

Downforce Control Valve - EPR083R

For Ground Engaging Machinery



Precision Control With Low Power Draw

As agriculture pull behind implements trend toward precision control and electrification, minimizing electrical power draw is essential. The Parker Downforce Control Valve is specially designed for this market to keep overall electrical requirements low. Where competitive pressure control valves can require two or more amps to reach maximum pressure, the EPR083R valve achieves max pressure at less than 0.8 amps. This can reduce or even eliminate the need to provide additional electrical power to a system such as a hydraulically driven alternator and battery system.



Contact Information:

Parker Hannifin Corporation
Hydraulic Cartridge Systems
595 Schelter Road
Lincolnshire, IL 60069
phone 847 955 5000
HCSinfo@parker.com

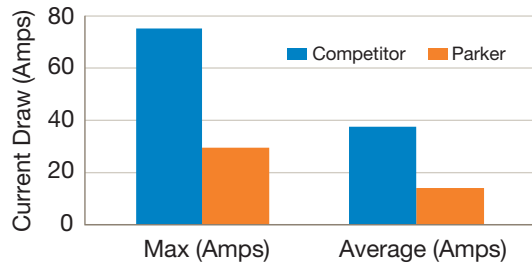
Product Features:

- **Low Current Draw**
Maximizes the number of rows controlled for a given power consumption
- **Low Hysteresis**
Repeatable accurate control pressure
- **Low Leakage**
Minimizes losses, improving hydraulic efficiency
- **Linear Control Curve**
Allows for simplified controls development



ENGINEERING YOUR SUCCESS.

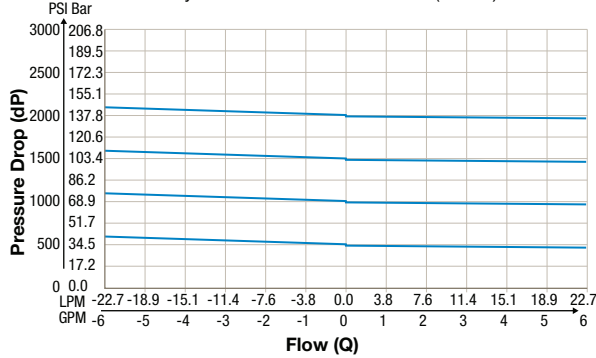
36 Row Current Draw (12V System)



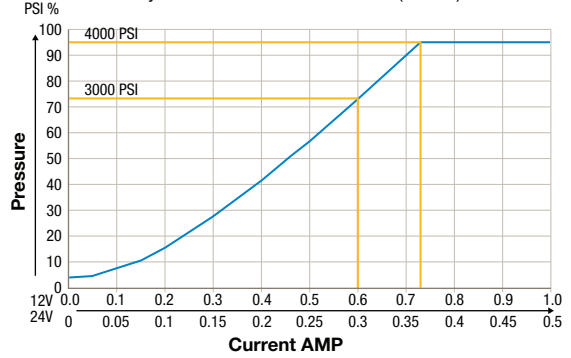
| 12V System | Number of Rows | | |
|---------------------------|----------------|--------|--------|
| | 16 | 24 | 36 |
| Max Competitor | 33.6 A | 50.4 A | 75.6 A |
| Average Competitor | 16.8 A | 25.2 A | 37.8 A |
| Max Parker | 12.8 A | 19.2 A | 28.8 A |
| Average Parker | 6.4 A | 9.6 A | 14.4 A |

In addition to low power, the low hysteresis and linear characteristic makes control of the valve simple and repeatable.

Regulated Pressure vs. Flow (Through cartridge only)
Hydraulic Oil 150 SSU @ 100 F (32 cSt)



Pressure Gain Code -40
Hydraulic Oil 150 SSU @ 100 F (32 cSt)



Capable of handling up to 8 GPM, the valve can be used to control multiple cylinders at one time for either individual or section control.

