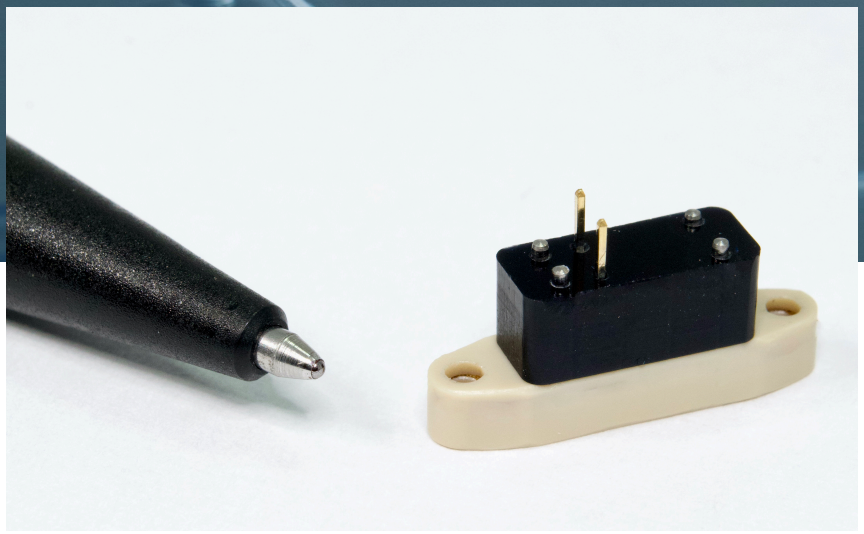
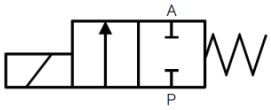
2/2-way NC valve Series 09



The memetis ultracompact 2/2-way media separated NC valve enables complex fluidic systems with very low power consumption and noiseless switching.
The valve is a perfect fit for fluidics in life-sciences and other small but complex fluidic applications.

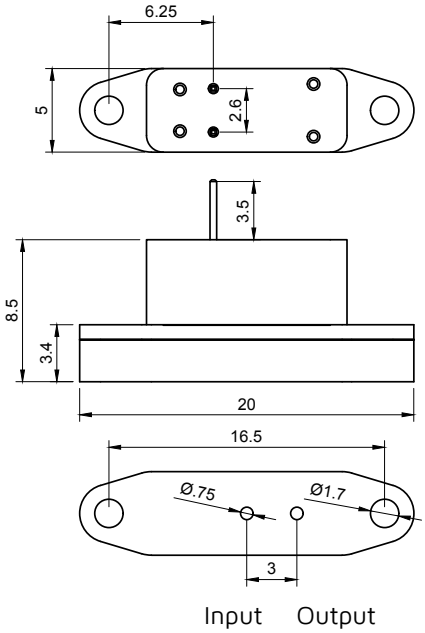
Specifications

Parameter	Value
Functionality	2/2-way seat valve, normally closed, **media separated**, controllable
Media	Liquids, gases
Dimensions	20 x 5 x 8.5 mm^3
Internal volume	< 4 µl
Nominal width DN	0.75 mm
Max. pressure @input	2.0 bar
Max. back-pressure @output	1.2 bar
Switching time: on / off	> 0.1 s / > 0.2 s @ 1 bar
Typical flow rates (@ Δp 1 bar)	3 000 ml/min (air) 90 ml/min (water)
K_v value	> 0.007 m^3/h
Temperature range	10 – 40 °C **
Lifetime	> 10^8 cycles
Housing material	PEEK ***
Sealing material	Silicone ***
Fluidic connection	Flange / M1.6 screws
Power consumption	0.25 W
Nominal current	0.5 A
Electrical connections	Pin-contact

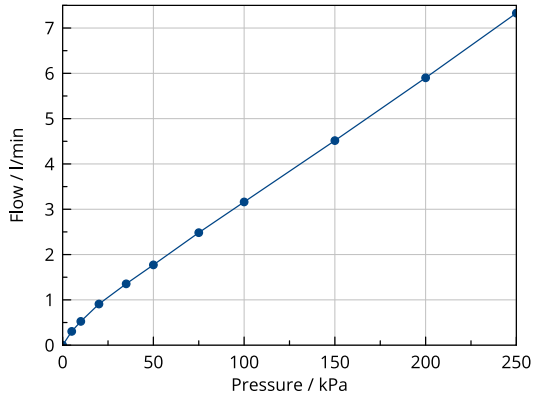


2/2-way valve,
normally closed

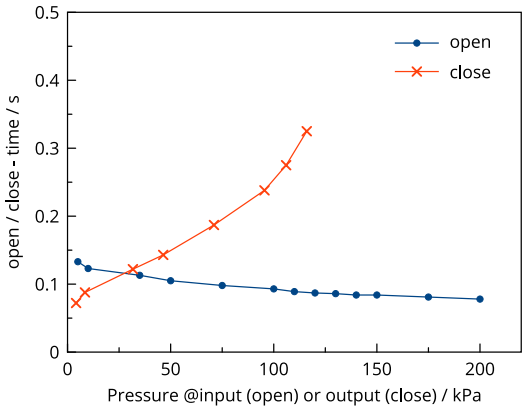
Drawings



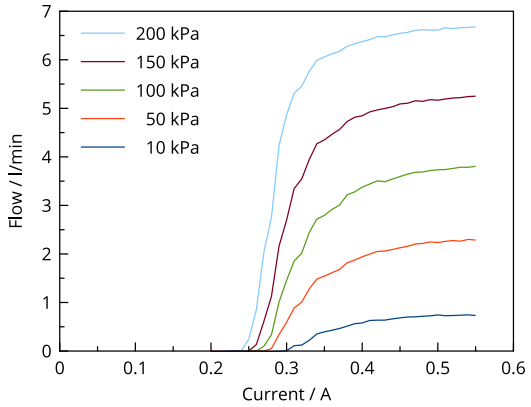
* dependent on input pressure ** contact us for lower temperatures
*** contact us for other material requirements



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



Graph 2: Open and close-time depending on input/output pressures of the valve for a typical memetis 2/2-way NC valve.

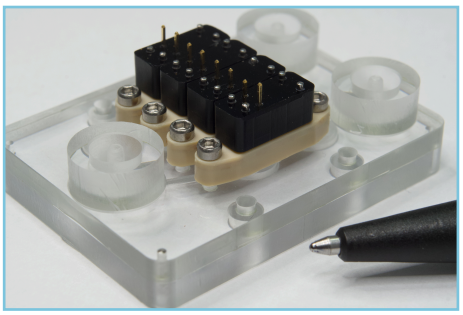


Graph 3: Flow-rate is controllable by adjusting the applied electrical current. A current of 0.5 A corresponds to a power consumption of 0.3 W.

For alternative fluidic connectors contact us directly by sending us an email to contact@memetis.com

Complementary memetis products

Electrical control unit, powered by USB-port, to control up to four memetis valves. The control includes adapter cables and has a display.



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

Contact information

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