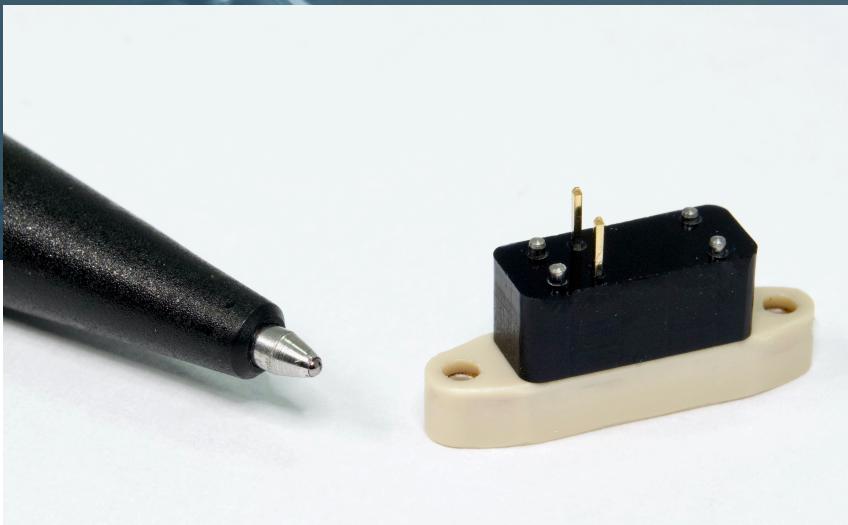


# NC-Valve Series 09

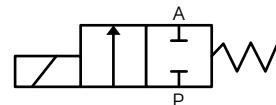


The memetis ultracompact 2/2-way media separated NC-valve enables complex fluidic systems with very low power consumption and noiseless switching. The valve is a perfect fit for fluidics in life-sciences and other small but complex fluidic applications.

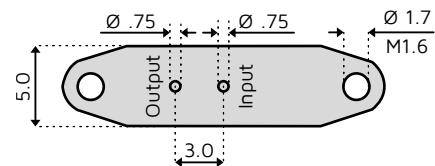
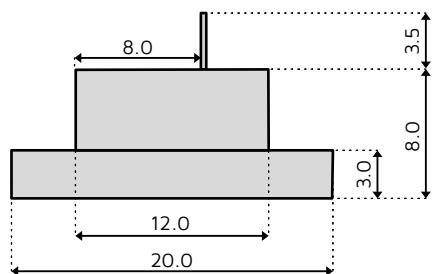
## Specifications

Parameter	Value
Functionality	2/2-way seat valve normally closed (NC)
Media (separated)	Liquids, gases
Dimensions	20.0 x 5.0 x 8.0 mm <sup>3</sup>
Internal volume	< 4 µl
Nominal width DN	0.75 mm
Max. pressure @input	2.0 bar
Max. pressure @output	1.2 bar
Switching time*: on / off	< 0.05 s / < 0.16 s @1 bar
Typical flow rates*	3 000 ml/min (air) 90 ml/min (water)
K <sub>v</sub> value	~ 0.007 m <sup>3</sup> /h
Temperature range	< 50 °C
Lifetime	> 10 <sup>7</sup> cycles
Housing material**	PEEK (PPS and PMMA also available)
Sealing material**	Silicone
Fluidic connection	Flange
Power consumption	< 0.30 W
Nominal current	< 0.50 A
Electrical connections	Pin-contact (pitch 1.27 mm)

2/2-way NC



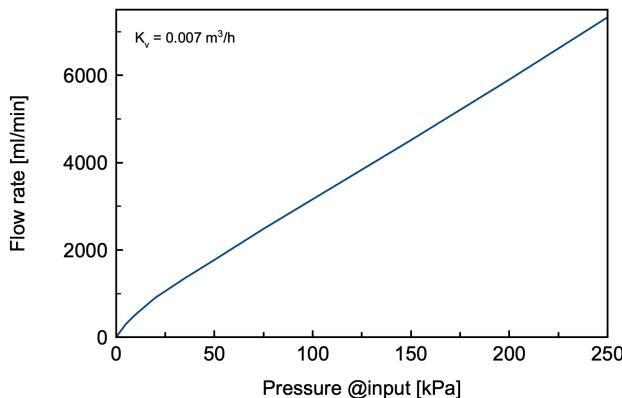
## Drawings



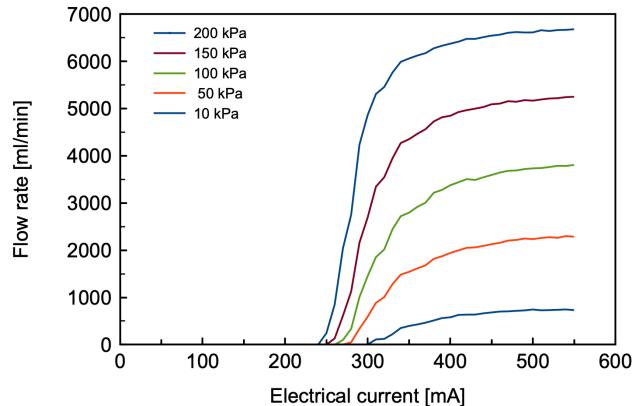
\* @20 °C & 1bar (optimized heating current)

\*\* contact us for other material requirements

## Typical flow characteristics



Graph 1: Flow rate of a memetis 2/2-way NC valve for pressures of 0.05 bar up to 2.5 bar (input pressure) for air at room temperature without output pressure.



Graph 2: Flow rate depending on applied electrical current. A current of 0.5 A corresponds to a power consumption of 0.3 W.

## Complementary memetis products



Programmed **electrical control unit (ECU)**, powered by microUSB-port, to control up to two memetis valves. The ECU includes adapter cables and has digital input channels (I/O, I2C).



memetis **fluidic connector** enables to connect our valves with Luer-Locks to your application. Available with a transparent Polycarbonate (biocompatible) base plate to observe the liquid flow or with a conventional black base plate.



memetis offers customized **smart valve manifolds** to enable easy operation of complex fluidic systems.

## Contact information