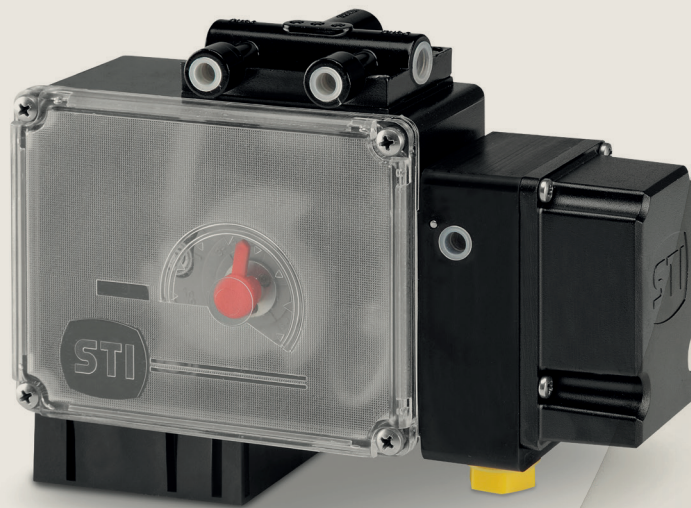


Process Automation

IMI STI

UP

Analog Positioner



Breakthrough
engineering for
a better world



UP

Analog Positioner

IMI STI's model UP-2 is an analog positioner available in pneumatic and electro-pneumatic versions. 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 UP-2 pneumatic version accepts a 3-15 psi (0.2-1 bar) signal and the electro-pneumatic version a 4-20 mA signal. The positioner is based on the balanced-forces principle with air distribution to the actuator chambers carried out by an internal spool.

UP-2 is designed to be used on linear actuators (with a minimum stroke of 8 mm) or on rotary actuators which use different feedback systems such as the lever or motion converter MC model.

The positioner is a double acting positioner but it can also be used as single acting. It is equipped with a different linear cam (angle up to 270°) to allow use on actuators with different strokes. The cam operating angles and range adjustments are printed on the positioner. Special cam profiles are available on request.

The UP-2 NC 1/4" is available with a bypass valve between the actuator chamber connections. This is built into the change-over system so the actuator action can be changed without having to rebuild the piping.

The positioner is available in different models: the UP2/L (for lever applications), the UP-2/R (for rotary applications). There are different sizes (ND 1/4" or ND 1/2") and the positioner can come with or without an integrated air-lock device (the AL model), with a lever or bare shaft, standard or Namur.

Product features and benefits

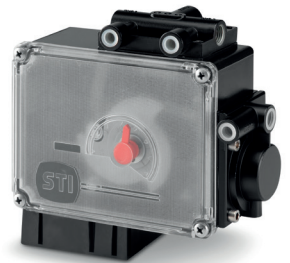
Metallic case.	Action inversion without tubing inversion only for ND 1/4" version.	Available with a full stainless steel spool valve for ND 1/4".	Suitable for:
Heavy duty design.			Standard, sandstorm, copper free ambient conditions.
High reliability.	Split range signal.	Full stainless steel spool valve for ND 1/2".	Single and double acting actuators.
Integrated bypass only for ND 1/4" version.	Special characterisation/range.	Visual position indicator.	Low and high ambient temperature.
	Suitable for large size/fast stroking actuator.		

Technical specifications

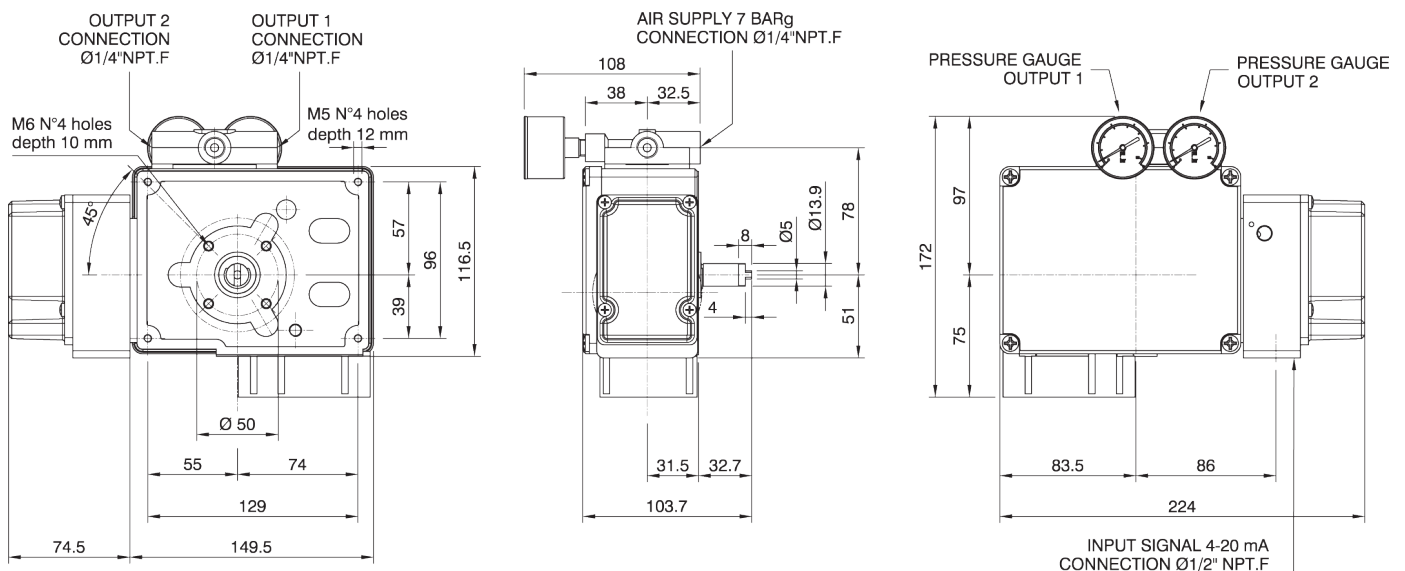
Housing materials Aluminum painted Jet Black RAL 9005 Cover polycarbonate	Static air consumption (I/P converter) +0.09 Nm ³ /h (0.06 SCFM)	Enclosure degree of protection IP65	Sensitivity 0.15% of full range
Operating pressure P min = 2.5 bar P max = 7 bar Design pressure = 10 bar	Feeding connection ND 1/4" ND 1/2"	CV max ND 1/4" Inlet = 0.34 ND 1/4" Outlet = 0.34 ND 1/2" Inlet = 0.637 ND 1/2" Outlet = 0.79	Linearity 1% of the full range with linear cam
Static air consumption NPTF 1/4" 1.02 Nm ³ /h (0.6 SCFM) at 400 kPa (60 psi) NPTF 1/2" 1.3 Nm ³ /h (0.8 SCFM) at 400 kPa (60 psi)	Output connection ND 1/4" ND 1/2"	Operating temperature -20°C / +70°C -40°C / +85°C available on request	Hysteresis 0.5% of the full stroke
	Pilot signal connection 1/8" NPTF	Signal 3-15 psi 4-20 mA	Weight UP-2 ND 1/4" = 3.9 kg UP-2 ND 1/2" = 4 kg UP-2-EP ND 1/4" = 4.4 kg UP-2-EP ND 1/2" = 4.5 kg
	Electrical connection (I/P converter) ND 1/2" NPTF		

Optional Accessories

Air-lock ND 1/4" or ND 1/2" integrated.	Change-over system with by-pass valve only for ND 1/4" size pneumatic.	VDI/VDE 3845 EN 15714-3 connections (NAMUR).
Electro-pneumatic version available - intrinsically safe and explosion proof with ATEX execution.	1/2" NPTF connections for quick operating times of large actuators pressure gauges.	



Dimensional drawing



Process Automation

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