6. Sizing examples

6.3 General specifications DN 15-50

1. Differential pressure control valve DN 15 - 50

1.1. The Contractor must install differential pressure control valves where indicated in drawings.

2. Function

2.1. The valve must be used to provide constant differential pressure in the controlled circuit.
2.2. Differential pressure setting must be externally adjustable.
2.3. The positioning of the valve with actuator must be possible in all directions (360° around the pipe axis).
2.4. The valve must have no requirement for straight up- or downstream piping.

3. Valve Body

3.1. The valve body must be made of hot stamped DR brass CW602N CuZn36Pb2As or of cast iron EN-GJL-250 (GG25).
3.2. The pressure rating must be no less than PN25 (PN16).
3.3. The valve must comprise differential pressure control, isolation and draining in one single unit.
3.4. A flow arrow must be indicated in the valve body.
3.5. The actuator and drain valve must be positioned perpendicular to each other.
3.6. Pressure testing must be possible in all directions (360° around the pipe axis) after installing a test point cap on the drain valve.

4. Actuator

4.1. The housing of the actuator must be made of DR brass CW602N CuZn36Pb2As or of cast iron EN-GJL-250 (GG25).
4.2. The actuator must incorporate a handle for valve isolation.
4.3. The actuator must enable differential pressure setting using an Allen key.
4.4. Twenty 360° rotations of an Allen key must ensure the full differential pressure setting range.

6.4 General specifications DN 65-100

1. Differential pressure control valve DN 65 - 80

1.1. The Contractor must install the differential pressure control valve where indicated in drawings.

2. Function

2.1. The valve must be used to provide constant differential pressure in the controlled circuit.
2.2. Differential pressure setting must be externally adjustable.
2.3. The positioning of the valve with actuator must be possible in all directions (360° around the pipe axis) at a temperature range up to 120°C.
2.4. The valve must have no requirement for straight up- or downstream piping.

3. Valve Body

3.1. The valve body must be made of cast iron EN-GJS-400-15.
3.2. The pressure rating must be no less than PN16.
3.3. The valve must be installed in the supply or in the return line.
3.4. A flow arrow must be indicated on the valve body.

4. Actuator

4.1. The actuator housing must be made of cast iron.
4.2. The actuator must incorporate a knob for differential pressure setting.
4.3. The differential pressure setting scale must be marked on the actuator.
4.4. The edge of the regulating knob must indicate the differential pressure setting.
4.5. Actuators with different setting ranges must be interchangeable.

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