

THIS IS SETTING NEW STANDARDS

New Electronic Control

eP2 / eP3

The Successor to P2/P3

After having proven in load-sensing systems for many years Parker's series P2/P3 is now extended by a new electronic control concept, setting new standards in **RESPONSIVENESS**, **STABILITY** and **EFFICIENCY**.

Beside the standard electronic displacement control function which can easily be integrated into existing system control logics eP2/eP3's hardware also grants for electronic pressure limitation, torque control and speed compensation.

Fuel Savings

Compared to a conventional hydro-mechanical compensator based approach the electronic displacement control of eP2/eP3 is characterized by a significantly reduced compensator oil consumption.

Performance & Productivity

Featuring an electronic displacement feedback the new design takes advantage of a closed control loop, which provides for increased accuracy and system response as well as minimized oscillation.



Features and benefits of eP2/eP3

- Increased Fuel Efficiency
- Highest Productivity
- Optimized Performance
- Extended Monitoring Functions
- Easy System integration with CAN - J1939



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eP2/eP3 Technical Specifications

		eP2			eP3	
		eP2075	eP2105	eP2145	eP3105	eP3145
Pump Size						
Max. displacement	[cm ³ /rev]	75	105	145	105	145
Self priming speed at 1 bar absolute inlet pressure ¹⁾	[rpm]	2500	2300	2200	2600	2500
Nominal pressure ²⁾	[bar]	320	350	350	350	350
Minimum inlet pressure, absolute	[bar]	0.8				
Maximum inlet pressure, absolute	[bar]	10	10	10	1.5	1.5
Maximum case drain pressure, absolute	[bar]	1.5				
Minimum outlet pressure, absolute	[bar]	15				
Weight with electronic displacement control (EC, EF)	[kg]	41.6	63	75.6	62	73.6
Mass moment of inertia (at axis of shaft)	[kg m ²]	0.0101	0.0168	0.0241	0.0177	0.0264

¹⁾ Detailed inlet characteristics (at varying speed, displacement and inlet pressure conditions) can be taken from catalog HY30-2800/UK

²⁾ For maximum operating pressures exceeding above mentioned nominal ratings please consult manufacturer.

For more info visit:
www.parker.com/eP2

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