

Solenoid butterfly valve MC+HTB



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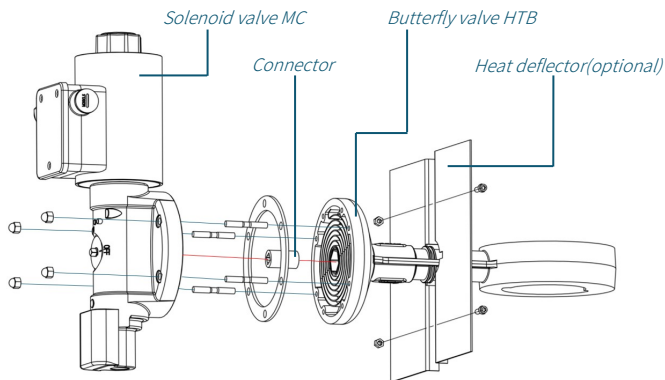
CHARACTERISTICS

- Used for high/low control or on/off control.
- It consists of a solenoid actuator MC and a butterfly valve HTB.
- Open or closed position can be adjusted independently by a mechanical limit device.
- Quick opening and quick closing or slow opening and quick closing.
- The temperature of applicable gas is up to 450 °C.

APPLICATIONS

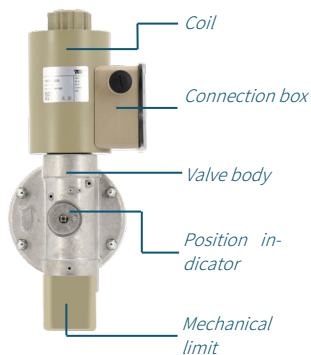
In combustion system of automatic control, MC+HTB mostly be used to adjust the air for on/off or high/low control. It can also be used for on/off control of flue gas not exceeding 450 °C.

CONFIGURATION



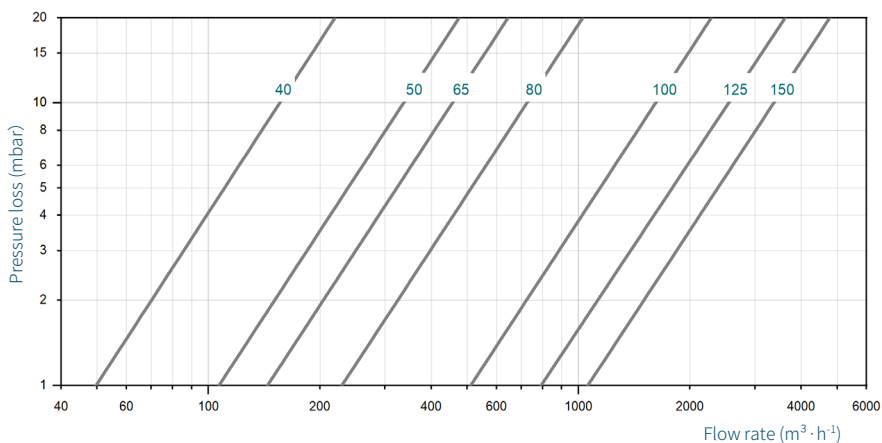
Solenoid valve MC

- Driven by solenoid coil. The time of quick opening or slow opening can choose (quick opening: <1 s, slow opening: adjustable).
- The control board, terminals and power indicator are installed in connection box.
- The valve body is made of die-cast aluminum.
- The valve position can be observed by a valve position indicator.
- The max. opening position and closed position of valve can be manually restricted by a mechanical limit slider.



SPECIFICATION

Pressure loss (HTB)



- The valve pressure loss when the valve is fully opened as shown above, the air temperature is 20 °C.
- Generally, the flow velocity of pipeline does not exceed 30 m/s, otherwise it may cause the vibration of pipeline.

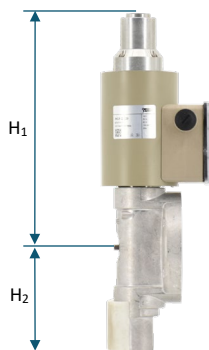
Type table

Type	MC	5	Q	/220
Nominal Diameter	5: DN40~DN80 (HTB...S) 6: DN100 (HTB...S) 8: DN125~DN150 (HTB...S)			
Opening speed	Q: Quick opening S: Slow opening			
Main voltage	220: 220VAC			

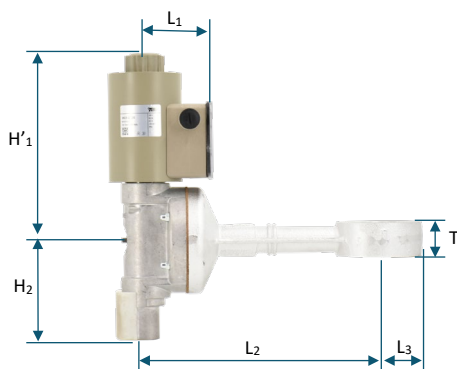
Type	MC 5/220	MC 6/220	MC 8/220
Power/W	63	84	107

Dimensions

Slow opening, quick closing:



Quick opening, quick closing:

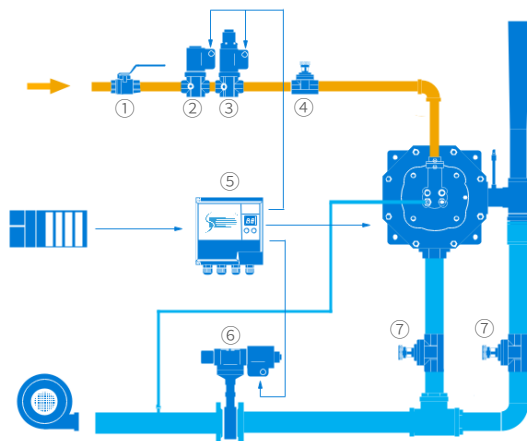


Type	L ₁ /mm	L ₂ /mm	L ₃ /mm	T /mm	H ₁ /mm	H ₁ ' /mm	H ₂ /mm	Max. inlet pressure/mbar
DN 40	76	286	54	42	355	278	121	150
DN 50	76	286	54	42	355	278	121	150
DN 65	76	286	64	42	355	278	121	150
DN 80	76	286	71	42	355	278	121	150
DN 100	100	296	81	42	316	278	121	150
DN 125	100	308	100	50	316	278	121	150
DN 150	100	321	115	50	348	-	121	150

The butterfly valve is fitting between two flanges, and the flanges are PN 1.6 MPa plate flat welded steel pipe series I flanges in GB/T9119-2010.

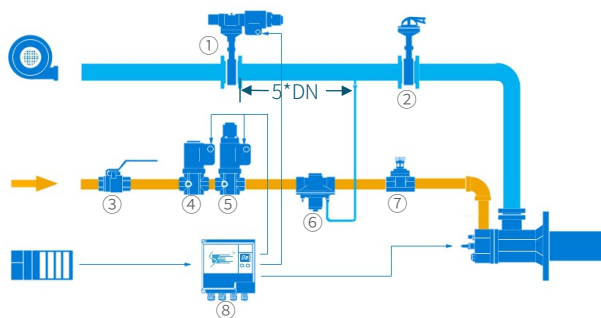
Solutions

For combustion system with on/off pulse control:



- ① Manual shut-off gas valve
- ② Gas solenoid valve SG..Q
- ③ Gas solenoid valve SG..S
- ④ Linear flow control valve KV
- ⑤ Burner control unit SCU 4.1
- ⑥ Air solenoid valve MC+HTB (if nominal diameter < DN40, use the solenoid valve SA series as air shut-off valve)
- ⑦ Manual air valve

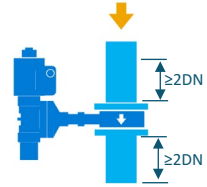
For combustion system with high/low pulse control:



- ① Air solenoid valve MC+HTB
- ② Air valve HK
- ③ Manual shut-off gas valve
- ④ Gas solenoid valve SG..Q
- ⑤ Gas solenoid valve SG..S
- ⑥ Ratio control valve GRC
- ⑦ Linear flow control valve KV
- ⑧ Burner control unit SCU 4.1

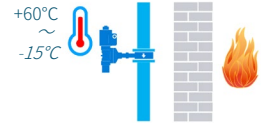
INSTALLATION

- Installation position: in vertical pipeline, MC must face up, not up-side-down.
- The arrow on valve body indicates the flow direction, determine the installation direction according to the arrow.
- Ensure that the length of straight pipe section in front of and behind the valve is longer than $2 \times DN$.
- Ambient temperature: $-15 \sim 60^{\circ}\text{C}$, install away from heat sources.
- Once the medium temperature exceeds 250°C , a heat deflector(optional) must be installed.



Wiring

- Connect live wire and neutral wire according to the marks on terminals, and use a BVR wire of $1 \sim 2.5 \text{ mm}^2$ with withstand voltage over 500 V.



Attention

- Actuator MC and butterfly valve HTB must be installed in correct direction. MC and HTB are supplied separately.
- Do not weld the pipe around the valve after installing to prevent foreign matters from blocking or damaging the valve.
- The flange gasket must be correctly positioned when it is installed.
- Do not exceed the max inlet pressure of 150 mbar.