0018/ 01 / 23 EN



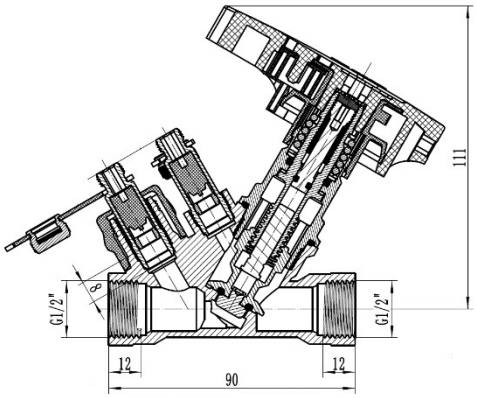
PRODUCT DESCRIPTION

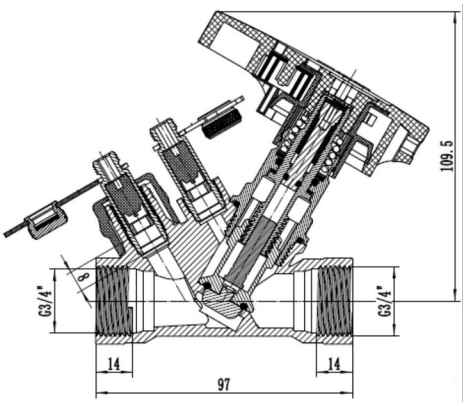
The balancing valve is designed to create an additional hydraulic resistance of a given value during hydraulic balancing of circuits or branches of water heating and water supply systems for buildings and structures for various purposes.
The valve allows you to manually set the design value of the differential pressure in accordance with the setting schedule or table.
The measuring fittings attached to the valve make it possible to attach an electronic device to the valve for verification measurement of the pressure drop across the valve and the flow rate of the working medium.
The valve can be used on process pipelines, conveying fluids that are not aggressive to valve materials

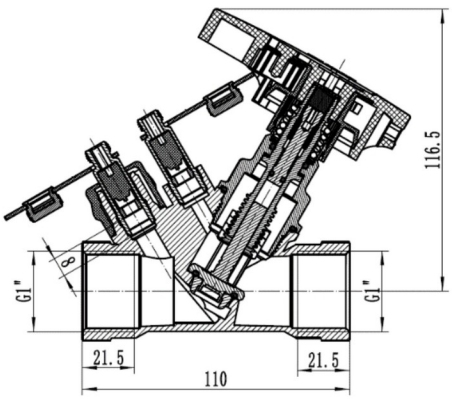


| TECHNICAL PARAMETERS | |
|---|---|
| Maximum working medium temperature | 120 °C |
| Minimum working medium temperature | -20 °C |
| Nominal operating pressure, PN | 20 bar |
| Test pressure | 25 bar |
| Connection type | Threaded |
| Threaded connection standard | ISO288/1 |
| Working environment type | Water, glycol |

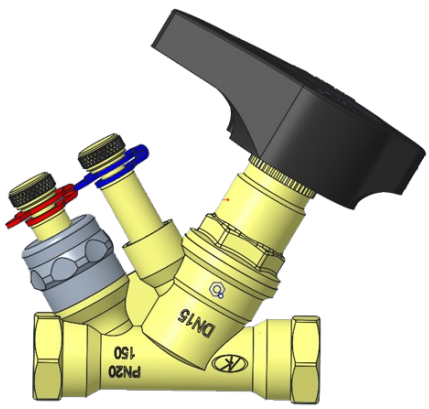
DIMENSIONS

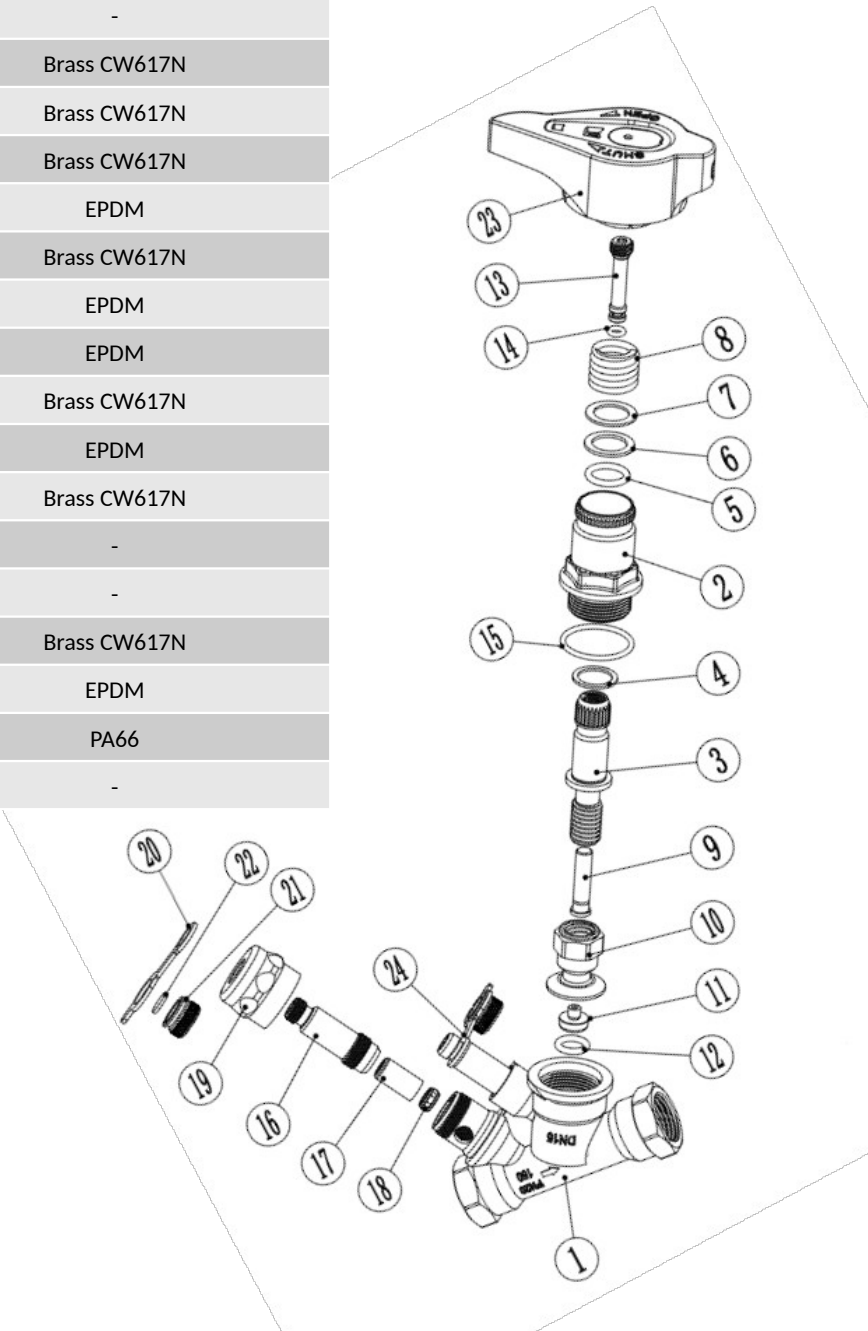


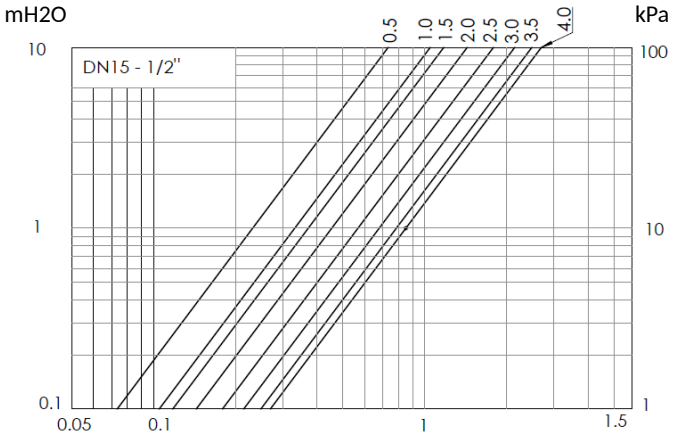



| DESIGN AND MATERIALS | | |
|---|---|---|
| 1 | Body | Brass CW617N |
| 2 | Body cap | Brass CW617N |
| 3 | Stem | Brass CW617N |
| 4 | Washer | - |
| 5 | O-ring | EPDM |
| 6 | Sealing washer | PTFE |
| 7 | Washer | Brass CW617N |
| 8 | Spring | - |
| 9 | Guide rail | Brass CW617N |
| 10 | Stem retainer | Brass CW617N |
| 11 | Insert | Brass CW617N |
| 12 | O-ring | EPDM |
| 13 | Pin | Brass CW617N |
| 14 | O-ring | EPDM |
| 15 | O-ring | EPDM |
| 16 | Measuring nipple | Brass CW617N |
| 17 | Seal | EPDM |
| 18 | Slide | Brass CW617N |
| 19 | Outlet plug | - |
| 20 | Plug holder | - |
| 21 | Plug | Brass CW617N |
| 22 | Seal | EPDM |
| 23 | Handle | PA66 |
| 24 | Plug with holder | - |



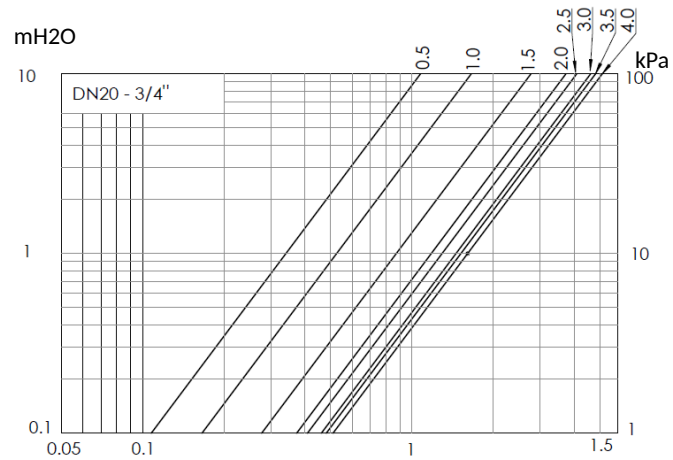



## HYDRAULIC CHARACTERISTICS. ZQBAL200D15



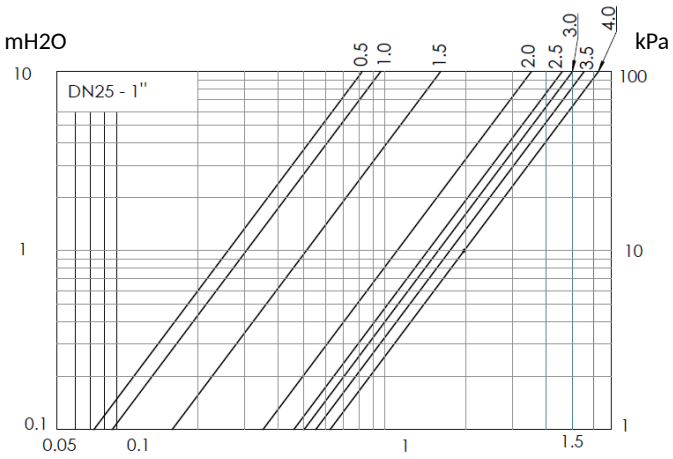

| FLOW RATE | |
|---|---|
| Setting position | Kv, m3/h |
| 0,5 | 0,73 |
| 1,0 | 1,05 |
| 1,5 | 1,18 |
| 2,0 | 1,44 |
| 2,5 | 1,79 |
| 3,0 | 2,15 |
| 3,5 | 2,48 |
| 4,0 | 2,69 |

## HYDRAULIC CHARACTERISTICS. ZQBAL200D20



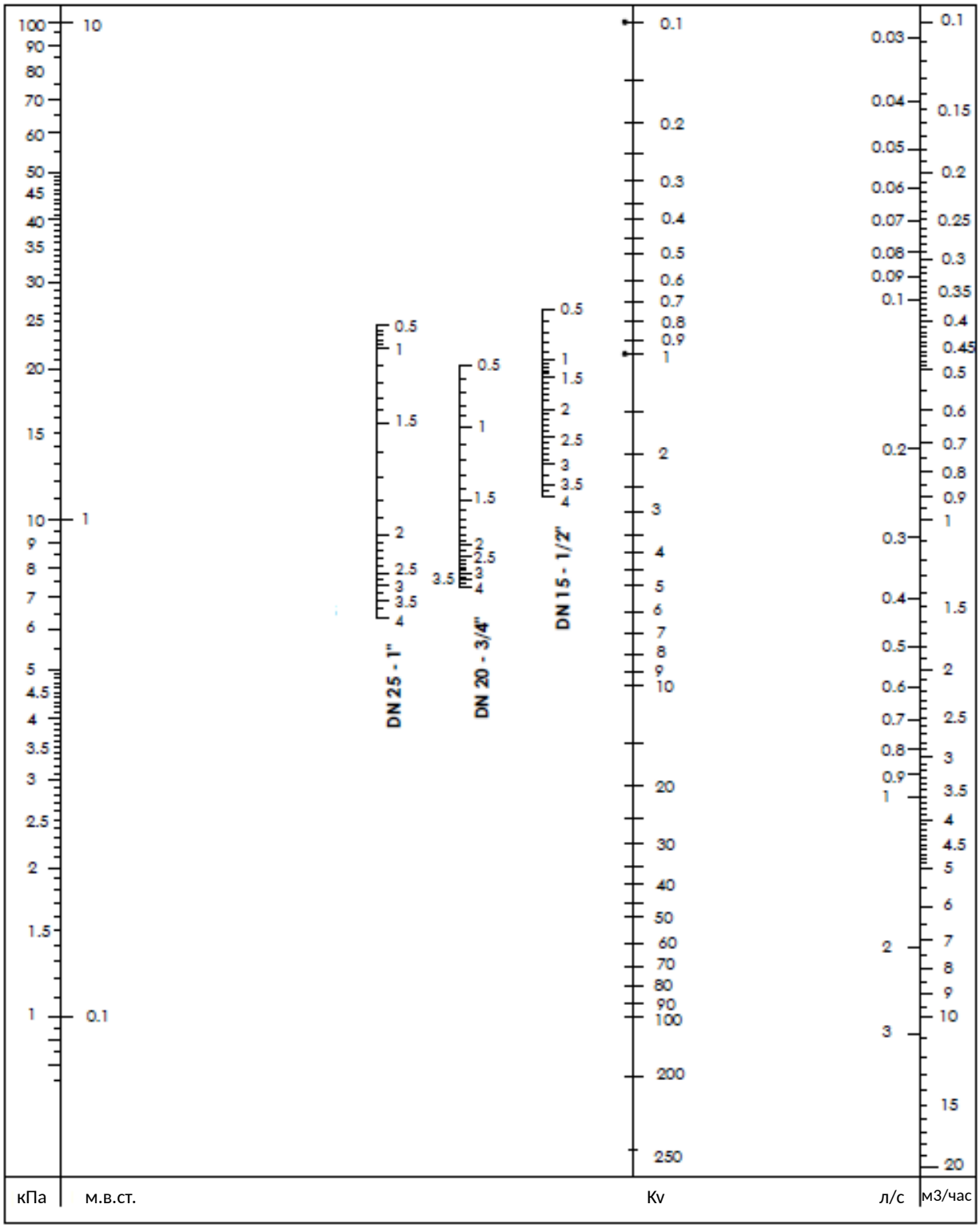

| FLOW RATE | |
|---|---|
| Setting position | Kv, m3/h |
| 0,5 | 1,08 |
| 1,0 | 1,66 |
| 1,5 | 2,77 |
| 2,0 | 3,73 |
| 2,5 | 4,09 |
| 3,0 | 4,60 |
| 3,5 | 4,80 |
| 4,0 | 5,08 |

## HYDRAULIC CHARACTERISTICS. ZQBAL200D25




| FLOW RATE | |
|---|---|
| Setting position | Kv, m3/h |
| 0,5 | 0,82 |
| 1,0 | 0,96 |
| 1,5 | 1,61 |
| 2,0 | 3,51 |
| 2,5 | 4,57 |
| 3,0 | 5,00 |
| 3,5 | 5,52 |
| 4,0 | 6,23 |

SETUP DIAGRAM



INSTALLATION REQUIREMENTS

1. Before installing the balancing valve, make sure that there are no foreign objects inside the valve and pipes that could damage the seal of the valve. When installing the valve, please make sure that the length of the pipe before the valve is at least DNx5 and at least DNx2 after it.
2. Also note the direction of the arrow on the valve body, which must match the direction of flow.
3. Remove any burrs after threading the pipe and apply sealant only to the pipe threads without affecting the valve threads. The amount of sealing material must correspond to the size of the connected elements. Excess material can cause excessive stress and/or penetrate the inside of the valve, creating additional resistance to flow.
4. To mount the valve, use a wrench, applying the necessary force only to the end of the valve closest to the pipe. This will help to get a tighter and stronger connection and prevent possible damage to the valve body.
5. Make sure the pipe threads are no longer than the valve threads.
6. To close the valve, turn the knob clockwise until it stops. Using the data given in the accompanying charts, the flow rate can be adjusted by turning the knob counterclockwise, turning it until the required flow rate is reached. You can measure the current flow through a valve using a differential

OPERATION AND MAINTENANCE REQUIREMENTS

1. The valve must be operated at the pressure and temperature specified in the specification table.
2. Maintenance of the valve consists in removing sludge from the bulb, the air channel and the interturn space of the spring. Maintenance must be carried out every 12 months of operation.
3. Freezing of the working medium in the valve flask is not allowed.
4. As a rule, the balancing valve does not need maintenance. When replacing or dismantling valve elements, make sure the system is not serviced or under pressure.
5. It is forbidden to perform installation using a pipe lever wrench (KTR), as well as by grasping the body bulb.
6. During storage, transport and installation, the caps must be closed.

MANUFACTURER

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Country of origin: China

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