

ELECTROPNEUMATIC POSITIONER type A781

THE POSITIONER type A781 IS DESIGNED FOR COOPERATION WITH MEMBRANE PNEUMATIC AND ROTARY ONE-SIDED WORKING ACTUATORS.

IT MAKES POSSIBLY FAST AND PRECISELY CONTROL OF POSITION THE ACTUATOR'S PISTON ROD BY ANALOGUE CONTROL SIGNAL 4...20 mA.



- * reliable and simple in installation
- * input signals dividing possibility
- * linear characteristics
- * suitable for cooperation with pneumatic actuators of different manufacturers
- * intrinsic-safety version made acc. to ATEX directive

TECHNICAL DATA

- input signal (control)	
full	4...20 mA, 0...20 mA
half	4...12 mA, 12...20 mA, 0...10 mA, 10...20 mA
- input resistance	250 Ω (control terminals shorted)
- pneumatic output signal	
(at overload >4%)	0...100% of supply pressure
- supply pressure	0,14...0,25 MPa or 0,25...0,60 MPa

IMPORTANT:

It's not allow using higher than permissible value of control pressure the cooperating actuator supply pressure

- actuator mandrel stroke or rotation	10...102 mm (1/2"...4") (if the versions table does not show another values) or 0...60°; 0...90°
- working characteristic	linear
- sensitivity threshold	0,05% for supply pressure 0,14...0,25 MPa 0,12% for supply pressure 0,25...0,60 MPa
- nonlinearity (except the characteristic distortion in the actuator mandrel movement restriction point)	max. 1%
- hysteresis	max. 0,5% for supply pressure 0,14...0,25 MPa
- proportionality range:	
in relation with control signal	max. 1% for supply pressure 0,14...0,25 MPa
with range width 0,08 MPa	max. 1,2% for supply pressure 0,25...0,60 MPa
in relation with control signal	max. 2% for supply pressure 0,14...0,25 MPa
with range width 0,16 MPa	max. 2,5% for supply pressure 0,25...0,60 MPa
- output air flux:	
at $p_z = 0,14$ MPa	7,5 kg/h
at $p_z = 0,25$ MPa	15 kg/h
at $p_z = 0,6$ MPa	26 kg/h
- air flux at steady state:	with maximally unscrewed choke and pipes f8x1connectors

Control signal [MPa]	Supply pressure [MPa]			
	0,14	0,25	0,4	0,5
0,02	0,310 kg/h	0,380 kg/h	----	----
0,1	0,380 kg/h	0,510 kg/h	0,580 kg/h	0,710 kg/h
0,2	----	0,610 kg/h	0,710 kg/h	0,800 kg/h