

Digital Electropneumatic Positioner SideControl and Digital Electropneumatic Process Controller SideControl

8792 / 8793

- Compact and robust design
- Easy start-up using tune function
- Integrated diagnostic functions for valve monitoring
- Dynamic positioning system with no air consumption in controlled state
- PROFIBUS DP-V1, DeviceNet, EtherNet/IP, PROFINET, Modbus TCP or bÜS (Bürkert System Bus)

8792



8793



Can be combined with yoke type actuators and rotary actuators.

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FOR DATA SHEETS

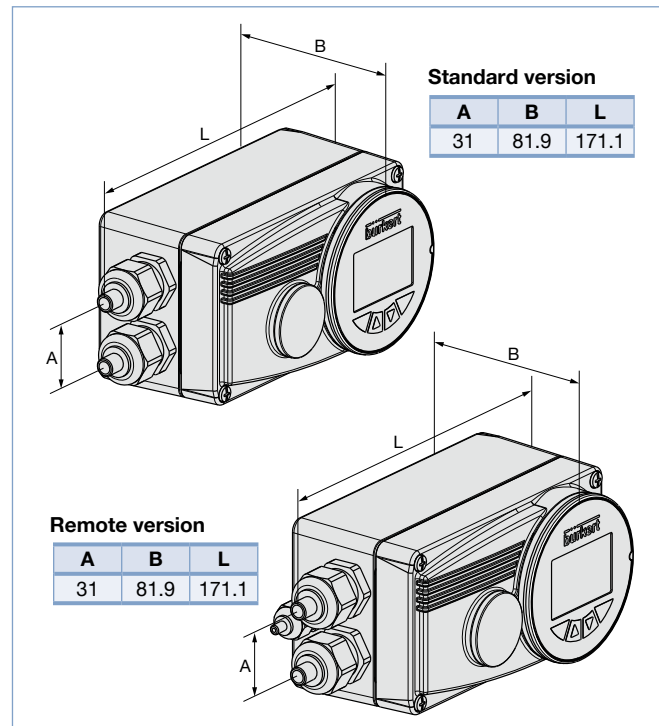
The type 8792 and 8793 are designed to standardization acc. to IEC 60534-6-1 or VDI/VDE 3845 (IEC 60534-6-2) for assembly with linear and rotary actuators. In addition, the remote versions can be combined with Bürkert process control valves. They can be operated with the usual current and voltage standard signals and can also be equipped with the fieldbus interface. Type 8792 and 8793 are equipped with additional diagnostic functions to monitor the state of the valve. With the diagnosis, the operating conditions of the control valves can be monitored. This allows planned maintenance and optimizes plant availability. Operation occurs via the external operation and display module with a backlit graphical display. The pilot valve system can be used equally for single and double-acting actuators. It is characterized by a defined safety feature in case of failure of the electrical or pneumatic power supply and possesses an enormous air capacity range with pressure supply up to 101.526 PSI.

Technical Data

Material	Body Seal	Aluminium plastic-coated EPDM, NBR, FKM
Operating voltages		24 V DC \pm 10 %
Residual ripple		Max. 10%
Setpoint setting		0/4-20 mA and 0-5/10 V
Input resistance		0/4-20 mA: 180 Ω 0-5/10 V: 19 k Ω
Analogue feedback		4-20 mA, 0-20 mA 0-10 V, 0-5 V
Binary input		Galvanically isolated, 0-5 V = log "0", 10-30 V = log "1"
Binary output	Current limit	2 Outputs (optional), galvanically separated 100 mA, Output will be synchronised when overloaded
Control medium		Neutral gases, air quality classes acc. to ISO 8573-1 Dust concentration Class 7 (< 40 μ m particle size) Particle density Class 5 (< 10 mg/m ³) Pressure condensation point Class 3 (< -20 °C) Oil concentration Class X (< 25 mg/m ³)
Ambient temperature		14 °F to 140 °F; -10 °C...+60 °C (no Ex-Approval) 32 °F to 140 °F; 0 °C...+60 °C (with ATEX/IECEx-Approval)
Pilot air ports		Threaded ports G 1/4
Supply pressure		7.25-14.50 PSI (1.4...7 bar) ¹⁾²⁾

¹⁾ The supply pressure has to be 7.25-14.50 PSI above the minimum required pilot pressure for the valve actuator ²⁾ Pressure specifications: Overpressure with respect to atmospheric pressure

Envelope Dimensions [mm] (see datasheets for details)



Ordering Chart

Communication	Electrical conn.	Feedback	2 Binary outputs, 1 Binary input	Diagnostic functions	cCSAus	Item no.
8792						
DeviceNet	Multipole	via Bus	yes	yes	yes	239 095
bÜS (CAN open)		via Bus	yes	yes	yes	317 963
EtherNet/IP		via Bus	yes	yes	yes	317 933
24VDC analog		analog	yes	yes	yes	317 990
8793						
24VDC analog	Multipole	analog	yes	yes	yes	317 980