

## Frese OPTIMIZER 6-way

### Text for technical specifications

The pressure independent control group shall, with only one data point from the external BMS system, ensure modulating control for both heating and cooling.

The maximum flow for cooling shall be set on the pressure independent control valve and the heating flow shall be set on the control unit in the range from 10% to 100% of maximum cooling flow.

The pressure independent control group shall be delivered as a total valve package and shall consist of:

- 1 pcs. PICV with a 0-10V thermic modulating actuator.
- 1 pcs. 6 way control valve with a motoric rotating 3 point on/off actuator
- 1 pcs. control unit with a pipe connection bracket.

The system shall safeguard loss of voltage by closure of flow.

The 6-way control valve shall automatically once a week be partially rotated.

The control unit shall be capable of providing a 0-10V DC feedback signal.

Protection class for the actuators shall be IP 54 according to EN 60529.

The valve housings shall be made in dezinification resistant brass (DZR).

The pressure independent control valve shall have full stroke modulation and not be restricted by the flow setting position.

The pressure independent control valve shall have a maximum operating differential pressure of 800 kPa (8 bar)

The pressure independent control valve shall be capable of closing against a maximum differential pressure of 600 kPa (6 bar) DN15-20 and 800 kPa (8 bar) DN25 with a leakage rate at maximum 0.01% of the maximum rated volumetric flow and comply to EN1349 Class IV.

The pressure independent control valve must be tested in accordance with the BSRIA document BTS.1 "Test Method for Pressure Independent Controls Valves" and manufacturer must be able to provide the test results upon request.