AVBPR

冒庭說 Back Pressure Regulator

Specialty Valves and Control Products DymatrixTM



Excellent stability

This product stabilizes medium pressure of the main line with fast response.

Specifications

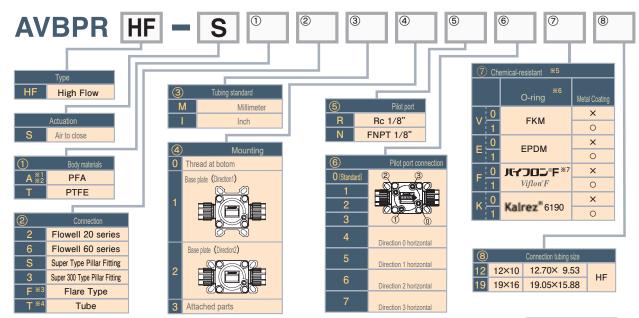
項	∃ Items	11.7	Туре		
7		Unit	HF		
	圣 Connection tubing size	mm	12×10, 12.70×9.53	19×16, 19.05×15.88	
作	動 Actuation	_	Air to Close		
流体温!	隻 Medium Temperature	°C	$10\sim90$ $$ %Please consult us in case you need the valve for High Temp (10 \sim 200°C).		
構造耐り		MPa	0.9 130.5psi		
使用圧力範目	Working Pressure range	MPa	$0.1 \sim 0.25 (14.5 \sim 36.25 \text{psi})$ $0.1 \sim 0.3 (14.5 \sim 43.5 \text{psi})$		
背	∃ Back Pressure	MPa	$0 \sim 0.05 \ (0 \sim 7.25 \text{psi})$		
周囲温川	宴 Ambient Temperature	°C	10 ~ 60		
取付姿	外 Installation direction	_	Any direction		
			Flowell 20 series		
			Flowell 60 series		
žinės .	+ 0 "		Super Type Pillar Fitting		
接	続 Connection	_	Super 300 Type Pillar Fitting		
			Flare Type		
			Tube		
参考流量範目	用 Reference Flow Range	L/min	5 ~ 15	5 ~ 30	
精	宴 Accuracy	-	Within 20kPa of upstream pressure variations, when a flow rate varies 5L/min in the reference flow rate range of 13 L/min. (When the upstream pressure is set at 200kPa)	Within 15kPa of upstream pressure variations, when a flow rate varies 10L/min in the reference flow rate range of 5 - 30 L/min. (When the upstream pressure is set at 200kPa)	
重	₩eight	kg	0.9	1.0	
	Pilot pressure	MPa	0.1 ~ 0.25 14.5 ~ 36.25psi	0.1 ~ 0.3 14.5 ~ 43.5psi	
Pilot	Pilot air consumption	L/times(ANR)	0.27 * ¹	0.32 ×2	
Tilot	Pilot port	_	Rc1/8" , FNPT1/8"		

^{* 1.} The pilot air consumption is the value at 0.25 MPa.

^{※ 2.} The pilot air consumption is the value at 0.3 MPa.

AVPREM AVHPRE AVNVM AVDIV AVMPV AVSAS AVSDV-T AVSDV-M AVSDV AVPVS AVPVS AVPVS AVPVS



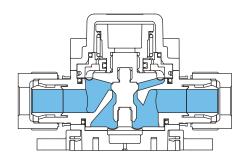


- **1: In the case of Body material"A", only "3" can be selected for the "Connection".
 **2: In the case of Body material"A", only"19(HF)" can be selected for the "Connection Tubing Size".
 **3: In the case of the connection is "F", only "I (linch)" can be selected for the "Tubing Standard".
 **4: Please refer to page 105 for diameter of "Tube".
- *5: Please consult us for the specification if the medium is a strong chemical, strong acid etc.
- ※6: O-rings are not wetted.
- *7: "Viflon" is the Terpolymerization Fluorocarbon Elastomers.

Ordering code example

AVBPRHF-ST3I1R0V012 AVBPRHF-SA3I1R0V019

Parts & Materials



	Chemical-resistant		
Parts	0	1	Wetted parts
Body	PFA or PTFE		0
Diaphragm	PTFE		0
Actuator	PVDF		
O-ring	FKM / EPDM / JCT DD F Viflon F / Kalrez 6190		
Metal parts	SUS304	SUS304 PTFE Coating	

Dimensions

AVBPRHF

(Unit): mm

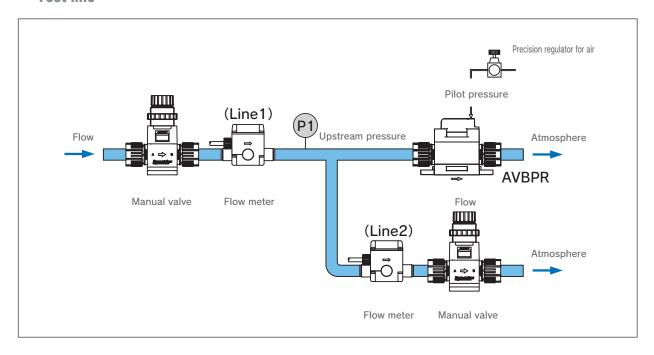
	23.4 Pilo	Port Rc1/8",FNPT1/8" Pert connection()
(IN)	75 A	Pilot Part Re1/8' FNPT1/8' 13.5 [Rist for connection of the connec
	4-M5 LB 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	**Only pilot port that you have selected,the hole is open to the actuator

(01111) 111111					
	Dimension				
Туре	Tube size	Standard	Connection*	А	
		inch	2	128 125	
		inch	6	153	
	12×10	mm		149	
	12.70×9.53	inch/mm	S	135	
		inch/mm	3	133	
HF		inch	F	141	
111		inch/mm	Т	135	
		inch/mm	2	137	
		inch/mm	6	163	
	19×16	inch/mm	S	154	
	19.05×15.88	inch/mm	3	147	
		inch	F	151	
		inch/mm	Т	155	

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

Technical Data

Test line



Test condition

- 1. The characteristic graph shows the data in the case of horizontal piping.
- 2. The test temperature is 23℃.
- 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.

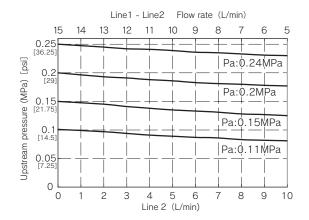
Cautions for use

- 1. Please do not use the **AVBPR** in negative pressure. (It would cause the breakage of the valve)
- 2. Please use CDA (clean, dry compression air) for pilot air. In case the pilot air contains foreignsubstance, such as chemicals, synthetic oil contains organic solvent, salt, corrosive gas and so on, it
- 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 usin 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 AVBPR for the fluid that has passed filter.

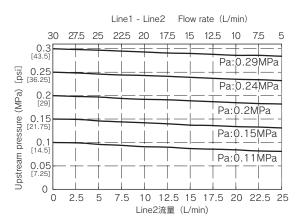
AVHPRI AVNVM AVDIV AVMPV AVSAS AVSDV-T AVSDV-M AVSDV AVPVSL AVPVM AVPV3

Flow rate - Upstream pressure

Connection tubing size of test: 12.70 × 9.53



Connection tubing size of test:19.05×15.88



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

Example

