

**WATTS VAL-KIT
PICV Kit for Fan Coil Units
DN15-DN25**

2023

Nominal diameter: DN15 DN20 DN25

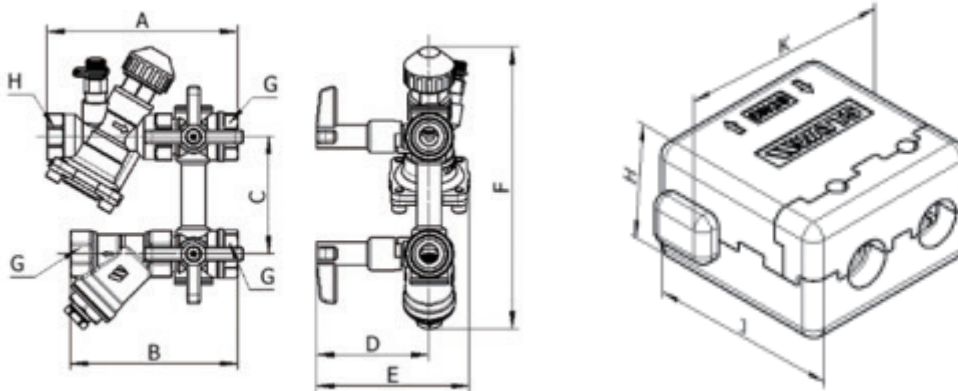
Nominal pressure: PN20

Operating temperature: -10 °C ~100 °C

Suitable media: Cold/hot water, 50% ethylene glycol

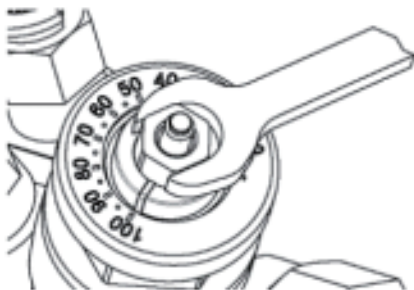
When the valve stem is retracted, the valve tends to be closed

Dimension



DN	DN15	DN20	DN25
A (mm)	128	130	163
B (mm)	102	114	143
C (mm)	80	80	80
D (mm)	77	77	77
E (mm)	105	105	107
F (mm)	183	193	196
G	Internal BSP 1/2"	Internal BSP 3/4"	Internal BSP 1"
H (mm)	110	110	112
J (mm)	142	142	181
K (mm)	194	194	200

Pre-set

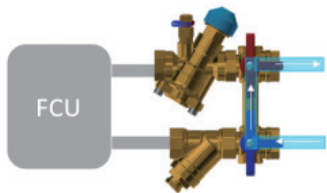


Through the hexagonal at the top of the valve, 10% to 100% of opening can be preset, with the factory default of 100%. This function can not only meet the needs of special users, but also improve the control accuracy.

Flow Rate with Preset Opening (m³/h)

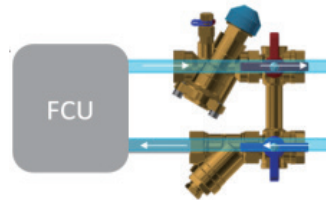
Opening/ Size	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
DN15	0.11	0.21	0.30	0.39	0.47	0.56	0.66	0.76	0.90	1.05
DN20	0.11	0.21	0.30	0.39	0.47	0.56	0.66	0.76	0.90	1.05
DN25	-	0.21	0.31	0.60	0.90	1.20	1.50	1.70	2.10	2.50

Flushing



a) Flushing main system

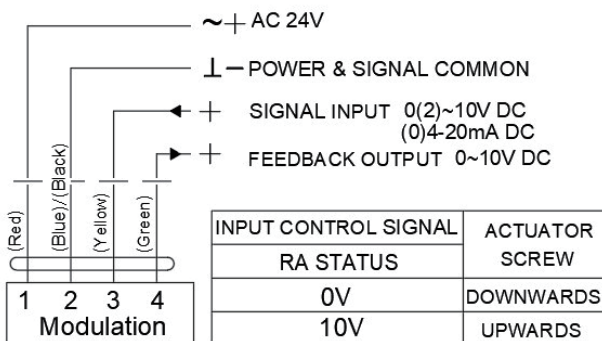
1. Adjust both 3-way valve to open bypass
2. Start with flushing process



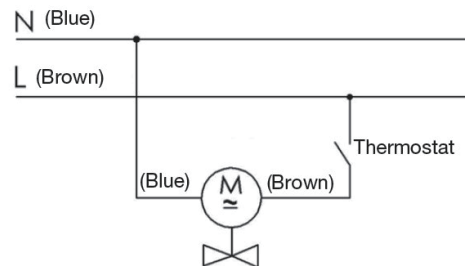
b) Forward flushing

1. Adjust both 3-way valve to close bypass
2. Start with flushing process as shown below

Wiring for Modulation Type



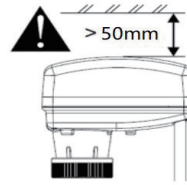
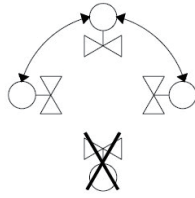
Wiring for On/off Type



Installation Precautions

- Compare the rated parameters required by the equipment with the rated parameters marked on the product to ensure that the rated flow of the product meets the application requirements.
- The installation personnel must be trained or experienced to ensure the successful completion of the installation work
- To ensure that no accidents occur during installation, the piping system must be thoroughly cleaned (with chemical reagents if necessary) prior to installation to ensure that the piping system is clean, free of rust and dirt, and all filters must be removed prior to flushing to ensure that the piping is unblocked.
- Make sure the flow direction is the same as the arrow direction which marked on the valve body when installing.
- Keep the valve body warm. The valve body and insulation material should fit tightly during the heat preservation process.
- Make sure the hose is intact before installation. Do not connect the hose assembly to another hose assembly in series.
- Furthermore, maximum iron oxide in the water passing through control valve (PICV) should not exceed 25 mg/Kg (25ppm). To ensure the main pipework is cleaned appropriately, flushing by-passes should be used without flushing through the pressure regulator of the PICV thereby preventing debris that might clog the valve. For further assistance, please contact sales or technical before installation.

Installation and adjustment



W-AR2M self-stroking operation:

Press the Learn/Reset Button SW1 on the shell after the actuator is power on. The self-stroking is completed and the actuation will automatically enter the operation status. The MCU (chip) will automatically save the parameters during the self-stroking and the parameters will not be lost after power off.