Control Head

- 3 switching points
- Color status display
- Manual override to be used with closed housing
- Fieldbus AS-Interface, IO-Link or büS (CANopen)

Type 8681 control head is optimized for decentralised automation of hygienic process valves. Thanks to its universal adapter it can be combined with all normal commercial butterfly valves, ball valves, single and double seated valves. With a decentralised automation concept, the control head takes over all pneumatic actuation, feedback and diagnostic functions up to and including field bus communication. The housing is easy to clean and features proven electrical IP protection and chemically resistant materials for use in hygienic processing in food, beverage and pharmaceutical industries.

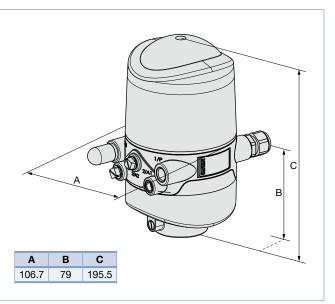
Technical Data

Material Body Cover	PA, PPO, VA PC			
Seal	CR, EPDM			
Control medium Dust concentration Particle density Pressure condensation point Oil concentration	neutral gases, air DIN ISO 8573-1 (filter 5 µm recommended) class 5 (<40 µm particle size) class 5 (<10 mg/m ³) class 3 (<-4 °F (-20°C)) class 5 (<25 mg/m ³)			
Supply pressure	36.25 to 116 PSI			
Air capacity solenoid valve ¹⁾ (supply and exhaust air per solenoid valve adjustable)	110 l _v /min - for pressurization and exhaust, lifting device 110 l _v /min - delivery condition 200 l _v /min - max. typical flow rate (throttle)			
Pilot air ports Air inlet and outlet Service ports	G 1/4" G 1/8"			
Position sensor Outlet current Stroke range Resolution Total error	Non-contact Position Sensor, 3 self-regulated switching points PNP (Teach-In-function) closer (normally open), PNP-output short-circuit proof, with clocking short-circuit protection Max. 100 mA per feedback signal 0 to 80 mm ≤ 0.1 mm ± 0.5 mm - when using a target for the dimensional drawing, material 1.4021 and a piston rod (222 mm, material 1.4021) (error refers to the reproducibility of a teach-position)			
Ambient temperature	14 °F to 131 °F 41 °F to 131 °F (ATEX II 3G Ex nA IIC T4; ATEX II 3G Ex tD A22 T135°C)			
Installation	As required, preferably with actuator in upright position			

 $^{\rm 1)}$ QNn-value acc. to the definition with decrease in pressure from 7 to 6 bar absolute with 68°C.



Envelope Dimensions [mm] (see datasheet for details)



Technical Data (continued)

Type of protection	IP 65/67 acc. to EN 60529
Protection class	3 acc. to VDE 0580
Fieldbus communication	AS-Interface
EG-Conformity	EMV2004/108/EG; ATEX 94/9/EG
Ignition protection	ATEX II 3G Ex nA IIC T4 ATEX II 3G Ex tD A22 T135°C

Options

Class 1 Div. 2



= Burkert Quick Delivery Express Program Items

Ordering Chart

Communication	Supply voltage	Connection	FM CL1D2 NI	Quantity of solenoid valves	Feedback	Item no.
without 12 to 28 V D	12 to 28 V DC	cable gland	no	0	3 int. + 1 ext.	196410
			no	1	3 int. + 1 ext.	196411
			no	3	3 int. + 1 ext.	196413
		without	yes	0	3 int. + 1 ext.	267358
		without	yes	1	3 int. + 1 ext.	261483
		without	yes	3	3 int. + 1 ext.	261484
without 12	12 to 28 V DC	M12, 12-pin, cable 80 cm	no	0	3 int. + 1 ext.	196420
			no	1	3 int. + 1 ext.	196421
			no	3	3 int. + 1 ext.	196423
without 120 VAC	120 VAC	cable gland	no	0	3 int. + 1 ext.	196470
			no	1	3 int. + 1 ext.	196471
			no	3	3 int. + 1 ext.	196473
AS-Interface v3.0 (62 slaves) 29.5 to 31	29.5 to 31.6 V DC	Version with ASI	no	0	3 int. + 1 ext.	196430
		flat cable clip	no	1	3 int. + 1 ext.	196431
			no	3	3 int. + 1 ext.	196433
		without	yes	0	3 int. + 1 ext.	20013509
		without	yes	1	3 int. + 1 ext.	261485
		without	yes	3	3 int. + 1 ext.	261486
büS/CANopen via	via Bus	M12, 5-pin, cable 80 cm	no	0	3 int. + 1 ext.	on request
			no	1	3 int. + 1 ext.	363140
			no	3	3 int. + 1 ext.	363163
IO-Link via Bus	via Bus	Multipole 4-pin, cable 10 cm (port class A)	no	0	3 int. + 1 ext.	359167
			no	1	3 int. + 1 ext.	358578
			no	3	3 int. + 1 ext.	358579
			yes	0	3 int. + 1 ext.	20013513
		yes	1	3 int. + 1 ext.	20002932	
		yes	3	3 int. + 1 ext.	20003427	
PMO Versions (for Alfa Lav	al mixproof valves - inc	cludes fittings for 1/4" poly tubin	g)			
without	12 to 28 V DC	M12, 12-pin, cable 80 cm	no	3	3 int. + 1 ext.	98134546
AS-Interface (62 slaves)	29.5 to 31.6 V DC	Version with ASI flat cable clip and cable 80 cm	no	3	3 int. + 1 ext.	98134547
büS/CANopen	via Bus	M12, 5-pin, cable 80 cm	no	3	3 int. + 1 ext.	98138074
IO-Link	via Bus	Multipole 4-pin, cable 10 cm (Port class A)	no	3	3 int. + 1 ext.	98137651

Notes:

- UL and ATEX zone 2/22 cat. 3 versions available upon request

- UL and ALEX ZONE 2/22 cat o versions dramatic oper-region
- 2 solenoid versions available upon request
- FM versions always come without an electrical connection!
- FM versions of feedback units are always with pneumatic housing (ports are plugged)

- IO-Link Port class B available upon request

6 optimized LED colors: green, yellow, red, orange, white, and blue to indicate valve positions, error messages and warnings. In addition, the user has 6 different LED display modes to choose from.



