

EBV

Smart Balancing Control Valve

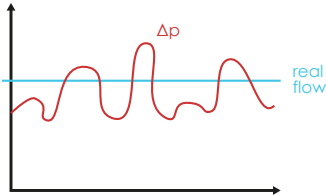
- » Pressure independent flow control
- » On-Board **PID** temperature loop & **ΔT control**
- » **Energy Control** and Energy Monitoring
- » Modbus for direct **integration into BMS**
- » **Cloud connectivity** for a future proof solution

FULL RANGE

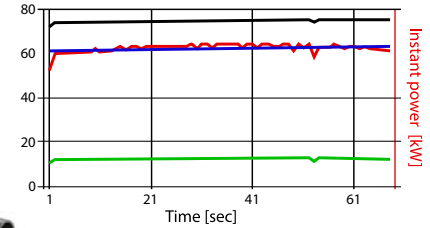
DN65	DN80	DN100	DN125	DN150
12÷37 m ³ /h	25÷59 m ³ /h	45÷77m ³ /h	61÷118 m ³ /h	80÷177m ³ /h

OPTION - actuator with **failsafe function**

Pressure sensors for pressure independent flow control



OPTION - **Supply & Return Temperature sensor** for Energy Monitoring and ΔT Control



MOD.	DN	MIN FLOW [m³/h]	MAX FLOW [m³/h]	PN	MAX ΔP [kPa]	POWER SUPPLY
EBV65	65	12	37	16	35-800	24 Vac/dc 230 Vac
EBV80	80	25	59			
EBV100	100	45	77			
EBV125	125	61	118			
EBV150	150	80	177			

65 = DN65, max flow 37 m³/h
 80 = DN80, max flow 59 m³/h
 100 = DN100, max flow 77 m³/h
 125 = DN125, max flow 118 m³/h
 150 = DN150, max flow 177 m³/h

024 = Power supply 24 Vac/dc
 230 = Power supply 230 Vac

EBVXX-XXX-XOX

0 = No emergency return
 1 = With emergency return

0 = Modbus connection

0 = No temperature sensors
 1 = With temperature sensors

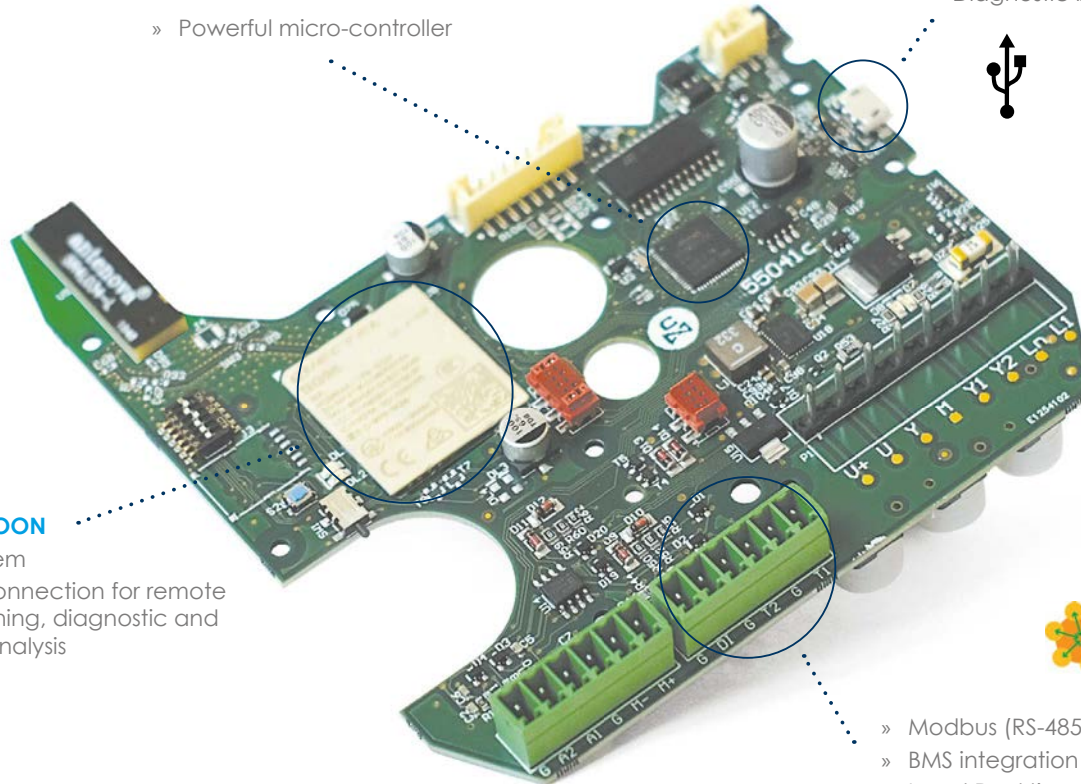
Example: **EBV65-024-001** → Max flow 37 m³/h, DN65, 24 Vac/dc, No emergency return, with Modbus connection, with Energy function enabled and 2 temperature sensors included

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Connectivity

» Powerful micro-controller

- » Mini USB
- » Easy Commissioning & Diagnostic by PC Application



COMING SOON

- » 4G Modem
- » Cloud Connection for remote commissioning, diagnostic and Energy Analysis



- » Modbus (RS-485)
- » BMS integration & Energy Analysis
- » Local Real time monitoring by PC Application and USB converter



COMMISSIONING



CONV-USB-RS485



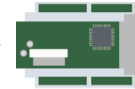
CONFIGURATOR TOOL



OPERATION



TOUCH PANEL



MODBUS MASTER DEVICE



Other relevant features:

- » Compact solution compared to competitors; perfect for upgrading existing systems
- » More competitive price with respect to competitors energy valve
- » Possibility to improve energy calculation accuracy in conjunction with a pulse flow meter
- » Full set of data available through Modbus (supply & return temperature °C, delta T °C, Instantaneous flow and power, Energy historical data)
- » Possibility of controlling the valve by simple analog signal or Modbus protocol