Precision Force Actuator

For Ground Engaging Machinery,
Sweeping and Clamping Applications

Efficient Hydraulic Force Control

The Parker Precision Force Actuator usesless electrical power than other similar designs. It also defaults to max force, making it perfect for applications where full force is a preferred default setting. Also a single command signal can be used to control force in the positive and negative directions.

Standard Pin: 651018

Typical applications include:

- Agriculture ground engaging equipment
- Sweeping applications
- Clamping applications
- Other precision force applications

Contact Information:

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14249 Industrial Pkwy.
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Features & Benefits:

- Simple single control solenoid for both positive and negative force command
- Max force default
- Multiple pressure and tank ports for series installation
- Low power consumption

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Hydraulic Characteristics*

- Max operating pressure – 3000 psi (207 Bar)
- Peak Pressure – 5000 psi (344 Bar)
- Cap end area – 1.23IN^2 (3.12cm^2)
- Rod end area – 0.79IN^2 (2.00cm^2)
- Stroke – 3.78IN (9.60cm)

*Custom stroke and envelope dimensions available

Proportional Cartridge Characteristics

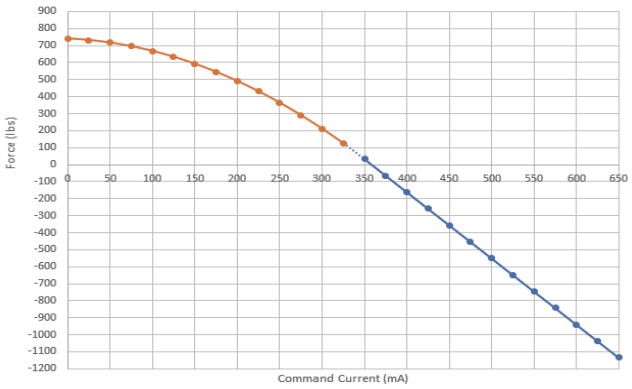
Hysteresis @ 400 Hz PWM	4% with 30% to 50% duty Cycle	
Power Consumption	8.4 Watts at max. reduced pressure	
Frequency	200-600 Hz (PWM)	
Continuous Duty Control Current	12VDC .730A	24VDC .365A
Operating Temp. Range/Seals	-37°C to +97°C (“D”-Ring) (-35°F to +200°F)	
Fluid Compatibility/ Viscosity	Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)	
Filtration	ISO-4406 18/16/13, SAE Class 4	

Environmental Characteristics

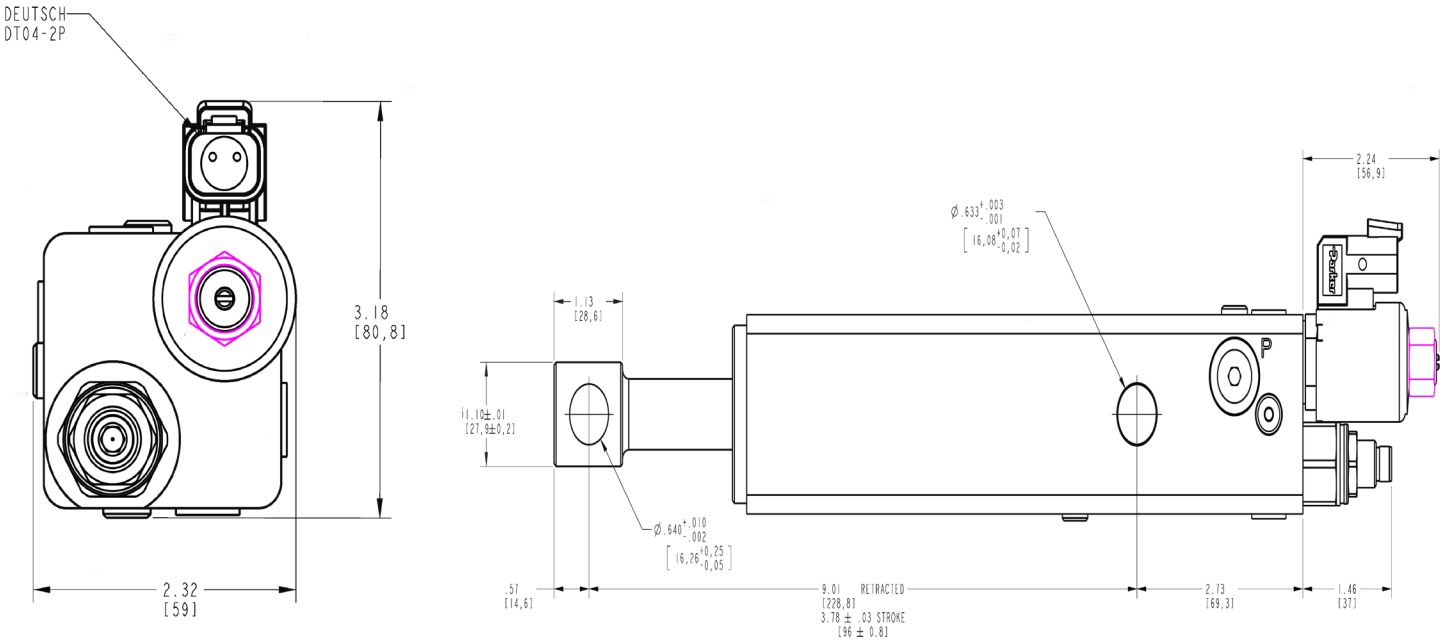
- Operating temperature: -30F to 160F (34.5 to 71.1C)
- Storage Temperature -30F to 160F (34.5 to 71.1C)
- 240 Hr salt spray per ASTM B117
- Ingression protection rating of IP69K per ISO 20653

Typical Control Range (force at actuator)

Actuator Force (50 bar down pressure setting shown)



When applied to a mechanical system, mechanical advantage should be considered.



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