AVCFV

定流量段 Constant flow valve

Specialty Valves and Control Products Dymatrix**







Control flow rate

AVCFV is not for pressure control but for flow rate control. Use of AVCFV makes the plumbing design easier than use of pressure regulating valve since it is unnecessary to worry about the pressure fluctuation by the influence of the pipe length and back pressure.

Specifications

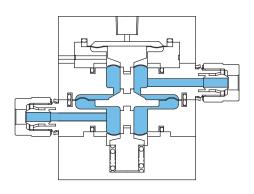
項	■ Items		Туре		
坝	目 Items	Unit	LF		
流体温	度 Medium Temperature	C	10 ~ 90		
構造耐	王 Proof Pressure	MPa	0.6 87psi		
使用圧力範	Working Pressure range	MPa	0.1 ~ 0.5 14.5 ~ 72.5psi		
最低動作差	压 Minimum differential pressure	MPa	0.1 14.5psi		
周 囲 温	度 Ambient Temperature	C	10 ~ 60		
取付姿	勢 Installation direction	_	Any direction		
接	続 Connection	-	Flowell 20 series Flowell 60 series Super Type Pillar Fitting Super 300 Type Pillar Fitting Flare Type Tube		
接続口	径 Connection tubing size	mm	6×4(6.35×4.35)		
参考流量範	Reference Flow Range	mL/min	5 ~ 2000		
精	度 Accuracy	_	± 5%F.S.		
レンジアビリテ	·ィ Range ability	_	5 times		
重	量 Weight	kg	0.5		
	Pilot pressure	MPa	Max. 0.3 (Open control) / 0.15~0.3 (Feed back control)		
Dilet	Pilot port	_	Rc1/8" , FNPT1/8"		
Pilot	Tighten the torque	N⋅m	0.4 ~ 0.6		

- **1: In the case of the connection is "F", only "I (Inch)" can be selected for the "Tubing Standard".
 **2: Please refer to page 105 for diameter of "Tube".
 **3: O-rings are not wetted.
 **4: "Vifion" is the Terpolymerization Fluorocarbon Elastomers.

Parts & Materials

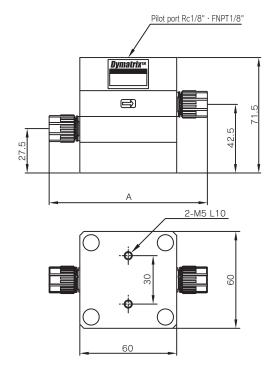
2000 mL/min

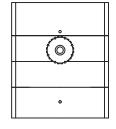
200



Parts	Material	Wetted parts
Body	PTFE	0
Diaphragm	PTFE	0
Actuator	PVDF	
O-ring	FKM / EPDM / JYJOD®F Vifton F / Kalrez 6190	
Metal parts	SUS304	

Dimensions





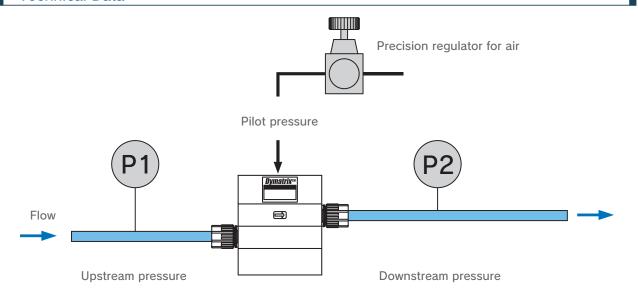
(Unit): mm

	Dimension			
Type	Tube size	Standard	Connection*	А
		inch	2	96
		mm		94
	6×4 6.35×4.35	inch	6	122
LF		mm		120
LF		inch/mm	S	99
		inch/mm	3	98
		inch	F	116
		inch/mm	Т	120

- * 1. Please refer to Ordering Code the symbols of the connection methods.
- ※ 2. Reference values

OTHER AVECN AVECS AVSIV AVDJX AVBVX AVDDV HDVW HDVIR

Technical Data



Test condition

- 1. The characteristic graph shows the data in the case of horizontal piping.
- 2. The test temperature is 23° C.
- 3. The characteristic graph is by connection tubing size mentioned in each graph.
- 4. The data in the characteristic graph are the experiment value and the reference value.

Cautions for use

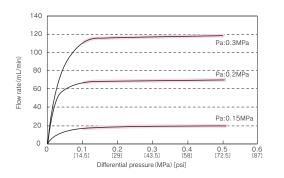
- 1. Please do not use the AVCFV in negative pressure. (It would cause the breakage of the valve)
- Please use CDA (clean, dry compression air) for pilot air. In case the pilot air contains foreign substance, such as chemicals, synthetic oil contains organic solvent, salt, corrosive gas and so on, it would cause the breakage and operation defectiveness.
- 3. We recommend to use the high quality regulator for pilot air control such as the precise regulator and Electronic-Pneumatic regulator.
- 4. Please do not use the regulator without the exhaust function. (The valve may not operate precisely)
- 5. Please leave the pilot air pressure off in case the valve is not used for long time.
- 6. The range of the flow rate differs with high viscosity fluid from the one for water. Please consult us in case of use of high viscosity fluid.
- 7. The valve is not suited to the use to the crystallizing nature fluid and Slurry.
- 8. Please use AVCFV for the fluid that has passed filter.



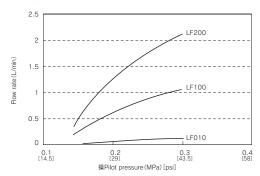
Technical Data

Connection tubing size of test: 6.35×4.35

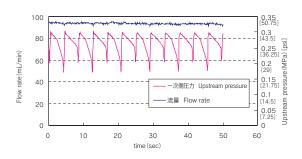
Differential pressure - Flow rate



Pilot pressure - Flow rate



Stability for pulsation



Fluid : Water (ambient) Pa shows pilot pressure.

The data shown here is the experimental values and the reference values.