

General

This additional document describes the settings for the Belimo EnergyValve™ (EV...R+(K)BAC, EV...R3+BAC, P6...W...EV-(K)BAC) from production date 31.03.2017 by using the ZTH EU service tool. For newer versions of the Belimo Energy Valve™ (from version 4.x / EV...R2+(K)BAC), the ZTH EU is replaced by the NFC Assistant app. The basic functions and more applications are described in the official ZTH EU documentation. Menu items written in bold can be changed.



















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	<b>None, Close, Open, Vnom, Vmax, MotStop, Pnom, Pmax, SpPosOverride</b>
	SpPos Override 0 %	<b>0...100% Position, 0...V'Max, 0...P'Max</b>
	Mode 2-10V	<b>02-10V, 0.5-10V,</b>
	Mode Y Inv not inverted	<b>not inverted, inverted</b>
	Vmax 100 %	<b>30...100% to Vnom</b>
	Vmax_Is 8 l/s	<b>0...45 l/s *1)</b>
	Vmax_lmin 21.0 l/min	<b>0...4000 l/min *1)</b>
	Pmax 100 %	<b>1...100% to Pnom</b>
	Pmax 1 kW	<b>0...5000 kW to Pnom *1)</b>
	ControlMode FlwCtrl	<b>FlwCtrl, PosCtrl, PowerCtrl</b>

## Functions for Energy Valve™

### Menu tree (continuation)

		Install Pos Supply Flow	<b>Supply Flow, Return Flow</b>
		IP-Address 192.168.0.10	Actual IP-address
		DeltaT Limit Disabled	<b>Disabled, dT_Manager_Scal, dT-Manager,</b>
		SpDeltaT 1.0 K	<b>0.0...55.6 K</b>
		SpFlow DeltaT 4.000 l/s	<b>0...55.000 l/s</b>
		SpFlow DeltaT 0.0 l/min	<b>0.0...3276.7 l/min</b>
		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