

顶部控制单元

优点

- 模块式设计
- 通用型接口
- 线路连接简易方便

附加功能

- 减压阀
- 可配直线型感应器
- 可感应阀板之间的隔离
- 各种电子模块

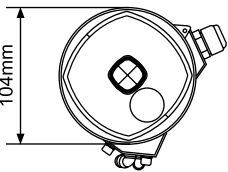
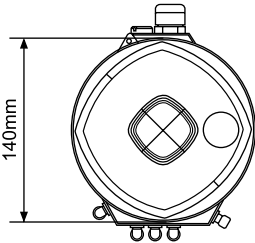
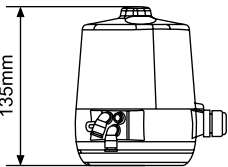
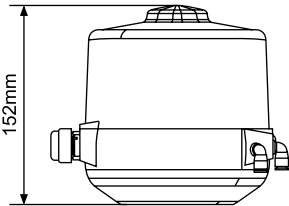
多种类阀门的配置

- ACS（高级控制系统）
- ICS（综合控制系统）
可用于各种阀门，行程不超过 80 毫米的阀门

ACS 型控制盒



ICS 型控制盒



技术参数	ACS 型控制盒	ICS 型控制盒
减压阀	可配置	可配置
点对点式连接	24-48V AC/DC	24-48V AC/DC
多种电压模块	信息反馈 PNP/NPN	信息反馈 PNP/NPN
AS-i 式连接	AS-i 2.1	AS-i 2.1
感应器	2 个 TOP 可调节感应器或直线型感应器（范围 80mm）	2 个 TOP 感应器
直线型感应器	分解 0.2mm 手动调节 范围 80mm	不可配置
外感应器	可配置	不可配置
耗电量（1 个电磁阀及一个气动的感应器）	AS-i 型 < 70mA 24V DC < 50mA	AS-i 型 < 70mA 24V DC < 50mA
电磁阀 EV	1 至 3EV 3/2	1EV 3/2 至 1EV 5/2
气功功能	常闭式，常开式 （仅限于 1 个电磁阀）	常闭式，常开式及双密封式
阀门开关速度调节	可配置	不可配置
气动连接配件	快速接口 4/6	快速接口 4/6
空气质量	过滤后的干燥空气 10um 5 至 7 巴	过滤后的干燥空气 10um 5 至 7 巴
工作温度	0℃或 70℃	0℃或 70℃

Top Control Units

Advantages

- Modular design
- Universal interface
- Easily for connecting the wires

Additional Functions

- Relief valve
- Linear sensor is optional
- Shut-off valve open sensor
- Various electronic modules

Ranges For Different Types of Valves

- ACS (Advanced Control System)

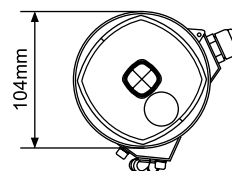
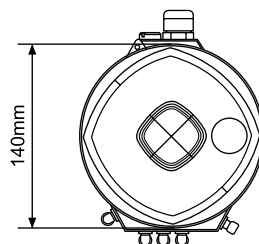
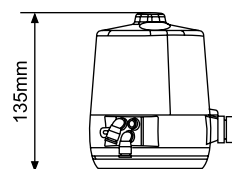
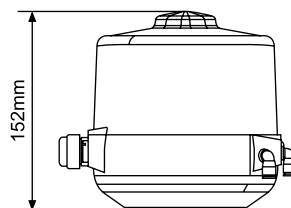
The ACS unit covers all the range of DEFINOX valves(excluding DCX3/4 fractional changeover valves and diaphragm valves with a fastening interaxial=32)

- ICS (Integrated Control System)

All the range valves with a nominal diameter less than 80 mm.

ACS type control unit

ICS type control unit

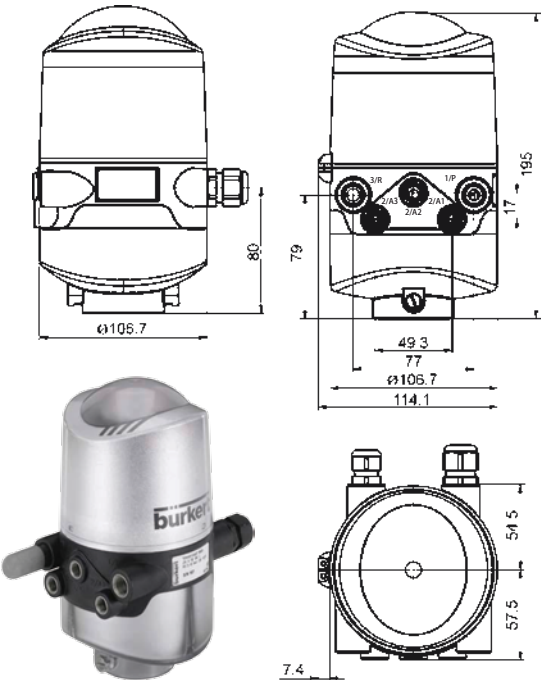


SPECIFICATIONS	ACS UNIT	ICS UNIT
Relief valve	Yes	Yes
Point-to-point connections	24-48V AC/DC	24-48V AC/DC
Multi-voltage modules	PNP/NPN retro data	PNP/NPN retro data
AS-i connections	AS-i 2.1	AS-i 2.1
Sensors	Two TOR sensors with fine adjustment (range 80 mm) or one linear sensor	2 TOR sensors
Linear sensor	Resolution 0.2 mm Manual calibration Stroke 80 mm	NO
External sensor	Yes	NO
Electrical consumption (1SV and 1sensor activated)	< 70mA in AS-i < 50mA in 24V DC	< 70mA in AS-i < 50mA in 24V DC
Solenoid valves	One to three SV 3/2	One SV 3/2 or one SV 5/2
Pneumatic functions	NC,NO(nly in one SV)	NC,NO(nly in one SV)
Valve open/close speed control	Yes	NO
Pneumatic connections	Quick 4/6	Quick 4/6
Air quality	Dry air filterd to 10 um 500 to 700 KPa(5 to 7 bar)	Dry air filterd to 10 um 500 to 700 KPa(5 to 7 bar)
Operating temperature	0°C -70°C	0°C -70°C

Burert8681 型控制头

优点

- 通用型控制头，适用于卫生型阀门控制
- 非接触式位置测量系统，具有 3 个开关点（Teach-In 功能）
- 最多可分别控制 3 个执行机构腔室
- 彩色状态显示器
- 手动开关，用于封闭的外壳
- AS-I 通讯接口（选项）

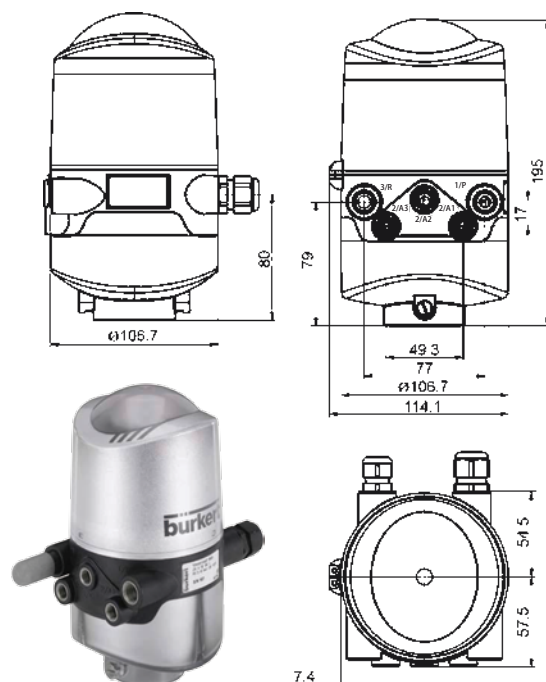


技术参数		不带现场总接口	
控制介质	中性气体，空气 DIN ISO 8573-1(建议采用 5um 过滤器)	工作电源	12 to 28 VDC
含尘量	class 5 (< 40um 粒子直径)	余波 DC	10%
颗粒物含量	class 5 (< 10mg/m³)	功耗	< 5W (取决形式和工作状态, 参见操作手册)
露点	class 3 (< 120°C)	阀门控制输入 (Y1-Y3)	
含油量	class 5 (< 25mg/m³)	信号电压 - 打开	U>10V, max.24V DC + 10%
气源压力	2,5...8 bar	信号关闭 - 关闭	U<5V
电磁阀流量	110 IN/min - 进气和排气 110 IN/min - 交付状态 200 IN/min - max. 典型流量 (节流状态)	阻抗	U>30kOhm
先导起源接口		输出 / 二进制反馈信号	
气源入口和出口	G 1/4	结构	S1 out - S4 out
工作口	G 1/8	切换输出电源	常开触点, PNP 输出短路保护带自定时短路保护
位置传感器	非接触式位置传感器: 3 个自由调整的开关点 PNP (Teach-In 功能) 接近开关 (常开触点): PNP 输出短路保护, 带自定时短路保护	输出电压 - 打开	≥ (工作压力 -2V)
输出电流	max.100mA 每个反馈信号	输出电压 - 关闭	max.1V 无负载情况下
行程范围	0 to 80 mm	输入 / 接近开关	(外部触发器 S4 in)
分辨率	≤ 0,1mm	电源	控制头上标注的电压 -10%
总误差	± 0,5mm - 采用不锈钢 1.4021 的靶和不锈钢 1.4302 的活塞杆 (Φ22mm) 时, 误差是指对示教位置的可重复性	载流能力, 传感器电源	max. 90mA 短路保护
环境温度	-10°C to + 55°C	结构	DC-2 和 3- 线, NO or NC (工厂设置 NO) PNP 输出
安装方式	可根据需要安装, 最好将执行器朝上	输入电流为 1	I _{sensor} > 6.5 mA, 内部限制到 10mA
防护等级	IP 65/67 acc.to EN 60529	输入电压为 1	U _{sensor} > 10V
保护等级	3 acc.to VDE 0580	输入电流为 0	I _{sensor} < 4 mA
现场总线通讯	AS-Interface DeviceNet (in preparation)	输入电压为 0	U _{sensor} < 5 V
一致性	符合 CE 标准, 符合 EMV2004/108/EG	电气连接	
点火保护类型	II 3G Ex nA II C T4 II 3G Ex tD A22 T135°C	多针	M12,12 针, 带 8cm 电缆; 1×M16×1.5 电缆接头, 用于外部触发器 (夹紧范围 3...6mm)
		电缆接头	M16×1.5 (Φ5...10mm 电缆, 螺钉端子 0.14...1.5mm²), 1×M16×1.5 电缆接头, 用于外部触发器 (夹紧范围 3...6mm)

Burert 8681 Control Unit

Advantages

- Universal attachment for hygienic process valves
- Contactless position measurement system with 3 switching points (Teach-in function)
- Maximum control 3 actuators
- Colorful display screen
- Manual switch suits for sealed case.
- AS-I communication interface (optional)



TECHNICAL DATA		WITHOUT FIELD BUS COMMUNICATION	
Control medium	neutral gases, air DIN ISO 8573-1 (filter 5 µm recommended)	Operating voltages	12 to 28 VDC
Dust concentration	class 5 (<40 µm particle size)	Residual ripple with DC	10 %, no technical direct current
Paftide density	class 5 (<10 mg/m³)	Power consumption	< 5W (acc. to version and operating status see instruction manual)
Pressure condensation point	class 3 (<-20°C)	Valve control inputs (Y1-Y3)	U < 5V, max. 24 V DC + 10%
Oil concentration	class 5 (25 mg/m³)	Signal level – active	U < 5V
Supply pressure	2,5...8 bar	Signal level – inactive	U > 30 kOhm
Air capacity solenoid valve	110lN/min – for pressurization and exhaust, lifting device 110lN/min – delivery condition 200lN/min – max. typical flow rate (throttle)	Impedance	
Pilot air ports		Outputs / binary feedback signals	S1 out– S4 out
Air inlet and outlet	G 1/4	Design	Normally open contact, PNP output shortcircuit proof with selflocking short circuit protection
Service ports	G 1/8	Switchable output current	max. 100 mA per feedback signal
Position sensor	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	Output voltage –active	≥ (operating voltage–2V)
Outlet current	max. 100 mA per feedback signal	Output voltage –inactive	max. 1 V in unloaded state
Stroke range	0 to 80 mm	Input / proximity switches (external initiator : S4 in)	
Resolution	≤ 0,1 mm	Power supply	Voltage present at control head – 10 %
Total error	± 0,5 mm – when using a target for the dimensional drawing, material 1.4021 and a piston rod (Φ 22 mm, material 1.4301) (error refers to the reproducibility of a teach-position)	Current carry capacity, sensor power supply	max. 90 mA short-circuit protection
Ambient temperature	-10 to +55°C	Design	DC 2- and 3-conductor, NO or NC (factory setting NO), PNP output
Installation	As required, preferably with actuator in upright position	Input current 1 signal	ISensor > 6.5 mA, limited internally to 10 mA
Type of protection	IP 65/67 acc. to EN 60529	Input voltage 1 signal	USensor > 10 V
Protection class	3 acc. to VDE 0580	Input current 0 signal	ISensor < 4 mA
Fieldbus communication	AS-Interface, DeviceNet (in preparation)	Input voltage 0 signal	USensor < 5 V
Conformity	acc. to CE in compliance with EMV2004/108/EG	Electrical connection	M12 12-pin with cable 8 cm, 1xM16x1.5
Ignition protection	II 3G Ex nA IIC T4 II 3D Ex tD A22 T135°C	Multipole	cable glands for external initiator (clamping range 3...6 mm)
		Cable gland	M16x1.5 (cable-Φ 5...10 mm, screw terminals 0.14 ... 1.5 mm²), 1 x M16 x 1.5 cable glands for external initiator (clamping range 3 ... 6 mm)