

# Series W90000

W90000-EN-202505

## Stainless Steel Electric Control Ball Valve

### Size: DN15-DN50

### Application

Function Control the flow and volume of medium in pipeline.  
Application: Urban water supply system, PCW, liquid cooling system and other systems.

### Features

- High flow capacity, low resistance loss
- Equal percentage adjustment features
- High protection level
- Short runtime
- Power-off hold and Signal-off hold

### Working Principle

The actuator drives the rotation of the valve ball to change the area between the ball and seat by receiving the regulating signal or switching signal, to control the flow rate passing through the valve and realize the automatic regulation function.

### Material

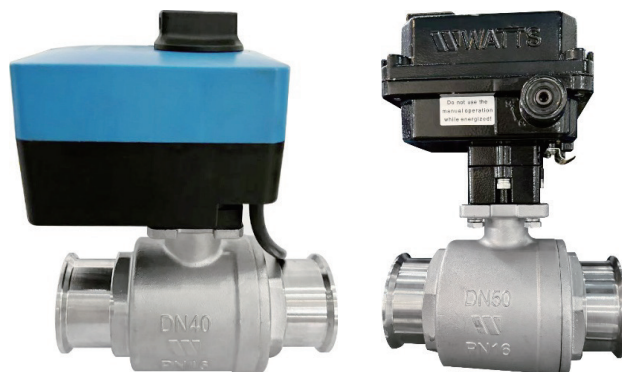
Component	Material
Valve Body	Stainless Steel CF8
Valve Cover	Stainless Steel CF8
Valve Ball	Stainless Steel 304
Valve Shaft	Stainless Steel 304
Valve Seat	PTFE+ Graphite
Body Seal Ring	FKM
Shaft Seal Ring	FKM
Shaft Seal Gasket	PTFE

### Product Model

Model	Size	Kvs	Actuator
W98100	DN15	6.3	W-A13C Series
	DN20	11	
	DN25	16	
	DN32	32	
	DN40	40	W-AA1S-2/W-AA1M-2
	DN50	63	

### Model Description

W	WATTS	W	9	8	1	0	0
9	Electric Ball Valve						
Connection							
8: Clamp							
Tunnel Type							
1: EQM							
Control Type							
0: Modulating 1: On-Off							
Material							
0: 304							



### Specification

- Nominal Size: DN15~DN50
- Nominal Pressure: PN16
- Working Temperature: -15℃~120℃
- Working Medium: Water, ≤50% ethylene glycol solution
- Connection Standard: Clamp: DIN32676
- Flow Characteristic: EQM
- Closing Differential Pressure: 1400kPa
- Maximum Operating Differential Pressure: 350kPa
- Leakage Rate: Class A

### Actuator Parameters

- Power Supply: 10Nm On-Off: 24VAC/DC (220VAC optional)  
Modulating: 24VAC/DC  
24Nm 24VDC (220VAC, 24VAC optional)
- Protection level: IP54 DN15-40 (IP67 optional)  
IP67 DN50
- Ambient Temperature: -20℃~+60℃
- Signal: 2-10V
- Optional configuration of other analog signals

Actuator Series	Torque (N·m)	Size	Runtime s	Power W	Current A
W-A13	10	DN15-40	60*	2	0.08
W-AA1S-2	24	DN50	20	7	0.4

\*The Runtime of actuator is adjustable. Please consult for details.

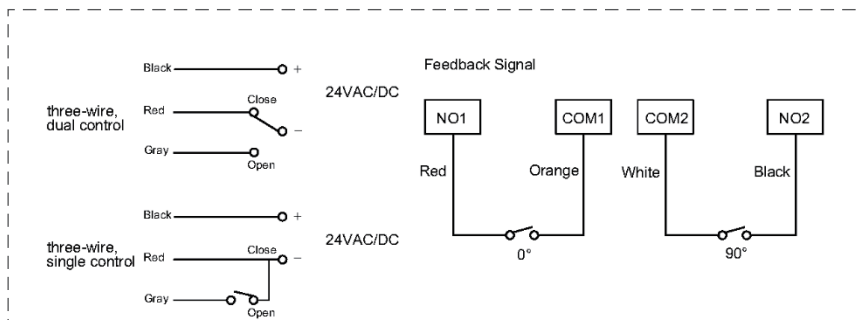
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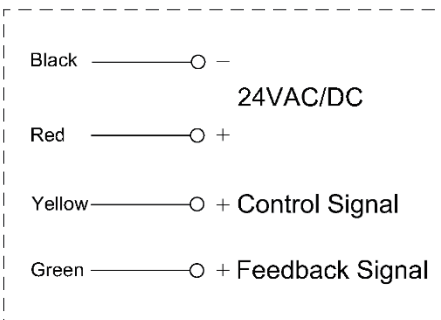
## Wiring Diagram

10N.m

Switch:

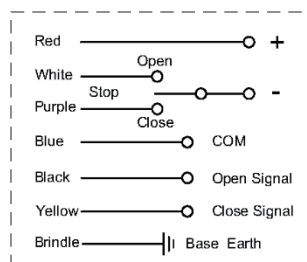


Proportional:

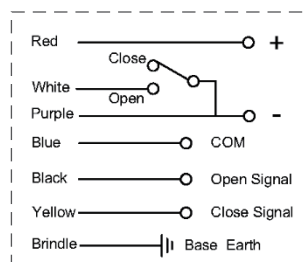


24N.m

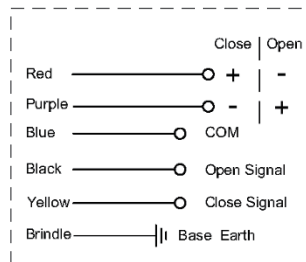
Switch:



Type1

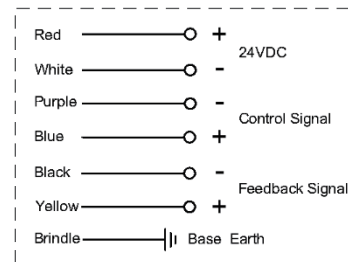


Type2

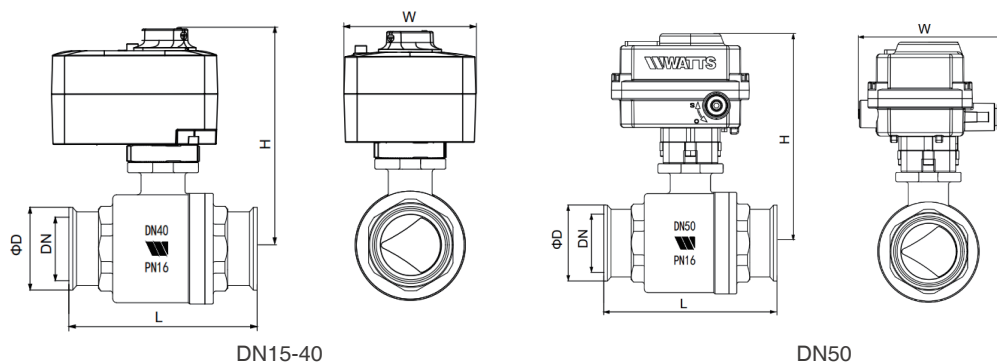


Type3

Proportional:



## Installation Dimensions



DN	D	L	W	H
15	50.5	95	80	131
20	50.5	109.5	80	140
25	50.5	112.5	80	144
32	50.5	120	80	151
40	50.5	132.5	80	154.5
50	64	146	80	176.2

## Installation Instruction

- The two-way control ball valve is recommended to be installed in the return pipe of the system to reduce the thermal stress on the valve.
- Use thread that meets the requirements for connection.
- Please note that the medium flow direction must be consistent with the arrow direction of the valve body during installation.
- The ball valve can be installed horizontally or vertically, but it cannot be installed upside down
- The product leaves the factory in a closed state.

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