

F1 – The Unbeatable Truck Pump!

For nearly three decades, the F1 pump series has been the leading benchmark of the truck hydraulics business. A unique product, built to a design that has become an industry standard, synonymous with high quality and unbeatable performance.

Still the best

The F1 pump series of today offers several additional values on top of all the legendary features of the first version of the F1, one of many being our awareness of the environment through its minimised risk of leakage, its low noise levels and its economical use of materials.

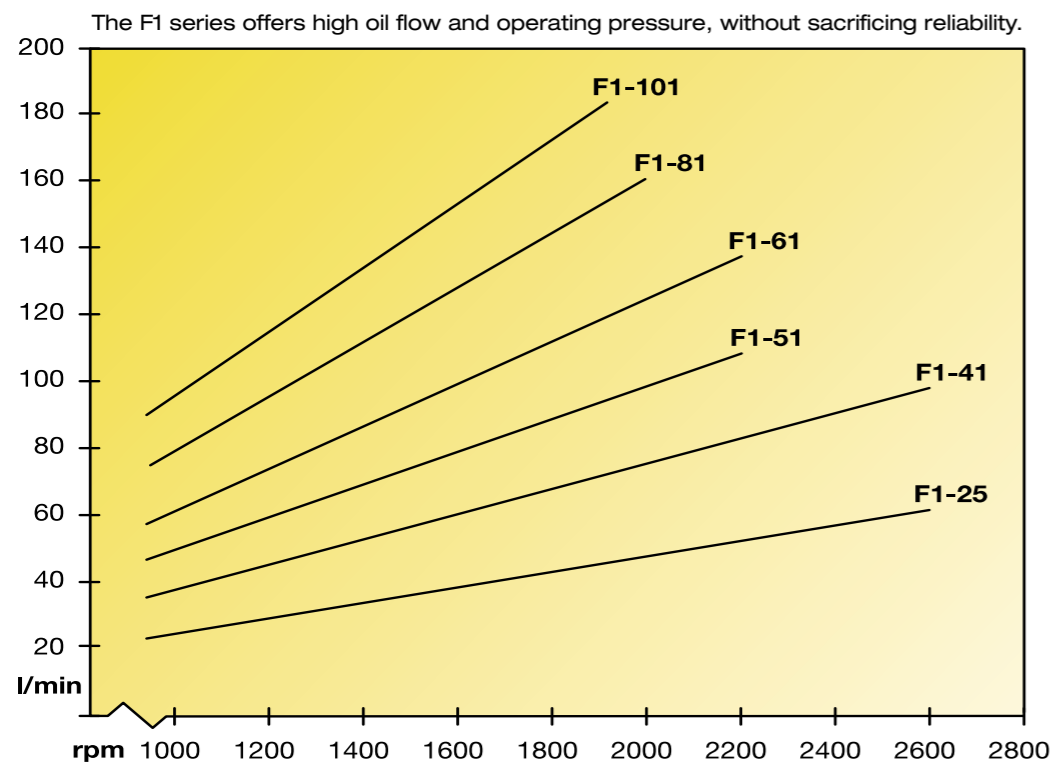
A simply perfect choice

The F1 is a very compact design, with a carefully selected range of sizes and accessories to make it easy to choose the

right pump for every type of application. With its many unrivalled features, the F1 offers the truck owner a superior overall economy in combination with equally superior performance and reliability. Together with Parker's worldwide support, this adds up to the F1 being the perfect choice whatever the job is.

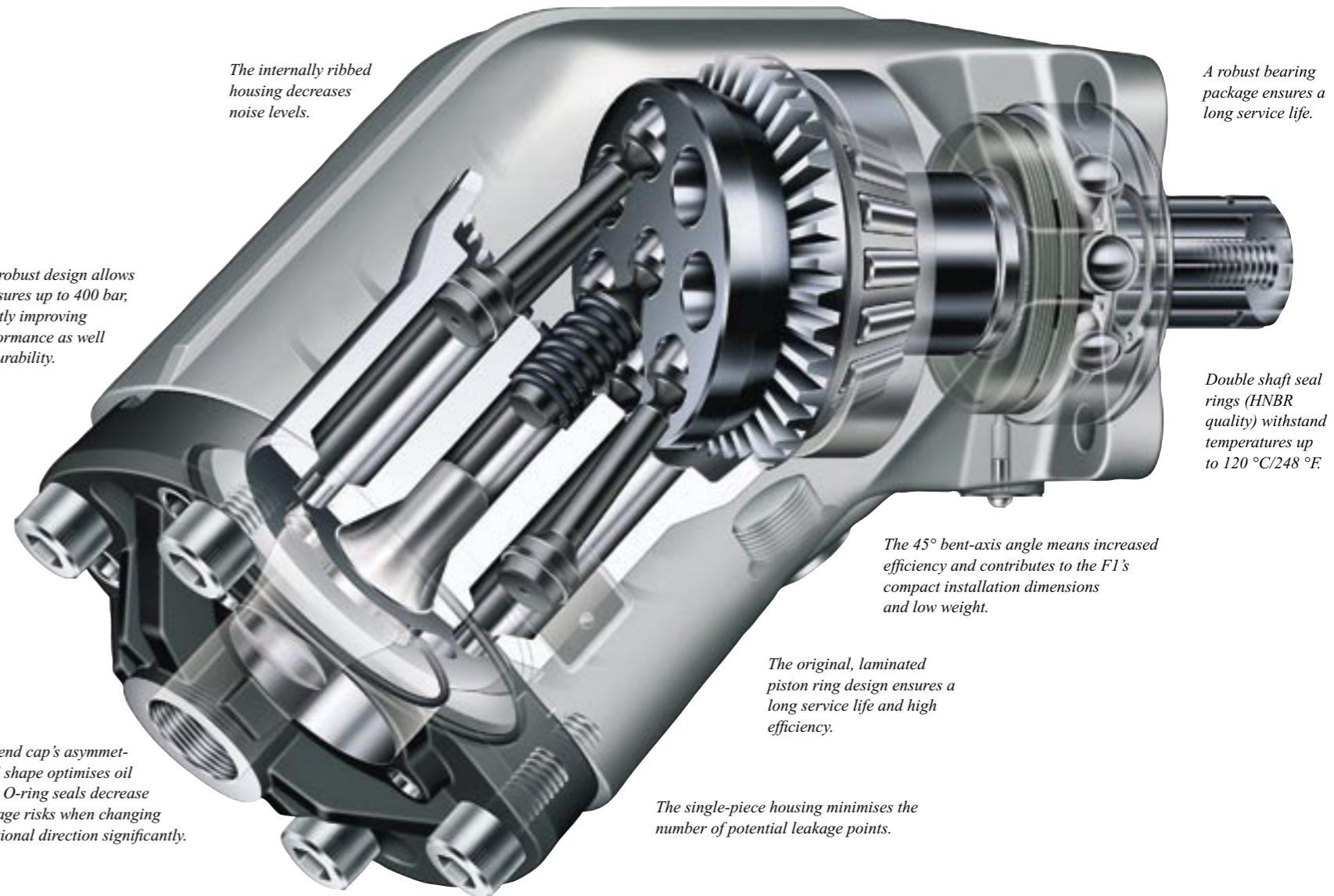


The F1 pump is offered in six sizes, all providing high performance and a favourable overall economy compared to its competitors.



F1 in comparison – a complete winner:

- **High performance**
- **Efficient**
- **Low noise**
- **Compact – low weight**
- **Reliable – long life**
- **Eco-friendly**



The internally ribbed housing decreases noise levels.

A robust bearing package ensures a long service life.

The robust design allows pressures up to 400 bar, greatly improving performance as well as durability.

Double shaft seal rings (HNBR quality) withstand temperatures up to 120 °C/248 °F.

The 45° bent-axis angle means increased efficiency and contributes to the F1's compact installation dimensions and low weight.

The original, laminated piston ring design ensures a long service life and high efficiency.

The single-piece housing minimises the number of potential leakage points.

The end cap's asymmetrical shape optimises oil flow. O-ring seals decrease leakage risks when changing rotational direction significantly.

TYPICAL APPLICATIONS: FORESTRY CRANES • SKIP LOADERS • REFUSE COLLECTION VEHICLES • CARGO CRANES • HOOK LOADERS



Technical Data in Summary

The current F1 Series is the result of continuous development in close co-operation with end users, to meet and exceed the ever increasing demands of discerning customers worldwide. It offers many additional values for operators of cargo cranes, hook loaders, skip loaders, forestry cranes, concrete mixers and other similar truck applications. The small envelope size makes for a simple, inexpensive and eco-friendly installation, requiring a minimum of piping.



Specifications	Size:	25	41	51	61	81	101
Displacement (cm ³ /rev)		26	41	51	60	82	103
Max. flow ¹ (l/min)	at 350 bar	67	98	112	131	163 ³	185 ³
	at 400 bar	56	86	97	113	143	160
Max. operating pressure (bar)	continuous	350	350	350	350	350	350
	intermittent	400	400	400	400	400	400
Shaft speed (rpm)	short-circuited pump (low pressure)	2700	2700	2700	2700	2300	2300
	max speed at 350 bar ²	2600	2400	2200	2200	2000 ³	1800 ³
	max speed at 400 bar ²	2200	2100	1900	1900	1750	1550 ³
Torque ¹ (Nm)	at 350 bar	142	227	284	331	453	572
	at 400 bar	163	260	324	378	518	653
Input power (kW)	continuous	31	46	52	61	76	86
	intermittent ⁴	39	57	66	76	95	108
Weight (kg)		8.5	8.5	8.5	8.5	12.5	12.5

1) Theoretical values.

2) Valid at an inlet pressure of 1.0 bar (abs.) when operating on mineral oil at a viscosity of 30 mm²/s (cSt).

3) Valid with 2 1/2" inlet (suction) line. With 2" suction line: F1-81 – max 1400 rpm. F1-101 – max 1200 rpm.

4) Max. 6 seconds in any one minute.

For noise level information, contact your Parker representative.



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The Unbeatable Truck Pump for demanding applications

Hydraulic Pump Series F1, Fixed Displacement