Control head for decentralized automation of hygienic process valves

- Automatic commissioning
- Contactless high-resolution valve position monitoring
- Colour-coded status indicator and diagnostic/NAMUR LED
- AS-Interface, IO-Link Port Class A/B
- Approval according to ATEX/IECEx/FM/CCC, Cat. 3GD/2GD, Cl I/II Div I/II

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

Type 8682
Control head for decentralized automation of hygienic process valves

Type KK01
Adapters for hygienic and non-hygienic process valves

Type description

The control head Type 8683 offers all functions for modern decentralized automation of pneumatically operated hygienic and aseptic process valves. It features the complete pneumatic control, position monitoring, feedback and diagnostic functions up to bus communication.

Thanks to its universal design, the control head Type 8683 can be combined with all commercial butterfly, ball, single-seat and double-seat valves. Regardless of manufacturer and valve series, this enables standardization for a consistent automation solution throughout the plant.

Depending on the valve function and automation requirements, different variants of Type 8683 always offer a suitable solution. Approvals according to ATEX, IECEx and FM enable the use in Ex zone 1/21, 2/22 or Class I/II Division I/II. Several automatic teach functions replace any manual adjustments during commissioning. If required, the control head can be started via the teach function even during ongoing processes. For an easy process monitoring on site, the coloured light ring signals the valve position while the diagnostic/NAMUR LED offers additional information such as maintenance requirements or error states.

For use in food & beverage as well as pharmaceutical & biotech applications, high requirements for hygienic design, maximum IP protection as well as chemical and mechanical resistance are met for maximum reliability and durability. Types 8682 and 8683 form a device family. For the user, this results in consistency in terms of functions, operating concept, electrical interfaces, optical signalling, digital communication and approval standards. In addition, both types use the same mechanical actuator adaptation.

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Visit product website

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1. General technical data

1.1. Control head Type 8683

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 9.
Material	
Body	PPE-PS, PPS, PC, stainless steel
Seal	External: EPDM Internal: EPDM, FKM, NBR
Operation	
Operating keys	For teaching the valve end positions, the electric manual operation and the setting of the LED colours for the valve status
Service interface	Connection to PC via USB-C service interface
Configuration tool	Bürkert Communicator
Commissioning	
Setting of valve end position	Through automatic or manual teach function
Manual override of pilot valve	Yes
Electric manual override	
Pilot valve	Yes
Status display	
Display of device and valve status	High-performance LEDs (valve status colours are individually adjustable)
Communication	
Fieldbus	AS-Interface 3
Digital	24 V DC (PNP I/O, optional NPN), short-circuit proof output, with clocked short-circuit protection IO-Link
Fieldbus-specific data	
Bit configuration table	Further information can be found in the **operating instructions Type 8683** ▶.
Programming data table	Further information can be found in the **operating instructions Type 8683** ▶.
Performance data	
Functional overview	Further information can be found in chapter "1.2. Functional overview Type 8683" on page 6.
Position sensor	
Analogue position sensor	Contactless magnetic, 3 (4) adjustable switching points Teach functions (manual teach function, automatic teach function, TEACH.IN.OP) (automatic teach-in during operation)
Position feedback	
Stroke range for linear actuator	
Valve spindle	0...86 mm
Resolution	≤ 0.03 mm
Rotation range for rotary actuator	
Valve spindle	0...359°
Resolution	≤ 0.2°
Total error	± 0.5 mm (error refers to total stroke of 83 mm) ± 2° (for rotation range of 360°)
Target	Permanent magnet (use only the supplied target)
Pneumatic data	
Control medium	Neutral gases, air, quality class according to ISO 8573 - 1 (5 µm filter recommended)
Dust content	Class 7 (< 40 µm particle size)
Particle density	Class 7 (< 10 mg/m³)
Pressure dew point	Class 3 (≤ - 20 °C or min. 10 °C below the lowest operating temperature)
Oil content	Class X (< 25 mg/m³)
Supply pressure	3...8 bar
Pilot air port	
Medium temperature	- 10...+ 50 °C
Air inlet and outlet	G ¼
Working port	G ⅛

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Actuating system	
Circuit function	Single-acting and double-acting, 1...3 pilot valves for multi-position actuators
Air performance [1.)]	Q_{Nn} = 200 l/min (maximum flow rate) 110 l/min (for aeration and venting in throttled delivery status)
Approvals and conformities	
Explosion protection	
ATEX/IECEx	Dust: II 3 D Ex tc IIIC T135 °C Dc X Gas: II 3 G Ex ec IIC T4 Gc X Further information can be found in chapter "2.4. Explosion protection" on page 7.
North America (USA/Canada)	
CSA Listed for the USA and Canada	cCSAus in preparation
HazLoc explosion protection	Nonincendive for Class I/II, Division 2 (in preparation)
Further information can be found in chapter "2.5. North America (USA/Canada)" on page 7.	
Environment and installation	
Operating conditions	
Ambient temperature	-10...+ 55 °C
Degree of protection	IP65/IP67/IP69k according to EN 60529 / IEC 60529 (IP67 is only achieved with a suitable exhaust connection, see the operating instructions **Type 8683** ▶)
Operating altitude	Up to 2000 m above sea level
Installation and mechanical data	
Installation position	As required, preferably with control head in upright position

1.) Q_{Nn} value for pressure drop from 7 to 6 bar absolute at + 20 °C

Without fieldbus communication: 24 V DC

Electrical data	
Operating voltage	24 V DC ± 25 %
Residual ripple	Max. 10 %
Protection class	III according to DIN EN 61140
Power consumption	Including external load on an active digital output: Max. 3 W at 10 mA load on digital output Max. 6 W at 100 mA load on digital output
Digital inputs for valve controls (DI1-DI3)	
Number, type	3 × 24 V relative to GND operating voltage, PNP (standard, variant with NPN)
Input power	Max. 1 mA at 30 V
Input voltage	0 signal = 0...5 V 1 signal = 15...30 V
Digital outputs for feedback signals	
Number, type	4 × 24 V relative to GND operating voltage, PNP (standard, variant with NPN)
Output power	Max. 100 mA per output, short-circuit proof
Output voltage	0 signal = ≤ GND + 1 V and 1 signal = ≥ operating voltage - 1 V
Electrical connection	
Multipole	M12, 12-pin with 10 cm cable
Cable gland	M16 × 1.5 SW22 (cable Ø 5...10 mm, screw-type terminals 0.14...1.5 mm²) M16 × 1.5 SW19 (cable Ø 2...6 mm, screw-type terminals 0.14...1.5 mm²)

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With fieldbus communication: AS-Interface

Product properties	
Profile	S- 7.A.E (A/B slave with 3 A/4E) S- 7.A.7 (A/B slave with 4 A/4E)
Electrical data	
Operating voltage	
Via bus cable	21...31.6 V DC Optional with additional actuator power supply (AUX Power): 24 V ± 25 %, max. residual ripple 10 % The actuator power supply must be galvanically isolated from the system power supply according to IEC 60664 and, for electrical safety (SELV), according to IEC 61010 - 2 - 201.
Protection class	III according to DIN EN 61140 (VDE 0140 - 1)
Power consumption devices without external actuator supply	
Current consumption at 26.5 V DC	< 70 mA + 20 mA (per pilot valve)
Power consumption devices with external actuator supply	
Bus-powered	< 70 mA at 26.5 V
Actuator supply (AUX power)	< 105 mA at 18 V DC
Watchdog function	Integrated
Electrical connection	
Multipole	M12, 4-pin, 80 cm cable (1.0 m total cable length for the mathematical design of the AS-Interface network according to specification)

With digital communication: IO-Link

Electrical data	
IO-Link revision	V1.1.3
SIO mode	No
VendorID	0×78, 120
DeviceID	See corresponding IODD file (port class A, resp. port class B) The IODD file can be downloaded from our **website Type 8683** ▶, see Software > Device Description Files A.04.
Transmission rate	230.4 kbit/s
Frame type in operate mode	TYPE_2_V
Minimum cycle time	12 ms
Data storage	Yes
Cable length	Max. 20 m
Port class	A or B
Operating voltage	18...30 V DC (according to specification)
Power supply	Via IO-Link
Protection class	III according to DIN EN 61140
Maximum current consumption	
Port class A	< 60 mA + 30 mA per pilot valve at 18 V DC
Port class B	Bus-powered: < 60 mA at 18 V Actuator supply: < 15 mA + 35 mA per pilot valve at 18 V DC
Electrical connection	
Multipole	M12, 4-pin (IO-Link, port class A), cable 80 cm (from the cable gland) M12, 5-pin (IO-Link, port class B), cable 80 cm (from the cable gland)

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1.2. Functional overview Type 8683

Function	Variant	
	Control head with with standard pilot valve	Control head with pilot valve SpeedControl
Basic functions		
TEACH.MANU: manual teach function for valve end positions	X	X
TEACH.AUTO: automatic teach function for valve end positions	X	X
TEACH.IN.OP: automatic learning of valve end positions during operation	X	X
Manual operation of pilot valves (mechanically)	X	X
Manual operation (electrically via internal keypad)	X	X
Position feedback of process valve	X	X
Optical position feedback of the taught points (S1, S2, S3 S4) 1.)	X	X
SAFEPOS: parameters for safety position (select safety position and activate/deactivate in the event of a device error)	X	X
Safety positions are defined in the event of a power/compressed air failure	X	X
X.CONTROL: parameters for positioning (setting feedback signals and ranges, as well as assignment of end positions, LED colours and LED display modes)	X	X
Localisation function 2.)	X	X
CIP.SAVE: cleaning function to reduce CIP fluid	X	X
USB-C service interface	X	X
Mechanical throttling of the pneumatic drive's aeration and venting	X	X 3.)
Electronic throttling of the pneumatic drive's aeration and venting	–	X
Energy-saving function to save compressed air during pneumatic activation	–	X
Diagnostic functions		
TEMP.MONITOR: temperature monitoring	X	X
VOLT.MONITOR: supply voltage monitoring	X	X
SWITCH.CHECK: switch monitoring	X	X
SWITCH.TIME: switching time monitoring	X	X
SEAL.MONITOR: monitoring of sealed position	X	X
RAPID.MOVE: monitoring of sudden movements	X	X
Service features		
SERVICE.TIME: totaliser for operating time	X	X
TRAVEL.ACCU: totaliser for travelled distance	X	X
CYCLE.COUNTER: totaliser for valve cycles	X	X
Parameterisation via PC tool Bürkert Communicator (USB-C service interface on electronic module)	X	X
Deactivation of on-site operation (lock function)	X	X
Reset functions (reset to factory settings, teach, diagnostic and maintenance reset)	X	X

1.) S1 – mostly lower valve position (valve completely closed)
S2 – mostly upper valve position (valve fully open)
2.) Only for AS-Interface 3, profile S- 7.A.7 and for IO-Link
3.) Available only for valve slots 2 (pneumatic output A2) and 3 (pneumatic output A3). Valve slot 1 can be throttled electronically via Speedcontrol.

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2. Approvals and conformities

2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

2.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

2.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

2.4. Explosion protection

<table>
<tr><th>Approval</th><th>Description</th></tr>
<tr><td> </td><td>Optional: Explosion protection

ATEX und IECEx:

<table>
<tr><th>Dust</th><th>Gas</th></tr>
<tr><td>II 3 D Ex tc IIIC T135 °C Dc X</td><td>II 3 G Ex ec IIC T4 Gc X</td></tr>
</table>
</td></tr>
</table>

2.5. North America (USA/Canada)

<table>
<tr><th>Approval</th><th>Description</th></tr>
<tr><td> </td><td>Optional: UL Listed for the USA and Canada
The products are UL Listed for the USA and Canada according to:
• UL 61010-1 (ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE – Part 1: General Requirements)
• CAN/CSA-C22.2 No. 61010-1</td></tr>
<tr><td> </td><td>Optional: FM (Factory Mutual) – Explosion Protection
Nonincendive for Class I, Division 2, Groups A, B, C and D hazardous locations</td></tr>
</table>

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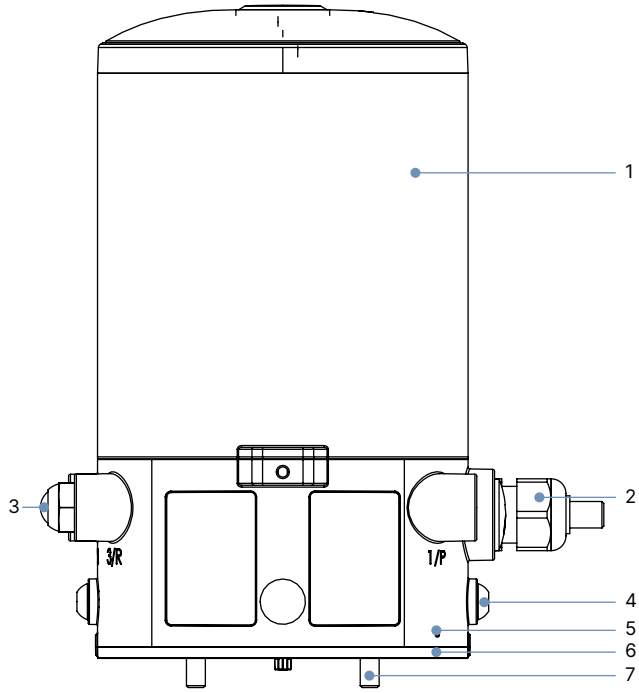
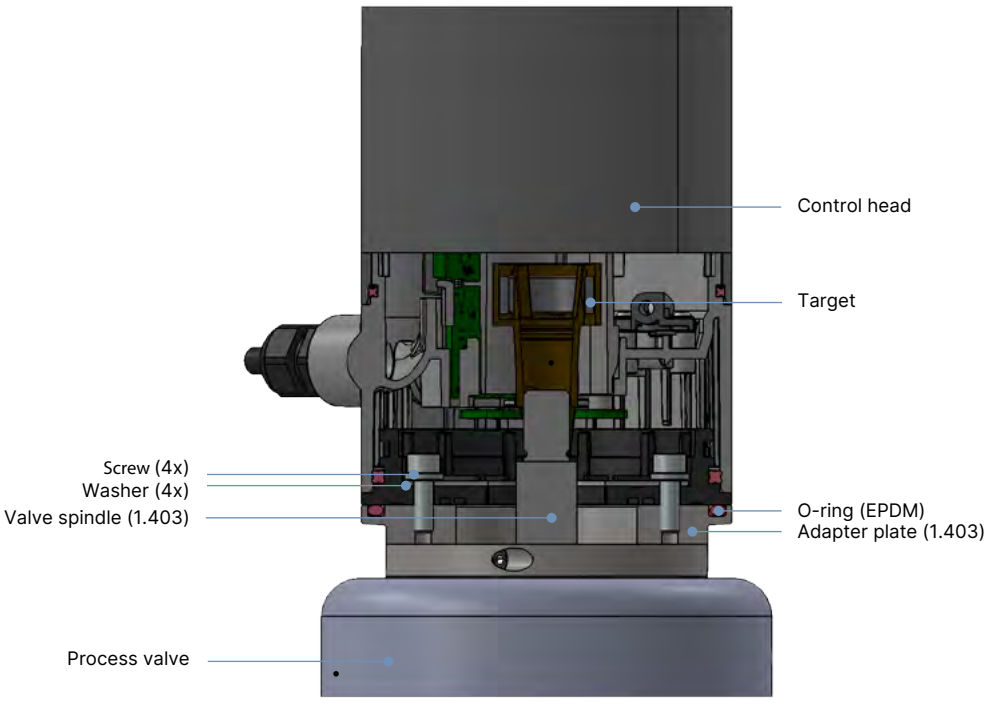
3. Materials

3.1. Material specifications



No.	Element	Material
1	Cover	PC Stainless steel
2	Cable glands	PA
3	Silencer	Stainless steel
4	Screws	Stainless steel
5	Fluid part	PPE/PS
6	Base	PPS
7	Screws	Stainless steel

3.2. Adaptation interface Type KK01 for process valve



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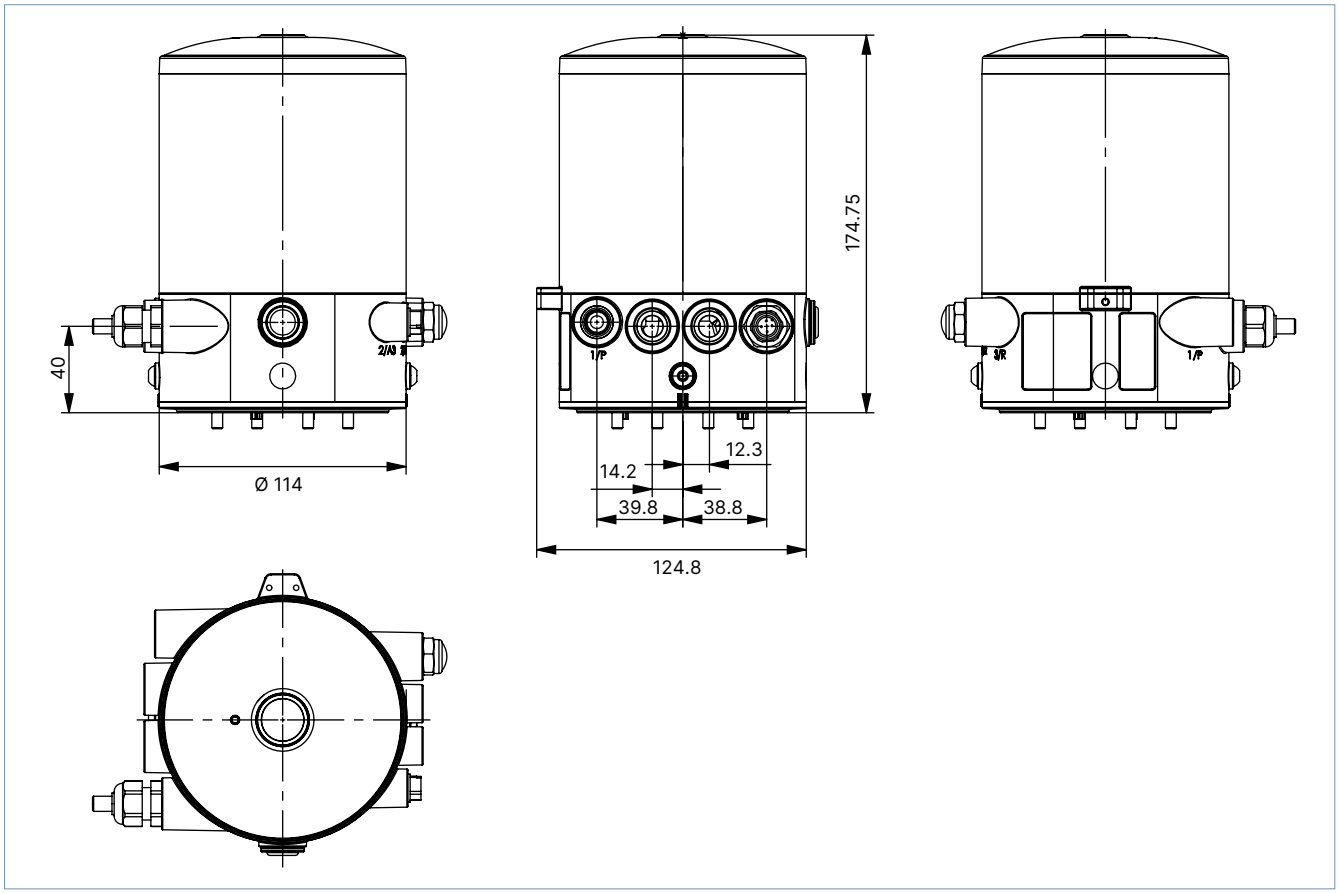
4. Dimensions

4.1. Control head

Note:
Dimensions in mm, unless otherwise stated



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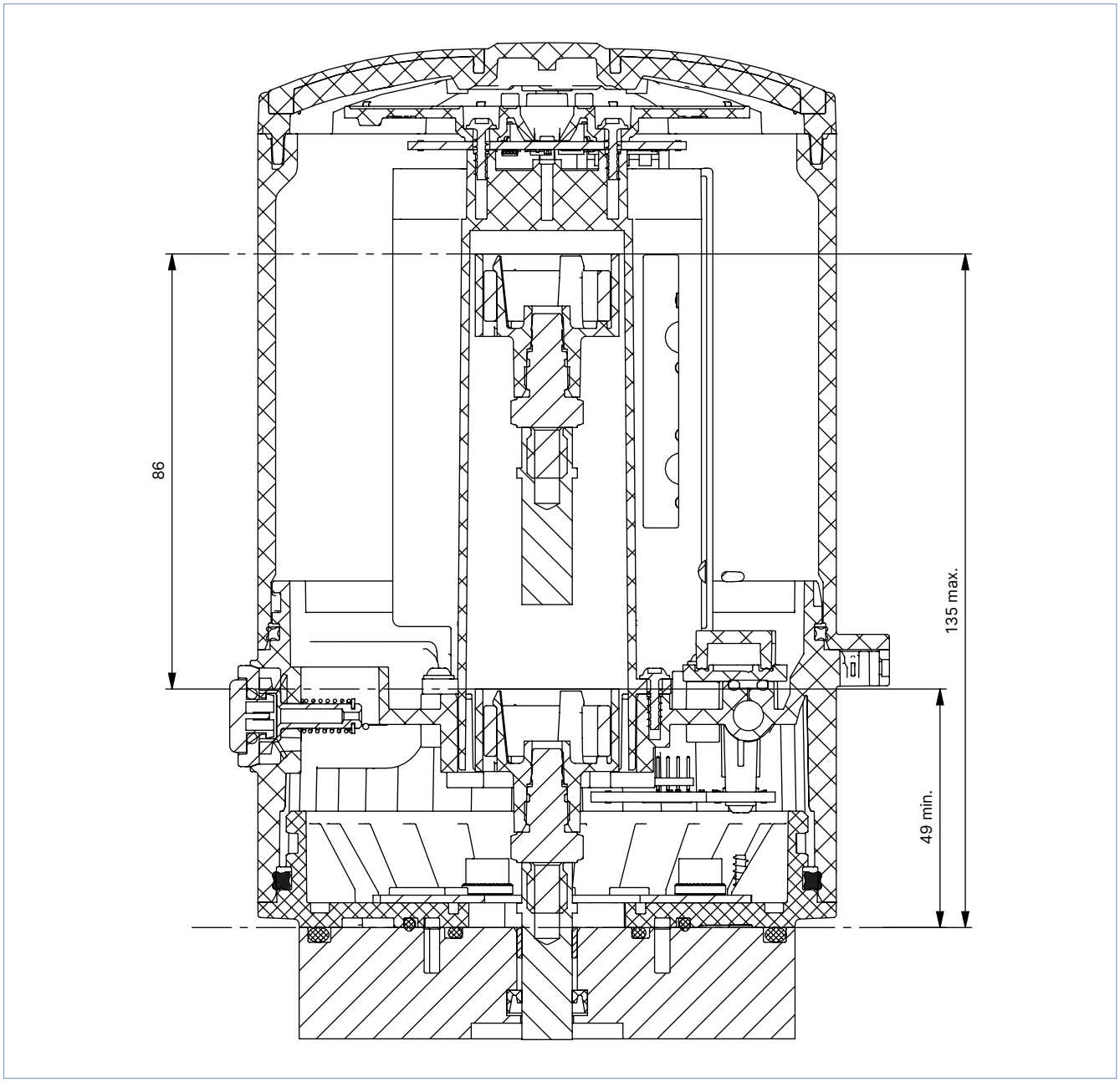
4.2. Stroke range of piston rod with linear target

Note:
Dimensions in mm, unless otherwise stated



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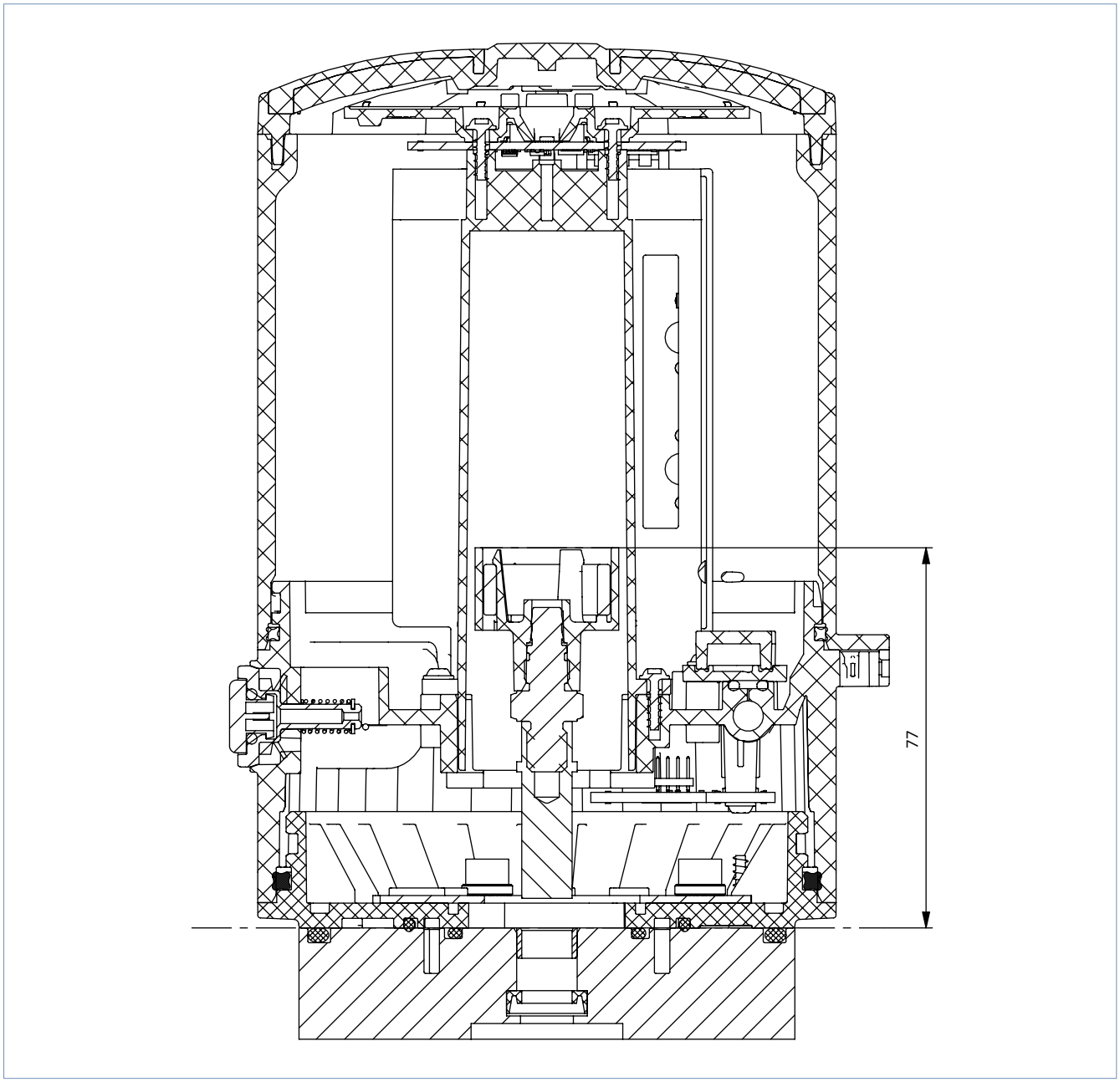
4.3. Angular range of piston rod with rotary target

Note:
Dimensions in mm, unless otherwise stated



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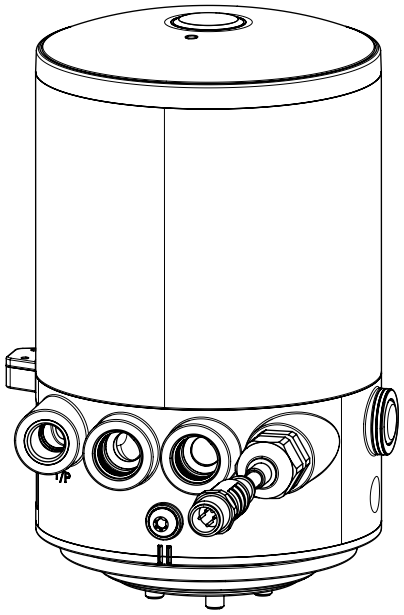
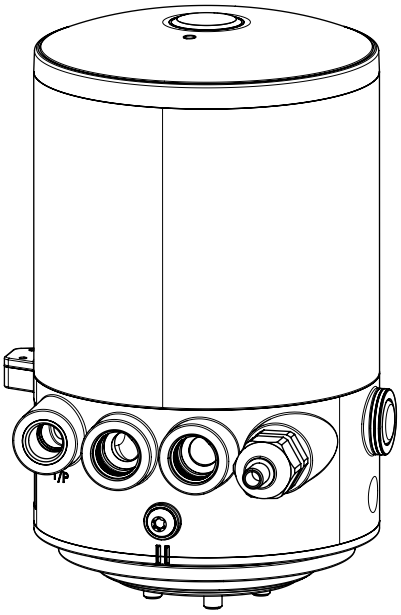
5. Product connections

5.1. Electrical connection

Without fieldbus communication: 24 V DC

Variant with cable glands	Variant with 12-pin M12 plug [1.)]
	

1.) M12 plug according to IEC 61076 - 2 - 101, M12 5-pin with 8 cm cable

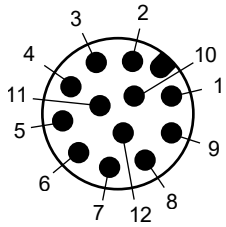
Connection terminals

Terminal	Description
+ 24 V	Operating voltage + 24 V DC
GND	Operating voltage GND
GND Dx	If required: GND signals for control

Control signals

Terminal	Description
DI1+ (Y1)	Digital input 1, control of pilot valve V1 (relative to GND)
DI2+ (Y1)	Digital input 2, control of pilot valve V2 (relative to GND)
DI3+ (Y1)	Digital input 3, control of pilot valve V3 (relative to GND)
DO1+ (S1)	Digital output 1, valve position feedback S1 (relative to GND)
DO2+ (S2)	Digital output 2, valve position feedback S2 (relative to GND)
DO3+ (S2)	Digital output 3, valve position feedback S3 (relative to GND)
DO4+ (S2)	Digital output 4, valve position feedback S4 (relative to GND)
+ 24 V INI	Supply voltage, for an external inductive proximity switch
DI4+ (S5)	Digital input 4, for an external inductive proximity switch
GND INI	Supply voltage GND, for an external inductive proximity switch
DI5+ (S6)	Digital input 5, for an external inductive proximity switch

M12 plug, 12-pin



Pin	Description	Pin assignment	Wire colour
1	Operating voltage + 24 V DC	+ 24 V	Brown
2	Operating voltage GND	GND	Blue
3	Digital output 1 for valve position feedback S1 (relative to GND)	DO1+ (S1)	White
4	Digital output 2 for valve position feedback S2 (relative to GND)	DO2+ (S2)	Green
5	Digital output 3 for valve position feedback S3 (relative to GND)	DO3+ (S3)	Orange
6	Digital output 4 for feedback from the external initiator (INI1 is the default setting) for valve position S4 (relative to GND)	DO4+ (S4)	Yellow
7	Digital input 1 for controlling pilot valve V1 (relative to GND)	DI1+ (Y1)	Black
8	Digital input 2 for controlling pilot valve V2 (relative to GND)	DI2+ (Y2)	Grey
9	Digital input 3 for controlling pilot valve V3 (relative to GND)	DI3+ (Y3)	Red
10	–	Not assigned	Purple
11	–	Not assigned	Brown/white
12	–	Not assigned	White/black

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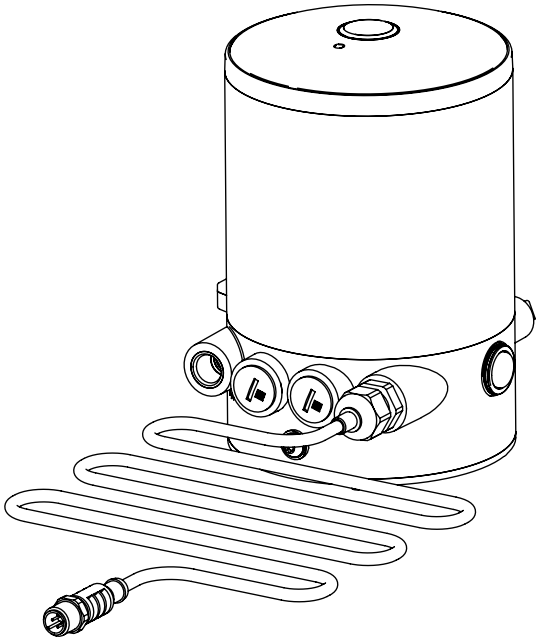
AS-Interface connection

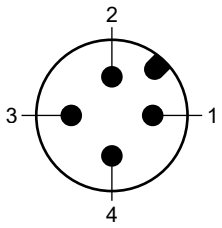
With multipole connection

M12 plug according to IEC 61076 - 2 - 101, 4-pin, 80 cm cable (from the cable gland)



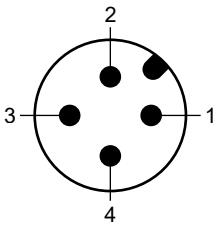
M12 circular plug, 4-pin

Bus connection, operating voltage via bus



Pin	Description	Pin assignment	Wire colour
1	ASI +	AS-Interface, AS-i +	Brown
2	NC	Not assigned	White
3	ASI -	AS-Interface, AS-i -	Blue
4	NC	Not assigned	Black

Bus connection with additional actuator supply (AUX Power)



Pin	Description	Pin assignment	Wire colour
1	ASI +	AS-Interface, AS-i +	Brown
2	GND	GND	White
3	ASI -	AS-Interface, AS-i -	Blue
4	24 V +	24 V +	Black

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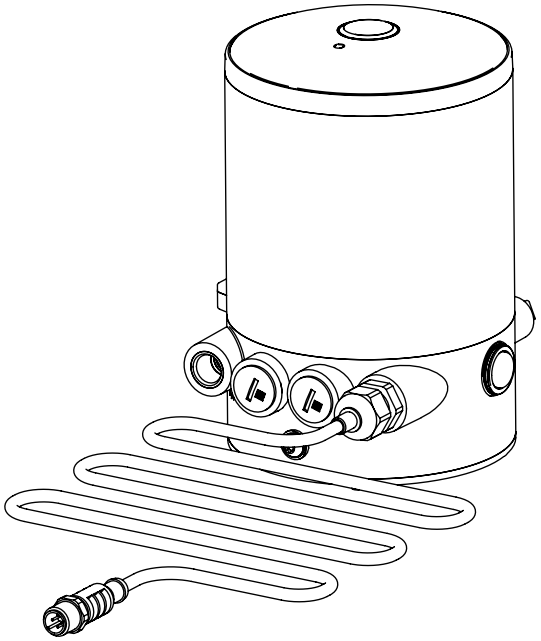
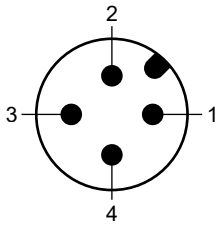
IO-Link connection

Multipole connection
M12 plug according to IEC 61076 - 2 - 101, 4-pin (port class A) or 5-pin (port class B) on a 80 cm cable (from the cable gland)

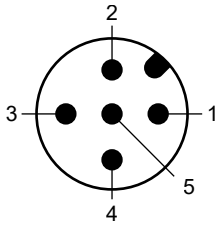


M12 circular plug, 4-pin, port class A



Pin	Description	Pin assignment	Wire colour
1	L+	24 V DC	Brown
2	DIO/2L+	Not assigned	(White)
3	L-	0 V (GND)	Blue
4	C/Q	IO-Link	Black

M12 circular plug, 5-pin, port class B



Pin	Description	Pin assignment	Wire colour
1	L+	24 V DC (Power 1)	Brown
2	DIO/2L+	24 V DC (Power 2)	White
3	L-	0 V (GND, Power 1)	Blue
4	C/Q	IO-Link	Black
5	2M	0 V (GND, Power 2)	Grey or yellow/green

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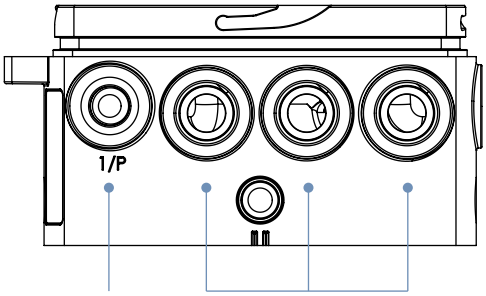
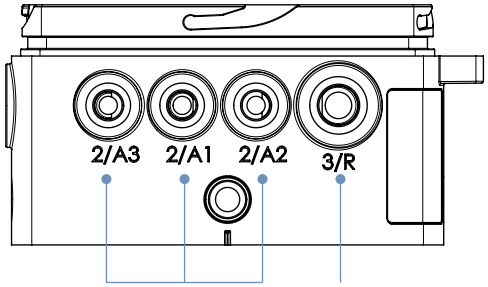
Pneumatic connections

Supply connections



Compressed air connection (1/P) Electrical connections

Working ports



Working ports (2/A1…A3) Exhaust air port (3/R)

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6. Product installation

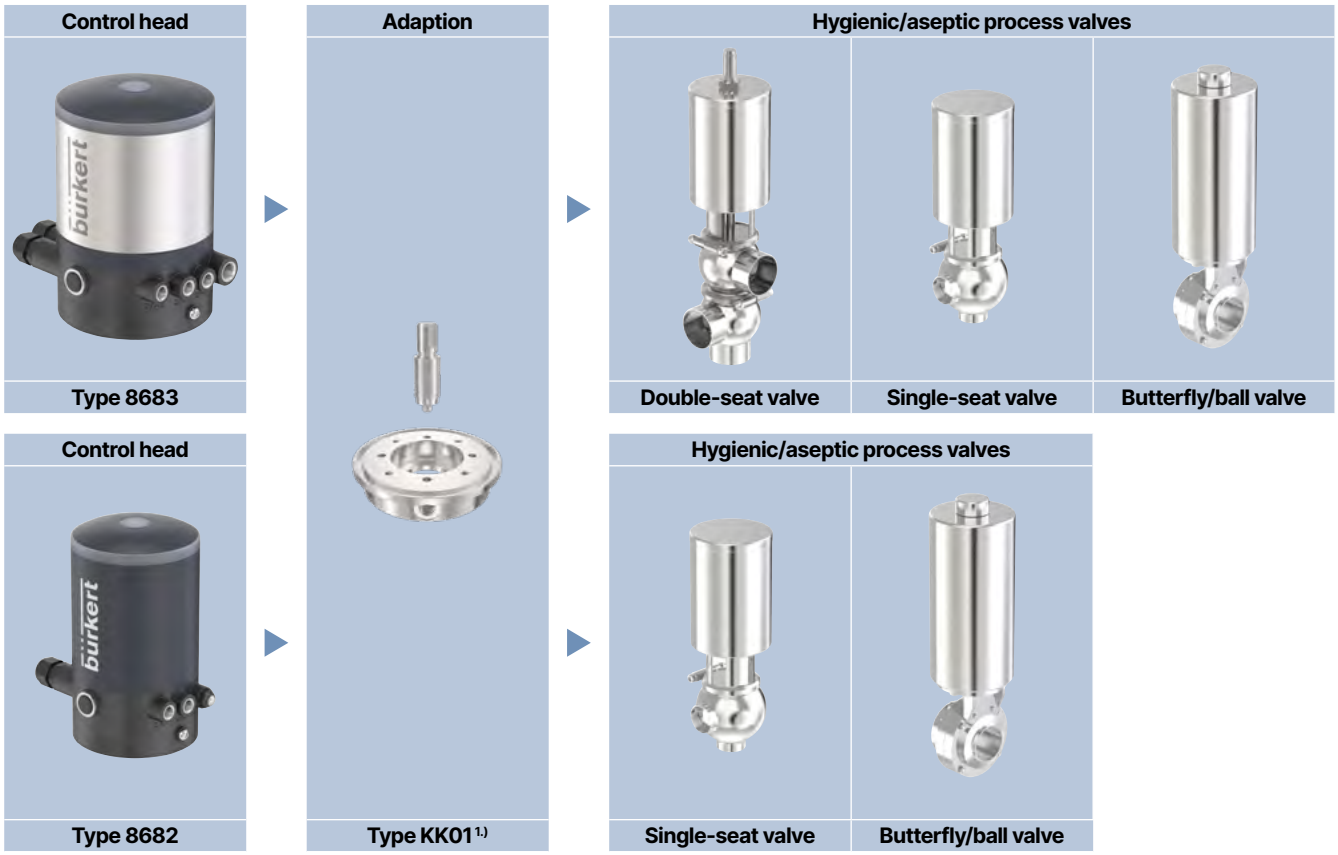
6.1. Combination options with hygienic/aseptic third-party valves

Note:
The following is required to mount Type 8682 and 8683 control heads on pneumatically actuated process valves:

- Article no. of the desired control head, see data sheet Type 8682 or Type 8683
- Article no. of the appropriate adaption, see data sheet Type KK01 or on request
- In these cases, select the appropriate variant for both the control head and the adaption.

Depending on the design of the pneumatic actuator, an integrated pilot air duct can be implemented.

Examples of decentralised On/Off automation systems



1.) See data sheet **adaptations for third-party actuators Type KK01** ▸ or contact the relevant Bürkert sales office.

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7. Ordering information

7.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

7.2. Bürkert product filter

Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements?
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7.3. Ordering chart

Note:
Further variants are available on request.

Communication	Connection	Pneumatic function	Number of solenoid valves	Integrated control air for solenoid valve 1 / Working port 2/A1	Feedback signals 3 interior + 1 exterior	Article no.	
						Linear sensor	Rotary sensor
Without fieldbus communication	Cable gland	3/2-way	1	–	PNP	20115380	20115382
				Yes	PNP	20150420	20150421
				–	NPN	20115381	20115383
			2	–	PNP	20115386	o. r.
				–	NPN	20115387	o. r.
			3	–	PNP	20115389	o. r.
				–	NPN	20115390	o. r.
		3/2-way / double-acting	2	–	PNP	20115392	20115394
				–	NPN	20115393	20115395
	M12, 12-pin, 10 cm cable	3/2-way	1	–	PNP	20115384	20115385
				Yes	PNP	20150422	20150423
				–	NPN	o. r.	o. r.
			2	–	PNP	20115388	o. r.
				–	NPN	o. r.	o. r.
			3	–	PNP	20115391	o. r.
				–	NPN	o. r.	o. r.
		3/2-way / double-acting	2	–	PNP	20115396	o. r.
AS-Interface (62 slaves) S-7.A.E	M12, 4-pin, 80 cm cable	3/2-way	1	–	PNP	20115407	20115409
				Yes	PNP	20150424	20150424
			2	–	PNP	20115411	20115413
			3	–	PNP	20115415	20115417
		3/2-way / double-acting	2	–	PNP	20115419	20115421
AS-Interface (62 slaves) S-7.A.E AUX Power	M12, 4-pin, 80 cm cable	3/2-way	1	–	PNP	20115408	20115410
				Yes	PNP	20150426	20150426
			2	–	PNP	20115412	20115414
			3	–	PNP	20115416	20115418
		3/2-way / double-acting	2	–	PNP	20115420	20115422
IO-Link Port class A	M12, 4-pin, 80 cm cable	3/2-way	1	–	PNP	20115431	20115433
				Yes	PNP	20150428	20150428
			2	–	PNP	20115435	20115437
			3	–	PNP	20115439	20115441
		3/2-way / double-acting	2	–	PNP	20115443	20115445
IO-Link Port class B	M12, 5-pin, 80 cm cable	3/2-way	1	–	PNP	20115432	20115434
				Yes	PNP	20150430	20150430
			2	–	PNP	20115436	20115438
			3	–	PNP	20115440	20115442
		3/2-way / double-acting	2	–	PNP	20115444	20115446

o. r. = on request

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Further variants on request
Additionally • Digital outputs NPN-coded • AS-Interface with separate power supply AUX Power • AS-Interface (62 slaves) S-7.A.7 • Integrated pilot air duct

Further variants in preparation
• cULus • ATEX / IECEx / FM / CCC Kat. 2GD / 3GD, Class I/II Div I/II

7.4. Ordering chart accessories

Standard accessories

Note:
Must be ordered separately.

Variant	Article no.
Set with 20 steel seals to avoid tool-free opening of the cover	257100
Rotary push-in fittings, nickel-plated brass G ⅛ for hose Ø 6/4	780082
Rotary push-in fittings, nickel-plated brass G ¼ for hose Ø 8/6	780084
AS-Interface flat cable terminal, M12 outlet, stainless steel outlet	799646
Software Bürkert Communicator	**Type 8920**
Adaptations for hygienic and non-hygienic process valves	**Type KK01**

7.5. Spare parts

Note:
For spare parts, see **service manual Type 8683**.

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