



2/2 or 3/2-way Whisper Valve with media separation

- Very fast switching at a low noise level <45 dB(A)
- High pressure range up to 16 bar with nominal diameter DN 1.4 mm
- Highest chemical resistance
- Compact design with 18 mm installation width
- High back pressure tightness

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

Can be combined with



Type 2505

10 mm socket for Bürkert small solenoid valves

Type description

The combination of maximum flow and minimum valve size is becoming increasingly important in various medical and IVD related applications. Combined with high chemical resistance, this explains the broad range of applications for Type 6757. However, in addition to the flow, this valve is also able to switch pressures of up to 16 bar. This is a highlight of particular relevance for applications in the area of environmental analysis. The devices from the areas mentioned, including the valves, need to be flushed, cleaned, disinfected and sometimes even sterilised. Therefore, they need to withstand flushing cycles with high temperatures and/or high pressure, which is precisely what the Type 6757 was designed for. The product is thus ideally suitable for applications such as endoscope cleaning or dialysis, but also for use in environmental analysers. Fast switching times, as implemented here, guarantee high process safety because reliable switching behaviour is an important aspect for accurate dosing and reproducible processes.

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1. General technical data

1.1. General data

Product properties	
Dimensions	Detailed information can be found in chapter "4. Dimensions" on page 6.
Material	
Seal	FFKM, (EPDM and FKM on request)
Fluid housing	PEEK, (PPS on request)
Orifice and pressure range¹⁾	
DN 1.4	
Circuit function A	Vacuum up to 16 bar
Circuit function T	Vacuum up to 10 bar
DN 4	
Circuit function A	Vacuum up to 3 bar
Circuit function T	Vacuum up to 1.5 bar
Internal volume	Fluid chamber 467 µl / Total (incl. connections) 1255 µl
Typical product service life	10 million switching cycles (according to laboratory endurance test ²⁾)
Performance data	
Duty cycle⁴⁾	
Single assembly	100 % continuous operation
Block assembly	70 % continuous operation (max. 10 min. duty cycle) Detailed information can be found in the operating instructions Type 6757 ▶.
Switching noise	45 dB (A) ³⁾
Switching time	Opening: ca. 7 ms (Pressure build-up 0...10%) Closing: ca. 7 ms (Pressure reduction 100...90%) (Measurement at the valve outlet at 20 °C acc. to DIN ISO 12238:2001)
Electrical data	
Operating voltage	24 V DC (12 V on request)
Nominal power	4.5 W ⁵⁾
Voltage tolerance	± 5 % (incl. residual ripple)
Medium data	
Medium temperature	FFKM: + 15...+ 50 °C FKM: 0...+ 50 °C EPDM: 0...+ 50 °C 90 °C permissible for cleaning cycles (max. 30 minutes) ^{4) 6)}
Viscosity (max.)	21 mm ² /s
Process/Port connection & communication	
Electrical connection	Rectangular plug Type 2505 Detailed information can be found in the data sheet Type 2505 ▶.
Port connection	Flange (other port connections on request)
Approvals and certificates	
Suitable for food industry	FDA – on request
Degree of protection	IP30 acc. to EN 60529
Suitable for drinking water	KTW (W270) – on request
Environment and installation	
Installation position	Any, preferably actuator upwards
Ambient temperature	FFKM: + 15...+ 50 °C FKM: 0...+ 50 °C EPDM: 0...+ 50 °C

1.) Orifices 2 and 3 mm will be available soon.

2.) The service life depends on the medium, temperature, pressure, sealing material and individual operating conditions.

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

4.) Max. housing temperature must not exceed 110 °C. In continuous operation care must be taken to ensure sufficient heat dissipation (convection) at the metal surface of the valve. Overheating of the valve can lead to damage.

5.) No further power reduction possible.

6.) The valve must not be switched during the cleaning cycles.

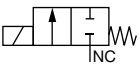
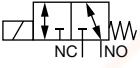
1.2. Flow characteristics

Circuit function	DN	K_v value water				
		NC → Out	NC → COM	NO → COM	COM → NC	COM → NO
		[m ³ /h]	[m ³ /h]	[m ³ /h]	[m ³ /h]	[m ³ /h]
A	1.4	0.055	–	–	–	–
	4	0.37	–	–	–	–
T	1.4	–	0.055	0.055	0.06	0.06
	4	–	0.36	0.36	0.425	0.425

Circuit function	DN	C_v value water				
		NC → Out	NC → COM	NO → COM	COM → NC	COM → NO
		[gpm]	[gpm]	[gpm]	[gpm]	[gpm]
A	1.4	0.064	–	–	–	–
	4	0.428	–	–	–	–
T	1.4	–	0.064	0.064	0.069	0.069
	4	–	0.416	0.416	0.491	0.491

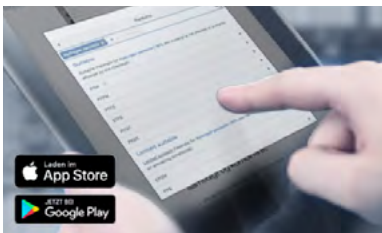
Circuit function	DN	Q_{Nn} value air				
		NC → Out	NC → COM	NO → COM	COM → NC	COM → NO
		[l/min]	[l/min]	[l/min]	[l/min]	[l/min]
A	1.4	60	–	–	–	–
	4	400	–	–	–	–
T	1.4	–	60	60	65	65
	4	–	390	390	440	440

2. Circuit functions

Circuit functions	Description
	Type A, solenoid valve 2/2 way Direct-acting Normally closed
	Type T, solenoid valve 3/2 way Direct-acting Flow direction optional Universal

3. Materials

3.1. Chemical Resistance Chart – Bürkert resistApp

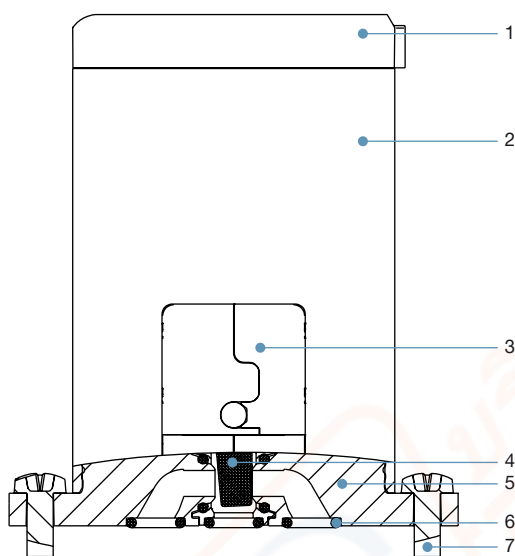


Bürkert resistApp – Chemical Resistance Chart

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](#)

3.2. Material specifications



No.	Element	Material
1	Cover	PA
2	Coil housing	Nickel-plated
3	Valve housing	PPS
4	Diaphragm	FFKM (FKM and EPDM on request)
5	Fluid housing	PEEK (PPS on request)
6	Flange seal	FFKM (FKM and EPDM on request)
7	Oval head screw	Stainless steel

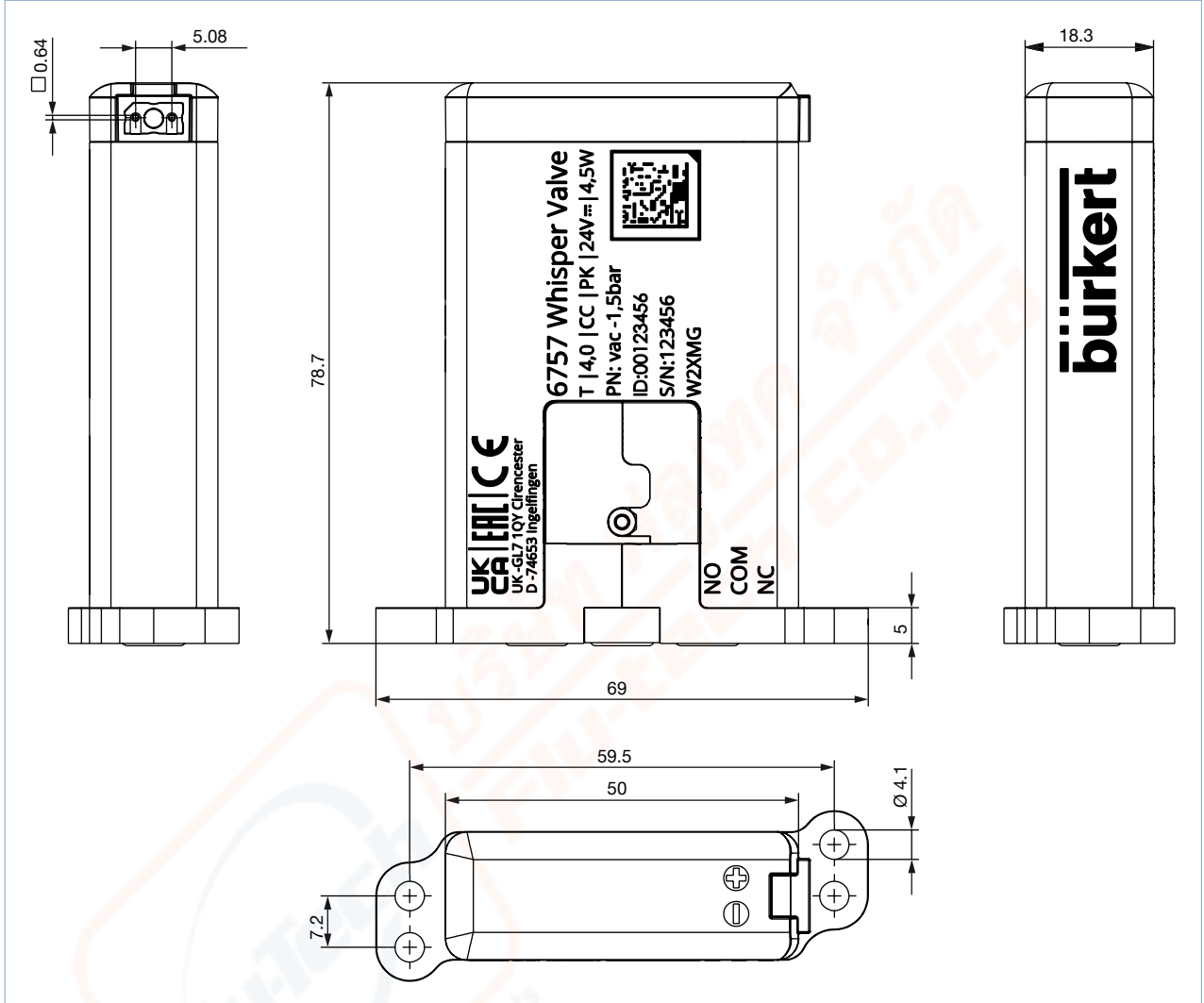
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4. Dimensions

4.1. Flange version

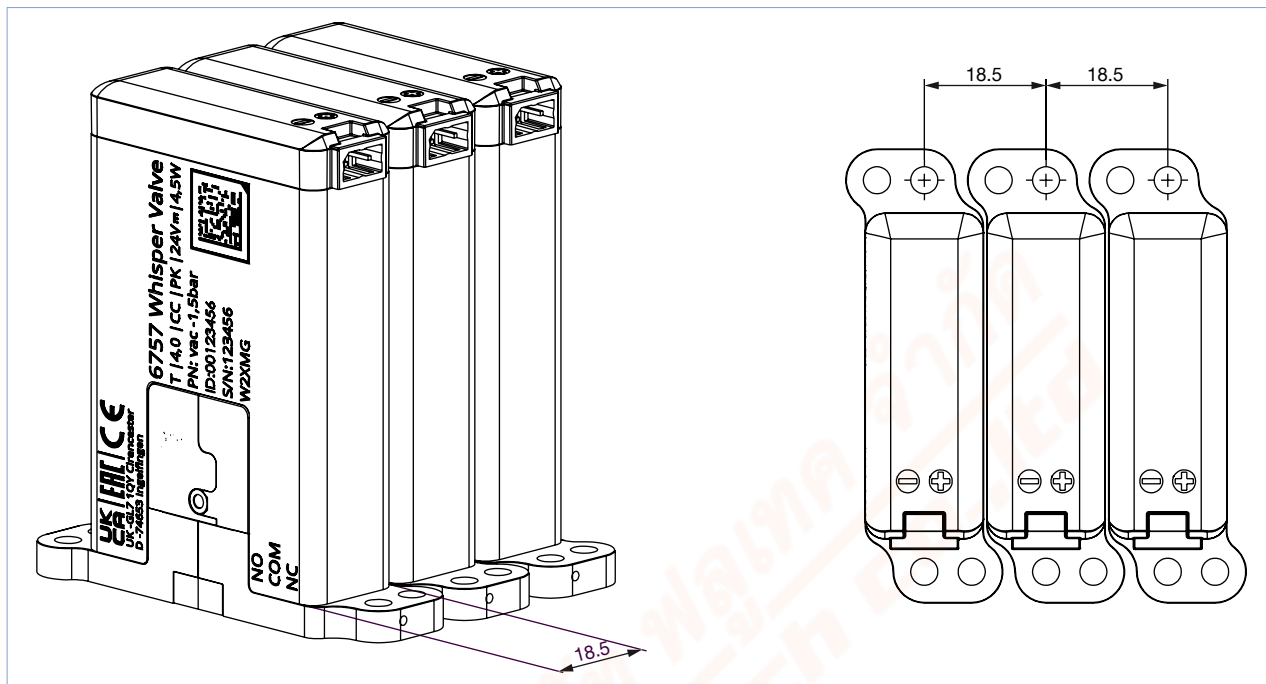
Note:

Dimensions in mm



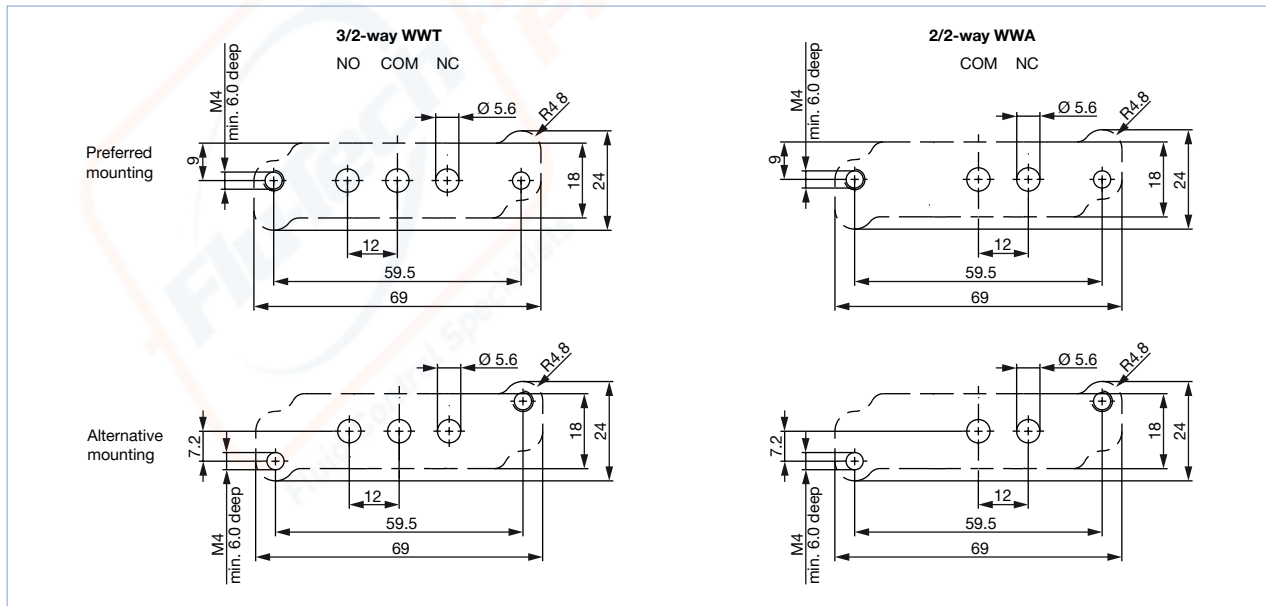
4.2. Width per station

Note:
Dimensions in mm



4.3. Flange pattern

Note:
Dimensions in mm



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5. Ordering information

5.1. Bürkert eShop – Easy ordering and quick delivery



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.

[Order online now](#)

5.2. Bürkert product filter



Bürkert product filter – Get quickly to the right product

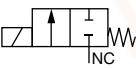
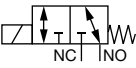
You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

[Try out our product filter](#)

5.3. Ordering chart

Note:

- Further versions on request
- 2x M4 x 10 fixing screws for sub-base versions are included in the delivery.
- Connectors for rectangular plug are not included in the delivery and must be ordered separately, see “5.4. Ordering chart accessories” on page 9.

Circuit function	Port connection	Orifice	Q _{Nn} value	K _v value	Voltage/ Frequency	Pressure range	Max. pressure difference	Body material	Seal material	Article no.
		[mm]	[l/min]	[m ³ /h] ¹⁾	[V/Hz]	[bar] ^{2) 3)}	[bar]			
A, solenoid valve 2/2 way Direct-acting Normally open 	Flange	1.4	60	0.055	024/DC	Vac...16	16	PEEK	FFKM	324226
	Flange	4	400	0.37	024/DC	Vac...3	3	PEEK	FFKM	324233
T, solenoid valve 3/2 way Direct-acting Flow direction optional Universal 	Flange	1.4	60	0.055	024/DC	Vac...10	10	PEEK	FFKM	324232
	Flange	4	390	0.36	024/DC	Vac...1.5	1.5	PEEK	FFKM	324235

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

2.) Overpressure to atmospheric pressure

3.) The water hammer with incompressible media must not exceed the max. permissible differential pressure.

[Visit product website](#) ▶

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5.4. Ordering chart accessories

Rectangular cable plug Type 2505

Note:

For further versions see data sheet **Type 2505** ▶.

Accessories	Description	Article no.
	Rectangular cable plug Type 2505 with 3 m cable	252572
	Rectangular cable plug Type 2505 with 5 m cable	255194
	Rectangular cable plug Type 2505 with 300 mm flying leads	644068
	Rectangular cable plug Type 2505 with 600 mm flying leads	162144

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