

# HTW-V71-DV Series

## Dynamic FCU Balancing Control Valves

The HTW-V71-DV Series Dynamic balancing valve is a system balancing valve that combines a electrical actuator and a differential pressure control valve in one body. It is available with or without electrical actuation and has accurate flow measurement.

When an electrical actuator is installed the incorporates two port valve functionality.

The actuators are available in 24VAC On/Off, 230VAC On/Off and 110VAC

**Features & Benefits:** Built in pressure regulator which corrects pressure fluctuations. Full valve authority gives good thermal comfort  
Can be installed in any position, as long as flow direction is respected. No up/downstream pipe lengths required.



### Material Specifications:

**Body:** Cast copper

**Trim:** (Bonnet, Stem and Restriction Cone)-Brass

**Union:**

Brass with EPDM o-ring

**Stem seals:**

EPDM

**Probe seals:**

EPDM

Maximum Temperature 195oC

Minimum Temperature 0oC

Maximum Pressure 16Bar

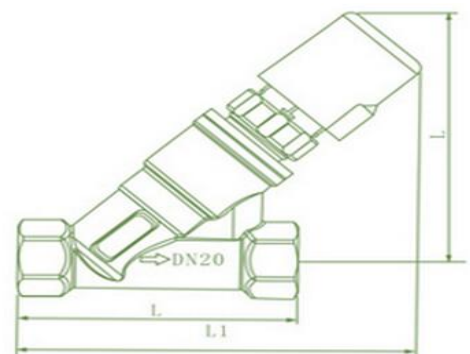
Operating Pressure 400kPa (4Bar)

### Valve Selection Guide:

NPT Connection	DN	Size	Constant Rate	Shut Down Differential
			m3/H	Mpa
HTW-71-DV-20	20	3/4"	0.9	0.28
HTW-71-DV-25	25	1"	1.1	0.25

## Benefits

- Automatic balancing
- Easy system error detection by actual flow verification
- Always 100% valve authority for perfect flow control as full stroke is independent of pre-setting
- Installation in any position and directly onto bends, reducers and flexible pipes
- No overflows and no unnecessary energy consumption
- Better thermal comfort
- High flow control accuracy with only  $\pm 7\%$  tolerance
- Commissioning not needed
- Easy valve selection
- Easy system flushing due to removable cartridge
- Low installation cost due to the two in one motorized valve and automatic flow limit construction
- Precise pump tuning for improved energy saving when verifying flow via measuring points



DN	G	L (mm)	L1 (mm)
20	3/4"	100	145
25	1"	100	145

### Applications

Typical applications for the Frese SIGMA Compact dynamic balancing valve include:

- Fan Coil Units
- Chilled Beams
- Radiator Circuits
- Underfloor Heating Circuits
- Injection Circuits



Hotowell International Co., Limited reserves the right to make changes in electrical and mechanical characteristics, without notice.

Refer to the appropriate manual for installation and configuration.

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