



# 2/2-way ball valve with electric rotary actuator, ball valve in plastic, DN 10-50

- Suitable for aggressive media
- High flow rate value
- Actuator with adjustable limit switches
- Visual position indicator
- Safe blocked union nuts with Dual Block® Technology¹
- Multivoltage

The electric ball valve Type 8804 consists of an electrical rotary actuator and a 2/2 or 3/2-way ball valve made of plastic. Different housings and materials are available for various applications. The rotary actuator is compactly built. It can be used also as single device for the operation of other control elements (see datasheet Type 3003).

#### **Special features**

The ball valves are equipped with the socalled Dual Block® Technology. This system allows you to lock the union nuts in the preset position. It prevents them separating during operation.

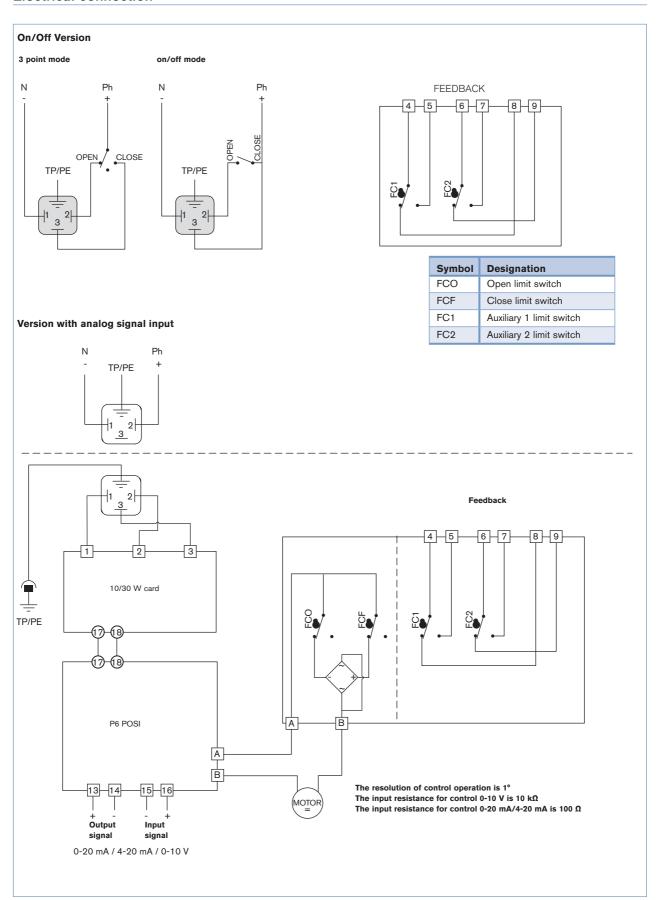
Heat resistor and torque limiter are standard. The body is made of low inflammable material, classified acc. to UL 94 VO.

Technical data					
Body material	PVC-U, (PP, PVDF, PVC-C on request)				
Seal material	PTFE/EPDM, (PTFE/FKM)				
Media	Gaseous and liquid media, which do not attack the housing and sealing materials				
Media temperature PVC-U PP PVDF	(see diagram Pg. 3) 0 to +60°C +10 to +80°C 0 to +120°C				
Ambient temperature	−10 to +55°C				
Port connections PVC-U (PP, PVDF on request)	True union (weld end coupling)				
Operating pressure	0-10 bar; 0-16 bar				
Connection between actuator and ball valve	Flange acc. to ISO 5211				
Operating voltage	15-30 V AC 50/60 Hz / 12-48 V DC 100-240 V AC 50/60 Hz / 100-350 V DC				
Voltage tolerance	+/-10%; for 12 to 48V DC the operating voltage should not go below 11.5 V				
Duty rating	acc. to IEC34 S4 = 50%				
Electrical connection	Cable Plug acc. to EN175301-803 (supply voltage) Cable glands ISO M20				
Protection class	IP66 with cable plug installed				
Rotation angle	90° (+/-5°)				
Rotation time	see ordering chart				
Limit switches	4 adjustable (2 for motor and 2 additional for feedback) max. 250 V AC/1.5 A max. 250 V AC/1.5 A				
Material (Actuator) Cover/Body Axis/Screws gearbox	Nylon/PA 6.6 Stainless steel stainless steel and PC				
Installation	Don't mount the actuator upside down				

<sup>&</sup>lt;sup>1</sup> Dual Block® Technology is a registered trademark of FIP – Formatura Iniezione Polimeri S.p.A

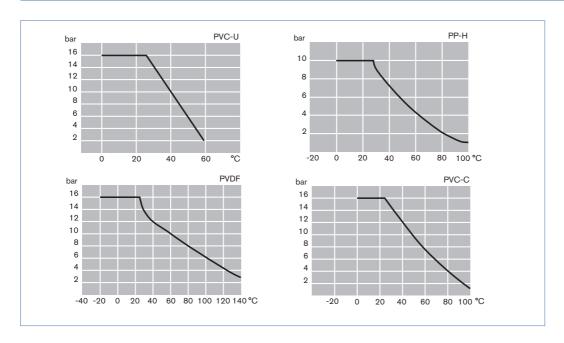
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## **Electrical connection**

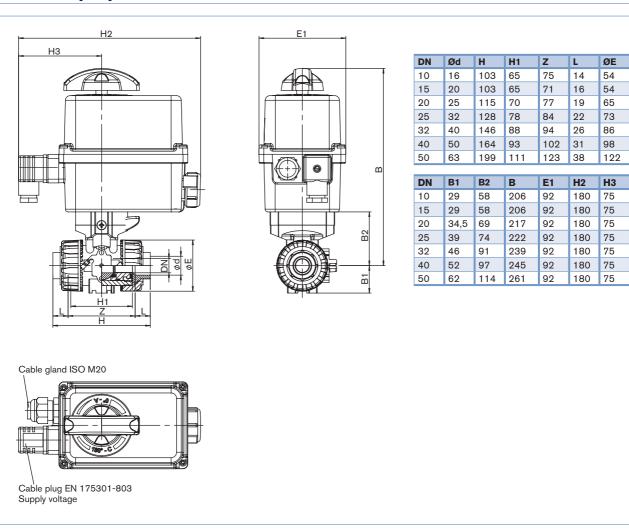


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#### **Pressure Temperature Chart**



### Dimensions [mm]





## Ordering chart (further versions on request)

Orifice (mm)	Port connection Ø (mm)	Kv-value water (m³/h)	Pressure range PVC-U, PVDF (bar)	Pressure range PP (bar)	Rotation time for 90° (s)	Actuator (Nm)	Voltage*	ltem no. True union PVC-U
Seal mater	rial PTFE/E	PDM						
10	16	4,8	0-16	0-10	12	20	100-240 V AC 50/60 Hz 100-350 V DC	226 440
15	20	12	0-16	0-10	12	20		226 453
20	25	23	0-16	0-10	12	20		226 454
25	32	46	0-16	0-10	12	20		226 455
32	40	66	0-16	0-10	12	20		226 456
40	50	105	0-16	0-10	12	20		226 457
50	63	204	0-10	0-10	12	20		226 178
10	16	4,8	0-16	0-10	12	20	15–30 V AC 50/60 Hz 12–48 V DC	226 459
15	20	12	0-16	0-10	12	20		226 460
20	25	23	0-16	0-10	12	20		226 461
25	32	46	0-16	0-10	12	20		226 462
32	40	66	0-16	0-10	12	20		226 463
40	50	105	0-16	0-10	12	20		226 464
50	63	204	0-10	0-10	12	20		226 465

 $<sup>^{\</sup>star}$  for 12 to 48V DC the operating voltage should not go below 11.5 V

# Further versions on request



Materials Body: PVDF, PVC-C, PP Seal materialFKM on request



#### Additional

Positioner card with normal input signal 4-20 mA or 0-10 V Feedback via Potentiometer or 4-20 mA analog signal Slow rotation version
3-position actuator (90° or 180°)
Fail safe version
3/2-way

#### **Accessories**

Descrip- tion	Item no.
Key for adjustment of limit switches	665 296

Spacer plate and thread insert for mounting on control panel or wall on request.

## 8804 plastic



# Ball valve and butterfly valve - Request for quotation

Please fill out and send to your nearest Bürkert facility\* with your inquiry or order

You can fill out the fields directly in the PDF file before printing out the form.

Note

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Company		Contact person		out th
Customer No		Department		
Address		Tel./Fax		
Postcode/Town		E-mail		
	Quantity		Red	quired delivery date
Operating data				
Pipeline D	N	PN		
Pipe material				
Process medium				
Type of media	Liquid	Steam Gas		
	Min	Standard	Max	Unit
Flow rate (Q, Q <sub>N</sub> , W) 1)				
Media temperature				
Operating pressure				
<sup>1)</sup> Standard unit Liquid Q = m³/h; Steam W = Kg/h; Gas QN = Nm³/h				
Valve features				
Туре	2/2-way ball valve	3/2-way ball valve	e 3/2-way ba T-Boring	Il valve Butterfly valve
Body material	Stainless <sup>4)</sup> P\	/C-C PVC-U	PP PVDF	other
Seal material	PTFE/EPDM <sup>2)</sup>	PTFE/FKM <sup>2)</sup> EPDN	1 <sup>(3)</sup> FKM <sup>3)</sup>	other
Nominal pressure	N			
Orifice D	N			
Type of connection	Flange	ue union Welded	Int. thread	Ext. thread Clamp
Standard connection			JIS	other Clamp
Pilot pressure		min.		max.
<sup>2)</sup> for plastic ball valve <sup>3)</sup> for butterflay valves	4) Stainless steel ball valve	e with PTFE seal material only	,	
Mode of actuation				
Manual				
Pneumatic				
Control function A: NC by sprin	a action			
	g action			
Double-acting				
Electric actuator				
Function On/Off function	Control actua	ator with analog signal	input	
Power supply 230 V AC	24 V AC	24 V DC	other	
To find your nearest Bürkert facility, click on the	ne orange box $ ightarrow$	www.burkert.com		
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In case of special application conditions, please consult for advice.

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