

# DT DigitalTrak

The DigitalTrack positioner is a loop powered instrument.

As a control part of the pneumatic valve set, this positioner is widely used in petroleum, chemical, electric generation, metal production, light industry and other fields of automation systems.

The DT intelligent electro-pneumatic valve positioner accepts 4-20 mA valve setting signal from the control system; at the same time, it receives the actual valve signal through the local sensors; the two signals are compared by control software in order to control the feeding and exhaust of the air to the actuator, driving the valve to reach the set point.

The DigitalTrack positioner is based on microprocessor technology. It can overcome friction and the imbalance power on the control valve well, and improve the response speed of the control valve. This sets the position rapidly and accurately.



*High reliability*

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## Key features and benefits

- > Compact design
- > Metallic case
- > Heavy duty design
- > High reliability
- > Integrated fail in place on loss of signal device
- > Integrated position transmitter
- > Display for calibration
- > Autotuning system for calibration
- > Auto-diagnosis system
- > Suitable for:
  - Standard, offshore, sandstorm, copper free ambient conditions
  - Single and double acting actuators
  - Low and high ambient temperature

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## Accessories

- > Remote mounting equipment



DT electro-pneumatic version

## Technical specifications

### Housing material

Aluminum

### Operating pressure

P min = 1.4 bar

P max = 7 bar

Design pressure = 10 bar

### Static air consumption

0.036 Nm<sup>3</sup>/h (0.02 SCFM) at 400kPa  
(60 psi)

### Feeding connection

ND 1/4"

### Output connection

ND 1/4"

### Pilot signal connection

1/2" NPTF

### CV max

ND 1/4" Inlet = 0.12

ND 1/4" Outlet = 0.12

### Operating temperature

-20°C / +70°C

### Signal

4-20 mA

### Sensitivity

0.1% of signal range

### Repeatability

0.2% of the full stroke

### Accuracy

0.5% of the full stroke

### Hysteresis

0.2% of full stroke

### Environmental humidity

5% - 95%RH

### Input independence

375 Ω/20 mA

### Weight

ND 1/4" = 2kg

## Dimensional drawing

