



Process Automation

IMI STI

DT

DigitalTrak Loop Powered, Compact Positioner



Breakthrough
engineering for
a better world



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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.

Product features and benefits

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

Technical specifications

Housing material Aluminum	Output connection ND 1/4"	Signal 4-20 mA	Hysteresis 0.5% of full stroke
Operating pressure P min = 1.4 bar P max = 7 bar Design pressure = 10 bar	Pilot signal connection 1/2" NPTF	Sensitivity 0.1% of signal range	Environmental humidity 5% - 95%RH
Static air consumption 0.036 Nm ³ /h (0.02 SCFM) at 400kPa (60 psi)	CV max ND 1/4" Inlet = 0.12 ND 1/4" Outlet = 0.12	Repeatability 0.2% of the full stroke	Input independence 375 Ω/20 mA
Feeding connection ND 1/4"	Operating temperature -20°C / +70°C	Accuracy 0.5% of the full stroke	Weight ND 1/4" = 2kg

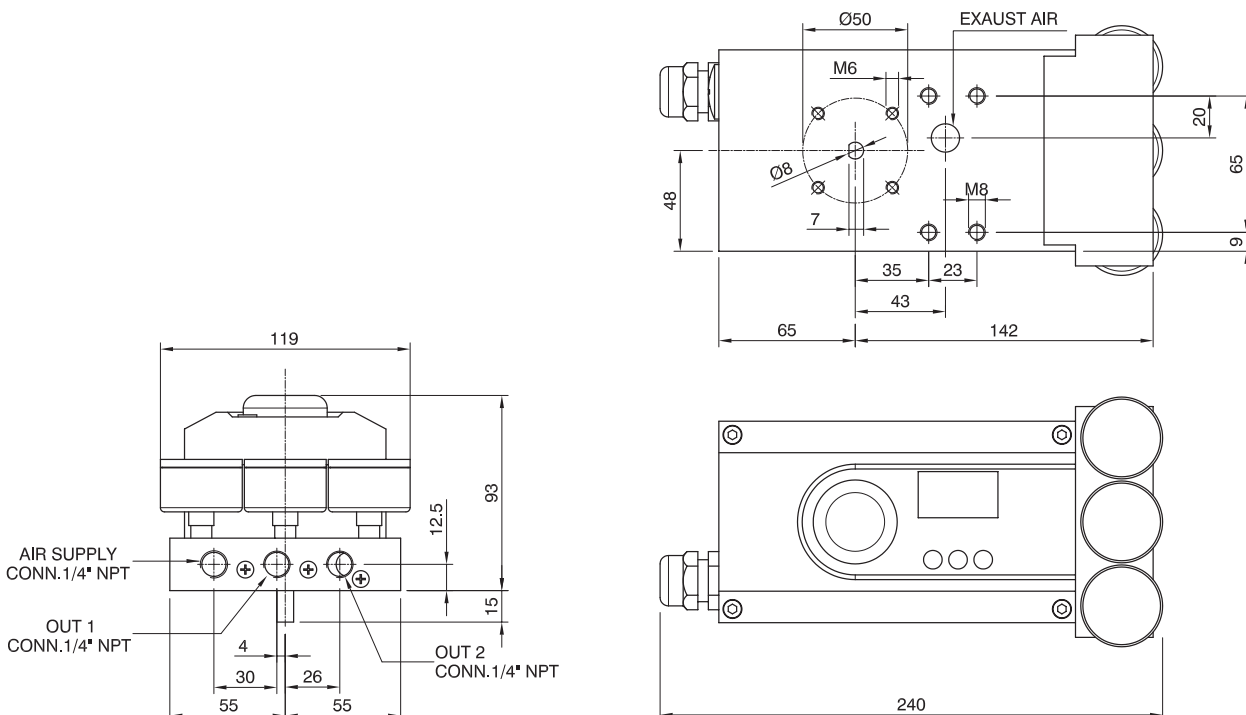
Optional Accessories

Remote mounting equipment.

DT Electro-pneumatic version.



Dimensional drawing



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