

Digital electropneumatic positioner for the integrated mounting on process control valves

8694

- Compact, robust stainless steel design
- Easy start-up by automatic X-Tune function
- Contact-free position sensor
- Integrated control air routing
- Available as 4-20 mADC, AS-Interface, IO-Link (with AOI) or Bürkert System bus (bÜS)
- Configurable 3-wire mode (4-20 mADC) via COMMUNICATOR software



The compact positioner is designed for integrated mounting on pneumatically operated process valves. Remote setpoint adjustment via a 4-20 mA signal IO-Link or through AS-Interface. A contact-free analogue position sensor measures the position of the valve spindle. Simple installation through automatic X-Tune function and setting through DIP-switch or via the USB configuration port and complimentary Bürkert COMMUNICATOR software. Dip switches also allow for close-tight functionality, customized characteristic curves and manual/automatic operation. Close tight binary input is available as standard and configurable to trigger an X-Tune, safety closure/interlock or auto/manual operation. Additional parametrisation options are possible through digital communication protocols. The valve position indication is shown through LED's or can be accessed via the COMMUNICATOR software, without impacting the process control signal. All devices can be configured via the service port and USB modem. See the "accessories" page for ordering details.

Technical Data

Materials	PPS, stainless steel
Body	PC
Cover	EPDM
Seal	
Operating voltage	24 V DC $\pm 25\%$ UL: NEC Class 2
Air supply filter	Exchangeable (mesh size ~ 0.1 mm)
Positioning system	
Low air capacity	
Single-acting	7 IN/min for aeration and ventilation (QNn- value acc. to definition at pressure drop from 7 to 6 bar absolute) Type 23xx, \varnothing actuator 70/90 mm
Actuator series/size	
High air capacity	
Single-acting	130 IN/min for aeration and ventilation (QNn- value acc. to definition at pressure drop from 7 to 6 bar absolute) Type 23xx, \varnothing actuator 130 mm Type 27xx, \varnothing actuator 175/225 mm
Actuator series/size	
Ambient temperature	-1...+60 °C
Supply pressure	
Low air capacity	0...7 bar ¹⁾
High air capacity	3...7 bar

¹⁾ The supply pressure applied must be 0.5 to 1 bar above the minimum required pilot pressure of the valve actuator

Ordering Chart

Control function Pilot valve system	Communication	Electrical connection	Analogue input 0/4 - 20 mA	Analog output 0/4-20mA	Binary input	Threaded air ports	Item no.
8694 Positioner for Bürkert series Type 23xx (FA03)							
Low air capacity single acting (E1) size \varnothing 70/90 mm	24 V DC	Multipole	Yes	Yes	Yes	G 1/8	323256
	24 V DC	Cable Gland	Yes	Yes	Yes	G 1/8	323266
	Asi v. 3.0	1M Flat clip with cable	via Bus	via Bus	via Bus	G 1/8	239615
	I/O Link (Port Class B)	Multipole	via Bus	via Bus	via Bus	G 1/8	323232
	I/O Link (Port Class A)	Multipole	via Bus	via Bus	via Bus	G 1/8	20032463
High air capacity single acting (E2) Size \varnothing 130 mm	24 V DC	Multipole	Yes	Yes	Yes	G 1/8	323258
	24 V DC	Cable Gland	Yes	Yes	Yes	G 1/8	323267
	Asi v. 3.0	1M Flat clip with cable	via Bus	via Bus	via Bus	G 1/8	239616
	I/O Link (Port Class B)	Multipole	via Bus	via Bus	via Bus	G 1/8	323233
	I/O Link (Port Class A)	Multipole	via Bus	via Bus	via Bus	G 1/8	20032465
8694 Positioner for 175mm and 225mm Bürkert series Type 27xx and 3rd party valves (FA05)							
Low air capacity single acting (E1) size \varnothing 70/90 mm	24V DC	Multipole	Yes	Yes	Yes	G 1/8	323259
	24V DC	Cable Gland	Yes	Yes	Yes	G 1/8	323268
	I/O Link (Port Class B)	Multipole	via Bus	via Bus	via Bus	G 1/8	323234
	I/O Link (Port Class A)	Multipole	via Bus	via Bus	via Bus	G 1/8	20032466
	Asi v. 3.0	1M Flat clip with cable	via Bus	via Bus	via Bus	G 1/8	239611
High air capacity single acting (E2) size \varnothing 130 mm	BuS	Multipole	via Bus	via Bus	via Bus	G 1/8	323238
	24V DC	Multipole	Yes	Yes	Yes	G 1/8	323260
	24V DC	Cable Gland	Yes	Yes	Yes	G 1/8	323269
	I/O Link (Port Class B)	Multipole	via Bus	via Bus	via Bus	G 1/8	323235
	I/O Link (Port Class A)	Multipole	via Bus	via Bus	via Bus	G 1/8	20032468
	Asi v. 3.0	1M Flat clip with cable	via Bus	via Bus	via Bus	G 1/8	239612
	BuS	Multipole	via Bus	via Bus	via Bus	G 1/8	323239