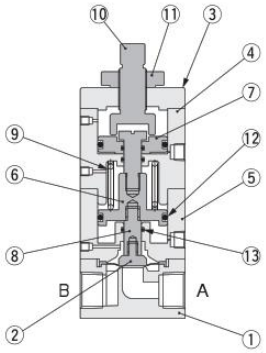
Air Operated Valve Diaphragm type
With Dual Flow Rate Switching Mechanism

F-AV500-12W

Inner Construction and Materials



No.	Parts	Materials
①	Body	SUS316
②	Diaphragm	PTFE
③	Cover	Aluminum alloy
④	Cylinder tube	Aluminum alloy
⑤	Cylinder tube	Aluminum alloy
⑥	Piston	SUS304
⑦	Piston	SUS304

No.	Parts	Materials
⑧	Piston rod	SUS304
⑨	Spring	SUS304-WPB
⑩	Adjusting screw	SUS304
⑪	Lock nut	SUS304
⑫	O-ring	FKM
⑬	O-ring	FKM

Note: SUS304, PTFE, or PFE is available as the valve body material.
For details of order codes and specifications, consult us.

Specifications

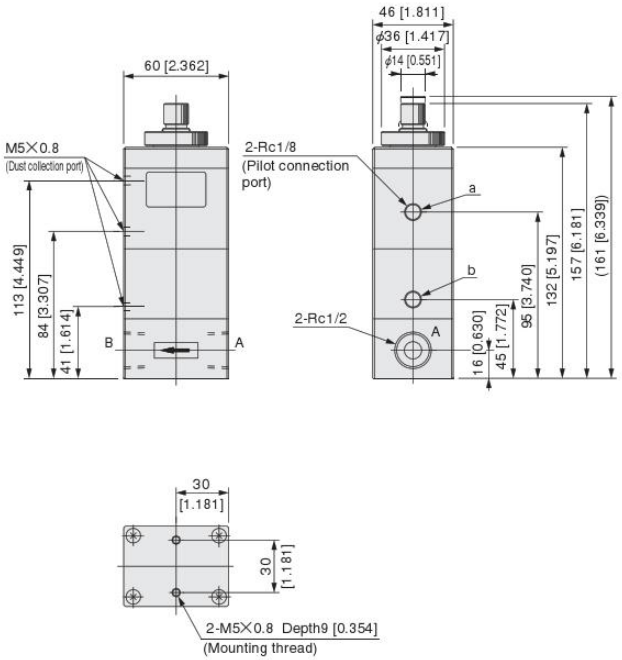
Item		Model F-AV500-12W
Media		Pure water, chemicals, air, N_2
Operating temp. range °C [°F]	Media	5～60 [41～140]
	Atmosphere	0～50 [32～122]
Operating pressure range MPa {kgf/cm²} [psi.]	A→B	0～0.5 {0～5.1} [0～73]
	B→A	0～0.3 {0～3.1} [0～44]
Pilot pressure	MPa {kgf/cm²} [psi.]	0.35～0.5 {3.6～5.1} [50.8～73]
Back pressure	MPa {kgf/cm²} [psi.]	0～0.3 {0～3.1} [0～44]
Proof pressure	MPa {kgf/cm²} [psi.]	1.5 {15.3} [218]
Orifice〔Cv〕	mm	12〔2.3〕
Pilot connection port size		Rc1/8
Leakage at valve seat	cm³/min [in³/min.]	0 [0] (When the media is water)
Operating frequency	c.p.m	30 or less
Mounting direction		Any

Order Code

F-AV500 – 12W

Basic model

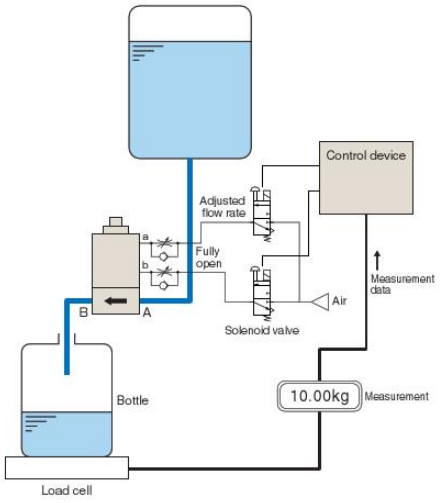
Dimensions mm [in.]



■Features

A single valve switches between 2 flow rates. It is easy to operate and does not require complex circuitry. Switching is possible between the maximum flow rate and an adjusted flow rate, and this function is best demonstrated when accurate filling is needed for bottle filling processes, etc.

Application example (bottle filling process)



- When air is supplied to port **a**, the adjusted flow rate is obtained (the flow rate is set by the adjusting screw).
- When air is supplied to port **b**, the maximum flow rate is obtained.
- When air is not supplied to either port **a** or **b**, the B port is closed (NC).