

Automated Pressure Regulator

Description

The APP Automated Pressure Regulator (APR) is a standard manual pressure regulator modified so that pressure output can be controlled by computer or other electronic means. APP does not manufacture pressure regulators in-house; APP automates regulators purchased by APP at a customer's request, or directly provided by a customer. The regulators that APP automates generally feature a wide pressure range from full vacuum to over 10,000 PSI. After automation, the regulators can move from lowest to highest pressure in approximately 30 seconds (depending on gearing and range of the regulator).

Applications

The Automated Pressure Regulator can connect to different types of controllers provided by APP or the customer. A controller must provide 24vdc in either polarity to the motor and +5vdc to the position feedback system and to the reading of the three position feedback values that will be between 0 and 2 volts. APP controllers feature a highly accurate pressure transducer and closed feedback allowing the regulator to maintain a user-determined target pressure.

Features

- Controller constantly monitors feedback lines and stops power in situations where the motor will be driven beyond the limits of travel
- Electrically operated
- Works with many different types of controllers
- Can travel from lowest to highest pressure in about 30 seconds
- Does not require a pneumatic air source and allows flexibility in applications
- Minimal maintenance required



Specifications

Pneumatic

Hydraulic

| | | |
|-------------------------|---|---|
| Pressure Range | From full vacuum to over 10,000 psi | From full vacuum to over 10,000 psi |
| System Resolution | 1/20,000 (65526 optional) | 1/20,000 (65526 optional) |
| System Control Accuracy | +/- 0.02 % FS | +/- 0.02 % FS |
| Power Requirements | 110 VAC, 60 Hz (220 VAC, 50 Hz optional) | 110 VAC, 60 Hz (220 VAC, 50 Hz optional) |
| Dimensions | Dependant on regulator selected | Dependant on regulator selected |
| Weight | Dependant on regulator selected | Dependant on regulator selected |

Other Products

- Automated Battery Burst Pressure Tester
- Automated Burst Pressure Tester
- Automated Valves
- Automated Gas Assisted Injection Molding System
- Computer Controlled Automated Pressure Regulator
- Automated Pressure Control System
- Custom Designed Systems
- Automated Pressure Gauge Calibration System
- Cyclic Pressure Control System
- Automated Pressure Holding System
- Enhanced Automated Pressure Control System
- Automated Pressure Leak Tester
- Supercritical Fluid Digital Pumping System
- PVT Apparatus

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