

# Series W-DP915-16T (DN15-DN25)

## Electric Dynamic Balancing Two-way Valve

### ◆ Application

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
- Factory presetting of flow rate
- No on-site commissioning needed

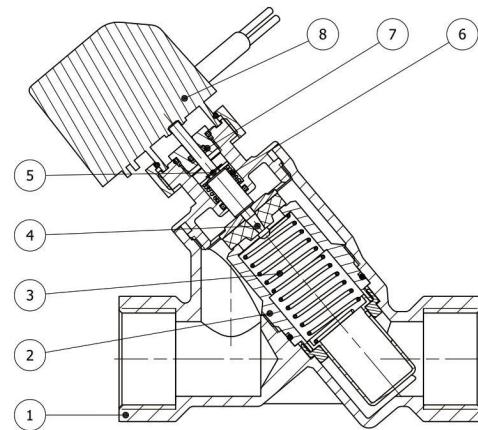
### ◆ Operating Principles

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 flow 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. In the whole process, a built-in cartridge automatically adjusts the flow to remain unchanged, so as to ensure higher control precision.

### ◆ Technical Specification

<b>Dimensions:</b>	DN15-DN25
<b>Working Temperature:</b>	0~110℃
<b>Working Pressure:</b>	PN16
<b>Fluid Medium:</b>	Water / Ethylene Glycol / Propylene Glycol
<b>Connection:</b>	Threaded Connection
<b>Connection Standard:</b>	GB / T 7307-2001
<b>Control Deviation:</b>	±10%
<b>Working <math>\Delta P</math>:</b>	20-200KPa / 30-300KPa
<b>IP Grade:</b>	IP44
<b>Working Voltage:</b>	220VAC 50Hz
<b>Start-up Time:</b>	3min
<b>Control Characteristic:</b>	On/Off control
<b>Shutoff Pressure:</b>	200KPa

<b>Materials:</b>	
① Valve Body:	Brass HPb59-1
② Valve Plug:	Brass HPb59-1
③ Membrane:	EPDM
④ Valve Stem:	Stainless Steel 304
⑤ Spring:	Stainless Steel 304
⑥ Returning Spring:	Stainless Steel 304
⑦ Sealing:	NBR
⑧ Actuator:	Shell: Flame Retardant PC Internals: Reinforced POM



## ◆ Technical Parameters

### Product Type:

Product Type	Size	Working $\Delta P$ (KPa)	EDP Code	Rated Flow(m <sup>3</sup> /h)											
					B	C	D	E	F	G	J	K	M	N	P
W-DP915015L_-16T	DN15	20-200	61983700L_	0.36	0.47	0.6	0.8	1	1.15	1.25	1.51	-	-	-	-
W-DP915015H_-16T		30-300	61983700H_	-	0.47	0.6	0.8	1	1.15	1.25	1.51	1.6	1.8	2	-
W-DP915020L_-16T	DN20	20-200	61983701L_	0.36	0.47	0.6	0.8	1	1.15	1.25	1.51	-	-	-	-
W-DP915020H_-16T		30-300	61983701H_	-	0.47	0.6	0.8	1	1.15	1.25	1.51	1.6	1.8	2	-
W-DP915025L_-16T	DN25	20-200	61983702L_	-	-	0.6	0.8	1	1.15	1.25	1.51	-	-	-	-
W-DP915025H_-16T		30-300	61983702H_	-	-	0.6	0.8	1	1.15	1.25	1.51	1.6	1.8	2	2.09

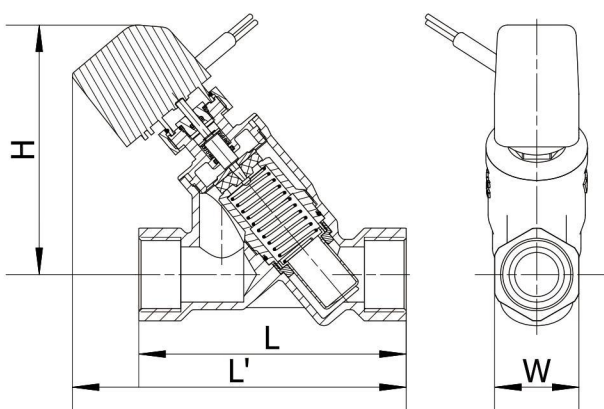
\* The underlined parts"\_" in the product type and EDP code columns above will be determined according to the selected rated flow, which can be A, B, C, D, E, F, G, J, K, M, N and P respectively.

### Coding Rules:

W	WATTS	W- DP 9 15 0 15 L _- 16 T
DP	Differential Balancing Valve	
9	Electric	
15	Series Number	
Size		
015-DN15		
025-DN25		
Working $\Delta P$		
L - Low Pressure H - High Pressure		
Rated Flow		
A, B, C, E, F, G, J, K, M, N, P		
Pressure Class	PN16	
Body Material	Brass	

### ◆ Installation

- (1) The valve's rated parameters should match the equipment's. Make sure that the valve's rated flow satisfies the application requirements.
- (2) The installer must be trained or experienced so as to operate the installation correctly.
- (3) A thorough check after installation is needed to ensure no errors.
- (4) A thorough cleaning before installation is needed (chemical reagent can be applied if it is necessary) to ensure that there is not any rusting or dirt in the pipe. All the filters must be removed before washing to keep the pipe smoothly open.
- (5) This product should not be used when the fluid medium has high viscosity (contains much grease or mineral oil), or under corrosive circumstances.
- (6) The direction of the fluid must be in line with the direction of the arrow head on the valve's body. Wrong installation will lead to clog or breakdown.



### Installation Dimensions:

Size	L(mm)	L'(mm)	H(mm)	W(mm)
DN15	109	151	131	32.0
DN20	109	151	131	32.0
DN25	121	151	140	38.1