

Compact metal free 2, 3-port solenoid valve

MR10R Series

NC (normally closed), NO (normally open), universal

2-port

MR10R-2NO

- Working fluid: Water/pure water/chemicals
- Port size: M5, M6, 1/4 28UNF

MP10P_2NC



3-port

MP10P_3

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

JIS symbol

2 port: NC (normally closed)



• 2 port: NO (normally open)



● 3 port: Universal NC NO

		MIRTUR-2NC	MIRTUR-2NO	MIRTUR-3		
Actuation		NC	NO	Universal		
Working fluid		Water, pure water, chemical liquids (fluids that do not corrode wetted part materials)				
Proof pressure MPa		0.4 (water pressure)				
Working pressure MPa		-0.08 (≈-11.7 psi, -0.8 bar) to 0.2 (≈29 psi, 2 bar)				
Fluid temperature °C		5 (41°F) to 50 (122°F)				
Ambient temperature °C		5 (41°F) to 50 (122°F)				
Atmosphere		No explosive or corrosive atmospheres				
Valve seat leakage cm ³ /min		0 (water pressure)				
Port size		M5, M6, 1/4-28UNF				
Orifice size mm		1				
Cv		0.03				
Kv (water) m ³ /h		0.026				
Volumetric capacity µl		19 (*1)				
Valve structure		Diaphragm type direct acting (Rocker type)				
Mounting orientation		Unrestricted (*2)				
Weight g		18 (actuator), 22 (direct piping)				
Electrical specifications						
Rated voltage		24 VDC/12 VDC				
Voltage fluctuation range		±5%				
Power consumption W	When starting	3.6 (24 VDC) /4.2 (12 VDC) (*3)				
	When holding	1				
Leakage current mA		1.0 or less (24 VDC)/2.0 or less (12 VDC) (*4)				
Thermal class		Class 130 (B)				

*1: Volume of wetted parts formed by the body and diaphragm. Note that piping volume is excluded.

*2: Install vertically so that the coil where little fluid accumulates is at the top.

*3: Time from energizing to 50 ms.

Specifications

Descriptions

 *4 : The leakage current from the control circuit must be equal to or less than the values shown in the table.

*5: For 0.1% or less effective chlorine concentration of sodium hypochlorite (soda), perform functional testing according to your application before use.

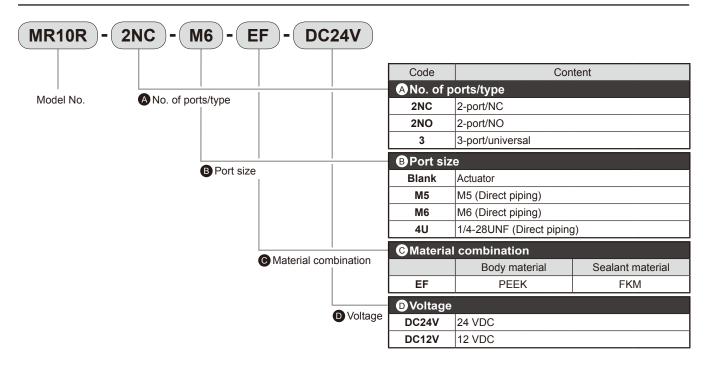
*6: As this product has an integrated electronic circuit board, do not use it in very humid atmospheres.

*7: Solenoid valve has polarity. Connect the red lead wire to the plus (+) side.

*8: After the solenoid valve is completely switched OFF, set an interval of 1 seconds or more before switching it ON the next time.

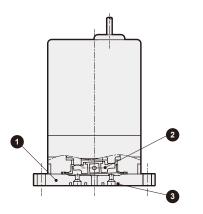
*9: Always read the safety precautions on pages 3 to 4 before starting use.

How to order

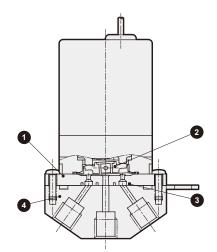


Internal structure and main part material

Actuator



Direct piping



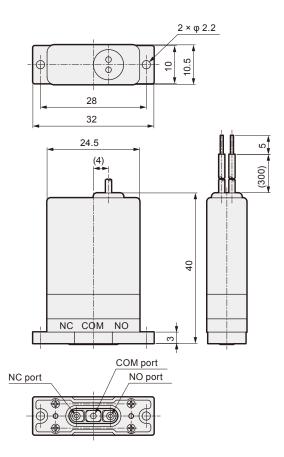
No.	Part name	Material	
1	Body	PEEK	Polyether ether ketone
2	Diaphragm	FKM	Fluoro rubber
3	Packing	FKM	Fluoro rubber
4	Connection adaptor	PEEK	Polyether ether ketone

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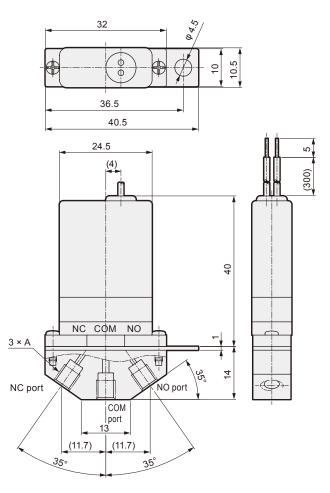
MR10R Series

Dimensions

Actuator



Note: The MR10R-2NC has no hole machined for the NO port. The MR10R-2NO has no hole machined for the NC port. Direct piping



Note: The MR10R-2NC NO port is plugged. The MR10R-2NO NC port is plugged.

Model No.	Α
MR10R-*-M5	M5
MR10R-*-M6	M6
MR10R-*-4U	1/4-28UNF

Actuator installation dimensions

