



Pneumatic, Vacuum and Auxiliary Components
Catalog No. CB-024SA

Metering valve with silencer

SMW2-FP1 Series

● Port size: R1/8 to R1/4

JISCode



Features

- Compact/lightweight/high flow rate
Volume reduced by 50%, and weight reduced by 80% compared with conventional series, while max. effective cross-sectional area in the class is achieved.
- Noise reduction effect of 23dB (A) or higher
P.P. sintering element with high damping effect integrated into the body to maintain low noise level.
- Uses a push-lock needle
Knob with push lock mechanism enables easy and secure locking.
- Environmental friendly design
By using plastic material only, sorting at disposal is eliminated.

Specifications

Item	SMW2-6A	SMW2-8A
Working fluid	Compressed air	
Max. working pressure MPa	0.7	
Min. working pressure MPa	0	
Proof pressure MPa	1.05	
Fluid temperature °C	5 to 60	
Ambient temperature °C	-10 to 60 (no freezing)	
Ambient humidity %RH	85 or less	
Port size	R 1/8	R 1/4
Weight	g 4.5	g 5
Cylinder bore size	mm $\phi 20$ to $\phi 50$	mm $\phi 32$ to $\phi 75$
Dial value (needle position)	9	
Noise reduction effect (*2) dB [A]	23 and over	28 and over
Flow rate (*1) L/min (ANR)	370	660
Effective cross-sectional area mm ²	5.6	9.9

*1: Flow rate is the atmospheric pressure conversion at 0.5MPa.

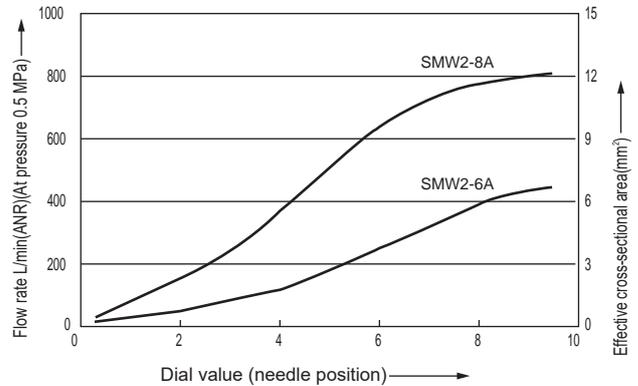
*2: Noise reduction effect at maximum flow rate is shown.

How to order

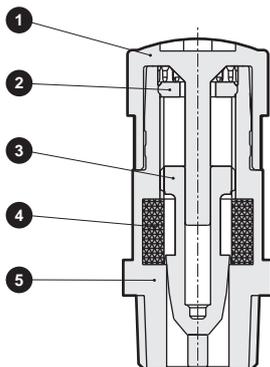
SMW2 - 6A - FP1

Code	Description
A Port size	
6A	R 1/8
8A	R 1/4

Flow characteristics



Internal structure and parts list



Part No.	Part name	Material
1	Knob	Polybutylene terephthalate
2	Guide ring	Polyamide
3	Needle	Polyamide
4	Element	PP sintered resin
5	Body	Polyamide

For dimensions, refer to the SMW2 Series in "Pneumatic, Vacuum and Auxiliary components (CB-024SA)".

Electric actuator
 Pneumatic cylinders
 Assistive device
 Pneumatic valves
 FRL/Auxiliary Components
 Electronic Component
 Vacuum components
 Main line components
 Fluid control valves
 Main line components
 Anti-bacterial/bacteria-removing filter
 Vacuum components
 Fluid control valves

FP1

FP2