

## 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 cm<sup>3</sup>/rev ▪ 0.07 in<sup>3</sup>/rev to 91,10 cm<sup>3</sup>/rev ▪ 5.56 in<sup>3</sup>/rev available in groups 10, 20 and 30.

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

Max. speed up to 4000 min<sup>-1</sup>.



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

#### NOTES

PL. : PLP = pump / PLM = motor