General
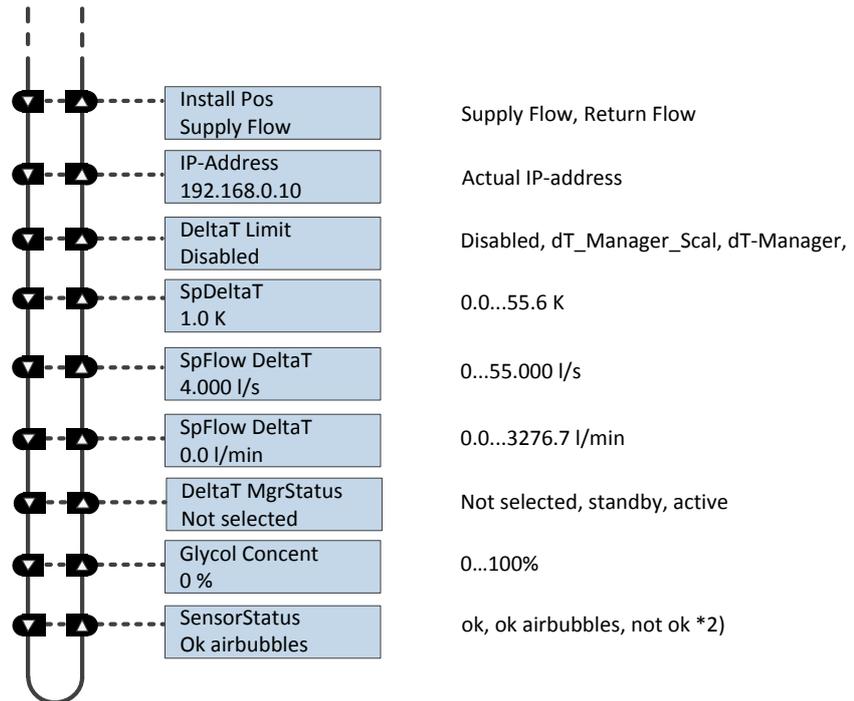
This additional document describes the settings for the Belimo EnergyValve ™
(EV…R+(K)BAC, P6….W….EV-(K)BAC) from production date 31.03.2017 by using
the ZTH EU service tool.
The basic functions and more applications are described in the official ZTH EU documentation.

Functions for Energy Valve™

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

Data, Settings	Possible settings with ▼ ▲ in editing mode:
SpRel 0%	Setpoint Position- / Power- / Flowcontrol
RelPos 0%	
RelFlow 0%	Actual flow in % to Vmax
AbsFlow 0.0 l/min	
AbsFlow 0.000 l/s	
T1 remote 25 °C	
T2 embedded 25 °C	
DeltaT 0 °C	
RelPower 0 %	In % to Pmax
AbsPower 0 kW	
Cooling Energy 0 kWh	
Heating Energy 0 kWh	
Override Auto	None, Close, Open, Vnom, Vmax, MotStop, Pnom, Pmax, SpPosOverride
SpPos Override 0 %	0...100% Position, 0...V'Max, 0...P'Max
Mode 2-10V	02-10V, 0.5-10V,
Mode Y Inv not inverted	not inverted, inverted
Vmax 100 %	30...100% to Vnom
Vmax_ls 8 l/s	0...45 l/s *1)
Vmax_lmin 21.0 l/min	0...4000 l/min *1)
Pmax 100 %	1...100% to Pnom
Pmax 1 kW	0...5000 kW to Pnom *1)
ControlMode FlwCtrl	FlwCtrl, PosCtrl, PowerCtrl

Functions for Energy Valve™

Menu tree (continuation)

Menu	Options
Install Pos Supply Flow	Supply Flow, Return Flow
IP-Address 192.168.0.10	Actual IP-address
DeltaT Limit Disabled	Disabled, dT_Manager_Scal, dT-Manager,
SpDeltaT 1.0 K	0.0...55.6 K
SpFlow DeltaT 4.000 l/s	0...55.000 l/s
SpFlow DeltaT 0.0 l/min	0.0...3276.7 l/min
DeltaT MgrStatus Not selected	Not selected, standby, active
Glycol Concent 0 %	0...100%
SensorStatus Ok airbubbles	ok, ok airbubbles, not ok *2)

*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