

VAFB series

Electric Zone Valves with Dynamic pressure difference balancing (PICV-FCU)

Engineering Instruction



Products Brief

Honeywell VAFB series PICV-FCU is the new products for FCU controlling, featuring FCU on/off control, dynamic pressure difference balancing, and high control performance. VAFB series PICV-FCU achieves energy saving and temperature controlling by making the HVAC system running efficiently, static and dynamic balancing.

Advantages

- Brass valve body
- Inbuilt dynamic pressure difference balancing kit
- High close - off pressure
- Lower leakage
- High control accuracy
- Max flow can be adjusted manually easily

Technical Specification

Basic Specification

Valves

- Size DN15-DN25
- PN PN16
- Close off pressure 250kPa
- Leakage 0.1% of Qmax
- Stroke 2.4mm
- Connection Threaded connection (BSPP)

Actuators

- Input Power 230VAC 50Hz
- Thrust Force 110N
- Power Consumption $\geq 2W$
- Running time 5 min
- IP rating IP44
- Wiring $2 \times 0.5mm^2$

Media

- Media hot and chilly water, glycol solution
- Media Temp. $-5^{\circ}C \sim 120^{\circ}C$
- Operation Temp. $0^{\circ}C \sim 60^{\circ}C$

Material

- Body Brass HPb59-1
- Stem SS304
- Plug Brass HPb59-1
- Membrane EPDM
- Seal PTFE

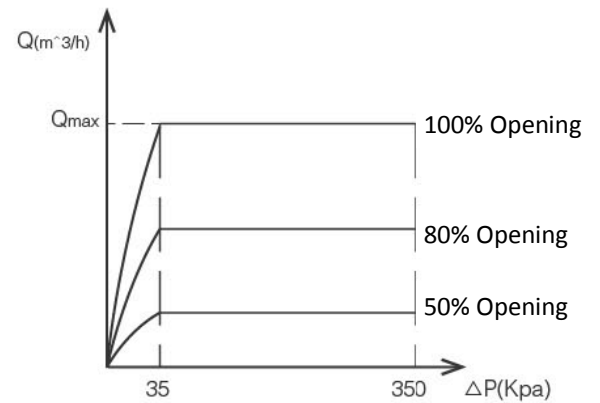
Products Parameters

Model (OS#)	Size	PN	Range of DP kPa	Connection	Max Flow m ³ /h	Test port
VAFB15	DN15	16	35-350	BSPP	0.8	NO
VAFB20	DN20	16	35-350	BSPP	1.3	NO
VAFB25	DN25	16	45-350	BSPP	2.0	NO
VAFB15P	DN15	16	35-350	BSPP	0.8	YES
VAFB20P	DN20	16	35-350	BSPP	1.3	YES
VAFB25P	DN25	16	45-350	BSPP	2.0	YES

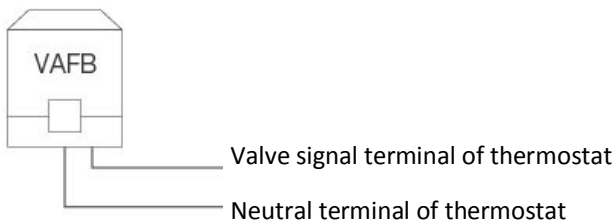
Max Flow adjusting

DN	2	3	4	5	6	7	8	9	10
DN15	0.28	0.37	0.43	0.47	0.54	0.60	0.68	0.77	0.80
DN20	0.45	0.49	0.57	0.65	0.73	0.86	0.98	1.13	1.30
DN25	0.61	0.68	0.83	0.95	1.10	1.26	1.52	1.75	2.00

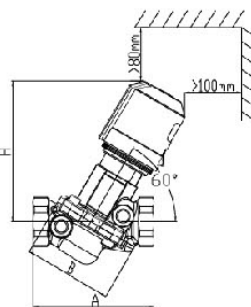
Performance curve



Wiring

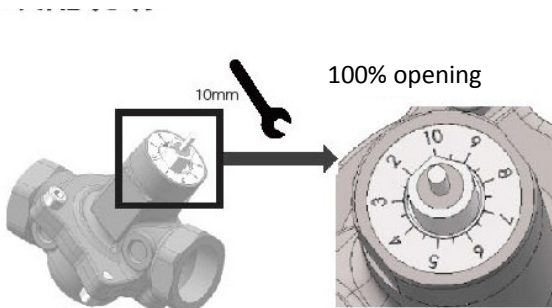


Dimension and weight

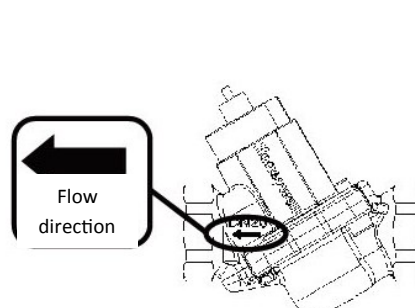


Size	DN15	DN20	DN25
A (mm)	87	87	97
B (mm)	49	49	52
H (mm)	105	105	106
Thread (inch)	1/2	3/4	1
Weight (kg)	0.77	0.79	0.93

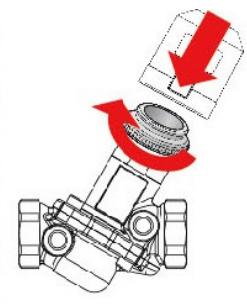
Installation instruction



1. adjusting max flow



2. connecting with pipe



3. installing actuator