# Series W-DP915-25T

### **Electric Dynamic Balancing Two-way Valve**

### Size: DN15-DN25

The Series W-DP915 electric dynamic balancing two-way valve is designed for FCU or heating system. Through opening or closing the valve, the room temperature is regulated. Moreover, the valve can effectively help the system to avoid dynamic hydraulic disturbances and keep the flow rate stable, so as to achieve more accurate temperature control.

#### **Features**

- On/Off control according to control signals
- Dynamic flow balancing to eliminate mutual disturbance of terminal equipment
- Higher system control precision than that of a traditional variable flow system
- Able to preset flow on-site
- Convenient for on-site debugging, higher system operation efficiency

## **Working Principle**

In traditional cooling and heating systems, FCUs are usually controlled by electric two-way valves. When some FCUs are closed, the flows through the running FCUs increase, leading to room temperature fluctuation. To solve this problem, the Series W-DP915 electric dynamic balancing two-way valve, controlled by an electro-thermic actuator, is designed. It is a two-in-one valve that plays the roles of both an electric two way valve and a dynamic differential pressure balancing valve. When the room temperature reaches the set value, the room thermostat will send a signal to the electro-thermic actuator to close the valve. When the room temperature is greater (cooling system) or lower (heating system) than the set value, the valve will be opened in a similar way.

### Material

NO.	Material	Standard
1	Body	Anti-dezincification Brass CW602N
2	Differential Pressure	SS304
3	Valve Spool Control Valve Spool	Brass
4	Diaphragm	HNBR
5	Spring	304 Spring Steel
6	Seal Ring	HNBR
7	Valve Stem Seal	HNBR
8	Stem	
9	Measuring Nozzle	Anti-dezincification Brass CW602N
10	Actuator	Shell: Flame retardant PC Actuator Internals: POM

### **Product Model**

Typo	Size	Working Pressure (Kpa)	Preset Flow(m³/h)								
Type			30%	40%	50%	60%	70%	80%	90%	100%	
W-DP915015TP-25T	DN15	30-400	0.31	0.42	0.53	0.63	0.74	0.84	0.95	1.05	
W-DP915020TP-25T	DN20	30-400	0.31	0.42	0.53	0.63	0.74	0.84	0.95	1.05	
W-DP915025TP-25T	DN25	30-400	0.3	0.5	0.75	1	1.3	1.6	1.9	2.3	
W-DP915015-25T	DN15	30-400	0.31	0.42	0.53	0.63	0.74	0.84	0.95	1.05	
W-DP915020-25T	DN20	30-400	0.31	0.42	0.53	0.63	0.74	0.84	0.95	1.05	
W-DP915025-25T	DN25	30-400	0.3	0.5	0.75	1	1.3	1.6	1.9	2.3	

Note: The factory default is 100% preset flow.



## **Specification**

Connection Standard: ISO 7-1
IP Grade of Actuator: IP54

IP Grade of Actuator: IP54
 Control Characteristic: On/Off control

• Working Voltage: 220VAC 50Hz

• Startup Time: 5min

• Working Medium: Water/Ethylene Glycol/Propylene Glycol

### **Pressure - Temperature**

• Nominal Pressure: PN25

• Temperature Range: 0°C~110°C

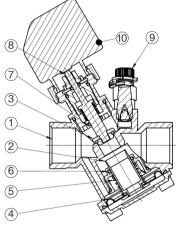
• Working Differential Pressure: 30-400KPa

• Seat leakage: EN 1349

DN15-20: No visible leakage at 400kPa /0.05%Kvs

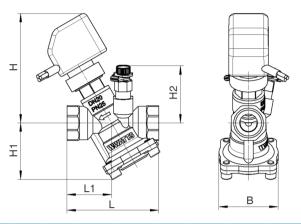
at 600kPa

DN25: No visible leakage at 200kPa /0.05%Kvs at 400kPa





### **Installation Dimensions**



Size	Thread	L(mm)	L1(mm)	B(mm)	H(mm)	H1(mm)	H2(mm)	Weight(Kg)
DN15	Rp 1/2	82	39.9	55	102	53	53	0.67
<b>DN20</b>	Rp 3/4	85	41.4	55	102	53	53	0.69
DN25	Rp 1	96	44.6	60	102	63	58	0.95

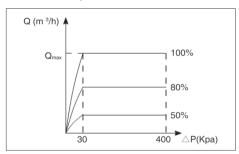
# **Model Description**

		W-	DP	9	15	015-	TP	-25	Т
W	WATTS								
DP	Electric	Electric Dynamic Bala							
9	Eectric								
15	Series	Series							
Size									
015-DN15	020-DN2								
025-DN25									
Working Differential Pressure									
TP: With measuring joint	None: Without measuring joint								
Pressure									
25: PN25									
Body Material	Brass								

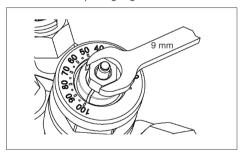
# **Flow Setting**

Through the hexagonal at the top of the valve, 30% to 100% of opening can be preset, with the factory default of 100%. This function can not only meet the needs of special users, but also improve the control accuracy.

### Differential pressure flow characteristics

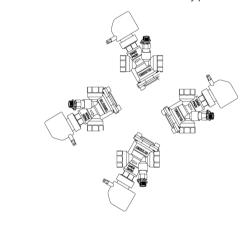


### Opening regulation



### **Installation Instructions**

Installation direction: IP54 can be installed in any position.



### Actuator Wire Diagram

