

Key Features

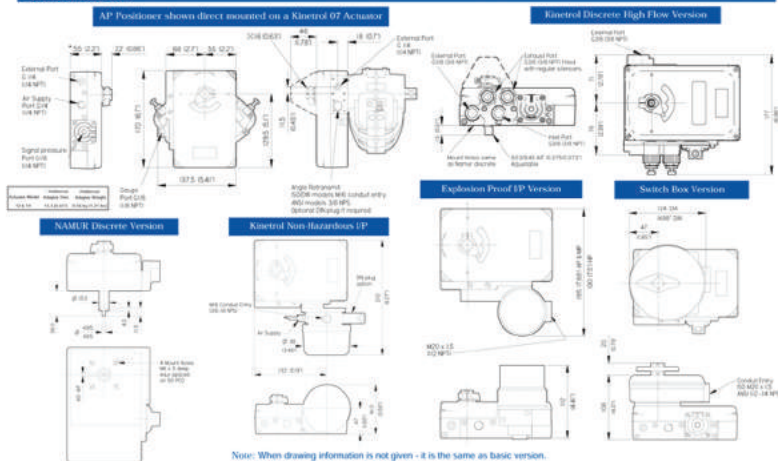
- FAST, SMOOTH AND ACCURATE RESPONSE
From stepless cam drive and proportional spool valve.
- UNIVERSAL APPLICATION
Mount on any quarter, turn or linear actuator, single or double acting, in any orientation. Adjustable span may be set anywhere within the 100° range.
- HIGH FLOW / GAIN VERSIONS
93 nl/min (3.3 scfm), 283 nl/min (10 scfm) and 764 nl/min (27 scfm) models are available.
- INTEGRAL OPTIONS – EASILY RETROFITTED MODULES
– two wire 4–20mA angle retransmit inside enclosure
– mechanical or inductive position indication switches (for general and hazardous areas) in IP65 box
– general and hazardous area 4–20mA I/P converter modules (intrinsically safe and NEMA 7 explosion proof options available)
– high visibility Clear Cone angle monitor on positioner and switch box versions
– DIN plug for external retransmit connection.
– High Temperature seals for 100°C ambient applications.
- SIMPLE, TIME SAVING FIELD SETUP
Easy Calibration and quick removal of rotational sense without special tools or additional parts. Fast change of response characteristic cams.
- COMPACT AND ROBUST METAL HOUSING
Weatherproof staked and epoxy painted for harsh industrial environments.
- ATEX CATEGORY 1 APPROVAL
Up to Category 1 approval on most versions. Category 2 approval on some others (Actuators also approved).
- PROVEN FORCE BALANCE SYSTEM
Employing unique straight-line mechanism—minimising wear, backlash and friction. Positioning is unaffected by supply pressure fluctuations.
- VISUAL POSITION INDICATION
External pointer / scale or high visibility Clear Cone angle monitor plus internal angle scale for field setup.
- INSTALLATION FLEXIBILITY
Mount on any actuator using VDI / VDE 3845 NAMUR drive, or Kinetról male square, with mounting brackets, or direct mount (with integral porting) to Kinetról actuators.

- VIBRATION AND SHOCK RESISTANT
Low mass, spool and robust mechanism provide 4G industrial vibration tolerance in any attitude.

- ADAPTATIONS AND ACCESSORIES
Consult Kinetról for:
 - split range or customized cams
 - special feature modules eg fail-freeze
 - filters, regulators and gauges
 - mounting kits for rotary / linear drives,

AP Pneumatic Positioner

DIMENSIONS



SPECIFICATION

Air Supply	instrument quality (dry, clean, oil free) 3.5 to 7.0 bar, 50psi to 100psi standard consult Kinetról for low pressure application	Materials	case and cover - zinc alloy spool and liner - stainless steel diaphragm - polyester reinforced-polyurethane or High Temperature or silicone rubber for Low Temperature feedback spring - steel epoxy stove enamel
Signal	3 – 15psi (0.2 – 1.0 bar) standard consult Kinetról for split range, 6-30psi etc	Finish	same as double acting or spring return actuator when controlling stall movement of inertia loads consult Kinetról
Control Response	0 – 90° linear output standard consult Kinetról for other characteristic cam options	Enclosure rating	IP54
Sensitivity	better than 0.7% of span	Output torque	4G, 100Hz
Hysteresis	better than 0.7% of span	Vibration tolerance	Non - hazardous Supply pressure 4 – 5.5 bar (60 – 80 psi)
Deviation from linearity	better than 1.0% of span	I/P converter options	ATEX EEx d IC T4T5T6 EEx in IIC T4T5T6
Flowrates	AP: 3.3 scfm (93 nl/min) @5.5 bar MP: 10.0 scfm (283 nl/min) @5.5 bar HP: 27.0 scfm (764 nl/min) @5.5 bar		FM Class I Division 1 explosion proof Groups B,C,D intrinsically safe Groups A,B,C,D,E,F,G
Operating temperature range	-20° to 80°C standard -20° to 100°C High Temperature -40° to 50°C Low Temperature		CSA Class I Division 1 explosion proof Groups B,C,G intrinsically safe Groups A,B,C,D
Weight	2.8 kg / 6.2 lb		
Hazardous area use:	Without A/R switches ATEX Cat 1 mechanical approval 1G T4 With A/R switches ATEX Cat 1 1G EEx IIC T4		

The policy of KINETROL is one of continuous improvement. We reserve the right to alter the product as described and illustrated without notice.

KINETROL

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