

2/2-Way, Stainless Steel, DN 15-50 mm, PN10



Advantages / Benefits

- ▶ Integrated, cascaded process controller with parameter definable PID-algorithm
- ▶ Automatic self-adjustment of basic parameters
- ▶ User-friendly operation - menu-guided
- ▶ Code-protection against unauthorized access
- ▶ Fluid is hermetically isolated from the actuator by diaphragm
- ▶ CE certified

Design

This continuous control system is a combination of a piston operated diaphragm valve with stainless steel body, a position sensor and an electro-pneumatic control system. The position sensor measures the actual regulating distance of the valve.

The micro-processor controlled electronics continuously compares this actual value to a controller output, pre-defined by the standard signal input. In case of a control difference, the electro-pneumatic control system corrects the control position. Due to the 4...20 mA standard transmitter input the positioner can also be used as a cascaded process controller for controlled variables such as flow, temperature, pressure, level etc. The diaphragm between the actuator and body of the valve hermetically isolates the fluid from the actuator.

- Programmable flow curves:
 - linear, equal percentage
 - freely programmable via restart points
- No control air consumption in stabilized condition
- Excellent flow characteristic combined with high flow rates

Applications

Fluids

Polluted, dirty, abrasive or high viscosity liquids up to 140 °C.

Applications

- Textile dyeing and bleaching
- Food processing
- Chemical process engineering
- Water treatment
- Medical technology (Sterilizers)
- Mechanical engineering

burkert
Easy Fluid Control Systems

Technical Data Positioner Type 1067

Electrical Data

Voltage supply:	24 V DC
Power consumption:	< 10 W
Signal input for positioner:	Unit signal: 4 ... 20 mA 0 ... 20 mA 0 ... 10 V
Binary input:	Configurable as normally open or closed contact.
Connection:	Clamping screw 1,5 mm Cable gland 2 x PG 9

Pneumatic Data

Instrument air:	Air, filtered compressed air, lubricated or non-lubricated
Pressure range:	0 ... 6 bar
Air performance	
Air inlet valve:	33 (66) NI/min ⁽¹⁾
Exhaust valve:	38 (76) NI/min ⁽¹⁾
	⁽¹⁾ In case of pressure drop from 6 to 5 bar. (Figures in brackets as option).
Internal air consumption in leveled status:	0 NI/min
Connection:	Internal screw thread G 1/8"

Installation and Operation Data

Overall dimensions of positioner	(B x H x T): 125 mm x 80 mm x 77 mm
Body material:	Aluminium, laquered
Fluid plate material:	Aluminium, anodized
Weight of positioner:	approx. 1 kg
Rating:	IP 65
Operating temperature:	0 ... 60 °C

Technical Data Control Valve 2031

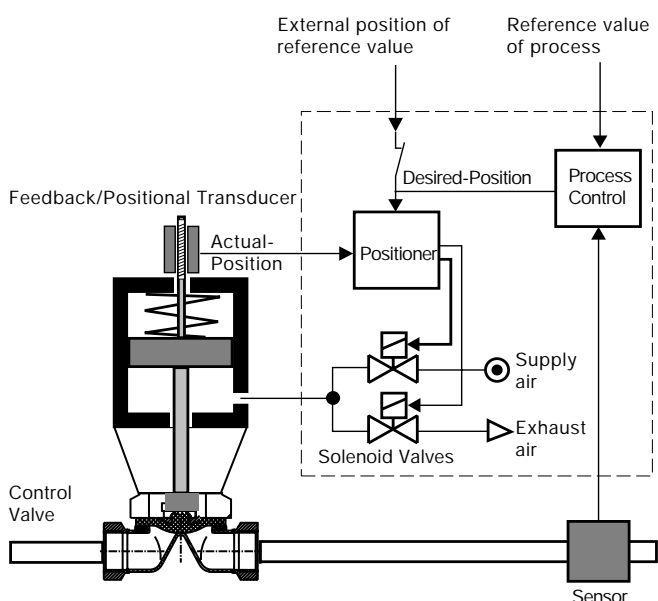
Valve

Size (DN):	15, 20, 25, 32, 40, 50
Rangeability:	Control range $\geq 50:1$
Flow features:	Modified equal percentage
Flow capacity:	see table page 4
Medium temperature:	-10°C...+140°C
Max. Operating pressure:	10 bar (at ambient temperature)

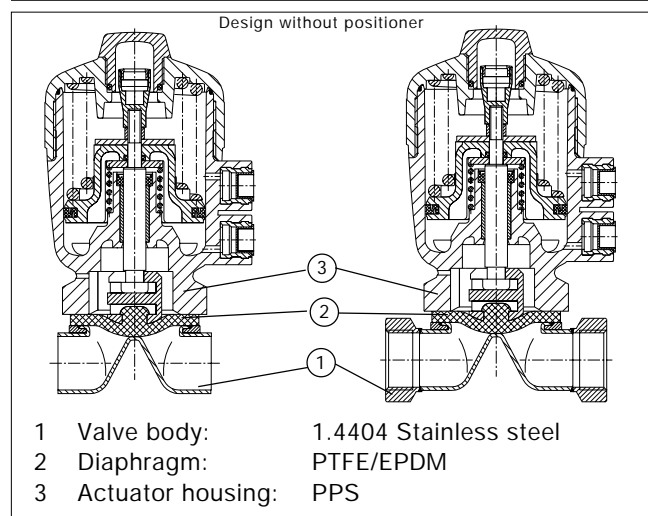
Actuator

Actuator size (\varnothing mm):	see table page 3
Signal (bar):	Air min. 5.5 bar, air max. 7 bar
Function:	Normally closed under spring force.

Functional Diagram



Material



Ordering Chart

Orifice DN [mm]	Actuator-size [mm]	Max. operating pressure [bar]	Seal (Diaphragm)	Weight [kg]	Item-No. for different connections			
					G-threaded port [inch]		Weld-ends [mm]	
					Item-No.		Item-No.	
15	63	10.0	EPDM	2.0	G 1/2	425 885 C	21.3 x 1.6	425 871 M
	63	10.0	PTFE/EPDM		G 1/2	425 886 D	21.3 x 1.6	425 872 N
20	80	10.0	EPDM	3.0	G 3/4	425 888 P	26.9 x 1.6	425 874 Q
	80	10.0	PTFE/EPDM		G 3/4	425 889 Q	26.9 x 1.6	425 875 R
25	80	10.0	EPDM	3.2	G 1	425 890 M	33.7 x 2.0	425 876 J
	80	8.0	PTFE/EPDM		G 1	425 891 A	33.7 x 2.0	425 877 K
32	100	10.0	EPDM	4.9	G 1 1/4	425 892 B	42.4 x 2.0	425 878 U
	100	8.0	PTFE/EPDM		G 1 1/4	425 893 C	42.4 x 2.0	425 879 V
40	125	10.0	EPDM	6.8	G 1 1/2	425 895 E	48.3 x 2.0	425 881 G
	125	10.0	PTFE/EPDM		G 1 1/2	425 896 F	48.3 x 2.0	425 882 H
50	125	8.0	EPDM	8.6	G 2	425 897 G	60.3 x 2.0	425 883 A
	125	7.0	PTFE/EPDM		G 2	425 898 R	60.3 x 2.0	425 884 B

Easy Pressure Control
Flow Control
Temperature Control

Easy to commission

Automatic self-adjustment of basic parameters by finger tip control

Easy to install

- Compact design
- Delivered pre-mounted, tested and ready to install
 - Requires less space than conventional control valves

Easy to operate

- User-friendly operation
- LCD and key pad
 - Menue guided access
 - Programmable characteristic curves

Easy to operate

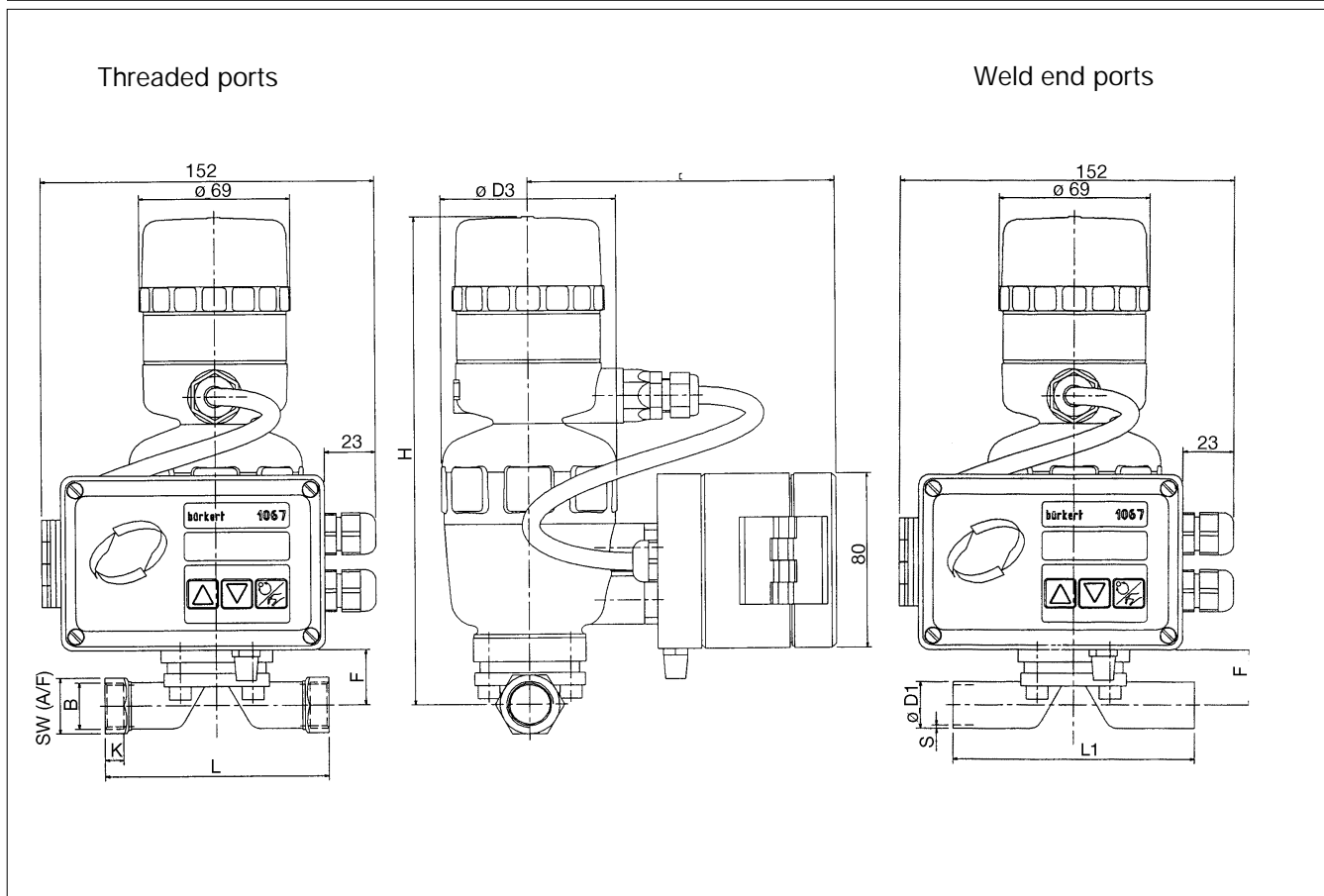


Burkert control valve with Burkert digital flow transmitter for continuous process control.

Specifications - Flow Capacity

Plug travel [%]	Kv-value [water m³/h]					
	DN15	DN20	DN25	DN32	DN40	DN50
0	0.00	0.00	0.00	0.00	0.00	0.00
10	0.05	0.08	0.28	0.40	0.60	1.50
20	0.20	0.70	1.20	1.60	3.10	5.30
30	0.50	2.10	2.50	4.20	7.10	8.40
40	1.10	4.30	5.40	8.80	13.60	18.30
50	1.80	6.10	8.60	13.20	18.30	30.10
60	2.80	8.10	12.60	17.70	26.10	42.70
70	3.80	10.10	15.70	22.40	35.10	58.30
80	4.70	12.10	18.80	28.20	40.80	67.60
90	5.20	13.40	21.70	32.00	42.70	72.80
100	5.40	13.50	22.00	33.00	43.00	74.00

Dimensions [mm]



Variable dimensions [mm]

DN	Actuator size	C	øD1	øD3	F	H	L	L1	S	SW	G-port connect.		Rc-port connect.	
											B	K	B	K
15	63	139	21.3	80	25.0	223	102	110	1.6	27	G 1/2	14	Rc 1/2	13.0
20	80	147	26.9	101	42.0	257	118	119	1.6	32	G 3/4	12	Rc 3/4	14.5
25	80	147	33.7	101	45.0	260	127	129	2.0	41	G 1	14	Rc 1	16.5
32	100	160	42.4	127	60.0	301	146	148	2.0	50	G 1 1/4	16	Rc 1 1/4	19.0
40	125	173	48.3	153	74.0	354	159	161	2.0	60	G 1 1/2	18	Rc 1 1/2	19.0
50	125	173	60.3	153	78.0	358	191	192	2.0	70	G 2	20	Rc 2	23.0