

Compact metal-free lever 2, 3-port solenoid valve for medical equipment

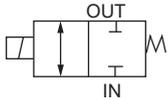
HMTB1/HMTG1 Series

- NC, universal
- Working fluid: Water/pure water/chemical liquids
- Port size: $\varnothing 2$ barbed fitting

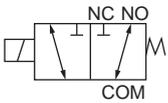


JIS symbol

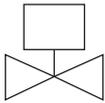
- HMTB1 (2-port)
: NC



- HMTG1 (3-port)
: Universal



Mounting orientation



Specifications

Item	HMTB1	HMTG1
Working fluid	Water/pure water/chemical liquids (fluids that do not corrode wetted part materials)	
Proof pressure MPa	0.6 (water pressure)	
Working pressure MPa	IN→OUT: -0.05 to 0.3	COM→NC/NO: -0.05 to 0.3
	OUT→IN: -0.05 to 0.15	NC/NO→COM: -0.05 to 0.15
Fluid temperature °C	5 to 40	
Ambient temperature °C	0 to 55	
Port size	$\varnothing 2$ barbed fitting	
Orifice size mm	1.6	
Cv	0.05	
Mounting orientation	Vertical position with coil on top	
Weight kg	0.21	
Frequency cycles/min.	60 or less	
Electrical specifications		
Rated voltage	24 VDC / 12 VDC	
Voltage fluctuation range	±10%	
Temperature rise K	30	
Power consumption	When starting	9.6 (*1)
	When holding	2.4
Leakage current mA	5 or less (*2)	
Thermal class	Class 120 (E)	

*1: Time from energizing to 200 ms.

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

*3: Use direct current (excluding rectified alternating current).

*4: When starting and switching retention, noise is generated temporarily. Check the compatibility of the control circuit.

*5: Do not apply excessive force on the fitting when connecting or disconnecting the tube.

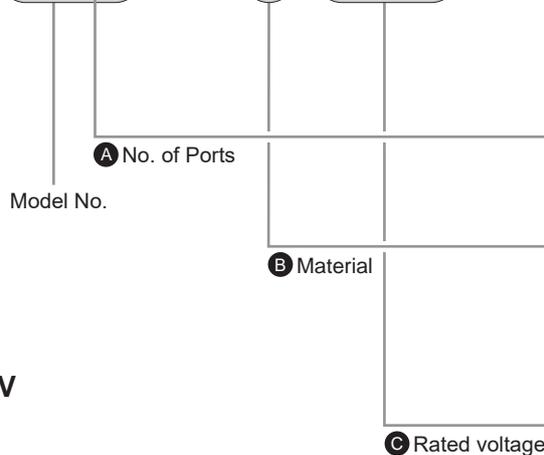
*6: Solenoid valve has polarity. Connect the red lead wire to the plus (+) side.

*7: After the solenoid valve is completely switched ON or OFF, set an interval of 0.5 seconds or more before switching it the next time.

*8: Make sure to read the safety precautions on pages 3 to 8 before use.

How to order

HMT **B**1 - **2**TN - **PN** - **DC**12V



Code	Description
A No. of Ports	
B	2-port valve
G	3-port valve
B Material	
	Body Seal
PN	PPS NBR
PF	PPS FKM
PE	PPS EPDM
C Rated voltage	
DC12V	12 VDC
DC24V	24 VDC

[Example of model No. 1]

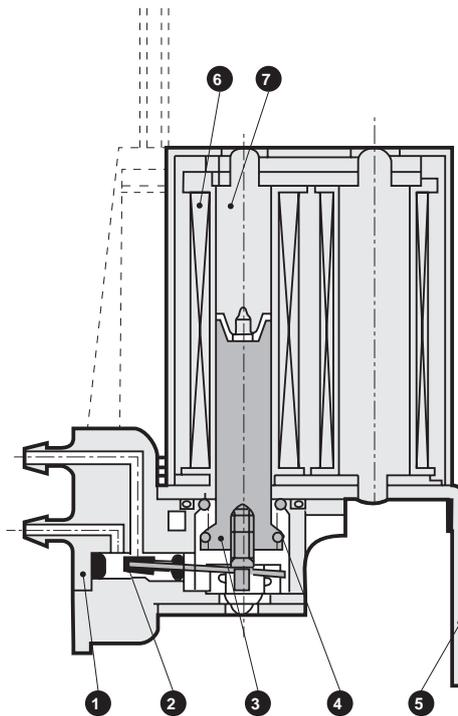
HMTB1-2TN-PF-DC24V

Model: HMTB1

- A** No. of Ports : 2-port valve
- B** Material : Body - PPS, sealant - FKM
- C** Rated voltage : 24 VDC

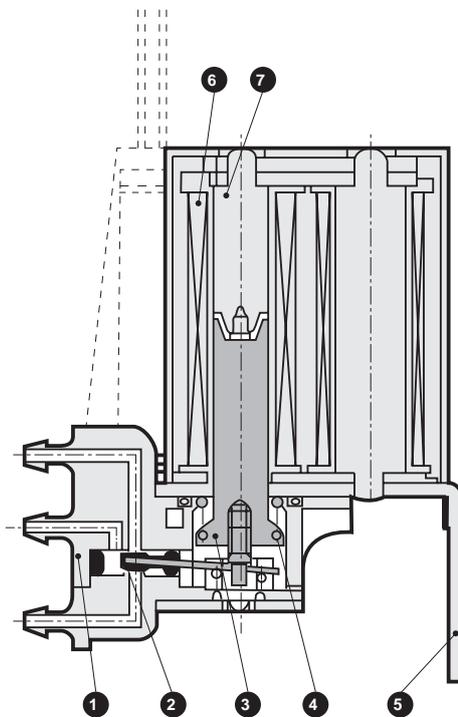
Internal structure and parts list

● HMTB1 (2-port)



Cannot be disassembled

● HMTG1 (3-port)



Cannot be disassembled

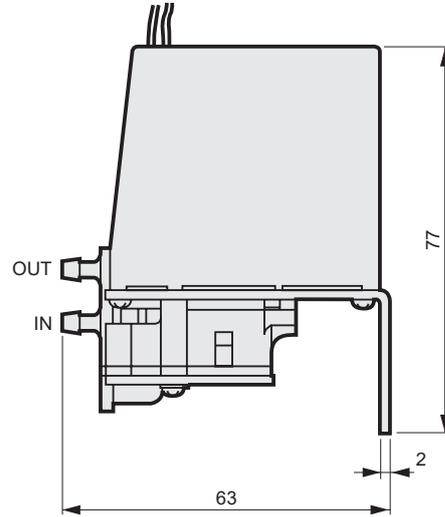
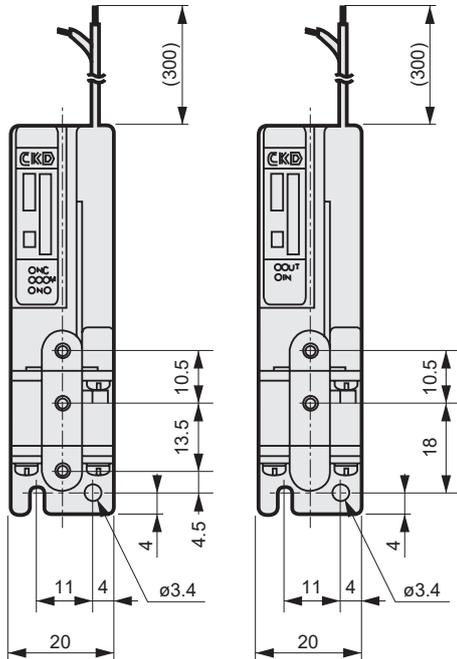
Part No.	Part name	Material	Part No.	Part name	Material
1	Body	PPS Polyphenylene sulfide	5	Frame	SUS430 Stainless steel
2	Valve seat packing	NBR, FKM, EPDM Nitrile rubber, fluoro rubber, ethylene propylene rubber	6	Coil assembly	—
3	Plunger assembly	SUS430/SUS304 Stainless steel	7	Core assembly	SUM22, SPC Steel
4	Spring	SUS304 Stainless steel			

HMTB1/HMTG1 Series

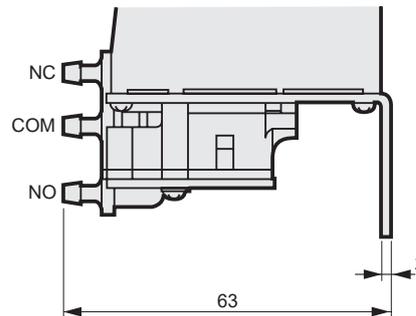
Dimensions

● HMTG1 (3-port)

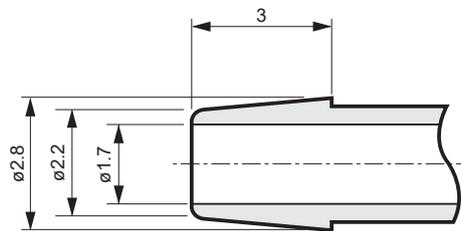
● HMTB1 (2-port)



● HMTG1 Series (3-port)



Barbed fitting dimensions



Note: Do not apply extreme lateral load to the barbed fitting.
(Allowable lateral load) 0.2 N·m or less