



**Hydraulic pumps, motors & filters**



## **Our passion for high performance in hydraulic drives us.**

Constant evolution and a passion for hydraulics; this has been Casappa's strategy, a privately owned company that has been working for more than fifty years in the field of fluid power transmission.

We design and build the main components for the hydraulic system.

We listen to and work with our customers, from developing a new idea to after-sales service, anywhere around the globe.

As a tight-knit group of highly motivated and professionally qualified people, we are always ready to meet new challenges head on.

Thanks to the use of the most modern design engineering, simulation and lab testing technologies, we are always flexible and ready to quickly modify our offer to meet market demands.

We are convinced that integrating electronics with hydraulics is instrumental to improve hydraulic control circuit performance. For this reason we continuously invest in research & development, increasing the number of electronic control and regulation parts in our system.

Quality is our total commitment: that's why all of our products are thoroughly tested with constant monitoring including data analysis and traceability. Further, specific tests are performed on machines in the field to verify their effectiveness in their actual environment.

Casappa is worldwide recognized as a highly specialised manufacturer of hydraulic components.

We offer:

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**Fixed and variable displacement hydraulic pumps and motors**

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**Hydraulic valves to control pressure and flow rate**

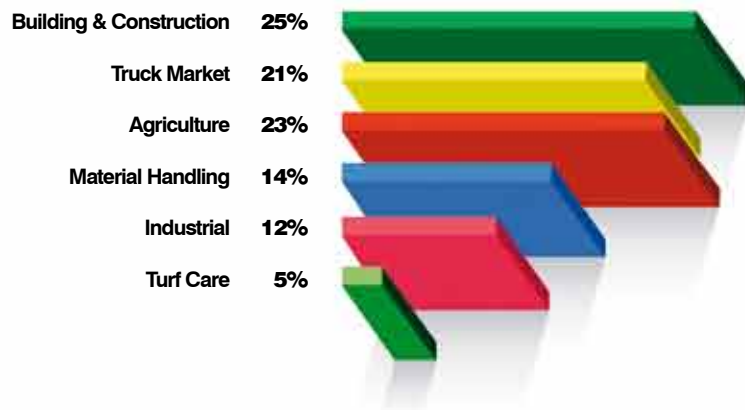
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**Hydraulic filters**

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## SALES BY PRODUCT APPLICATIONS



Some of the major companies that rely on our specialised expertise and choose us as an important supplier of hydraulic components for a wide range of applications include:

AGCO	CNH	FANTUZZI REGGIANE	IR-BOBCAT	SCHMIDT	TORO
AMMAN-YANMAR	DAE DONG	GUIMA PALFINGER	KOMATSU	STILL WAGNER	TOYOTA Industrial Equipment
ATLAS COPCO	DOOSAN INFRACORE	HUNAN SUNWARD	MANITOU	TEREX	VOLVO Compact
CATERPILLAR	DAIMLER CHRYSLER	HYVA INTERNATIONAL	MANITOWOC-GROVE	TEXTRON	



## **Product range**

**Aluminium body gear pumps and motors**

**Cast iron body gear pumps and motors**

**Aluminium body gear flow dividers**

**Cast iron body gear flow dividers**

**Fixed displacement axial piston pumps and motors**

**Variable displacement axial piston pumps**

**Hand pumps**



A complete range of high quality pumps and motors, the end result of listening carefully to what customers need and of working closely with suppliers.

Headquarters:

**CASAPPA S.p.A.**

43044 Cavalli Di Collecchio

Via Balestrieri, 1 - Parma - Italy

Tel. +39 0521 30 41 11 - Fax +39 0521 80 46 00

E-mail: [info@casappa.com](mailto:info@casappa.com)

[www.casappa.com](http://www.casappa.com)



Casappa offers nothing but the best value to its customers thanks to the skills and expertise of its workforce, investments in research and new technologies, cooperation with leading universities and electronics-hydraulics integration.

Casappa offers a wide choice of gear or piston pumps and motors for open-circuit applications. Many functions, such as valves and controls, are built directly into the products to optimise system space and costs.



### 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



## Aluminium body gear pumps

### WHISPER series: low noise emission - reduced pulsations by 75%

Gear pumps built in three pieces with an extruded body in high resistance aluminium alloy. WHISPER is a new and original technology protected by international patents and applied to a family of external gear pumps that feature low noise emissions. 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 1,12 cm<sup>3</sup>/rev ▪ 0.07 in<sup>3</sup>/rev to 96,85 cm<sup>3</sup>/rev ▪ 5.91 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 .
- ✦ Low noise emission.
- ✦ Integrated outboard bearings for heavy duty applications.
- ✦ Multiple units.
- ✦ Custom design.

#### Optional built-in valves

- ✦ Anticavitation valves.
- ✦ Maximum pressure relief valves.
- ✦ Priority valves.
- ✦ Load-Sensing priority valves.
- ✦ By-pass electric valves.

#### Main characteristics

	Displacement	Max. continuous pressure	Max. speed
	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>WHISPER 10</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>WSP 10•1</b>	1,12 ▪ 0.07	260 ▪ 3750	4000
<b>WSP 10•1,5</b>	1,68 ▪ 0.10	260 ▪ 3750	4000
<b>WSP 10•2</b>	2,24 ▪ 0.14	260 ▪ 3750	4000
<b>WSP 10•2,5</b>	2,80 ▪ 0.17	260 ▪ 3750	4000
<b>WSP 10•3,15</b>	3,48 ▪ 0.21	260 ▪ 3750	4000
<b>WSP 10•4</b>	4,45 ▪ 0.27	250 ▪ 3600	4000
<b>WSP 10•5</b>	5,60 ▪ 0.34	250 ▪ 3600	4000
<b>WSP 10•5,8</b>	6,51 ▪ 0.40	230 ▪ 3350	3500
<b>WSP 10•6,3</b>	7,00 ▪ 0.43	230 ▪ 3350	3500
<b>WSP 10•8</b>	8,92 ▪ 0.54	180 ▪ 2600	3500
<b>WSP 10•10</b>	11,20 ▪ 0.68	140 ▪ 2050	3500
<b>WHISPER 20</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>WSP 20•4</b>	5,25 ▪ 0.32	250 ▪ 3600	4000
<b>WSP 20•6,3</b>	7,00 ▪ 0.43	250 ▪ 3600	4000
<b>WSP 20•7,2</b>	7,72 ▪ 0.47	250 ▪ 3600	4000
<b>WSP 20•8</b>	8,74 ▪ 0.53	250 ▪ 3600	3500
<b>WSP 20•9</b>	9,65 ▪ 0.59	250 ▪ 3600	3500
<b>WSP 20•10,5</b>	11,54 ▪ 0.70	250 ▪ 3600	3500
<b>WSP 20•11,2</b>	11,89 ▪ 0.73	250 ▪ 3600	3500
<b>WSP 20•14</b>	15,39 ▪ 0.94	250 ▪ 3600	3500
<b>WSP 20•16</b>	17,84 ▪ 1.09	250 ▪ 3600	3000
<b>WSP 20•19</b>	20,22 ▪ 1.23	200 ▪ 2900	3000
<b>WSP 20•20</b>	22,38 ▪ 1.37	200 ▪ 2900	3000
<b>WSP 20•24,5</b>	26,30 ▪ 1.60	170 ▪ 2450	2500
<b>WSP 20•25</b>	27,98 ▪ 1.71	170 ▪ 2450	2500
<b>WSP 20•27,8</b>	29,87 ▪ 1.82	130 ▪ 1900	2000
<b>WSP 20•31,5</b>	34,98 ▪ 2.13	130 ▪ 1900	2000
<b>WHISPER 30</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>WSP 30•22</b>	23,38 ▪ 1.43	250 ▪ 3600	3000
<b>WSP 30•27</b>	28,39 ▪ 1.73	250 ▪ 3600	3000
<b>WSP 30•34</b>	36,74 ▪ 2.24	240 ▪ 3500	3000
<b>WSP 30•38</b>	41,75 ▪ 2.55	240 ▪ 3500	3000
<b>WSP 30•43</b>	46,76 ▪ 2.85	230 ▪ 3350	3000
<b>WSP 30•51</b>	55,10 ▪ 3.36	210 ▪ 3050	2500
<b>WSP 30•61</b>	65,12 ▪ 3.97	190 ▪ 2750	2500
<b>WSP 30•73</b>	78,48 ▪ 4.79	170 ▪ 2450	2500
<b>WSP 30•82</b>	86,83 ▪ 5.30	160 ▪ 2300	2200
<b>WSP 30•90</b>	96,85 ▪ 5.91	150 ▪ 2200	2200

**KAPPA and KAPPA COMPACT series**

Gear pumps and motors made of cast iron in two pieces. A rigid and compact structure that makes it possible to incorporate a number of functions in a limited space.

Wide range of displacements: from 4,95 cm<sup>3</sup>/rev ▪ 0.30 in<sup>3</sup>/rev to 150,79 cm<sup>3</sup>/rev ▪ 9.20 in<sup>3</sup>/rev available in groups 20, 30 and 40.

Max. peak pressure up to 330 bar ▪ 4800 psi.

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

**Main characteristics**

	Displacement	Max. continuous pressure	Max. speed
	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>KAPPA 20</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>K. 20•4</b>	4,95 ▪ 0.30	285 ▪ 4150	4000
<b>K. 20•6,3</b>	6,61 ▪ 0.40	285 ▪ 4150	4000
<b>K. 20•8</b>	8,26 ▪ 0.50	285 ▪ 4150	3500
<b>K. 20•11,2</b>	11,23 ▪ 0.69	275 ▪ 4000	3500
<b>K. 20•14</b>	14,53 ▪ 0.89	265 ▪ 3850	3500
<b>K. 20•16</b>	16,85 ▪ 1.03	260 ▪ 3750	3000
<b>K. 20•20</b>	21,14 ▪ 1.29	210 ▪ 3050	3000
<b>K. 20•25</b>	26,42 ▪ 1.61	180 ▪ 2600	2500
<b>K. 20•31,5</b>	33,03 ▪ 2.01	140 ▪ 2050	2500

	Displacement	Max. continuous pressure	Max. speed
	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>KAPPA 30</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>K. 30•27</b>	26,70 ▪ 1.63	280 ▪ 4050	3000
<b>K. 30•34</b>	34,56 ▪ 2.11	260 ▪ 3750	3000
<b>K. 30•38</b>	39,27 ▪ 2.40	260 ▪ 3750	3000
<b>K. 30•43</b>	43,98 ▪ 2.68	250 ▪ 3600	3000
<b>K. 30•51</b>	51,83 ▪ 3.16	230 ▪ 3350	2500
<b>K. 30•56</b>	56,54 ▪ 3.45	215 ▪ 3100	2500
<b>K. 30•61</b>	61,26 ▪ 3.74	200 ▪ 2900	2500
<b>K. 30•73</b>	73,82 ▪ 4.50	180 ▪ 2600	2500

	Displacement	Max. continuous pressure	Max. speed
	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>KAPPA compact 30</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>K. 30•22</b>	21,99 ▪ 1.34	280 ▪ 4050	3000
<b>K. 30•27</b>	26,70 ▪ 1.63	280 ▪ 4050	3000
<b>K. 30•31</b>	30,63 ▪ 1.87	260 ▪ 3750	3000
<b>K. 30•34</b>	34,56 ▪ 2.11	260 ▪ 3750	3000
<b>K. 30•38</b>	39,27 ▪ 2.40	260 ▪ 3750	3000
<b>K. 30•41</b>	41,62 ▪ 2.54	250 ▪ 3600	3000
<b>K. 30•43</b>	43,98 ▪ 2.68	250 ▪ 3600	3000
<b>K. 30•46</b>	46,34 ▪ 2.83	250 ▪ 3600	3000
<b>K. 30•51</b>	51,83 ▪ 3.16	230 ▪ 3350	2500
<b>K. 30•56</b>	56,54 ▪ 3.45	215 ▪ 3100	2500
<b>K. 30•61</b>	61,26 ▪ 3.74	200 ▪ 2900	2500
<b>K. 30•73</b>	73,82 ▪ 4.50	180 ▪ 2600	2500

	Displacement	Max. continuous pressure	Max. speed
	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>KAPPA compact 40</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>K. 40•63</b>	61,43 ▪ 3.75	300 ▪ 4350	2800
<b>K. 40•73</b>	72,60 ▪ 4.43	300 ▪ 4350	2800
<b>K. 40•87</b>	86,56 ▪ 5.28	280 ▪ 4050	2800
<b>K. 40•109</b>	108,90 ▪ 6.64	250 ▪ 3600	2800
<b>K. 40•121</b>	121,80 ▪ 7.43	230 ▪ 3350	2500
<b>K. 40•133</b>	134,03 ▪ 8.18	220 ▪ 3200	2500
<b>K. 40•151</b>	150,79 ▪ 9.20	200 ▪ 2900	2500

## NOTES

K. : KP = pump / KM = motor


**Features**

- High operating pressures .
- High efficiency at high temperature.
- Low noise emission.
- Exceptional working life expectancy.
- Solid and compact design.
- Custom design.

**Optional built-in valves**

- Antishock and anticavitation valves.
- Priority valves.
- Load-Sensing priority valves.
- By-pass electric valves.

## Cast iron body gear pumps and motors

### FORMULA and FORMULA SFP series

Gear pumps made of cast iron in two pieces, ideal for truck application.

Displacements from 8,26 cm<sup>3</sup>/rev ▪ 0.50 in<sup>3</sup>/rev to 150,79 cm<sup>3</sup>/rev ▪ 9.20 in<sup>3</sup>/rev available in groups 20, 30, 35 and 40.

Max. peak pressure up to 325 bar ▪ 4700 psi.

Max. speed up to 3000 min<sup>-1</sup>.



#### Features

- ◆ High performance also at very low speed.
- ◆ Different ports position availability.
- ◆ Low noise emission.
- ◆ Shaft seal system no leakage guarantee.
- ◆ Modular design.
- ◆ Direct mounting on the PTOs.

#### Main characteristics

	Displacement	Max. continuous pressure	Max. speed
	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>FORMULA 20</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>FP 20•8</b>	8,26 ▪ 0.50	280 ▪ 4050	2000
<b>FP 20•11,2</b>	11,23 ▪ 0.69	280 ▪ 4050	2000
<b>FP 20•16</b>	16,85 ▪ 1.03	280 ▪ 4050	2000
<b>FP 20•20</b>	21,14 ▪ 1.29	260 ▪ 3750	2000
<b>FP 20•25</b>	26,42 ▪ 1.61	220 ▪ 3200	2000
<b>FP 20•31,5</b>	33,03 ▪ 2.01	190 ▪ 2750	1800
<b>FP 20•36</b>	35,94 ▪ 2.19	170 ▪ 2450	1800
<b>FP 20•40</b>	39,64 ▪ 2.42	160 ▪ 2300	1800
<b>FORMULA 30</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>FP 30•17</b>	17,28 ▪ 1.05	290 ▪ 4200	3000
<b>FP 30•27</b>	26,70 ▪ 1.63	290 ▪ 4200	3000
<b>FP 30•34</b>	34,56 ▪ 2.11	280 ▪ 4050	2800
<b>FP 30•38</b>	39,27 ▪ 2.40	280 ▪ 4050	2800
<b>FP 30•43</b>	43,98 ▪ 2.68	270 ▪ 3900	2500
<b>FP 30•51</b>	51,83 ▪ 3.16	240 ▪ 3500	2500
<b>FP 30•61</b>	61,26 ▪ 3.74	220 ▪ 3200	2000
<b>FP 30•73</b>	73,82 ▪ 4.50	200 ▪ 2900	1800
<b>FP 30•82</b>	81,68 ▪ 4.98	190 ▪ 2750	1800
<b>FP 30•100</b>	100,52 ▪ 6.16	180 ▪ 2600	1800
<b>FP 30•125</b>	125,66 ▪ 7.67	160 ▪ 2300	1800
<b>FORMULA 40</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>FP 40•63</b>	61,43 ▪ 3.75	290 ▪ 4200	2700
<b>FP 40•73</b>	72,60 ▪ 4.43	280 ▪ 4050	2700
<b>FP 40•87</b>	86,56 ▪ 5.28	260 ▪ 3750	2700
<b>FP 40•109</b>	108,90 ▪ 6.64	240 ▪ 3500	2700
<b>FP 40•133</b>	134,03 ▪ 8.18	220 ▪ 3200	2500
<b>FP 40•151</b>	150,79 ▪ 9.20	180 ▪ 2600	2500
<b>FORMULA SFP 30</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>SFP 30•34</b>	35,43 ▪ 2.16	280 ▪ 4050	2800
<b>SFP 30•43</b>	45,09 ▪ 2.75	270 ▪ 3900	2500
<b>SFP 30•51</b>	53,14 ▪ 3.24	250 ▪ 3600	2500
<b>SFP 30•61</b>	62,80 ▪ 3.83	230 ▪ 3350	2500
<b>SFP 30•73</b>	75,68 ▪ 4.62	205 ▪ 2950	2250
<b>SFP 30•82</b>	83,74 ▪ 5.11	195 ▪ 2800	2250
<b>FORMULA SFP 35</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>SFP 35•90</b>	95,99 ▪ 5.86	230 ▪ 3350	2250
<b>SFP 35•100</b>	104,92 ▪ 6.40	220 ▪ 3200	2250
<b>SFP 35•112</b>	118,31 ▪ 7.22	205 ▪ 2950	2250

### MAGNUM series

Gear pumps and motors made of cast iron in three pieces. An extremely versatile and reliable design, also in the most extreme operating conditions.

Displacements from 17,28 cm<sup>3</sup>/rev ▪ 1.05 in<sup>3</sup>/rev to 125,63 cm<sup>3</sup>/rev ▪ 7.66 in<sup>3</sup>/rev available in groups 30 and 35.

Max. peak pressure up to 320 bar ▪ 4650 psi.

Max. speed up to 3000 min<sup>-1</sup>.



### Features

- ◆ Wide range of drive shafts and flanges in SAE version.
- ◆ More choices of port locations.
- ◆ Integrated outboard bearings for heavy duty applications.
- ◆ Multiple units available in standard version, common inlet and separated stages.
- ◆ Exceptional working life expectancy.

### Main characteristics

	Displacement	Max. continuous pressure	Max. speed
<b>MAGNUM 30</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>HD. 30•17</b>	17,28 ▪ 1.05	280 ▪ 4050	3000
<b>HD. 30•22</b>	21,99 ▪ 1.34	280 ▪ 4050	3000
<b>HD. 30•24</b>	24,03 ▪ 1.47	280 ▪ 4050	3000
<b>HD. 30•27</b>	26,70 ▪ 1.63	280 ▪ 4050	3000
<b>HD. 30•34</b>	34,56 ▪ 2.11	270 ▪ 3900	3000
<b>HD. 30•38</b>	39,27 ▪ 2.40	270 ▪ 3900	3000
<b>HD. 30•43</b>	43,98 ▪ 2.68	260 ▪ 3750	3000
<b>HD. 30•51</b>	51,83 ▪ 3.16	230 ▪ 3350	2500
<b>HD. 30•56</b>	56,55 ▪ 3.45	215 ▪ 3100	2500
<b>HD. 30•61</b>	61,26 ▪ 3.74	200 ▪ 2900	2000
<b>HD. 30•73</b>	73,82 ▪ 4.50	190 ▪ 2750	1700
<b>HD. 30•82</b>	81,68 ▪ 4.98	170 ▪ 2450	1500
<b>MAGNUM 35</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>HD. 35•40</b>	40,46 ▪ 2.47	270 ▪ 3900	3000
<b>HD. 35•50</b>	51,10 ▪ 3.12	270 ▪ 3900	3000
<b>HD. 35•63</b>	63,88 ▪ 3.90	270 ▪ 3900	3000
<b>HD. 35•71</b>	72,40 ▪ 4.42	250 ▪ 3600	3000
<b>HD. 35•80</b>	80,91 ▪ 4.94	250 ▪ 3600	3000
<b>HD. 35•90</b>	91,56 ▪ 5.59	230 ▪ 3350	2700
<b>HD. 35•100</b>	100,08 ▪ 6.10	210 ▪ 3050	2700
<b>HD. 35•112</b>	112,85 ▪ 6.88	190 ▪ 2750	2700
<b>HD. 35•125</b>	125,63 ▪ 7.66	170 ▪ 2450	2500

### NOTES

HD. : HDP = pump / HDM = motor

## Aluminium body gear flow dividers

### POLARIS series

Gear flow dividers made of high resistance aluminium alloy. These components can be used as flow equalizers, flow dividers and pressure intensifiers.

Displacements from 2,14 cm<sup>3</sup>/rev ▪ 0.13 in<sup>3</sup>/rev to 33,03 cm<sup>3</sup>/rev ▪ 2.01 in<sup>3</sup>/rev available in groups 10 and 20.

Max. peak pressure up to 280 bar ▪ 4050 psi.



#### Features

- ◆ Modular design.
- ◆ Accurate division of flow.
- ◆ Built-in relief valves.
- ◆ Combinations between different groups.

### Main characteristics

	Displacement	Max. continuous outlet pressure	Max. speed
<b>POLARIS 10</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>PLD 10•2</b>	2,14 ▪ 0.13	250 ▪ 3600	4200
<b>PLD 10•3,15</b>	3,34 ▪ 0.20	250 ▪ 3600	3990
<b>PLD 10•4</b>	4,27 ▪ 0.26	250 ▪ 3600	3940
<b>PLD 10•5</b>	5,34 ▪ 0.33	250 ▪ 3600	3680
<b>PLD 10•6,3</b>	6,67 ▪ 0.41	250 ▪ 3600	3500
<b>POLARIS 20</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>PLD 20•4</b>	4,95 ▪ 0.30	250 ▪ 3600	4100
<b>PLD 20•6,3</b>	6,61 ▪ 0.40	250 ▪ 3600	3970
<b>PLD 20•8</b>	8,26 ▪ 0.50	250 ▪ 3600	3850
<b>PLD 20•11,2</b>	11,23 ▪ 0.69	250 ▪ 3600	3660
<b>PLD 20•14</b>	14,53 ▪ 0.89	250 ▪ 3600	3460
<b>PLD 20•16</b>	16,85 ▪ 1.03	200 ▪ 2900	3335
<b>PLD 20•20</b>	21,14 ▪ 1.29	200 ▪ 2900	3125
<b>PLD 20•25</b>	26,42 ▪ 1.61	200 ▪ 2900	2900
<b>PLD 20•31,5</b>	33,03 ▪ 2.01	200 ▪ 2900	2660

**MAGNUM series**

Gear flow dividers made of cast iron. These components can be used as flow equalizers, flow dividers and pressure intensifiers.

Displacements from 17,28 cm<sup>3</sup>/rev ▪ 1.05 in<sup>3</sup>/rev to 125,63 cm<sup>3</sup>/rev ▪ 7.66 in<sup>3</sup>/rev available in groups 30 and 35.

Max. peak pressure up to 320 bar ▪ 4650 psi.


**Features**

- ◆ Modular design.
- ◆ Accurate division of flow.
- ◆ High flow.
- ◆ Combinations between different groups.

**Main characteristics**

	Displacement	Max. continuous outlet pressure	Max. speed
<b>MAGNUM 30</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>HDD 30•17</b>	17,28 ▪ 1.05	280 ▪ 4050	3000
<b>HDD 30•22</b>	21,99 ▪ 1.34	280 ▪ 4050	3000
<b>HDD 30•27</b>	26,70 ▪ 1.63	280 ▪ 4050	3000
<b>HDD 30•34</b>	34,56 ▪ 2.11	270 ▪ 3900	3000
<b>HDD 30•43</b>	43,98 ▪ 2.68	260 ▪ 3750	3000
<b>HDD 30•51</b>	51,83 ▪ 3.16	230 ▪ 3350	2500
<b>HDD 30•61</b>	61,26 ▪ 3.74	200 ▪ 2900	2000
<b>HDD 30•73</b>	73,82 ▪ 4.50	190 ▪ 2750	1700
<b>HDD 30•82</b>	81,68 ▪ 4.98	170 ▪ 2450	1500
<b>MAGNUM 35</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>HDD 35•50</b>	51,10 ▪ 3.12	270 ▪ 3900	3000
<b>HDD 35•63</b>	63,88 ▪ 3.90	270 ▪ 3900	3000
<b>HDD 35•71</b>	72,40 ▪ 4.42	250 ▪ 3600	3000
<b>HDD 35•80</b>	80,91 ▪ 4.94	250 ▪ 3600	3000
<b>HDD 35•90</b>	91,56 ▪ 5.59	230 ▪ 3350	2700
<b>HDD 35•100</b>	100,08 ▪ 6.10	210 ▪ 3050	2700
<b>HDD 35•112</b>	112,85 ▪ 6.88	190 ▪ 2750	2700
<b>HDD 35•125</b>	125,63 ▪ 7.66	170 ▪ 2450	2500

## Fixed displacement axial piston pumps

### STRADA series

Fixed displacement bent axis piston pumps. STRADA pumps are ideally suited for PTOs applications in vehicles. Displacements from 40,9 cm<sup>3</sup>/rev ▪ 2.49 in<sup>3</sup>/rev to 110 cm<sup>3</sup>/rev ▪ 6.71 in<sup>3</sup>/rev available in groups 32 and 37. Max. peak pressure up to 400 bar ▪ 5800 psi. Max. speed up to 2950 min<sup>-1</sup>.



### Main characteristics

	Displacement	Max. continuous pressure	Max. speed
<b>STRADA 32</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>BAP 32•40</b>	40,90 ▪ 2.49	350 ▪ 5100	2950
<b>BAP 32•50</b>	50,10 ▪ 3.06	350 ▪ 5100	2750
<b>BAP 32•63</b>	63,00 ▪ 3.84	350 ▪ 5100	2450
<b>BAP 32•71</b>	71,60 ▪ 4.37	315 ▪ 4600	2250
<b>BAP 32•80</b>	78,30 ▪ 4.78	315 ▪ 4600	2200
<b>STRADA 37</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>BAP 37•80</b>	79,10 ▪ 4.83	350 ▪ 5100	2500
<b>BAP 37•110</b>	110,00 ▪ 6.71	300 ▪ 4350	2300

### Features

- ✦ Low noise level.
- ✦ Direct mounting on the PTOs.
- ✦ Compact design.
- ✦ High volumetric, mechanical and overall efficiency.
- ✦ Available in ISO and UNI standard.

## PLATA series

Fixed displacement axial piston pumps and motors swash plate design for open circuit applications. The design itself is extremely compact while integrating a number of functions, with an electrically controlled valve on the pump and antishock valves on the motor.

Unidirectional pumps LFP48: displacements from 27 cm<sup>3</sup>/rev ▪ 1.65 in<sup>3</sup>/rev to 48,2 cm<sup>3</sup>/rev ▪ 2.94 in<sup>3</sup>/rev.

Reversible motors LFM30: displacements from 22 cm<sup>3</sup>/rev ▪ 1.34 in<sup>3</sup>/rev to 30,2 cm<sup>3</sup>/rev ▪ 1.84 in<sup>3</sup>/rev.

Max. peak pressure up to 350 bar ▪ 5100 psi.



## Main characteristics

	Displacement	Max. continuous pressure	Max. speed
<b>PLATA pumps</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>LFP 48•27</b>	27,00 ▪ 1.65	280 ▪ 4050	2600
<b>LFP 48•34</b>	34,00 ▪ 2.07	280 ▪ 4050	2600
<b>LFP 48•36,7</b>	36,70 ▪ 2.24	280 ▪ 4050	2600
<b>LFP 48•45,5</b>	45,50 ▪ 2.78	280 ▪ 4050	2600
<b>LFP 48•48</b>	48,20 ▪ 2.94	280 ▪ 4050	2600
<b>PLATA motors</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>LFM 30•22</b>	22,00 ▪ 1.34	280 ▪ 4050	4900
<b>LFM 30•26,5</b>	26,50 ▪ 1.62	280 ▪ 4050	4800
<b>LFM 30•28,5</b>	28,50 ▪ 1.74	280 ▪ 4050	4700
<b>LFM 30•30,2</b>	30,20 ▪ 1.84	280 ▪ 4050	4500

## Pumps features

- ◆ Three-position electrically controlled valve with relief valve.
- ◆ Electronic control of the rotor start-up and stop ramps.
- ◆ Rotation reverse with controlled delay.
- ◆ Easy integration with the machine cabin controls.
- ◆ Auxiliary gear pump with common suction, available with either cast-iron or aluminium body.

## Motors features

- ◆ Reversible rotation with integral antishock valves.
- ◆ European and SAE standard mounting flanges.
- ◆ Side or rear inlet options.
- ◆ Compact size.



## Variable displacement axial piston pumps

### PLATA LVP series

Variable displacement axial piston pumps swash plate design. PLATA pumps are ideally suited for medium and high pressure open circuit applications.

Displacements from 28,49 cm<sup>3</sup>/rev ▪ 1.74 in<sup>3</sup>/rev to 87,90 cm<sup>3</sup>/rev ▪ 5.37 in<sup>3</sup>/rev.

Max. peak pressure up to 350 bar ▪ 5100 psi.

Max. speed up to 3000 min<sup>-1</sup>.



### Main characteristics

	Max displacement	Max. continuous pressure	Max. speed
PLATA LVP	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>LVP 30</b>	28,49 ▪ 1.74	280 ▪ 4050	3000
<b>LVP 48</b>	45,47 ▪ 2.77	280 ▪ 4050	2600
<b>LVP 75</b>	75,53 ▪ 4.61	280 ▪ 4050	2200
<b>LVP 90</b>	87,90 ▪ 5.37	250 ▪ 3600	1850

### Features

- Energy savings.
- Low noise emission.
- Short response time.
- Drive shaft bearing suitable for radial and axial loads.
- Multiple combinations.

### Controls

- Pressure compensator.
- Flow and pressure compensator (Load-Sensing).
- Torque limiter.
- Electrohydraulic servocontrols.

## MVP series

Variable displacement axial piston pumps swash plate design ideally suited for open circuit in mobile hydraulic applications. The compact design allows to be mounted directly on engine motors.

Displacements from 28,5 cm<sup>3</sup>/rev ▪ 1.74 in<sup>3</sup>/rev to 84 cm<sup>3</sup>/rev ▪ 5.12 in<sup>3</sup>/rev.

Max. peak pressure up to 350 bar ▪ 5100 psi.

Max. speed up to 3000 min<sup>-1</sup>.



### Main characteristics

	Max displacement	Max. continuous pressure	Max. speed
<b>MVP</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>MVP 30.28</b>	28,50 ▪ 1.74	280 ▪ 4050	3000
<b>MVP 30.34</b>	33,60 ▪ 2.05	250 ▪ 3600	3000
<b>MVP 48.45</b>	45,00 ▪ 2.75	280 ▪ 4050	3000
<b>MVP 48.53</b>	53,00 ▪ 3.23	250 ▪ 3600	2800
<b>MVP 60.60</b>	60,00 ▪ 3.66	280 ▪ 4050	2700
<b>MVP 60.72</b>	72,00 ▪ 4.39	280 ▪ 4050	2500
<b>MVP 60.84</b>	84,00 ▪ 5.12	250 ▪ 3600	2500

### Features

- ◆ Exceptional working life expectancy.
- ◆ Low noise emission.
- ◆ Drive shaft bearing suitable for radial and axial loads.
- ◆ Multiple combinations.

### Controls

- ◆ Min. and max. displacement limiter.
- ◆ Pressure compensator.
- ◆ Flow and pressure compensator (Load-Sensing).
- ◆ Torque limiter.

## Variable displacement axial piston pumps

### PLATA SVP - DVP series

Variable displacement axial piston pumps swash plate design for open circuit applications. SVP single flow, DVP dual flow on piston pump and an additional piggybacked gear pump. The automatic overall torque limiter allows to optimize the performance of the machine. SVP and DVP pumps have been designed specifically for mini excavators where compactness and ease of installation are critical.

Piston pump: displacements from 7,8 cm<sup>3</sup>/rev ▪ 0.48 in<sup>3</sup>/rev to 30 cm<sup>3</sup>/rev ▪ 1.83 in<sup>3</sup>/rev.

Gear pump: displacements from 4,95 cm<sup>3</sup>/rev ▪ 0.30 in<sup>3</sup>/rev to 21,14 cm<sup>3</sup>/rev ▪ 1.29 in<sup>3</sup>/rev.

Max. speed up to 2600 min<sup>-1</sup>.



#### SVP and DVP features

- ◆ Compact design.
- ◆ Torque limiter.
- ◆ Energy savings.
- ◆ Low noise emission.
- ◆ Long service life.

#### Main characteristics

	Max displacement	Max. continuous pressure	Max. speed
<b>PLATA SVP</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>SVP 7,8</b>	15,60 ▪ 0.95	210 ▪ 3050	2600
<b>SVP 8</b>	16,00 ▪ 0.98	210 ▪ 3050	2600
<b>SVP 8,5</b>	17,00 ▪ 1.04	210 ▪ 3050	2600
<b>SVP 9</b>	18,00 ▪ 1.10	210 ▪ 3050	2600
<b>SVP 10</b>	20,00 ▪ 1.22	210 ▪ 3050	2600
<b>SVP 11</b>	22,00 ▪ 1.34	210 ▪ 3050	2600
<b>SVP 12,5</b>	25,00 ▪ 1.53	210 ▪ 3050	2600
<b>SVP 14</b>	28,00 ▪ 1.71	210 ▪ 3050	2600
<b>SVP 15</b>	30,00 ▪ 1.83	210 ▪ 3050	2600

	Max displacement	Max. continuous pressure	Max. speed
<b>PLATA DVP</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>DVP 7,8</b>	7,80x2 ▪ 0.48x2	210 ▪ 3050	2600
<b>DVP 8</b>	8,00x2 ▪ 0.49x2	210 ▪ 3050	2600
<b>DVP 8,5</b>	8,50x2 ▪ 0.52x2	210 ▪ 3050	2600
<b>DVP 9</b>	9,00x2 ▪ 0.55x2	210 ▪ 3050	2600
<b>DVP 10</b>	10,00x2 ▪ 0.61x2	210 ▪ 3050	2600
<b>DVP 11</b>	11,00x2 ▪ 0.67x2	210 ▪ 3050	2600
<b>DVP 12,5</b>	12,50x2 ▪ 0.76x2	210 ▪ 3050	2600
<b>DVP 14</b>	14,00x2 ▪ 0.85x2	210 ▪ 3050	2600
<b>DVP 15</b>	15,00x2 ▪ 0.91x2	210 ▪ 3050	2600

	Max displacement	Max. continuous pressure	Max. speed
<b>Gear pump</b>	(cm <sup>3</sup> /rev ▪ in <sup>3</sup> /rev)	(bar ▪ psi)	(min <sup>-1</sup> )
<b>KP 20•4</b>	4,95 ▪ 0.30	285 ▪ 4150	2600
<b>KP 20•6,3</b>	6,61 ▪ 0.40	285 ▪ 4150	2600
<b>KP 20•8</b>	8,26 ▪ 0.50	285 ▪ 4150	2600
<b>KP 20•11,2</b>	11,23 ▪ 0.69	275 ▪ 4000	2600
<b>KP 20•14</b>	14,53 ▪ 0.89	265 ▪ 3850	2600
<b>KP 20•16</b>	16,85 ▪ 1.03	260 ▪ 3750	2600
<b>KP 20•20</b>	21,14 ▪ 1.29	210 ▪ 3050	2600

### Up Easy series

Double acting hand pumps providing flow in both directions of lever movement.  
Displacement from 12 cm<sup>3</sup>/cycle ▪ 0.73 in<sup>3</sup>/cycle to 45 cm<sup>3</sup>/cycle ▪ 2.75 in<sup>3</sup>/cycle.  
Max. pressure 315 bar ▪ 4600 psi.



#### Main characteristics

	Displacement	Max. pressure
<b>Up Easy</b>	(cm <sup>3</sup> /cycle ▪ in <sup>3</sup> /cycle)	(bar ▪ psi)
<b>EP 12</b>	12 ▪ 0.73	315 ▪ 4600
<b>EP 25</b>	25 ▪ 1.53	250 ▪ 3600
<b>EP 45</b>	45 ▪ 2.75	220 ▪ 3200

#### Features

- ◆ New interchangeable modular design for maximum flexibility.
- ◆ Same pumping group with or without reservoir.
- ◆ Suitable for auxiliary or emergency applications.



## **Product range**

**Suction filters**

**In line filters spin-on**

**Tank mounted return line filters**

**In line medium and high pressure filters**

**Accessories**



IKRON "Fluid Filtration", real specialist in designing and manufacturing of hydraulic filters. More than fifty years of experience taught Casappa just how important filtering is to optimise hydraulic control system efficiency and to extend component service life.

Since its foundation, IKRON has followed the ISO 9001:2000 procedures, guaranteeing the care and professionalism for which its production has always been distinguished, from design to delivery. This is why our customers rely on IKRON every day.

**IKRON S.r.l.**

43044 Lemignano Di Collecchio  
Via Prampolini, 2 - Parma - Italy  
Tel. +39 0521 30 49 11 - Fax +39 0521 30 49 00  
E-mail: [info@ikron.it](mailto:info@ikron.it)  
[www.ikron.it](http://www.ikron.it)



IKRON uses virtual simulation tools during the design phase to analyse and predict how its products will behave when installed in the hydraulic circuit.

Ikron offers a wide range of filters and accessories. Suction filters, return filters, in line spin-on filters, medium and high pressure filters. Clogging indicators, level and temperature gauges, filler breathers.





## Suction filters

The tank submerged suction filters are designed to be fitted directly on pump intake and provide versatility to safeguard the hydraulic components from contaminating particles.



### HF 410-412 series

- ◆ By-pass valve.
- ◆ Magnetic set.

### Main characteristics

Type	Nominal flow up to (l/min ▪ US gpm)	Degree of filtration*	
		MS (µm)	MI (µm)
<b>HF 410</b>	300 ▪ 79	90	25-60-125-250
<b>HF 412</b>	140 ▪ 37	90	25-60-125-250

## In line filters spin-on

These filters are specifically designed to be connected on the suction or in the return line of the hydraulic circuit and provide versatility to safeguard the circuit components from contaminating particles.



### HF 620-625 series

- ◆ Easy filtering elements replacement.
- ◆ Differential control of the clogging values.

### HF 650 series

- ◆ Easy filtering elements replacement.
- ◆ High filtration performances.
- ◆ High resistance filtering elements.



### Main characteristics

Type	Nominal flow up to (l/min ▪ US gpm)	Operating pressure (bar ▪ psi)	Degree of filtration*			
			FG (µm)	MS (µm)	SP (µm)	RP (µm)
<b>HF 620</b>	400 ▪ 106	12 ▪ 174	10-25	60-90-125	10-25	
<b>HF 625</b>	200 ▪ 53	25 ▪ 360	10-25	60-90-125	10-25	
<b>HF 650</b>	180 ▪ 48	35 ▪ 510	3-6-10-16-25			10-25

#### NOTES

(\*): FG = micro-fibre glass / MS = zinc plated steel wire mesh / MI = stainless steel wire mesh / SP = cellulose / RP = reinforced cellulose



**Tank mounted return line filters**

These filters are specifically designed to be directly connected on the hydraulic circuits return line and provide versatility to safeguard the circuit components from contaminating particles.


**HF 502 series**

- ▶ Minimum extension from the tank.
- ▶ Interchangeable with HF 550 and HF 554 series.


**HF 547 series**

- ▶ Air breather (available also with pressurized version).
- ▶ Antisplash system.
- ▶ Anodized housing.
- ▶ Flange with four holes (only HF 547-20).


**HF 550 series**

- ▶ Oversize filtering surface. ◆
- ▶ Multilayer system. ◆
- ▶ Filler cap. ◆

**HF 554 series**

- ▶ Oversize filtering surface. ◆
- ▶ Multilayer system. ◆
- ▶ Air breather (available also with pressurized version). ◆
- ▶ Antisplash system. ◆
- ▶ Anodized housing. ◆

**HF 570-575 series**

- ▶ Inside-to-outside direction of flow filtration.
- ▶ Full flow magnetic pre-filtration on the hydraulic return line.
- ▶ Filler cap.


**Main characteristics**

Type	Nominal flow up to (l/min ▪ US gpm)	Operating pressure (bar ▪ psi)	Degree of filtration*					
			FG (µm)	FB (µm)	MS (µm)	MI (µm)	SP (µm)	RP (µm)
<b>HF 502</b>	800 ▪ 210	8 ▪ 115	3-6-10-25	60-125	90-250	25	10-25	10-25
<b>HF 550</b>	600 ▪ 158	8 ▪ 115	3-6-10-25	60-125	90-250	25	10-25	10-25
<b>HF 547</b>	200 ▪ 53	8 ▪ 115	3-6-10-25	60-125	90-250	25	10-25	10-25
<b>HF 554</b>	200 ▪ 53	8 ▪ 115	3-6-10-25	60-125	90-250	25	10-25	10-25
<b>HF 570</b>	1000 ▪ 264	8 ▪ 115	10-25		10-25			
<b>HF 575</b>	1000 ▪ 264	8 ▪ 115	10-25		10-25			

## NOTES

(\*): FG = micro-fibre glass / FB = phosphor bronze / MS = zinc plated steel wire mesh / MI = stainless steel wire mesh / SP = cellulose / RP = reinforced cellulose

## In line medium and high pressure filters

The in-line medium and high pressure filters are specifically designed to be connected on the pressure line of the hydraulic circuit and provide versatility to safeguard the circuit components from contaminating particles.



### HF 705 series

- ◆ Sintered bronze filter element.
- ◆ Bidirectional flow.
- ◆ Compact design.

### HF 725 series

- ◆ CETOP 3 connections with reference to ISO4401. ◆
- ◆ Operating pressure 350 bar G 5100 psi. ◆
- ◆ Modular assembly. ◆
- ◆ Compact design and low weight. ◆



### HF 735 series

- ◆ Compact design and low weight.
- ◆ Multilayer system.
- ◆ Also to be flanged directly on valve blocks and hydraulic Power-Pack.
- ◆ Filtration ratio  $\beta_{x \geq 200}$ .



### HF 745 series

- ◆ Compact design and low weight. ◆
- ◆ Great interchangeability. ◆
- ◆ Multilayer system. ◆
- ◆ Filtration ratio  $\beta_{x \geq 200}$ . ◆



### HF 760 series

- ◆ Multilayer system.
- ◆ Wide range 20 - 30 - 40.
- ◆ High ratio flow/head dimension.
- ◆ Filtration ratio  $\beta_{x \geq 200}$ .

## Main characteristics

Type	Nominal flow up to (l/min ▪ US gpm)	Operating pressure (bar ▪ psi)	Degree of filtration*		
			FG (µm)	MI (µm)	SB (µm)
<b>HF 705</b>	65 ▪ 17.2	350 ▪ 5100			10-25-40-60
<b>HF 725</b>	40 ▪ 10.6	350 ▪ 5100	3-6-10-25	10-25	
<b>HF 735</b>	150 ▪ 40	320 ▪ 4650	3-6-10-25		
<b>HF 745</b>	90 ▪ 24	280 ▪ 4050	3-6-10-25		
<b>HF 760</b>	400 ▪ 106	420 ▪ 6100	3-6-10-25		

NOTES (\*): FG = micro-fibre glass / MI = stainless steel wire mesh / SB = sintered bronze

## Accessories

Filler breathers - Air filters - Level and temperature gauges - Pressure gauges - Pressure/Vacuum gauges clogging indicators: visual, electrical, visual differential and electrical visual differential.





**WALVOIL FLUID POWER INDIA PVT. LTD.**  
23, Doddanekundi Industrial Area,  
Behind Graphite India, Mahadevapura Post  
Bangalore - 560048, India  
Telephone +91 80 41842901  
Fax +91 80 41842900  
e-mail: [info@walvoil.co.in](mailto:info@walvoil.co.in)