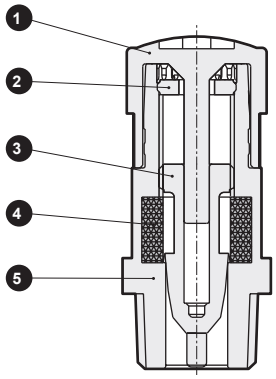
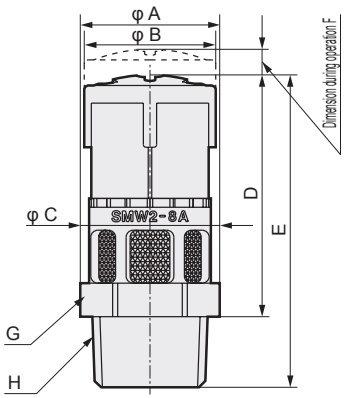
Internal structure and parts list



No.	Parts name	Material
1	Knob	PBT
2	Guide ring	Polyamide
3	Needle	Polyamide
4	Element	PP sintering resin
5	Body	Polyamide

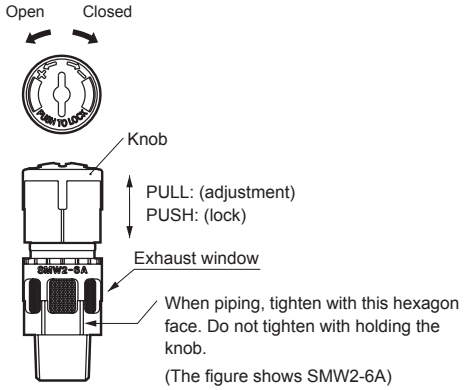
Dimensions CAD



Symbol / Model no.	A	B	C	D	E	F	G Opposite side of hexagon	H Port size
SMW2-6A	13.5	14.9	13.8	27.4	35.4	2.9	12	R1/8
SMW2-8A	15.8						14	R1/4

How to use

- The needle lock is released when the knob is pulled, and locked when pressed.
- Pull the knob and the release the lock before adjusting the flow rate.
  The knob opens when turned to the right and closes when turned to the left.
- Return the knob to the closed state, and gradually open it to adjust speed.
- After adjusting speed, press the knob and confirm that the needle is locked.



⚠ Safety precautions

Design & selection

- This product cannot be used as a stop valve requiring zero leakage.
  Due to structure, a slight leakage could occur.
- Depending on air quality (dew point), the exhaust port could freeze due to adiabatic expansion.

Installation & adjustment

- The needle is designed to open and close by turning lightly with the fingers.
  Turning the needle too far when fully opened or closed could damage internal parts.
- Return the knob to the closed state, and gradually open it to adjust speed. If the needle is opened, the actuator could pop out suddenly and pose a hazard.
- The tightening torque for the port thread is shown in Table 1.
  Screws loosen easily under high temperatures, so when the ambient temperature is 40˚C and over, mount with the upper torque limit (1.0 N·m).

Model no.	Tightening torque (N·m)
SMW2-6A	0.5 to 1.0
SMW2-8A	0.5 to 1.0

Table 1. Recommended tightening torque

- When piping, use a tool and tighten with the hexagon face below the exhaust window.
  Do not tighten or remove pipes with the knob.
  Internal damage could result.
- Sealant is not applied on thread part. If used in this state, screws do not loosen but some leakage could result. When using in low speed range, wrap sealing tape around the joint.