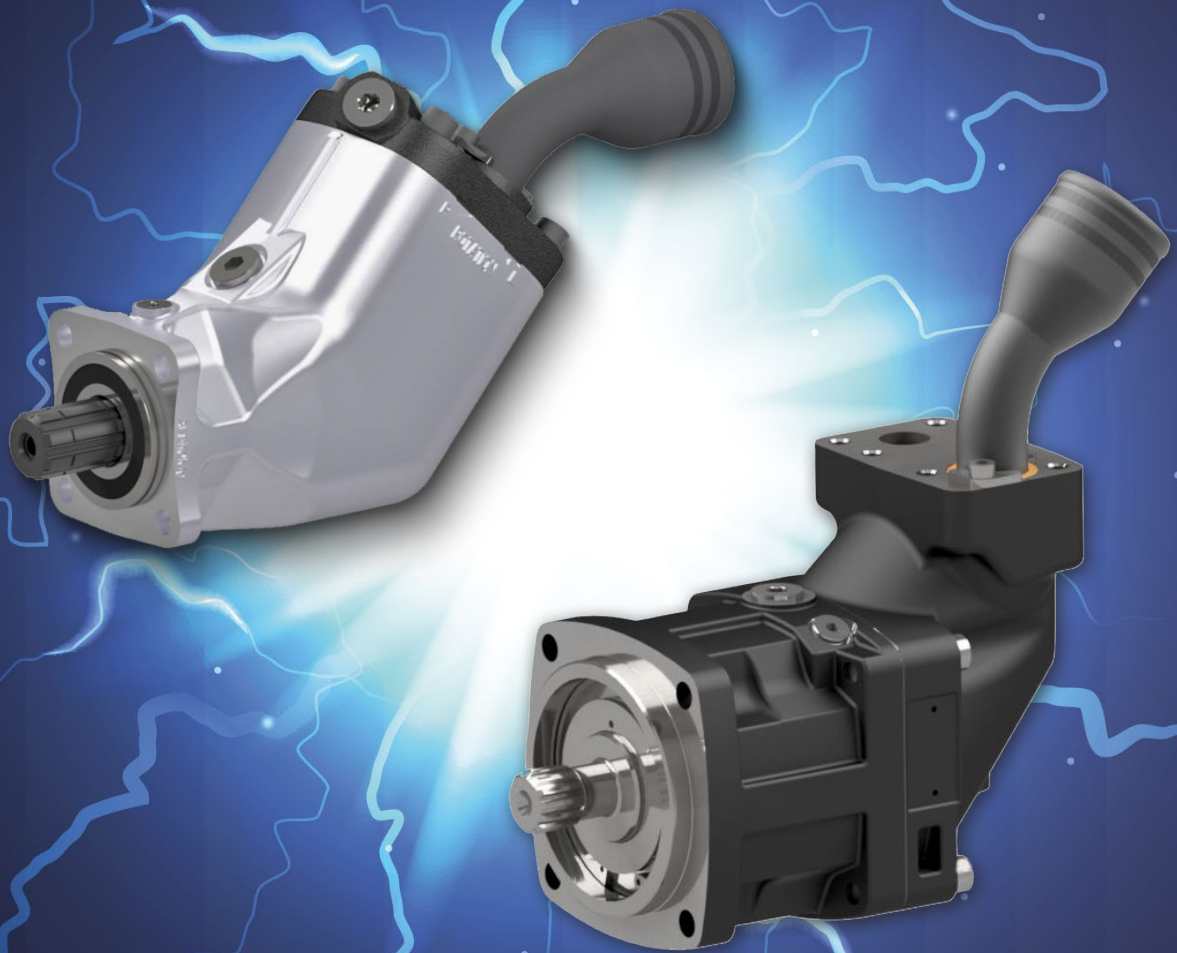




MOBILE HYDRAULICS INNOVATION

Products & Custom Solutions
Optimized for Electrification with our Pump Series F1e & F12e



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the F1e & F12e Series..... 5



Watch our Video
“eReady pumps
series F1e & F12e”.



NEW PARKER eSERIES

Parker expands its Bent axis portfolio by adding the new F1e and F12e series, optimized for electrification.



F12e - Parker's Bent axis eReady pump



Parker's configured ePump with a GVM Motor and a F12e Pump



F1e - Parker's Bent axis eReady pump

The new eSeries is utilizing the high efficient bent axis concept with an increased speed range and reduced noise level.

It is utilizing the highly efficient Parker bent axis design, with the unique spherical piston concept. The well proven gear synchronization and double tapered bearing concept gives a very robust and reliable pump in demanding applications, applicable for both open and closed loop systems. Combined with our well proven track record of durable pumps, we have an outstanding up-time.

Improvements in pressure pulsation and high speed capability is ensuring pressure and flow performance at the highest levels of system efficiency together with lower noise emissions.



Parker's Global expertise within:

- Hydraulics
- Electric motors
- Inverters
- Installation technologies

creating an optimized and customizable system for electrified machines.



MAIN TECHNICAL DATA

	F1e		F12e		
Frame size	61	81	60	80	90
Displacement [cm ³ /rev]	59.5	81.6	59.8	80.4	93
Interface¹⁾					
Flange	ISO 7653	ISO 7653	SAE C	SAE C	SAE C
Shaft Spline	B8x32x36 (ISO 14/DIN 5462)	B8x32x36 (ISO 14/DIN 5462)	14T, ¹² / ₂₄ DP	14T, ¹² / ₂₄ DP	14T, ¹² / ₂₄ DP
Operating pressure					
Max intermittent ²⁾ [bar]	400	400	500	500	420
Max continuous [bar]	350	350	450	450	350
Max pump selfpriming speed³⁾					
R function; max [rpm]	2400	2200	2800	2500	2500
Min continuous [rpm]	0	0	0	0	0
Noise reduction⁴⁾					
Reduced noise level [dBA]	<-6	<-6	<-6	<-6	<-6
Pressure pulsation	-40 %	-40 %	-40 %	-40 %	-40 %
Max input power²⁾ [kW]	83	105	118	146	109
Mass moment of inertia					
(x10 ³) [kg m ²]	2.57	5.32	5	8.4	8.4
Weight [kg]	8.5	12.5	20.2	26.1	26.1

1) Other interfaces available, please contact Parker

2) Intermittent: max 6 seconds in any one minute

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

4) Compared to standard

MAIN REASONS TO CHOOSE THE F1e & F12e SERIES



**Silent
operation**



**Unbeatable
efficiency**



**High & Low
speed
capability**



**Consistent
performance
over lifetime**



**High
pressure
rating**

The main benefits with F1e and F12e are closely tied to performance, cost savings, and adaptability in a broad spectrum of applications. They provide precise control and optimal performance at both high and low speeds, suitable for various applications. High efficiency reduces energy consumption, while a wide speed range allows for operation at the most energy-efficient speeds, leading to significant cost savings. Lower energy use and precise speed control minimize wear and tear, extending equipment life and lowering maintenance expenses. These units can be adapted to a wide array of tasks, making them a flexible solution for different operational requirements.

The combination of high efficiency and a wide speed range offers a compelling mix of performance, cost savings, and operational versatility, making it a desirable feature for a wide range of industrial and mobile applications.

F1e and F12e has a 40 % reduction in pressure pulsation which reduces the noise level in hydraulic systems. Pressure pulsations in hydraulic systems can lead to vibrations as the fluctuating pressures cause components to move or oscillate. By reducing these pulsations, the source of vibration is minimized, which in turn reduces the noise generated by vibrating components or the structure to which they are attached. The pressure pulsations themselves can be a direct source of noise, as rapid changes in pressure can lead to fluctuations in fluid density and velocity, creating sound waves. Reducing these pulsations directly lowers the intensity of sound waves generated within the system.

Efficiency up to 98 %, for further details, please contact Parker.



Performance

Efficiency, pressure & speed, Energy recovery (4-quadrant operation)



Total cost of ownership

Less maintenance & downtime



Quality

Runtime, reliability & durability



Delivery

Short lead time, just in time with right amount.



Vision

Engineering Your Success



Sustainability

Parker's interconnected portfolio of technologies make the world cleaner, smarter and safer.



Safety

Zero safety Incident



Ethics

Whether we are interacting with customers, our partners, or each other, Parker operates in a manner that is respectful, ethical, and guided by character.



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