



More HVAC Valves



Flow Control Valves With WRAS Approval



WRAS
WATER REGULATIONS APPROVAL SCHEME

WRAS PRODUCT APPROVAL CERTIFICATE

Approval Number
2304374

Field of application Products complying with the Water Supply (Water Fittings) Regulations 1999 (England & Wales), the Water Supply (Water Fittings) (Scotland) Byelaws 2014 and the Water Supply (Water Fittings) Regulations (Northern Ireland) 2009.

Approval holder QINGDAO I-FLOW CO., LTD

WRAS directory section 2205

Product type Pressure reducing pilot valve

Model IF-200X

Basis of compliance Regulator Specifications (TCS) / BS Standard

Valid from November 2024

Date of expiry November 2029

Authorised by Ian Hughes, WRAS Approvals Manager

Certificate issued: 11th November 2024

The Water Regulations Approval Scheme Ltd. Registered in England No. 1303384 Registered office: 6D Lowick Close, Hazell Grove, Stockport, SK7 3ED

Company profile

Since 2010, QINGDAO I-FLOW has been a trusted valve manufacturer, excelling in HVAC solutions with a focus on our innovative Pressure Independent Control Valve (PICV) technology.

We have supplied to international clients for 10 years and are selling to more than 50 countries worldwide. Our products are used in Shangri-la Hotel, IKEA, Milan Expo, GE and Fiat Workshop, etc.

Choose Qingdao I-FLOW for streamlined HVAC solutions that prioritize excellence and efficiency.

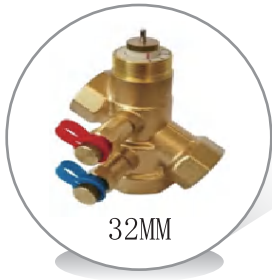


FACTORY: NO.15, JINSHAJIANG ROAD, TONGJI STREET, JIMO DISTRICT, QINGDAO, CHINA
SALES OFFICE: UNIT 1517-1520, BUILDING 4, EXCELLENCE CENTURY CENTER, NO. 31 LONGCHENG ROAD, QINGDAO, CHINA
TEL: +86 532-66952179
HTTPS: //IFLOWVALVES.COM
E-MAIL: IFLOWVALVES@QDIFLOW.COM



HVAC VALVES





Pressure Independent Control Valves

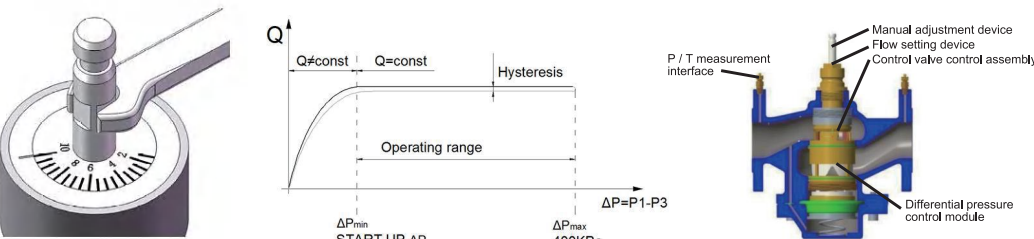
- I-FLOW's Pressure Independent Control Valve (PICV) offers precise flow control for optimizing environmental comfort in variable capacity heating and chilled water systems.
- Our PICVs, tested to BSRIA standards, guarantee linear performance with high-quality materials, ensuring optimal control valve authority. Enjoy flexibility with various actuator options, measuring points, and a wide range of differential pressures and flow rates.
- Our products are designed to help you create, implement, and maintain a system that minimizes performance gaps, leading to energy and cost savings throughout its lifecycle.

I-FLOW PICV Benefits

- Continual Balancing function maintains system performance even at varying loads.
- Pressure Regulator eliminates over-pumping providing favorable energy savings.
- IFLOW valves prevent energizing additional chillers by maintaining desired Delta T.
- IFLOW valves improve system operation reducing equipment requirement.

Supply Range

| MODEL | SIZE | | PN | Connections | ΔP Range | Kv | Stroke | Material |
|------------------|--------|-----|----|-------------|----------|------|--------|-----------------|
| | INCH | DN | | | Kpa | Q3/h | mm | |
| BAV9.DT0000.0015 | 1/2" | 15 | 25 | Thread | 30-600 | 4 | 4-5 | Brass |
| BAV9.DT0000.0020 | 3/4" | 20 | 25 | Thread | 30-600 | 6.3 | 4-5 | Brass |
| BAV9.DT0000.0025 | 1" | 25 | 25 | Thread | 30-600 | 8 | 4-5 | Brass |
| BAV9.DT0000.0032 | 1 1/4" | 32 | 25 | Thread | 30-400 | 3.6 | 5.5 | Brass |
| BAV9.DT0000.0040 | 1 1/2" | 40 | 25 | Thread | 30-400 | 7.5 | 10 | Stainless Steel |
| BAV9.DT0000.0050 | 2" | 50 | 25 | Thread | 30-400 | 10 | 15 | Stainless Steel |
| BAV9.DF0000.0065 | 2 1/2" | 65 | 16 | Flanged | 30-400 | 23 | 20 | Cast Iron |
| BAV9.DF0000.0080 | 3" | 80 | 16 | Flanged | 30-400 | 33 | 20 | Cast Iron |
| BAV9.DF0000.0100 | 4" | 100 | 16 | Flanged | 30-400 | 60 | 40 | Cast Iron |
| BAV9.DF0000.0125 | 5" | 125 | 16 | Flanged | 30-400 | 72 | 40 | Cast Iron |
| BAV9.DF0000.0150 | 6" | 150 | 16 | Flanged | 30-400 | 125 | 40 | Cast Iron |

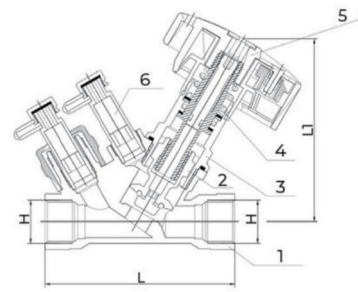


Actuators



Balancing Valve

- The static balance valve has a dual cone construction that limits the maximum stroke of the cone and thus limits the flow rate at the same time, it also has the shut-off function. The static balance valve is equipped with a flow measurement connector and a differential pressure valve pulse tube interface.



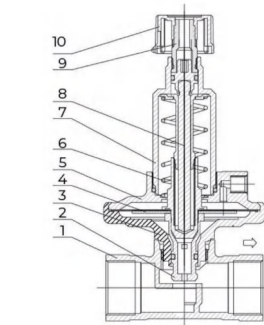
| PART NAME | MATERIAL |
|-------------------|----------|
| Body | Brass |
| Catridge Seat | Brass |
| Bonnet | Brass |
| Spring | SS304 |
| Handwheel | Plastic |
| Measurement Point | Brass |

| DN | H | L | L1 |
|----|------|----|----|
| 15 | 1/2" | 90 | 87 |
| 20 | 3/4" | 97 | 87 |



Water Balance Control In Heating And Cooling System

- Differential pressure balancing valves are used to achieve dynamic hydraulic balance in heating and cooling systems. The meaning of dynamic balance is: in a variable flow system, when the load changes from 0% to 100%, the system maintains a continuous balance by controlling the pressure change in the system. At the time of partial load, when the control flow of the regulator is reduced, the pressure limit is still used to achieve dynamic balance.



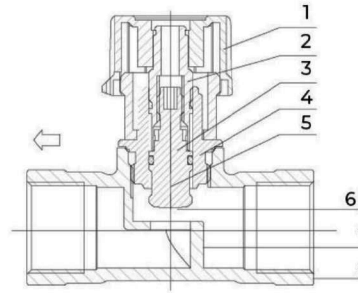
| PART NAME | MATERIAL |
|-----------|----------|
| Body | Brass |
| Stem Plug | Brass |
| Membrane | EPDM |
| Spring | SS304 |

| DN | A | H | L1 |
|----|-------|------|-----|
| 15 | G1/2" | 48.5 | 125 |
| 20 | G3/4" | 59.5 | 128 |
| 25 | G1" | 77 | 132 |



Water Balance Control In Household Small Heat Exchange Station System

- Differential pressure valves can be used in small radiator heating systems to prevent noise from radiator thermostatic valves by controlling the differential pressure. Differential pressure valves can be used in any application that requires a small differential pressure controller, such as in small floor heating diversity collector systems or small household heat exchange station systems. In buildings equipped with small residential heat exchange stations, differential pressure control valves provide and ensure dynamic balance between risers or zones through differential pressure control.
- In a small household heat exchange station system, the pressure conditions change when only domestic hot water is heated in only heating is used, By using the differential pressure balancing valve, the differential pressure can be controlled in the above cases.
- In combination with a presetting control valve or static balance valve, flow limiting function can be achieved.



| PART NAME | MATERIAL |
|-----------------|----------|
| Handle | PVC |
| Stem | Brass |
| Mandrel Set Nut | Brass |
| Dial Indicator | Brass |
| O-Ring | EPDM |
| Stem Plug | Valve |
| Valve Seat | Brass |
| Body | Brass |



| DN | A | H | L1 |
|----|-------|------|----|
| 15 | G1/2" | 48.5 | 65 |
| 20 | G3/4" | 59.5 | 75 |
| 25 | G1" | 77 | 85 |



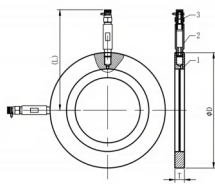
Metering Station-Wafer-PN16&PN25 125#

Supply Range

Nominal Diameter: DN50-DN600/2"-24.
Nominal Pressure: PN16/PN25/Class125.
Flanged End Standard: EN1092-1/ANSI B16.5.
Working Temperature: -20°C-120°C.

Design according to BS7350.
Tolerance on nominal Kvs ±5% (test according to BS7350) .

Working Conditions.
Water: -10°C to +130°C .
Below 0°C only for water with added antifreezing fluids over 100°C only for water with added anti-boiling fluids.



| Part Name | Material | Amount |
|---------------|-----------|--------|
| Body | SS304 | 1 |
| Extension rod | SS304 | 2 |
| Test Point | DZR Brass | 2 |

Dimensions:

| SIZE | DN50 | DN65 | DN80 | DN100 | DN125 | DN150 | DN200 | DN250 | DN300 | DN350 | DN400 | DN450 | DN500 | DN600 |
|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 135.5 | 145 | 152.5 | 163.3 | 178.3 | 191.5 | 218.8 | 246.5 | 274 | 304 | 329 | 359 | 390 | 448.5 |
| ΦD | 108 | 127 | 142 | 163.5 | 193.5 | 220 | 274.5 | 330 | 385 | 445 | 495 | 555 | 617 | 734 |
| T | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 30 | 30 | 30 |

Flow Measurement:

- Formula linking flow Q (in l/s) and Δp measured attest points (in kPa).
- Minimum flow that can be measured for each diameter may be calculated by using in the formula minimum Δp that can be measured by used manometer.
- Valves are anyway designed for best performances when used on range previously suggested and as indicated by BS7350.

