

# 6.3 General specifications DN 15 - 50

#### 1. Balancing valve with Venturi nozzle DN 15 - 50

1.1. The Contractor must install static balancing valves with Venturi nozzle where indicated in drawings.

## 2. Valve Body

- 2.1. The valve body must be made of hot stamped DR brass CW602N CuZn36Pb2As.
- 2.2. The pressure rating must be no less than PN25.
- 2.3. The valve must have regulation, isolation and flow measurement in one single unit.
- 2.4. A flow arrow must be indicated in valve body.
- 2.5. The regulation handle and the measuring points must be positioned on the same side of the body of the valve.
- 2.6. Testing through the measuring points must be possible in all directions (360°).

#### 3. Flow Regulation

- 3.1. The flow regulation must be externally adjustable using an Allen key.
- 3.2. The regulation settings must remain unchanged when the isolation (open/close function) is re-opened.
- 3.3. Flow measurement must be done across a Venturi nozzle.
- 3.4. Flow measurement must be possible during flow regulation.
- 3.5. Flow accuracy tolerance must be within  $\pm 3\%$  across the entire measurement range.
- 3.6. The valve must have no requirements for up- or downstream straight piping.

## 4. Functions

- 4.1. The valve must have a visible 1/4-turn open/close function.
- 4.2. The valve must have 100 different setting positions.
- 4.3. Kvm value and valve dimensions must be clearly marked on the handle.

## 6.4 General specifications DN 65 - 600

#### 1. Balancing valve with Fluctus orifice DN 65 - 600

1.1. The Contractor must install static balancing valves with Venturi nozzle where indicated in drawings.

## 2. Valve Body

- 2.1. The valve body must be made of carbon steel St. 37 and cast iron, fully lugged ASTM A 126 KL.B.
- 2.2. The pressure rating must be no less than PN16 at 105°C (or 120°C).
- 2.3. The valve must have regulation, isolation and flow measurement in one single unit.
- 2.4. A flow arrow must be indicated in valve body.

## 3. Flow Regulation

- 3.1. Flow regulation must be done using a butterfly valve with gearbox and memory stop.
- 3.2. Flow measurement must be done across a Venturi nozzle.
- 3.3. Flow measurement must be possible during flow regulation.
- 3.4. Flow accuracy tolerance must be within  $\pm 3\%$  across the entire measurement range.





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