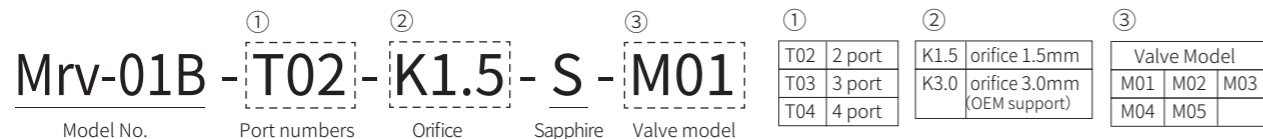


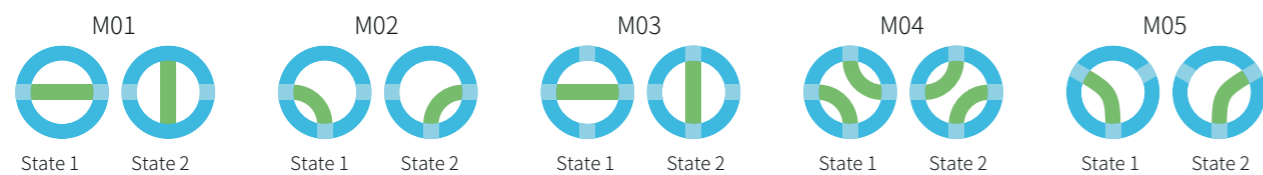
# Mrv-01B High Pressure Valve



- Anti positive pressure 1.2Mpa and negative pressure 0.06Mpa, current valve working status can be feedback via DC3.3-24V input voltage signals
- Plane switching structure design to ensure high dispensing stability at liquid outlet without any liquid fluctuation and pulse
- Valve body can be heated up to 80°C
- Compared to common solenoid valve, Mrv-01B valve body won't get heated even under long time working and much longer service life than common solenoid valve



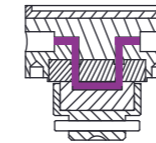
## Valve Type



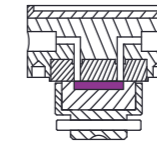
## Technical Parameter

Flow Passage Diameters	1.5mm				
Wetted material	PCTFE valve head, Sapphire rotor/stator				
Valve model	<b>M01</b>	<b>M02</b>	<b>M03</b>	<b>M04</b>	<b>M05</b>
Dead Volume	52.93μl	50.68μl	52.93μl	101.35μl	51.32μl
Pressure rating	0-1.0Mpa (air) / 0-1.2Mpa (water)				
Liquid temperature	0°C-80°C				
Connection	1/4-28UNF				
Replaceable parts	Stator replaceable, rotor sealed irreplaceable				
Driver	Non-optional				
Valve drive	≤530ms(response time)				
Trigger signal	DC7-33V				
Feedback input signal	DC3.3V-24V high low level output				
Power supply	DC24V/1A				
Max. current	2A				
Power	15W				
Operating temperature	0°C-50°C				
Operating humidity	<70% relative humidity, non-condensing				
Dimension (L*W*H)	42.1*42.1*120.9 mm				
Net Weight	0.487kg				

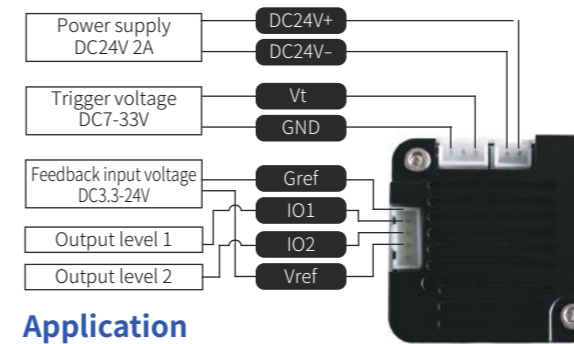
## Port-to-Port Volume



## Rotor Slot Volume

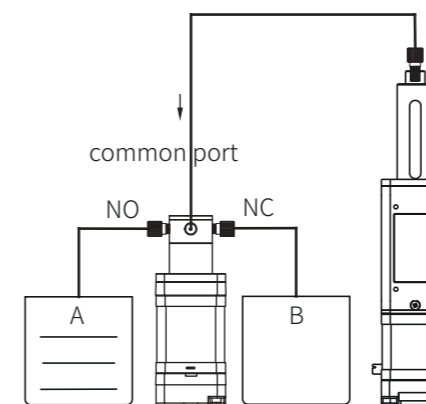


## Driver Port



Port	Description
DC24V(+)	DC24V positive
DC24V(-)	DC24V negative
Vt	External trigger voltage(DC7~33V)
GND	GND
Gref	External reference voltage GND(-)
IO1	Output level 1
IO2	Output level 2
Vref	External reference input voltage(+)

## Application



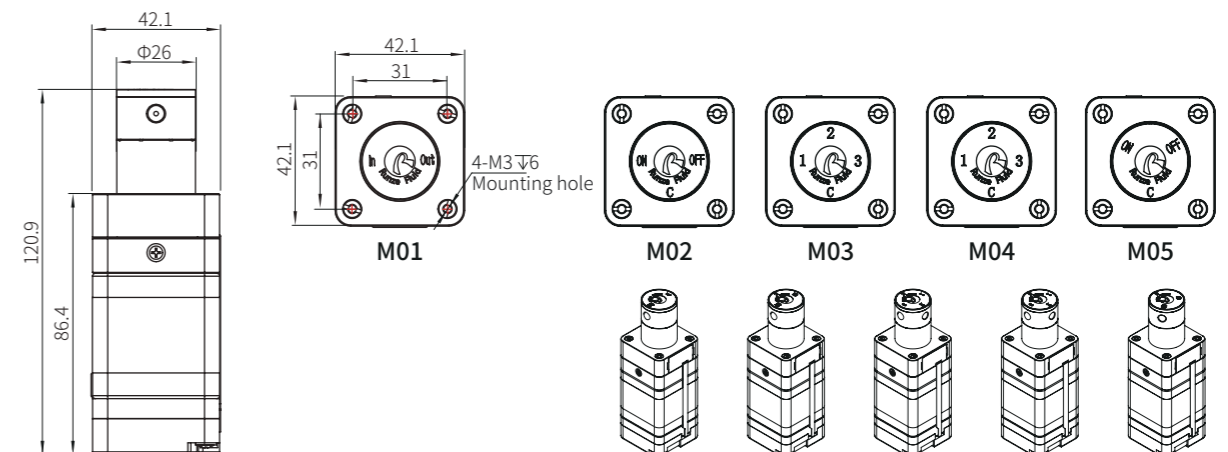
## Mrv-01B & MiNi SY-04

1. Mrv-01B M02 valve & MiNi SY-04 connected
2. Working process:

To make syringe pump suction liquid, power on Mrv-01B valve, NO (normally open) and common port of Mrv-01B valve connected, pump suction liquid from box A into syringe pump;

To make syringe pump discharge liquid, power on Mrv-01B valve, NO (normally open) closed, NC (normally close) opened and connected with common port, pump discharge liquid from syringe into box B.

## Dimension (unit: mm)



Note: Mrv-01B M01 M02 M03 M04 M05 share the same dimension