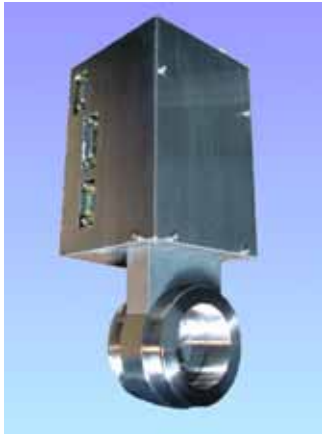


Automatic Pressure Control System



RSN Series

Self-contained

Throttle valve with built-in controller

General Description

The Model RSN-APC Pressure Control System is a self-contained pumping speed control system with a built-in electronic circuit including such parts as a Digital P.I.D., microprocessor, drive circuit and RS-232 interface. The RSN-APC is basically controlled by the RS-232, and the system host CPU can control the pressure as well as the throttle valve position. The CPU also controls each of the parameters required for these controls, the valve position, and the self-diagnosis function for the valve and the pressure sensor. A system with our RS-232C interface can also be controlled by analog setting signals. The mechanical reliability has been improved through a simple valve structure with a minimum number of parts. The valve has a direct drive system directly connecting the throttle valve and drive unit. Furthermore, the valve position can be operated manually, and maintenance can be conducted when it is disconnected from the CPU, thus allowing easy maintenance and quick system setup.

Features

- Intelligence pressure control system with digital P.I.D.
- Dual purpose controller equipped with an RS232C interface and analog control as standard specifications.
- Compact APC with a built-in a throttle valve and controller
- Manual operation and self diagnosis for convenient system maintenance.
- Simple valve structure focused on mechanical reliability.
- Low leakage model the dose not use bypass line
- Optional heated valve available.

Specification

- Input power : ± 15 VDC @500 mA
- Output power : ± 15 VDC @250 mA
- Pressure input signal : 0 ~ 10 VDC FS
- RS232 interface : Pressure setting/valve Position setting.
PID parameter setting
Valve open/close/hold
- Parallel interface: Pressure setting/
Valve position setting.
Valve open/close/hold.
- Outer setting input : 0-10 VDC(press.)
0-9 VDC(position)



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