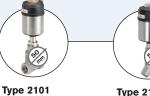




Type 8695 can be combined with...



Globe valve actuator ø 50 mm

Type 2100 Angle-seat valve actuator ø 50 mm

The control head Type 8695 is optimised for integrated mounting on the 21XX process valve series with smaller actuator sizes.

The registration of the valve position is done through a contact-free analog position sensor, which automatically recognises and saves the valve end position through the Teach function when starting up. The integrated pilot valve controls single or double-acting actuators.

The design of the control unit and the actuator is specially designed for the requirements of a hygienic process environment and enables an internal control air channel without external tubings.

Besides the electrical position feedback signal the status of the device is shown directly on the control head itself through coloured LEDs showing a clear visible valve position status.

As an option a fieldbus interface, AS-Interface, can be chosen.

# Control Head for the integrated mounting on process valves

- Compact stainless steel design
- Integrated analog valve position registration (Teach function)
- Coloured illuminated status display
- Internal control air channel
- Fieldbus interface AS-Interface (option)





Customised

adaption

Type 2103 Diaphragm valve

Diaphragm vaive		
actuator ø 50 mm		
Technical data		
Material	DDC staislass staal	
Body	PPS, stainless steel PC	
Cover	EPDM	
Sealing		
Control medium	neutral gases, air DIN ISO 8573-1	
Dust concentration	Class 5 (<40µm particle size)	
Particle density	Class 5 (<10mg/m <sup>3</sup> )	
Pressure condensation point	Class 3 (<-20°C)	
Oil concentration	Class 5 (<25mg/m <sup>3</sup> )	
Supply pressure		
Actuator system	for single or double-acting actuators	
Actuator series 21XX	actuator ø 50 mm	
Pilot air ports Push-in connector Ø 6/4 mm or		
	threaded ports G1/8	
Position feedback	Analog position sensor (contact-free) with autotune	
<u></u>	switchpoint (PNP) (NPN on request)	
Stroke range valve spindle	2 to 28 mm (2 to 45 mm on request)	
Ambient temperature	0 to +55 °C	
Installation	as required, preferably with actuator in upright position	
Protection class	IP 65/67 according to EN 60529 (NEMA4x in preparation)	
Protection class	3 according to VDE 0580	
Fieldbus communication	AS-Interface (option)	
Conformity	according to CE in compliance with EMV2004/108/EG	
Type of protection	II 3 G nA II B T4	
Electrical connection	II 3 D tD A22 T135°	
Electrical connection	II 3 D tD A22 1135°	
Multipole	M12, 8-pins or M12 4-pins (AS-Interface)	

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



## Technical data, continued

#### Without fieldbus communication

Technical data	
Power supply	24 VDC
Residual ripple with DC	10% no technical direct current!
Voltage tolerance	±10%
Power consumption	< 2W
Electrical connection Multipole	M12, 8-pole
Output	max. 100 mA per output

#### With fieldbus communication; AS-Interface

Technical data		
Profile	S-B.A.E. (A/B slave, max. 62 slaves/master)	
<b>Power supply</b> through bus line separated from bus signal	29.5 to 31.6 VDC according to specification on request	
Power consumption Units without external power supply		
Max. power consumption Power consumption in normal	120 mA	
operation (after current reduction; Valve + 1 end position achieved)	90 mA	
Output		
Contact rating	≤ 1W over AS-Interface	
Watch-dog function	integrated	
Electrical connection	M12 4-pins	
Programming data	see operating instructions	





#### Ordering information for process valve system with integrated control head

A complete process valve system consists of a Control Head Type 8695 and a process valve Type 21xx.

The following information is necessary for the selection of a complete system:

•Item no. of the desired control head Type 8695 (see ordering chart on p. 4)

•Item no. of the desired process valve Type 21xx

(see separate datasheet e.g. Type 2100, 2101, 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.

# Example for process valve systems Control Head Type 8695 Desired process valve, example 2103 2101 2100 actuator actuator actuator ø 50 mm ø 50 mm ø 50 mm Complete process valve system More More More nfo. info. nfo Valve system Valve system Valve system Type 8801-DF-M Type 8801-GC-M Туре 8801-ҮЕ-М 2101 + 8695 2103 + 8695 2100 + 8695





### Ordering chart Control Head Type 8695 (other versions on request)

Communi-cation	Electrical connection	Valve function	Position feed- back	Pilot air ports	Item no.
Actuator size Ø 5	0 mm				
AS-Interface	Multipole	single-acting	2 switching points	Push-in connector Ø 6/4 mm	185 116
				Threaded ports G1/8	185 117
		double-acting	2 switching points	Push-in connector Ø 6/4 mm	204 141
				Threaded ports G1/8	204 142
No	Multipole	single-acting	2 switching points	Push-in connector Ø 6/4 mm	185 114
				Threaded ports G1/8	185 115
		double- acting	2 switching points	Push-in connector Ø 6/4 mm	201 139
				Threaded ports G1/8	201 140

# Further versions on request

Approvals CSA Additional Switchpoint NPN-coded

>

## Ordering chart adapter kit

Description	Actuator size	Control function	ltem no.
Adapter set for Type 21xx	Ø 50 mm	NC / NO (A / B)	673 765

## Ordering chart accessories

Description	ltem no.
M12 socket, 8-pins, 2 m assembled cable	919 061
M12 socket, 4-pins, 5 m assembled cable	918 038
Silencer G1/8	780 779
Silencer, push-in connector	902 662



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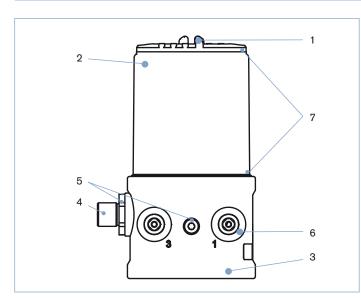
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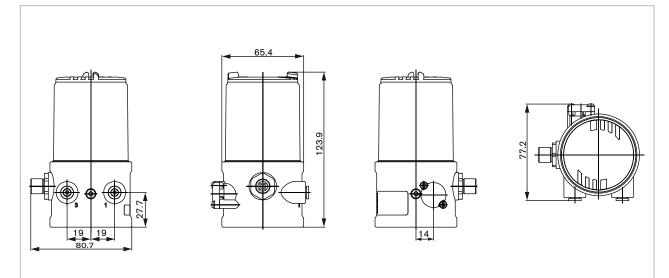
#### Materials



Cover	PC
Body casing	Stainless steel
Basic body	PPS
Plug M12	Stainless steel
Screws	Stainless steel
Push-in connector Threaded ports G1/8	POM/stainless steel Stainless steel
Sealing	EPDM

# Dimensions [mm]

### Mounting on process valve Type 21xx

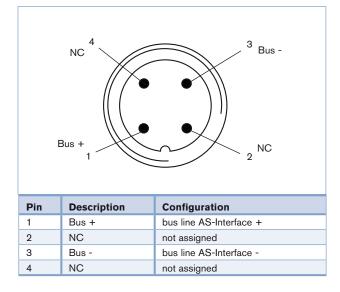




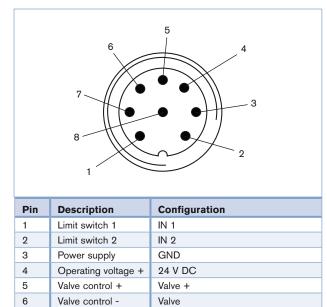
#### **Electrical installation**

# AS-Interface

Multipole connection AS-Interface Bus connection (M12-circular connector, 4-pins, male)



24 V DC Multipole connection M12, 8-pins



To find your nearest Bürkert facility, click on the orange box  $\, 
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not assigned

not assigned

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In case of special application conditions, please consult for advice.

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