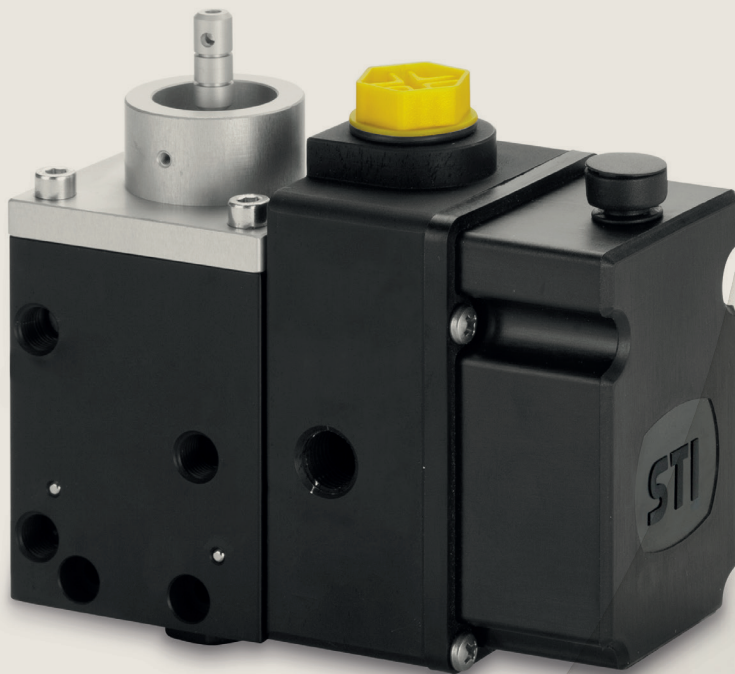


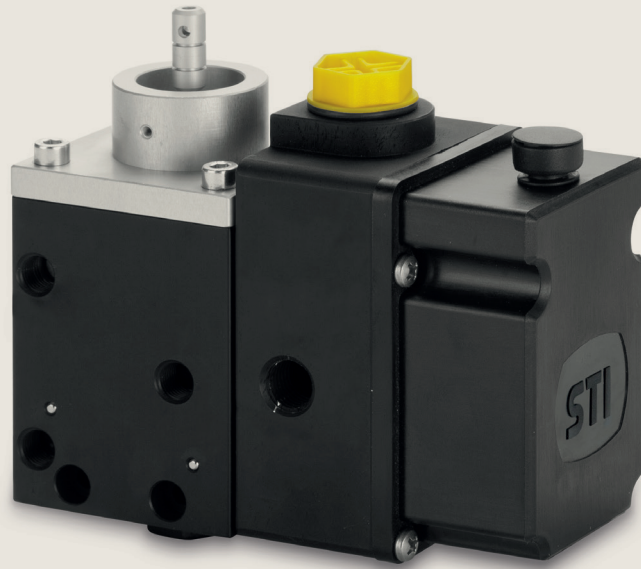
Process Automation

IMI STI

DE/3M-3

Heavy Duty Positioner





DE/3M-3

Heavy Duty Positioner

The DE/3M-3 is an analog positioner available in a pneumatic and electro-pneumatic version. The positioner has a heavy duty design making it suitable for use in very harsh conditions. It is used as the control part of the pneumatic valve set in oil and gas, refining, chemical, power, metal production and other fields with automated systems. The pneumatic version accepts a 3-15 psi (0.2-1 bar) signal and the electro-pneumatic version a 4-20 mA signal.

When using the electro-pneumatic version an I/P converter is installed on the pneumatic positioner which allows an electric signal to pilot the positioner. It is based on the balanced-forces principle; air distribution to the actuator chambers is executed by an internal spool.

The DE/3M-3 is designed to be used for applications on linear actuators with a stroke length of up to 300mm. This positioner is double acting but can also be used as single acting if required.

Product features and benefits

Heavy duty design.	Split range signal.	Suitable for:	Single and double acting actuators.
High reliability.	Feedback system lever/arm free.	Standard, sandstorm, copper free ambient condition.	Low and high ambient temperature.

Technical specifications

Housing materials Anodized Aluminum	Feeding connection ND 1/4"	CV max low flow ND 1/4" Inlet = 0.12 ND 1/4" Outlet = 0.12	Sensitivity 0.2% of signal range
Operating pressure P min = 2.5 bar P max = 7 bar Design pressure = 10 bar	Output connection ND 1/4"	Operating temperature -20°C / +70°C -40°C / +85°C available on request	Linearity 1% of the full stroke
Static air consumption 0.4 Nm³/h (0.25 SCFM) at 400kPa (60 psi)	Pilot signal connection 1/4" NPTF	Signal 3-15 psi 4-20 mA	Hysteresis 0.5% of full stroke
Static air consumption (I/P converter) +0.09 Nm³/h (0.06 SCFM)	Electrical connection for I/P version ND 1/2" NPTF		Weights DE/3M = 1.8 kg DE/3M-EP = 2.3 kg
	Enclosure degree of protection IP65		

Optional Accessories

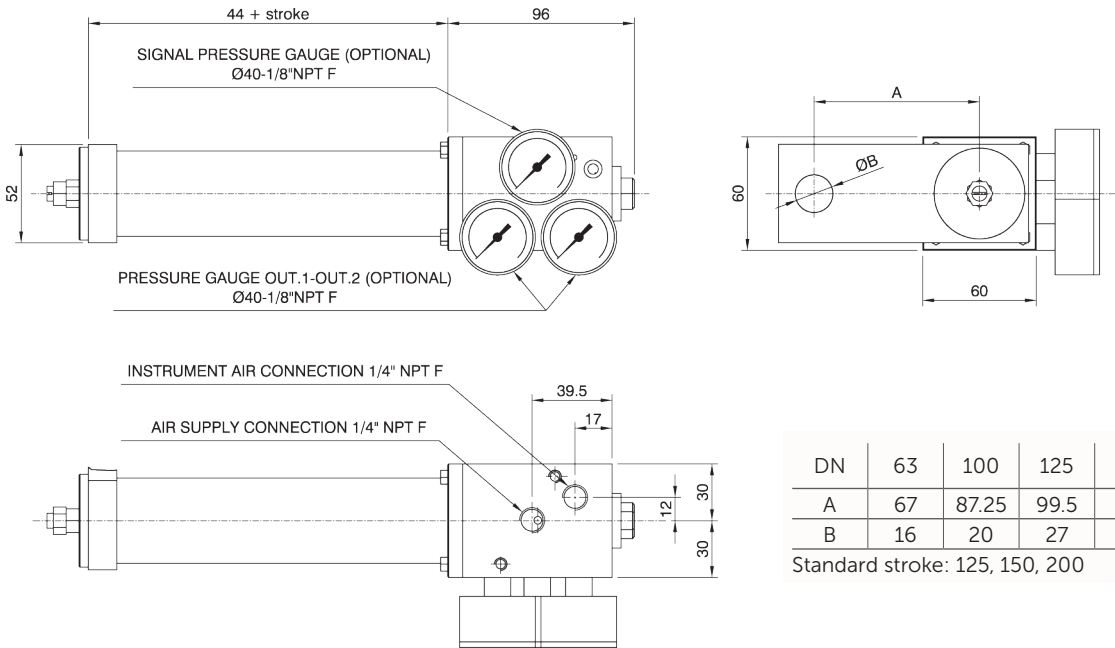
Electro-pneumatic version available - intrinsically safe and explosion proof.

Pressure gauges.



DE-3M-3
Pneumatic
Versionn.

Dimensional drawing



Process Automation

The information in this brochure is provided for general informational purposes only. Specifications for products and services are subject to change without prior notice. IMI plc and its subsidiaries own all product brands mentioned herein.

IMI makes no warranties or representations about the accuracy or completeness of the content in this brochure and assumes no liability for any errors or omissions it may contain. We reserve the right to modify, enhance, or discontinue any product or service described herein without prior notification.

IMI STI

Via dei Caravaggi, 15
24040 Levate (BG) ITALY
Tel: +39 035 2928.2
Fax: +39 035 2928.247

www.imiplc.com/process-automation

07072.02/24en

