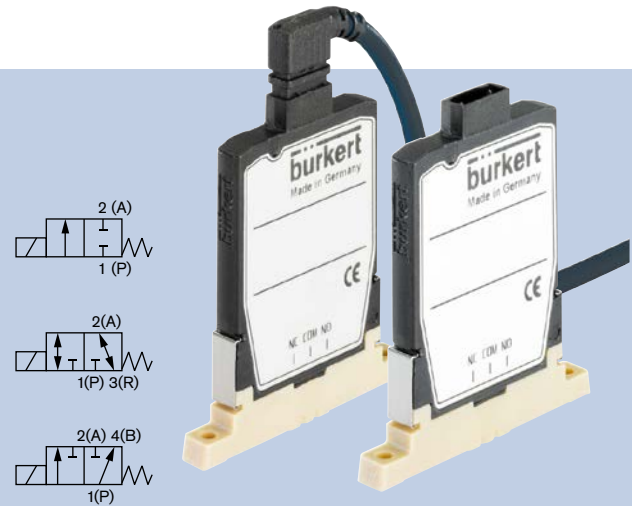


2/2 and 3/2-way flipper solenoid valve for analytical applications

- Only 4.5 mm wide
- Medium isolation, for aggressive fluids
- Direct-acting
- Short response times

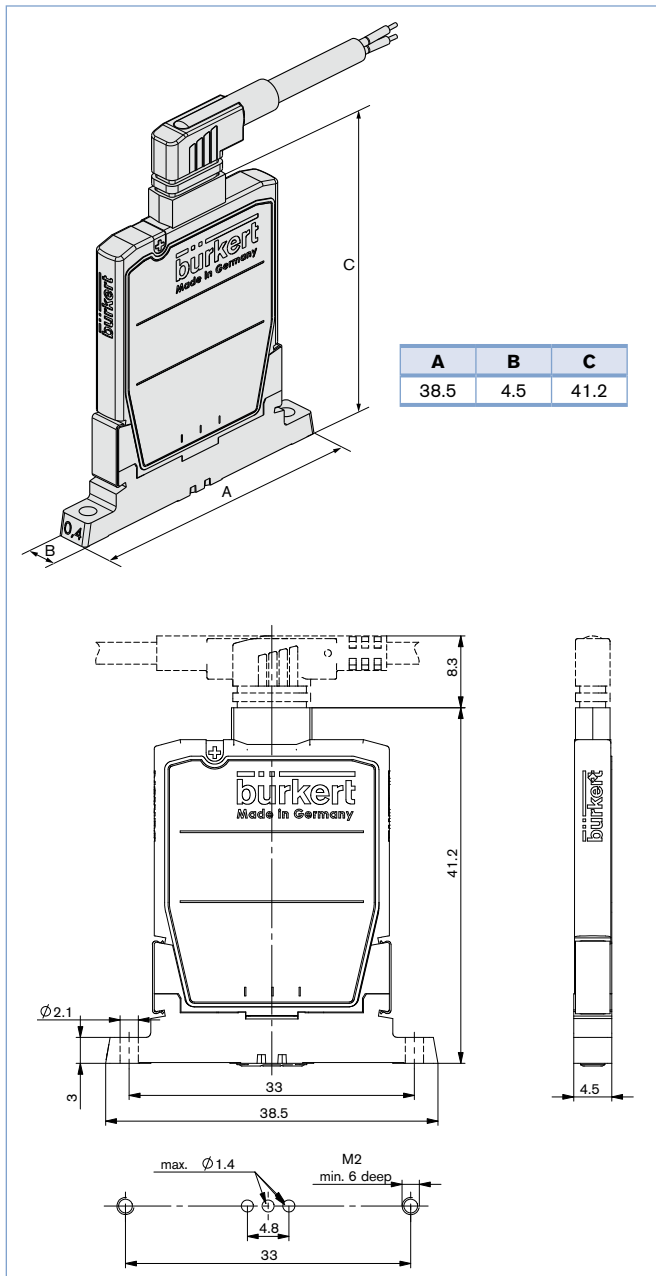


With a width of only 4.5 mm, Type 6650 sets a new standard in medium isolation miniature solenoid valves. The optimized design enables reproducible and precise dosing, good rinsing capability and is suitable for the application of aggressive chemicals owing to the high quality of the materials used. With the two nominal sizes of 0.4 and 0.8 mm, as well as the selection between 2/2-way and 3/2-way function, it is ideal for applications where the highest fluid performances are required in the smallest space. Type 6650 opens up new possibilities, owing to the 4.5 mm station width, in particular in connection with dosing in 384-well microtiter plates.

Technical Data

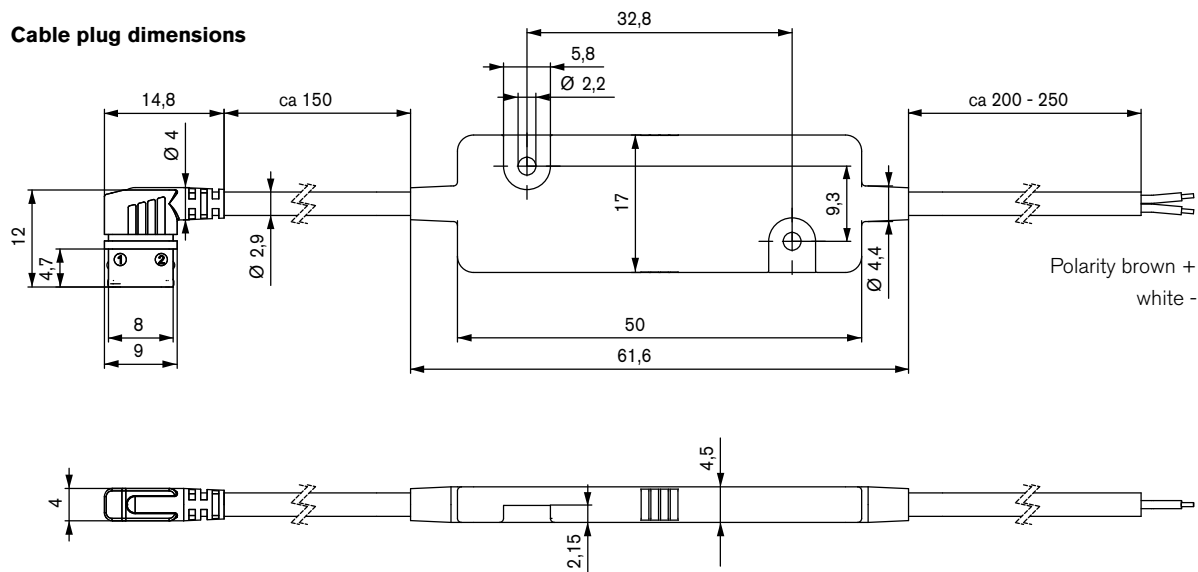
Orifice	DN0.4 and 0.8 mm
Body material	PEEK
Seal material	FFKM (Simriz)
Medium	Resistant to neutral and aggressive fluids and gases; see Bürkert resistance table
Medium temperature	+15 °C to +50 °C
Ambient temperature	+10 °C to +50 °C
Internal volume	approx. 30 µl
Port connection	Flange
Electrical connection	Plug Bürkert Type 2504 (not included)
Operating voltages	24V (12V on request)
Voltage tolerance	±10%
Nominal power	5.7 W For 100% duty cycle power has to be reduced externally.
Duty cycle	100% continuous operation only with external power reduction
Installation	As required; with side by side connection standard polarity is adhered to
Protection class	IP65
Switching frequency	80Hz (for mechanical limit observe maximum temperature) 15Hz (continuous with external power reduction, for more information see manual)
Response times	<5 ms (acc. to ISO 12238)

Envelope Dimensions [mm] (see datasheet for details)

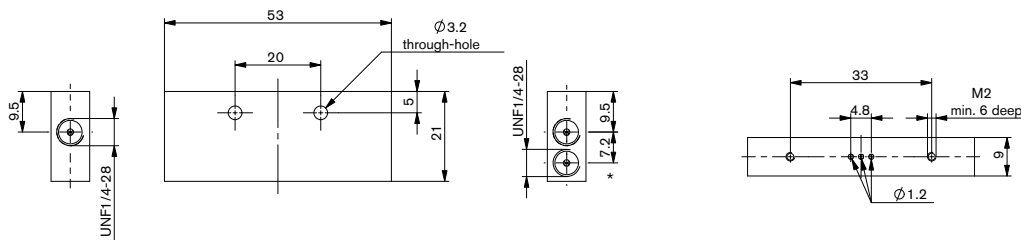


Envelope Dimensions [mm] (see datasheet for details)

Cable plug dimensions



Single manifold for Bürkert flange



* Pay attention to the screw connections for 3-way products. The lower connection is not needed for 2-way products.

Ordering Chart

Circuit function	Orifice [mm]	Kv value water [m/h] ¹⁾	Pressure range [bar] ²⁾	Max. pressure difference [bar]	Voltage [V]	Nominal power [W] (Inrush-/nominal holding power)	Item no.
A 2/2-way valve normally closed	0.4 ³⁾	0.004	Vac.-7	7	24	5.7 / 0.7	182 284
	0.8 ⁴⁾	0.01	Vac.-3	3	24	5.7 / 0.7	226 664
T 3/2-way valve universal version	0.8	0.01	Vac.-1	1	24	5.7 / 0.7	189 292
F 3/2-way valve distributor valve	0.8	0.01	Vac.-3	3	24	5.7 / 0.7	227 020

¹⁾ Measured at +20 °C, 1 bar pressure at valve inlet and free outlet

²⁾ Measured as overpressure to the atmospheric pressure

³⁾ With orifice 0.4 mm flow permitted in both directions

⁴⁾ With orifice 0.8 mm flow direction according to label

Accessories

Description	Item no.
Cable plug type 2504 with integrated hit and hold electronic, 024V/DC, 500 mm long, Power reduction to 0.7 W after 5 ms	670 178
Cable plug type 2504, single cable, 500 mm long ¹⁾	670 164
Cable plug type 2504, single cable, 5000 mm long ¹⁾	680 840
Single manifold material Peek	670 181

¹⁾ The valve must be operated with external power reduction. Please refer to the manual for further details.