Gentos Measurement & Control Co., Ltd.

pFlow

IoT Valve Actuator

VC200-W/VC201-W

WIFI

Mobile APP

Timing Control

Flow Control

Remote Control

IP Rating: IP65

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The information provided is for reference only. Specific parameters are subject to the instruction manual.
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Product Overview

With the rapid development of microelectronics and computer technology, providing technical guarantee for the intelligentization of electric valves. Gentos has newly researched and developed a cloud-controlled IoT valve actuator VC200-W/VC201-W, which is an innovative prod uct in the field of electric valve intelligence.

The products come with WIFI communication, users or customers can control the valve by mobile APP, which is great convenience for them to manage the water system.

Product Features

- Remote control by mobile APP
- WiFi communication
- IP Rating: IP65
- Timing control
- The valve can be adjusted 0-100% opening to control the flow rate

Applications

Farm Irrigation: Farm and gardening irrigation system flow control.
Household Water Management: Automatic garden & vegetable watering system control.
Building Water Management: Remote water & flow control management.
Aquaculture: Control the flow rate to meet various water demands for fish or shrimp.
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Control Modes

1. Valve Opening Control Mode:

Allows for valve closure (0%), full opening (100%), and percentage adjustment (0%~100%) of the corresponding ball valve. Percentage adjustment provides flexible control over the valve opening.

2. Timer Mode:

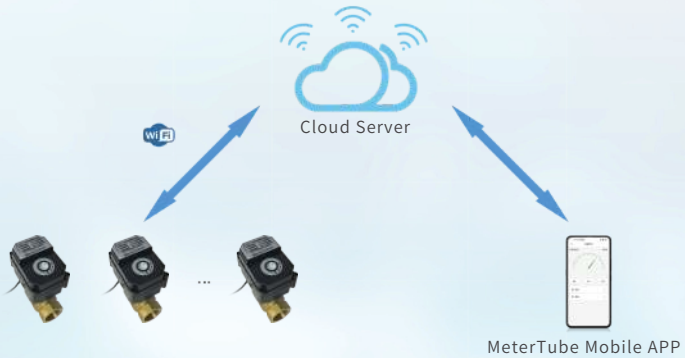
When the scheduled time runs out time, the valve will automatically close. When the valve opening time is reached, the valve will open to the corresponding position and remain open. When the valve closing time is reached, the valve will automatically close.

3. Power Failure Mode (VC201-W):

Allows selection of the valve's opening state during a power failure, whether it remains closed, open, or maintains its current state.

Cloud Server

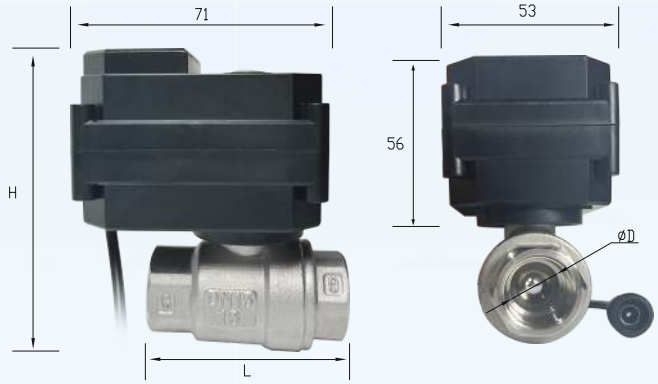
IoT valve actuator use WiFi communication technology to achieve remote monitoring and control by connecting to the Internet through a wireless router. This communication method allows users to conveniently monitor and control via a mobile app. Users can simultaneously monitor and control the status and operations of multiple IoT valve actuators.



Comparison Table

Model	Category	Communication	Functions
VC200-W	VC200 (Standard)	WiFi	Timing, Valve Adjustment, MeterTube APP Control
VC201-W	VC201 (Standard + Power Failure Mode Control)	WiFi	Timing, Valve Adjustment, MeterTube APP Control Power Failure Mode Control

Product Specification (Unit: mm)



*Note: H/L/D refers to valve body materials and caliber specifications, with a tolerance of ±1mm.

Product Model

Format of type selection: IoT Valve Actuator; Model: A-B

Model	Description
IoT Valve Actuator	Applicable Medium: Water
	Power Supply Voltage: DC5V
	Maximum Power: 3W
	Output Torque: 2Nm
	IP Rating: IP65
	Output: WiFi
	MeterTube: Available
	Operating Pressure: ⩽1.0MPa
	Controller Operation: Remote control via MeterTube mobile APP
	Connection Method: 2-Way internal thread G
	Medium Temperature: ⩽100°C

Specifications

A	Function selection
1	VC200-W: Timing, Valve Adjustment, MeterTube APP Control
2	VC201-W: Timing, Valve Adjustment, MeterTube APP Control, Power Failure Mode Control

B	Valve body material and caliber specifications					
	Material	Caliber	Interface Type	D	L	H
1	Stainless Steel	DN15	2-Way internal thread G1/2	G1/2"	63	93
		DN20	2-Way internal thread G3/4	G3/4"	66	100
		DN25	2-Way internal thread G1	G1"	89	110
2	Copper	DN15	2-Way internal thread G1/2	G1/2"	60	96
		DN20	2-Way internal thread G3/4	G3/4"	67	102
		DN25	2-Way internal thread G1	G1"	74	109
		DN32	2-Way internal thread $G1^{1/4}$	$G1^{1/4}$"	86	117

Selection Sample: IoT Valve Actuator, Specification: 1-1-DN15

Description: Model VC200-W with Timing, Valve Adjustment, MeterTube APP Control, Stainless Steel Pipe, for Caliber Size DN15.