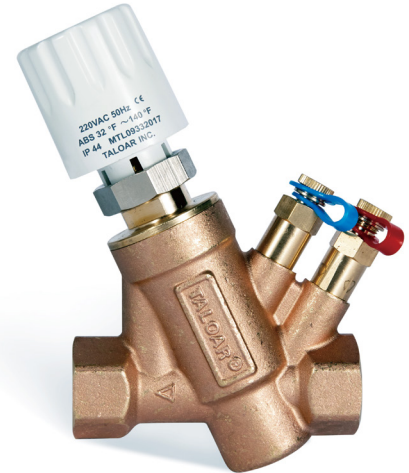


# Two-Way Pressure-Independent Balance Valves

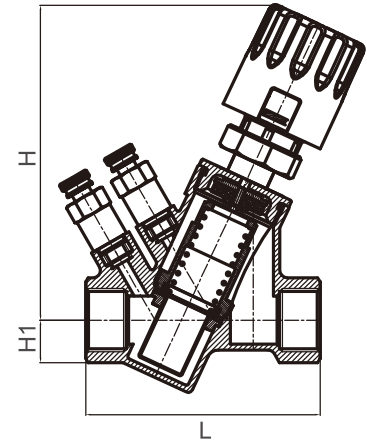
**ER170** two-way pressure-independent balance valve integrates electric on/off control and pressure-independent balancing. The valve is mainly used for on/off control of cold and hot water in fan coils at the end of the HVAC system and for pressure-independent balancing. In case of pressure fluctuation within the system, it works to keep flow unchanged while the valve is power on, especially in the variable flow system with excessively fluctuating load. It features strong immunity against interference, brings optimal temperature with the best indoor comfort effect.



**ER170**

## Product Features

- Forged brass shell.
- Auto constant flow, field commissioning not required.
- Accurately designed orifice, flow error within  $\pm 5\%$ .
- Stainless steel spring, longer service life.
- Replaceable cartridge, easy to disassemble.
- Compression fitting between the actuator and valve body for easy connection.
- Thread standard: BSPT and NPT.
- Plug-in flow measuring point, allowing quick connection.



## Technical Parameters

**Supply Voltage:** 230 VAC, 24 VAC  $\pm 10\%$  50 Hz

**Power:** < 3VA

**Stroke:** 3 mm

**Working Pressure:** 2.5 Mpa

**Medium:** Water

**Medium Temperature:** 5°C~90°C (40°F~194°F)

**Ambient Temperature:** 0°C~60°C (32°F~140°F)

**Action Time:** 3 min

**On/off Display:** Displayed

**Ingress Protection:** IP40

## Material Specifications

**Body:** Brass

**Cartridge:** Stainless steel

**Spring:** Stainless steel

**Seal:** EPDM

**Shell:** ABS plastic

**Measuring Port:** Brass

## Flow Parameters

Model	In	Structure	Flow Range m <sup>3</sup> /h	Pressure Differential Range Kpa
ER170	1/2"	Two-way	0.45-1.76	25-250
ER170	3/4"	Two-way	0.45-1.76	25-250
ER170	1"	Two-way	0.45-1.76	25-250

## Dimensions

Model	L	H	H1	Weight Kg
ER170	96	132	16	0.67
ER170	98	132	18	0.71
ER170	108	132	22	0.77