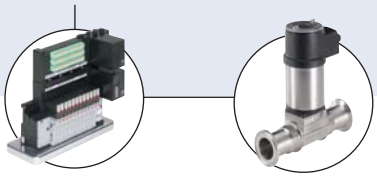
burkert
FLUID CONTROL SYSTEMS



2/2-way valve with PTFE bellows for fluid separation

- High Medium resistance
- Easy to clean for hygienic applications
- Long life
- Easy conversion of the actuator function, normally open/closed
- Compact
- With stainless steel actuator

Type 2080 can be combined with…



Type 8640
AirLINE Quick

Type 8036
Flow sensor

The valve consists of a pneumatically piston actuator with return spring, a stainless steel body and PTFE bellows. The PTFE bellows are used for the separation of the medium. With the appropriate installation (body to bottom) the valve is self-draining. The materials used and the internal contours are simple to clean (CIP and SIP). The valve is suitable for food technology. The modular structure permits configuration with different armatures and customized port connectors. The pneumatic actuator is servo assisted by a pilot valve, a valve block or similar.

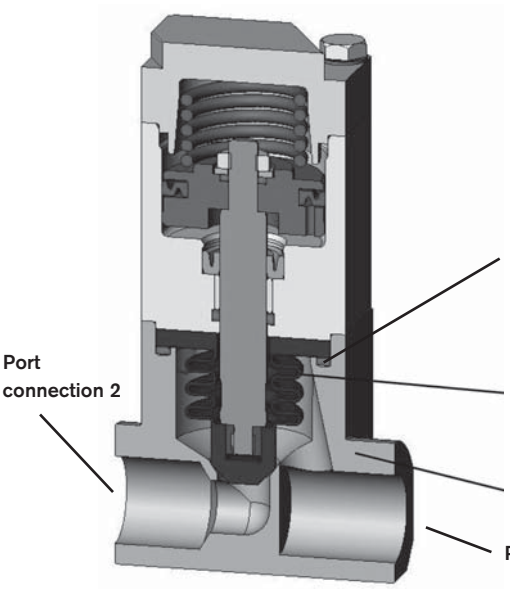
Technical data	
Orifice	DN 10, DN6 (flange), others on request
Actuator size	piston diam. 28mm
Medium	Neutral to aggressive gases and liquids
Medium pressure range **Medium temperature**	Vacuum up to 8 bar (see PT-Diagram)
Port connections	Threaded port G 3/8, weld end, flange connection
Pilot air connections	Threaded port G 1/8
Position detection	Reedcontact (two wire, closer), cable length: 3m
Installation	Upright assembly for self-draining (body to bottom)
Body material	Stainless steel 316Ti (1.4571), with flange 316L (1.4404)
Actuator material	Stainless steel 304L (1.4301)
Bellows material	*Advanced* PTFE
Wetted materials	Stainless steel 316Ti /316L, *advanced* PTFE
Back pressure	Tight to 8 bar
Ground leakage	5 Nml/min, measured with air 8 bar below seat
Pilot air pressure	4.5 to 10 bar
Pilot fluid	Neutral gases, air
Ambient temperature	Max. +90 °C
Surface finish	Surface finish Ra=0.8, others on request
Special features	- With self-draining operation - Suitable for CIP and SIP (cleaning in process) - Suitable for foodstuffs - FDA conform

Flow rate Kv value water [m³/h]	Measured at +20°C, 1 bar Pressure at valve inlet and free outlet
Pressure values [bar]	Overpressure with respect to atmospheric pressure
Flow direction (liquids)	below seat (pressure on port connection 2)

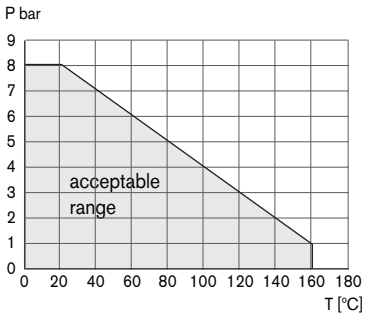
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Material

Standard version

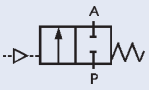


Pressure temperature characteristics



Ordering chart for valves (other versions on request)

All valves with pilot air ports G 1/8 and actuator body in stainless steel

Circuit function	Actuator version	Orifice [mm]	kv value [m3/h]	Medium connection	Item no.
A  2/2-way-valve, (NC), without pilot air closed by spring force	On-Off	10	1.14	Threaded port G 3/8	180 729
		10	1.14	Weld end acc. to BS 4825 (12.7 x 1.2)	179 582
		10	1.14	Weld end acc. to ISO 4200 (13.5 x 1.6)	186 407
		10	1.14	Weld end acc. to DIN 11850-2 (13 x 1.5)	186 409
		6	0.64	Flange port	182 863
		–		without body (only actuator)	180 555

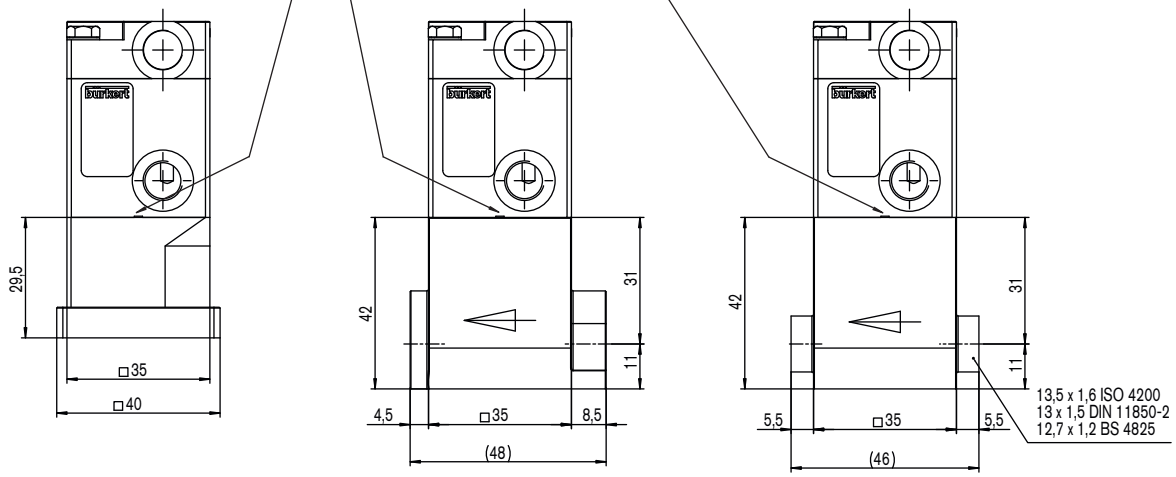
on request:

- normally open version (control function B, CF B)
- mechanical stroke limiter for safer flow adjustment (VAR CODE MJ33)
- 3-position actuator (VAR CODE MW14)

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Dimensions [mm]

Notch for monitoring of bellow leakage

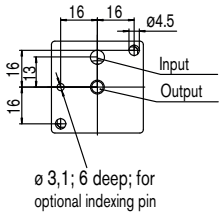


Flange connection
(Flange interface)

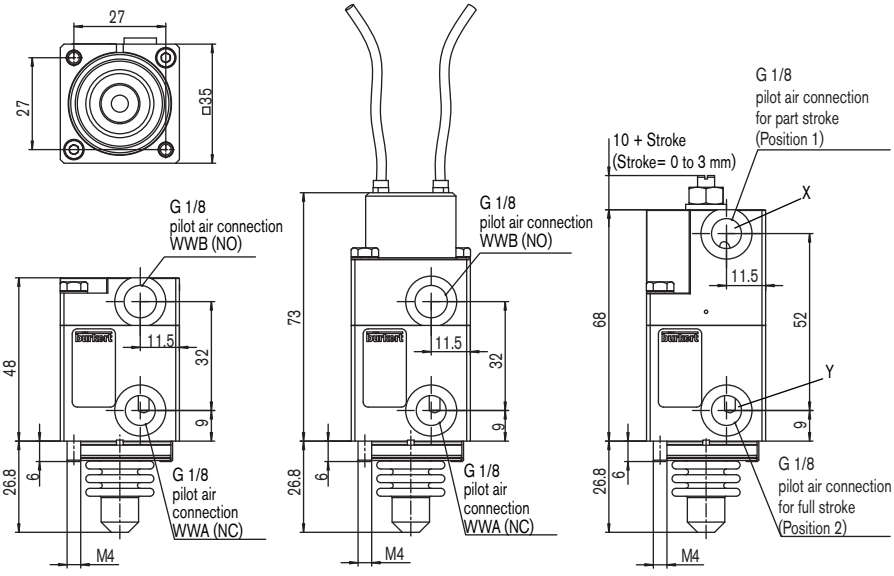
Threaded ports G 3/8

Weld end

Flange interface on valve



Actuator version on request



On-Off
Standard version
CF A (NC) and CF B (NO)

On-Off
with position detection
(NC) and (NO)

3 position actuator
(with adjustable
Intermediate position)
only (NC)

Function of valve with intermediate position
Closing; without pilot air, by spring force only
Part stroke (Position 1); pilot air simultaneously at X + Y
Full stroke (Position 2); pilot air at Y

Attention!
Valves with flow direction above the seat are usable for liquid mediums under specific conditons. Waterhammer may occur!

To find your nearest Bürkert facility, click on the orange box → www.burkert.com

In case of special application conditions, please consult for advice.

Subject to alterations
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