

The twin flow pump for hard work in the forest!

Maximum reliability with advanced performance!

For many tasks you can hardly have too much power – for example on a forestry truck, which works hard with heavy loads day in, day out. But raw power alone is not enough. It needs to be combined with reliability and precise control if the gains are to be realised in the form of maximised productivity.

Simple and reliable with twin flows!

Applications such as forestry truck cranes, where several separate flows are needed, make heavy demands on the hydraulic system. But it is not necessary to invest in an advanced load sensing system, with a variable pump, to get the performance and control that is needed in the timber hauling business. The solution is the new F2-70/70 – just as sophisticated and powerful as it is simple and robust!

Profitable simplicity

With an F2-70/70 you get the right power for the heavy jobs, with the right amount of oil for each function, in a supremely simple system. High overall efficiency gives lower fuel consumption, but

more importantly it generates less excess heat in the hydraulic system. The lower working temperature results in improved reliability and a longer service life for every single component. This is especially true for the hydraulic oil, which ages far more slowly.

Thus, the high efficiency of the F2-70/70 does not only make it powerful – it also helps you lower your costs significantly, on a daily basis as well as in the long run.

The right performance for the forest

The F2 series is based on the well-proven bent-axis principle, which in addition to high efficiency also gives compact dimensions. The new F2-70/70 completes the F2 family, bringing performance perfectly tailored for the specific requirements of forestry truck cranes. Weighing only 19 kg, it puts out as much as 135 kW – powerful enough not constantly operate at the limit, but not so powerful that it puts unnecessary strain on the power take-off.

In brief: in the forest, twin flow is twice as good!



JUST 19 KG - WITH
135 kW
CORNER POWER!

“The perfect solution for you if you haul a lot of timber – but not so much that you are prepared to invest in a load sensing system!”

Parker

NEW
70/70
SIZE!

- + Robust and reliable!
- + Optimised performance!
- + Easy installation!
- + For open centre valves!
- + Minimal maintenance!
- + Up to 2x116 l/min
- = Profitable from day one!



Parker



Higher efficiency = fuel savings!

The higher efficiency and the lower thermal losses of a correctly dimensioned twin flow pump system (compared to a single flow pump with flow divider) means lower temperatures, which extend the service life of the hydraulic oil and all the components of the entire system. This also contributes to significantly lower fuel consumption.

The F2 twin flow pumps also benefit from Parker's vast experience in bent-axis pumps, which has resulted in an unbeatable volumetric efficiency – as high as 98 percent. You may think that one percent more or less is not important, but for a typical forestry truck crane in operation for two hours a day, every single percentage point of volumetric efficiency equals half a litre of diesel – every day. You get further savings from the improved productivity resulting from smoother operation – and you help to reduce the impact on the environment. All this means an investment in a Parker F2 system will be a profitable one – from every aspect!

Technical data

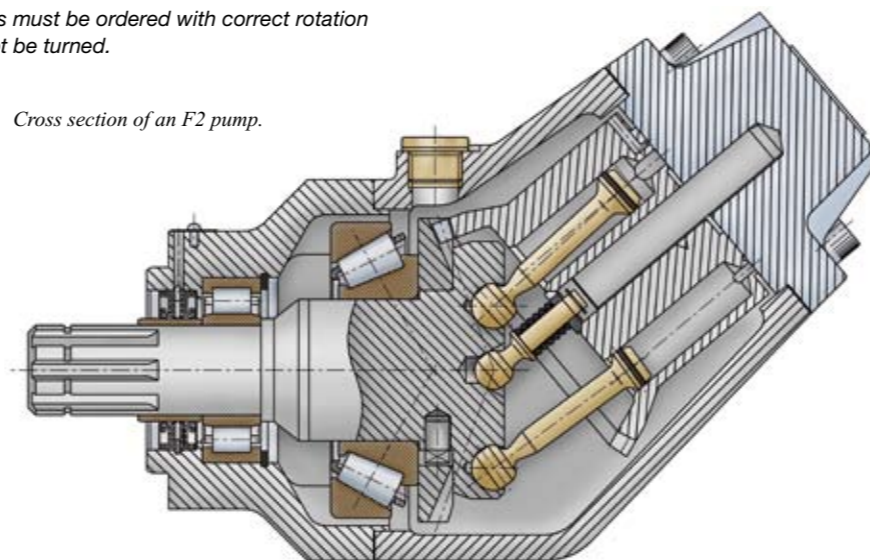
The twin flow F2 pump series has been developed to offer a cost-effective and extremely robust, reliable solution for demanding applications with multiple simultaneous functions. The F2 series is available in five sizes to suit any type of application and any engine PTO gearing. The new F2-70/70 is especially well suited for forestry crane applications.

Specifications	Frame size:	NEW SIZE!				
		42/42	55/28	53/53	70/35	70/70
Displacement (cm ³ /rev)	Port A	43	55	54	69	68
	Port B	41	28	52	36	68
Operating pressure (bar)	Max. continuous	350	350	350	350	300
	Max. intermittent	400	400	400	400	350
Max. shaft speed (rpm)	unloaded pump, low pressure	2550	2550	2550	2550	2550
	Max. self-priming speed (rpm)					
Input power (kW)	Ports A ¹⁾ and B ¹⁾ pressurised	1800 ²⁾	1800 ²⁾	1800 ²⁾	1800 ²⁾	1650 ³⁾
	Port A ¹⁾ unloaded, pressure in port B	2100	2100	2100	2100	2100
	Max. intermittent ⁴⁾	99	99	126	126	131
Weight (kg)	Max. continuous	88	88	110	110	112
		19	19	19	19	19
Ordering number, right rotation (R)		3784042	3784128	3781453	3781470	3784070
Ordering number, left rotation (L)		3784043	3784129	3781454	3781471	3784071

- 1) Measured at 1.0 bar abs. inlet pressure.
- 2) Valid with 2 1/2" inlet (suction) line. With 2" inlet line: max. 1400 rpm.
- 3) Valid with 3" inlet (suction) line.
- 4) Max. 6 seconds in any one minute.

NOTE: F2 pumps must be ordered with correct rotation – endcap can not be turned.

Cross section of an F2 pump.



New power for the forest

The twin flow pump for forestry cranes: F2-70/70

Cost-effective and extremely robust – the right power for the tough jobs

The F2 family – pumps for every need



F2-42/42 **F2-55/28** **F2-53/53** **F2-70/35** **F2-70/70**

41+43 or 84 l/min @1000 r/min 55+28 or 83 l/min @1000 r/min 52+54 or 106 l/min @1000 r/min 69+36 or 105 l/min @ 1000 r/min 68+68 or 136 l/min @1000 r/min



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