. 20•25	26,42 ▪ 1.61	170 ▪ 2450	2500
PL. 20•27,8	28,21 ▪ 1.72	130 ▪ 1900	2000
PL. 20•31,5	33,03 ▪ 2.01	130 ▪ 1900	2000
POLARIS 30	cm ³ /rev ▪ in ³ /rev	bar ▪ psi	min ⁻¹
PL. 30•22	21,99 ▪ 1.34	250 ▪ 3600	3000
PL. 30•27	26,70 ▪ 1.63	250 ▪ 3600	3000
PL. 30•34	34,55 ▪ 2.11	240 ▪ 3500	3000
PL. 30•38	39,27 ▪ 2.40	240 ▪ 3500	3000
PL. 30•43	43,98 ▪ 2.68	230 ▪ 3350	3000
PL. 30•51	51,83 ▪ 3.16	210 ▪ 3050	2500
PL. 30•61	61,26 ▪ 3.74	190 ▪ 2750	2500
PL. 30•73	73,82 ▪ 4.50	170 ▪ 2450	2500
PL. 30•82	81,68 ▪ 4.98	160 ▪ 2300	2200
PL. 30•90	91,10 ▪ 5.56	150 ▪ 2200	2200

NOTES

PL. : PLP = pump / PLM = motor