General

This additional document describes the settings for the Energy Valve™ (EV…R+(K)BAC, P6….W….EV-(K)BAC) from production date 31.03.2017 by using the ZTH EU service tool.

The basic functions and more applications are described in the official ZTH EU documentation.

Functions for Energy Valve™

The following menu tree shows the possible settings and values of the Energy Valve™

Data, Settings Possible settings with in editing mode:

- SpRel 0%
- RelPos 0%
- RelFlow 0%
- AbsFlow 0.0 l/min
- AbsFlow 0.000 l/s
- T2 remote
- T2 embedded
- DeltaT
- RelPower
- AbsPower
- Cooling Energy
- Heating Energy
- Override
- SpPos Override
- Mode 2-10V
- Mode Y Inv
- Vmax
- Vmax Is
- Vmax Ismin
- Pmax
- ControlMode

Setpoint Position- / Power- / Flowcontrol
Actual flow in % to Vmax
In % to Pmax

None, Close, Open, Vnom, Vmax, MotStop, Pnom, Pmax, SpPosOverride
0...100% Position, 0...V'Max, 0...P'Max
02-10V, 0.5-10V,
not inverted, inverted
30...100% to Vnom
0...45 l/s *1)
0...4000 l/min *1)
1...100% to Pnom
0...5000 kW to Pnom *1)
FlowCtrl, PosCtrl, PowerCtrl

*1)
Functions for Energy Valve™

Menu tree (continuation)

- **Install Pos**
  - **Supply Flow**
    - **IP-Address**
      - 192.168.0.10
    - **DeltaT Limit**
      - Disabled
    - **SpDeltaT**
      - 1.0 K
    - **SpFlow DeltaT**
      - 4.000 l/s
    - **SpFlow DeltaT**
      - 0.0 l/min
    - **DeltaT MgrStatus**
      - Not selected
    - **Glycol Concent**
      - 0 %
    - **SensorStatus**
      - Ok airbubbles

**Supply Flow, Return Flow**

**Actual IP-address**

**DeltaT Limit Disabled**, **dT_Manager_Scal**, **dT-Manager**, **0.0...55.6 K**

**SpFlow DeltaT 0...55.000 l/s**

**SpFlow DeltaT 0.0 l/min**

**DeltaT MgrStatus Not selected**

**Glycol Concent 0 %**

**SensorStatus Ok airbubbles**

**1)** Compliance with the maximum absolute values is in the responsibility of the operator. The product-specific limits must be adhered to (see data sheet)

**2)** Only available for devices of the series EV ... R + BAC

- **ok**: Flow sensor is working properly
- **ok airbubbles**: Flow sensor is working properly, Airbubbles in the system
- **not ok**: Sensor error