



Type 8696 can be combined with..



Type 2301 Globe control valve, actuator ø 50 mm **Type 2300** Angle-seat control valve, actuator ø 50 mm

Compact positioner for integrated mounting on pneumatically operated process valves. Remote setpoint adjustment via a 4-20 mA signal. Pilot valve system without intrinsic compressed air consumption during steady state.

A contact-free continuous sensor measures the position of the valve spindle.

Simple installation through automatic tune function and setting through DIP-switch:

- Close tight function,
- Characteristic curves selection
- Reversal of effective direction
- Switching manual /automatic operationBinary input

Additional parametrisation options are possible through DTM devices.

A software interface can be used for, amongst others, linearisation of the operation characteristics by using free programmable fixed points. The valve position indication is shown through LED components.

As an option an analogue position feedback can be integrated.

Digital electropneumatic Positioner for the integrated mounting on process control valves

- Digital smart positioner
- Automatic teach function
- Contact-free position sensor
- Compact stainless steel design
- Analogue feedback (option)
- Internal control air routing

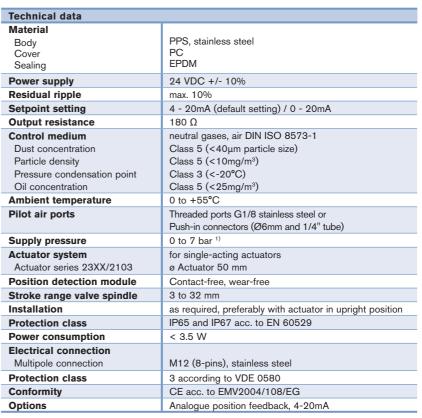




 Type 2103
 Hygienic process

 Diaphragm control valve, actuator
 control valves

 \$50 mm
 50



1) The supply pressure has to be 0,5 - 1 bar above the minimum required pilot pressure for the valve actuator.



Ordering information for TopControl-Control valve systems

A complete TopControl-Control valve system consists of a TopControl Basic Type 8696 and a process valve Type 23XX or 2103 actuator size ø 50 mm. The following information is necessary for the selection of a complete control valve:

•Item no. of the Positioner TopControl Basic Type 8696 without process valve, see ordering chart on p. 3

•Item no. of the selected process valve Type 23XX/2103 actuator size ø 50 mm (see separate datasheets, e.g. 2300, 2301, 2103)

You order two components and receive a complete assembled and certified valve.

When you click on the orange box "More info." below, you will come to our website for the resp. product where you can download the datasheet.



burkert

Ordering chart Type 8696 (other versions on request)

Control function pilot valve system	Electrical connection	Analogue feedback	ltem no. Pilot air ports threaded G1/8	ltem no. Pilot air ports Push-in (tube Ø 6mm and 1/4")	
Actuator series ELEMENT Types 23xx actuator size Ø50mm (internal control air routing)					
Single acting	M12 connector	No	227 448	227 450	
		Yes	227 449	227 451	
Actuator 3rd party (external control air routing)					
Single acting	M12 connector	No	223 987	-	
		Yes	223 989	-	

Further versions on request

Approvals CSA NEMA4x

Ordering chart adapter kit (has to be ordered separately)

Description	Actuator size	Control function	ltem no.
Adapter kit ELEMENT Types 23xx	ø 50 mm	A (NO), B (NC)	679 918

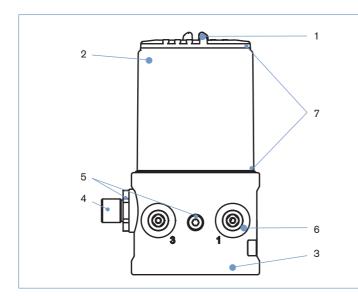
For installation kits to 3rd party process valves please see datasheet 8681/ELEMENT or contact your sales office for related drawings or individual engineering support

Ordering chart accessories

Description	Item no.
M12 socket, 8-pins, 2m assembled cable	919 061
M12 socket, 8-pins, 5m assembled cable	919 267
Silencer G1/8	780 779
Silencer, push-in connector	902 662
USB interface for serial communication	227 093



Materials



Cover	PC
Body casing	Stai
Basic body	PPS
Plug M12	Stai
Screws	Stai
Push-in connector	POI

Threaded ports G1/8

1

2

3

4 5

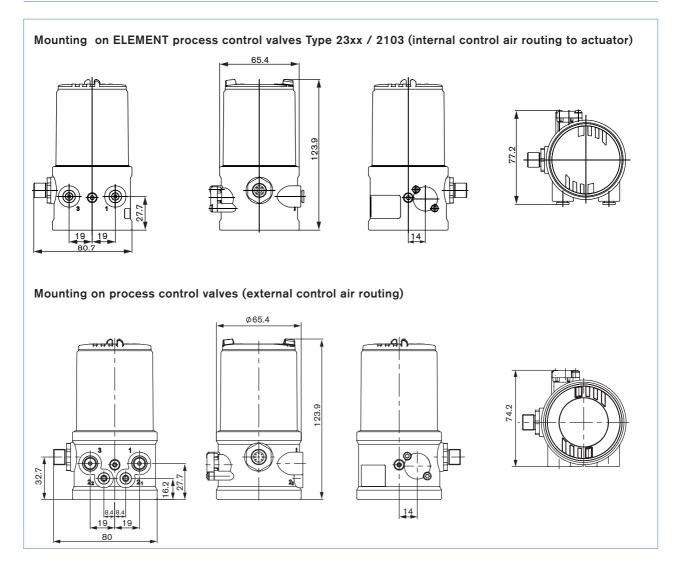
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7

Sealing

ainless steel S ainless steel ainless steel DM/stainless steel Stainless steel EPDM

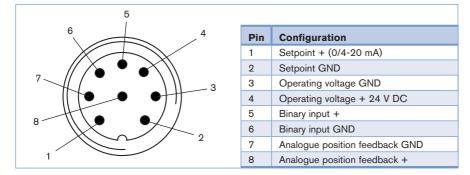
Dimensions [mm]





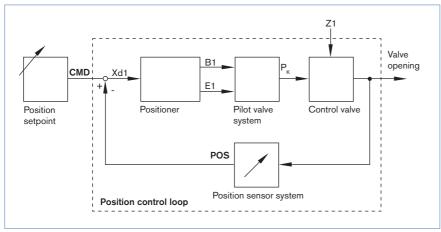
Connection Multipole

Circular connector M12 - 8-pins

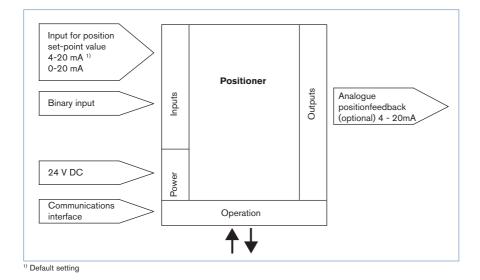


Signal flow diagram





Schematic diagram of the TopControl Basic



TopControl Basic functions

- · Automatic start of the control system
- Binary input (safety position)
- Analogue position feedback (optional)

DIP-Switch activated device

- Close-tight function
- · Inversion of the operating direction of the setpoint signal
- · Linear characteristic curves selection or customised programming (software interface)
- Manual and automatic operation

Communications software with activatable and parameter driven functions

- Customised programming transmission characteristics
- · Choices of setpoint signal
- Range splitting setpoint signal · Limitation of the valve stroke
- · Limitation of the operation speed. · Definition of the safety position
- Signal failure detection