



2/2-way Whisper Valve with media separation

- Optimal flushability with minimal internal volume
- High dosing accuracy for the minutest of volumes; reproducible and efficient
- Maximum chemical resistance
- Compact design with a width of 7 mm, ideal for space-critical applications
- Vacuum-compatible valve design for demanding processes

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

	Type 8763 Pressure controller for precise time-pressure dosing	▶
	Type 2503 Cable plug for whisper valve Types 6712 and 6724	▶
	Type 5120 Dosing head and electronics for precise time-pressure dosing	▶
	Type 8084 Differential pressure flow sensor for liquids	▶

Type description

Whether point-of-care or point-of-use, both mobile and stationary applications place particular demands on the components that are used in them. The requisite characteristics include robustness, fast switching times, high reproducibility, low power consumption and minimal heat input. Many applications – such as PCR analysis, use on pipetting arms in bioanalytics, oligo synthesis or the packaging of sensitive products – present technological challenges. The Type 6732 solenoid valve was developed with these demands in mind. It also performs exceptionally well in both life-science applications and industrial processes. The innovative actuator offers a range of advantages – including high dynamics and therefore significantly improved repeatability compared with conventional actuators. In addition, the valve enables real-time diagnostics thanks to Bürkert's "ValveInsight", providing valuable information on the current state of the process. Because it is available in such a wide range of materials, the media-separated valve is compatible with almost all liquids and gases. Type 6732 combines dosing accuracy, excellent flushability and a low internal volume in a compact, versatile valve – setting new standards in valve technology.

Table of contents

1. General technical data	3
2. Circuit functions	4
3. Approvals and conformities	4
3.1. General notes	4
3.2. Conformity	4
3.3. Standards	4
3.4. Foods and beverages/Hygiene	4
4. Materials	5
4.1. Bürkert resistApp	5
4.2. Material specifications	5
5. Dimensions	6
5.1. Valve with plug	6
5.2. Manifolds	7
6. Ordering information	8
6.1. Bürkert eShop	8
6.2. Bürkert product filter	8
6.3. Ordering chart	8
6.4. Ordering chart accessories	9
Manifolds	9
Cable plug Type 2503	9
Fittings and hoses	9

1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 6.
Material	
Seal	FFKM, EPDM
Fluidic housing	PEEK, PPS
Internal volume	Fluid chamber: approx. 1.2 µl Total (including connections): approx. 6.5 µl
Orifice	DN 0.8
Circuit function	A Further information can be found in chapter "2. Circuit functions" on page 4.
Typical product service life ¹⁾	30 million switching cycles (according to laboratory endurance test)
Performance data	
Pressure ranges	Vac...3 bar (Vac = technical vacuum, -0.8 bar relative) ²⁾
Pressure at the outlet (back pressure)	0...1.2 bar
Duty cycle	100 % continuous operation
Switching noise	<36 dB (A) ³⁾
Switching time ⁴⁾	Opening: approx. 1.9 ms (pressure build-up 0...10 %) Closing: approx. 3 ms (pressure release 100...90 %)
Electrical data	
Operating voltage	12 V DC, 24 V DC
Nominal power	0.8 W ⁵⁾
Voltage tolerance	± 5 % (including residual ripple)
Medium data	
Operating medium	Resistant to neutral and aggressive gases and liquids. Further information can be found in chapter "4.1. Bürkert resistApp" on page 5.
Medium temperature	
FFKM	+ 15 °C...+ 55 °C ⁶⁾
EPDM	0 °C...+ 55 °C ⁶⁾
Viscosity	Max. 21 mm ² /s
Product connections	
Electrical connection	Cable plug Type 2503 ▶ with grid dimension 2 mm ⁷⁾ Further information can be found in chapter "Cable plug Type 2503" on page 9.
Port connection	Bürkert sub-base (7 × 18.2 mm)
Approvals and conformities	
Degree of protection	IP10 with cable plug Type 2503 ▶
Foods and beverages/Hygiene	FDA (on request only with seal material EPDM) USP (only with EPDM, in preparation) Further information can be found in chapter "3.4. Foods and beverages/Hygiene" on page 4.
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	
FFKM	+ 15 °C...+ 55 °C ⁶⁾
EPDM	0 °C...+ 55 °C ⁶⁾

1.) Service life depends on the type of medium, temperature, pressure, seal material and specific operational conditions. The use of a freewheeling diode is recommended to extend the service life.

2.) With an FFKM seal, further flow restrictions may occur at vacuum levels below -0.4 bar (rel.), especially under high temperature conditions and at low flow rates.

3.) Measured in sound measurement chamber according to ISO3745 accuracy class 1. The value may differ under other conditions.

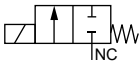
4.) Typical switching time measured between valve outlet and a flow resistance according to DIN ISO 12238:2001 at + 25 °C. The switching time depends on temperature, pressure and seal material.

5.) No further power reduction possible

6.) Condensation must be prevented as it may lead to malfunction

7.) The cable plug with flying leads must be ordered separately (see **"Cable plug Type 2503"** on page 9). For other suitable push-in connectors see data sheet **Type 2503** ▶.

2. Circuit functions

Symbol	Description
	Circuit function A (CF A) 2/2-way solenoid valve Direct-acting Normally closed

3. Approvals and conformities

3.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

3.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

3.3. Standards

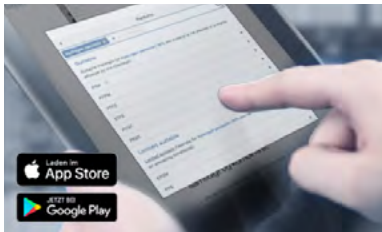
The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3.4. Foods and beverages/Hygiene

Conformity	Description
FDA	FDA – Code of Federal Regulations (valid for the variable code PL02, PL03) All wetted materials are compliant with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA) according to the manufacturer's declaration.
USP	United States Pharmacopeial Convention (USP) (valid for the variable code PL04) (in Vorbereitung) All wetted materials are biocompatible according to the manufacturer's declaration.

4. Materials

4.1. Bürkert resistApp

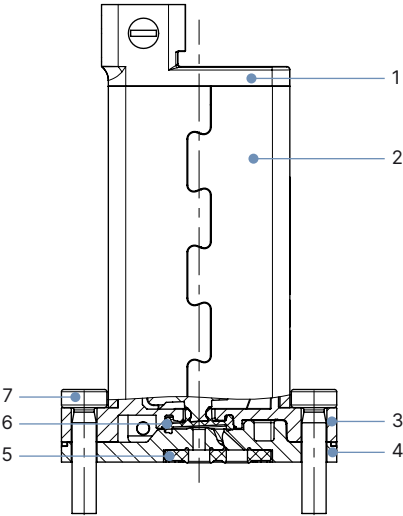


Bürkert resistApp – Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start chemical resistance check](#)

4.2. Material specifications



No.	Element	Material
1	Cover	LCP
2	Coil housing	Nickel-plated
3	Valve housing	LCP
4	Fluidic housing ^{1.)}	PEEK or PPS
5	Sub-base seal ^{1.)}	FFKM or EPDM
6	Diaphragm ^{1.)}	FFKM or EPDM
7	Torx plus IP6 screw	Stainless steel

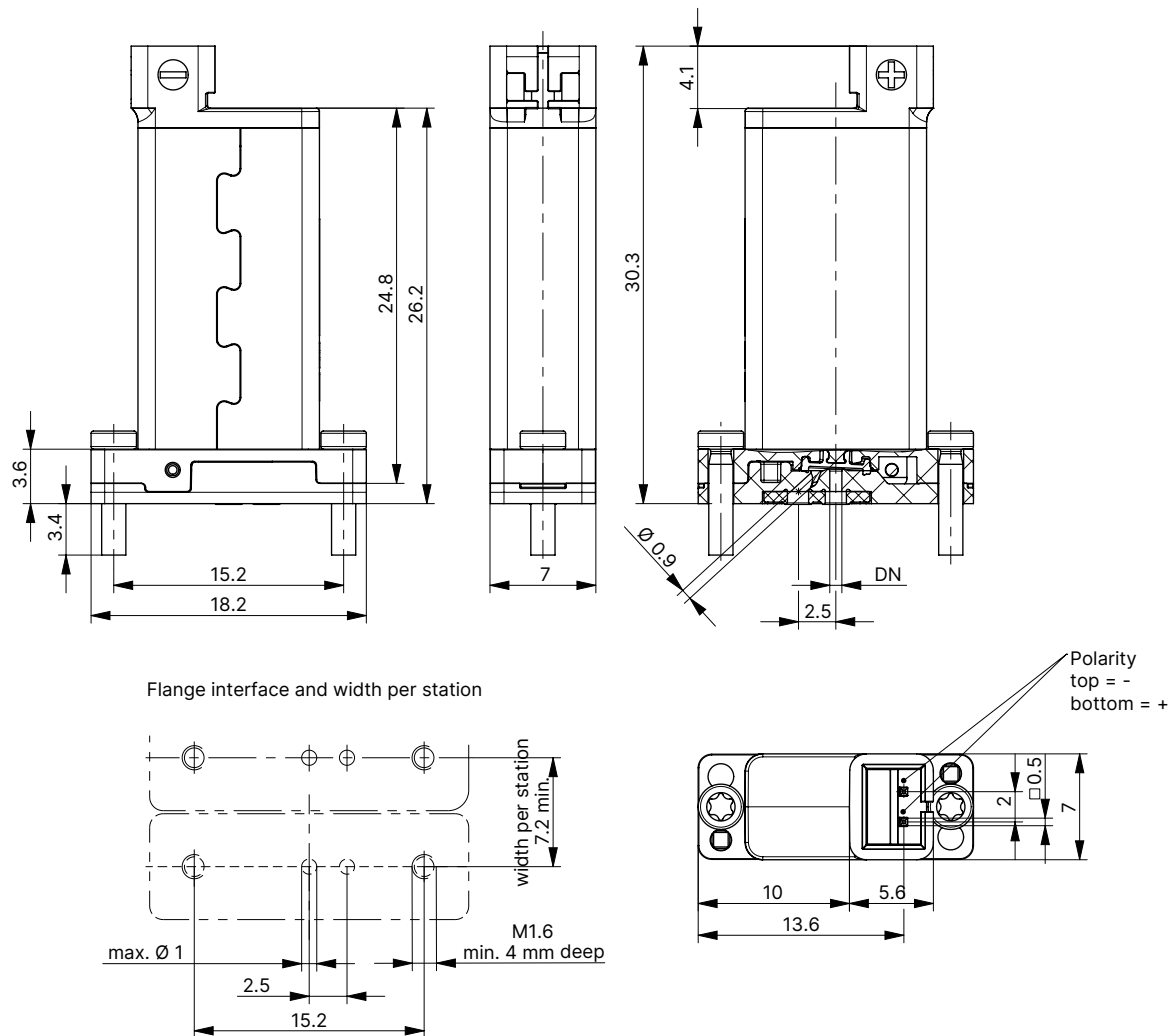
1.) Wetted

5. Dimensions

5.1. Valve with plug

Note:

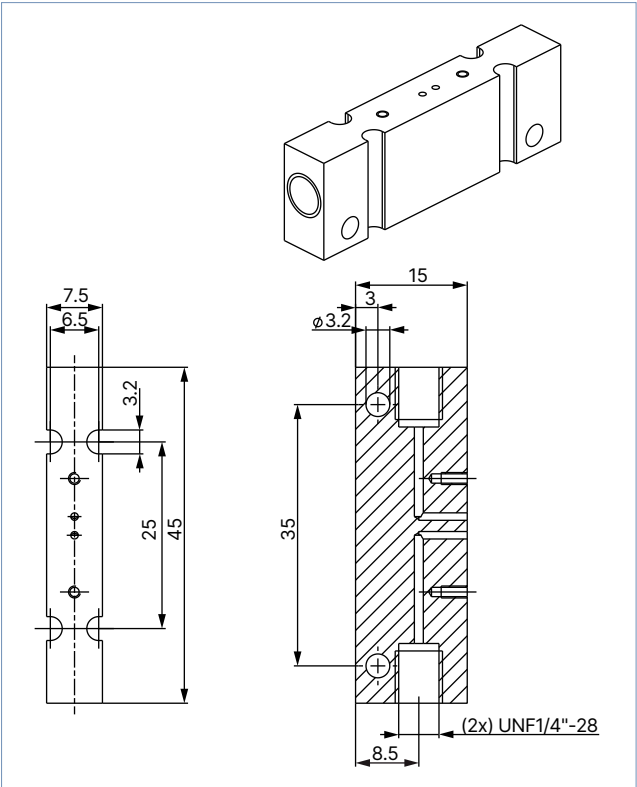
Dimensions in mm



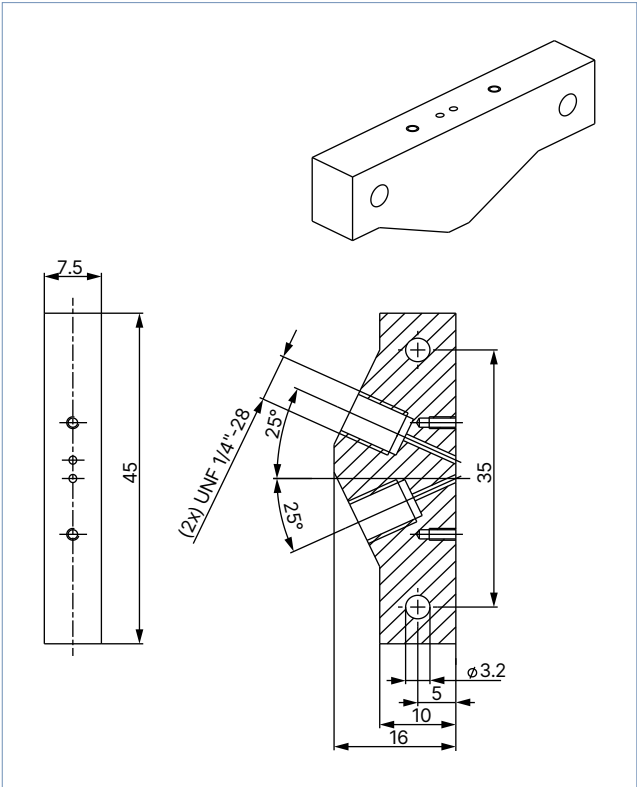
5.2. Manifolds

Note:

- Dimensions in mm
- 1-fold manifold with UNF 1/4"-28 working ports
- Delivery without valve
- Customised manifolds are available on request.



Description	Article no.
Manifold UNF 1/4"- 28 PEEK	694895



Description	Article no.
Manifold UNF 1/4"- 28 PEEK (low internal volume)	695956

6. Ordering information

6.1. Bürkert eShop



Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

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6.2. Bürkert product filter



Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

[Try out our product filter](#)

6.3. Ordering chart

Note:

- Push-in connectors with stranded wire or electronics Type 2503 are not included in the scope of delivery and must be ordered separately (see **"6.4. Ordering chart accessories"** on page 9).
- Fastening screws for port connection flange: 2 Torx Plus IP6 stainless steel screws, M1.6 × 7

Circuit function	Port connection	Orifice	Q _{Nn} value air ^{1.)}	K _v value water ^{2.)}	C _v value water	Voltage/ Frequency	Pres- sure range	Max. back pressure at the outlet	Body material	Seal material	Electrical connection	Article no.
		[mm]	[l/min]	[m³/h]	[gpm]	[V/Hz]	[bar]	[bar]				
CF A 2/2-way solenoid valve Direct-acting Normally closed 	Bürkert flange	0.8	13.1	0.012	0.014	12 V DC	Vac...3 ^{3.)}	1.2	PEEK	FFKM	Plug	20124367 
						PEEK	EPDM	20124368 				
						PPS	EPDM	20124369 				
						24 V DC	Vac...3 ^{3.)}	1.2	PEEK	FFKM		20124364 
						PEEK	EPDM	20124365 				
						PPS	EPDM	20124366 				

1.) Measurement at + 20 °C, 1 bar at the valve inlet and 1 bar differential pressure

2.) Measurement at + 20 °C, 1 bar at the valve inlet and free outlet

3.) Vac = technical vacuum, - 0.8 bar relative. With an FFKM seal, further flow restrictions may occur at vacuum levels below -0.4 bar (rel.), especially under high temperature conditions and at low flow rates.

6.4. Ordering chart accessories

Manifolds

Note:

Refer to chapter **"5.2. Manifolds"** on [page 7](#) for more order information.

Cable plug Type 2503

Accessories	Description	Article no.
	Cable plug with 500 mm flying leads AWG 24 For further information please refer to data sheet Type 2503 ▶.	689974 

Fittings and hoses

Accessories	Description	Article no.
	Fittings and hoses for UNF connections and hoses see type Type TVU003 ▶.	see data sheet TVU003 ▶