Series W-ECBV-16Z (DN65-DN150)

Electric Control Ball Valve

Application

Series W-ECBV electric control ball valve is widely used to regulate the flow in center air-conditioning, heating, water treatment and industry processing systems. It is driven by the Series W-A12 rotary actuator. After receiving a standard regulation signal or a floating point signal, the actuator rotates the ball in the valve body to the designated opening position.

♦ Features

- Accurate equal percentage flow control characteristic achieved by its unique coned water inlet
- Concise structure of flow passage largely avoids blockage
- High flow capacity and low resistance loss
- No leakage by using double shaft seal
- Super silence design achieves quiet operation
- High shutoff pressure and high working pressure
- Equipped with manual lever and opening degree indicator



Series W-ECBV electric control ball valve is driven by the Series W-A12 rotary actuator. After receiving a standard regulation signal (0-10V or 4-20mA) or a floating point signal, the actuator rotates the ball in the valve body to the designated opening position. Because the flow area between the valve ball and the valve seat is increased / decreased by this rotation, the flow through the valve is regulated correspondingly. This is the valve's auto-control process.

◆ Technical specification

DimensionsDN65-DN150Working Temperature: $2 \sim 94^{\circ}C$ Working Pressure:PN16

Fluid Medium: Water, ≤ 50% Glycol Solution

Connection: Flange Connection **Connection Standard:** GB/T 9113.1-2000

Shutoff Pressure: 600KPa

Control Characteristic:Equal PercentageLeak Rate:Control Path ≤ 0.01% Kvs

Adjustment: Rotary Motion 90°

Material:

- Valve Body: Casting Iron HT250

- Valve Seat: PTFE

- Valve Ball: Stainless Steel 304- Valve Shaft: Stainless Steel 304

- Sealing: NBR

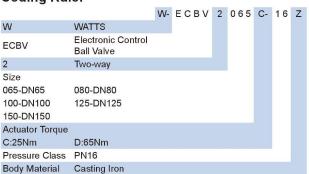
◆ Technical Parameters

Valve Type:

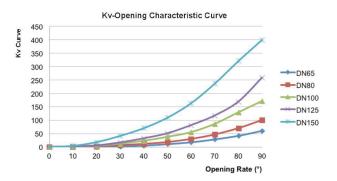
| Туре | Description | Size | Kvs | Actuator | | |
|-----------------|-------------|-------|-----|----------------|--|--|
| W-ECBV2065C-16Z | Two-way | DN65 | 64 | Series W-A12C | | |
| W-ECBV2080C-16Z | Two-way | DN80 | 102 | Series VV-A12C | | |
| W-ECBV2100D-16Z | Two-way | DN100 | 163 | | | |
| W-ECBV2125D-16Z | Two-way | DN125 | 260 | Series W-A12D | | |
| W-ECBV2150D-16Z | Two-way | DN150 | 416 | | | |



Coding Rule:

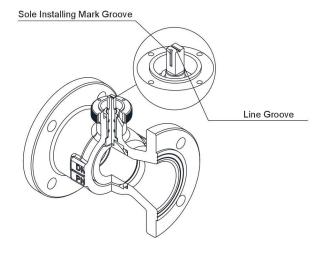


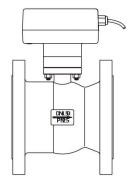
Kv- Opening Characteristic Curve:

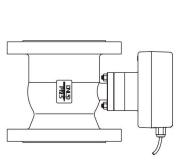


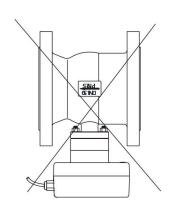
♦ Installation

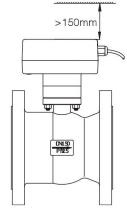
The actuator can be installed after the valve has been installed in the pipe. The line groove on the top of the valve stem stands for the direction of the valve ball's through hole. It allows users to know the opening degree of the inside valve ball conveniently. Moreover, when installing the actuator, the direction of the shaft pin in the actuator's square hole should be in the line with the direction of the sole installing mark groove on the valve stem, as illustrated in the following figure.



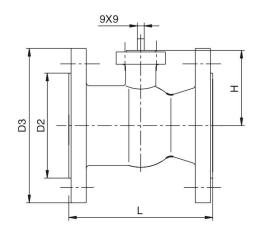


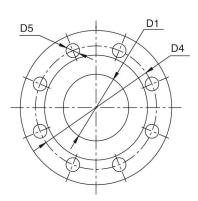






Installation Direction:





| Size | L(mm) | H(mm) | D1(mm) | D2(mm) | D3(mm) | D4(mm) | D5(mm) | S×S(mm) | No. of D5 | Bolt Thread |
|-------|-------|-------|--------|--------|--------|--------|--------|---------|-----------|-------------|
| DN65 | 190 | 98 | 82 | 120 | 185 | 145 | 18 | 9×9 | 4/8 | M16 |
| DN80 | 190 | 98 | 82 | 136 | 200 | 160 | 18 | 9×9 | 8 | M16 |
| DN100 | 230 | 108 | 102 | 156 | 220 | 180 | 18 | 9×9 | 8 | M16 |
| DN125 | 254 | 115 | 125 | 188 | 250 | 210 | 18 | 12×12 | 8 | M16 |
| DN150 | 267 | 133 | 154 | 210 | 285 | 240 | 22 | 12×12 | 8 | M20 |