

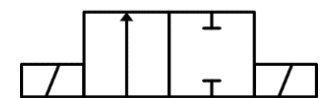
BV1101 2/2-way Bistable Valve



The memetis ultracompact 2/2-way media separated bistable valve enables complex fluidic systems with extremely low power consumption. The valve is a perfect fit for fluidics in Life Sciences and other small but complex fluidic applications.

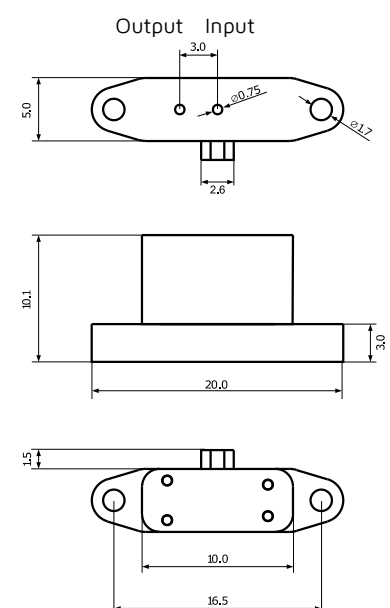
Specifications

Parameter	Value
Functionality	2/2-way seat valve, bistable, media separated
Media	Liquids, gases
Dimensions	20 x 5 x 10.1 mm ³
Internal volume	< 4 µl
Nominal width DN	0.75 mm
Max. pressure @input	1.0 bar*
Max. back-pressure @output	0.75 bar
Switching time: open / close	0.04 s / 0.13 s @ 1 bar
Typical flow rates (@ Δp 1 bar)	4500 ml/min (air) 135 ml/min (water)
K _v value	> 0.01 m ³ /h
Temperature range	10 – 50 °C *
Housing material	PEEK *
Sealing material	Silicone *
Fluidic connection	Flange / M1.6 screws
Energy per switching	75 mJ
Nominal current	0.5 A for 0.3 s
Electrical connections	Soldering pads / cable

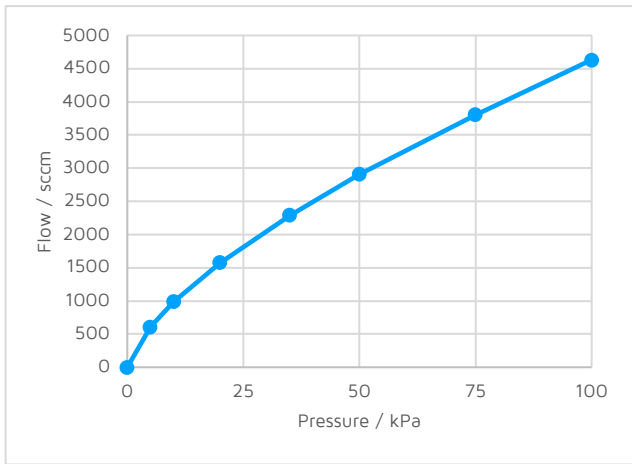


bistable valve

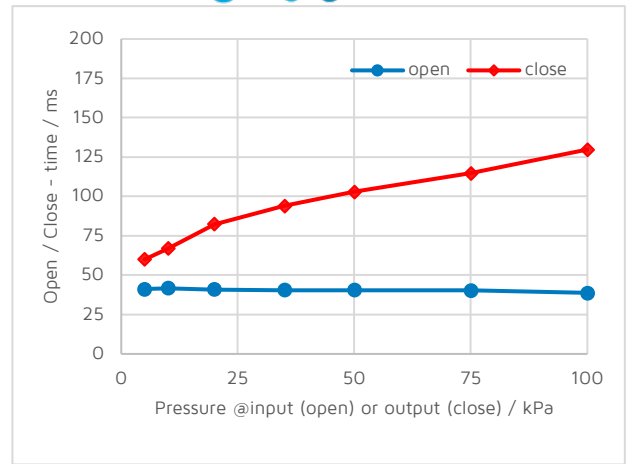
Drawings



* contact us if you require: higher max. pressure, lower temperatures, other materials



Graph 1: Flow rate of a memetis 2/2-way bistable valve for pressures of 0.05 bar up to 2.5 bar (input pressure) for air at room temperature with open outlet.

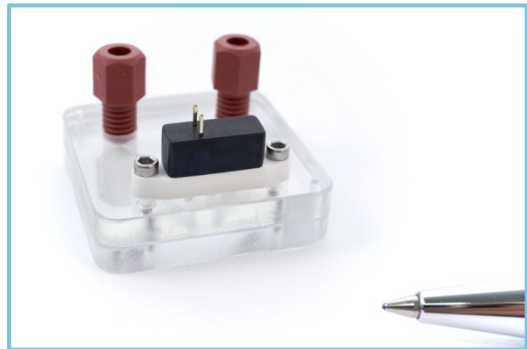


Graph 2: Opening and closing time of a memetis 2/2-way bistable valve for pressures of 0.05 bar up to 2 bar (input pressure) for air at room temperature.

Complementary memetis products



The **electronic control unit (ECU-P2)** has a **micro-USB** port, **I/O Channels** and an **I2C interface** for custom programming to control the memetis bistable valve.



With the **fluidic adapter**, tubes can easily be connected to the memetis valves. memetis offer different kinds of fittings and adapter material.



memetis offers customer-specific **smart valve manifolds** to enable easy operation of complex fluidic systems.



The memetis ultracompact **2/2-way** media separated **normally-closed valve** from the Series09 enables complex fluidic systems with very low internal volume.

Contact information