



Fluid Control Instrument Series



Sanitary Vortex Flowmeter

SV23

Product Technical Specification | July 2026

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Product Overview

The SV23 sanitary vortex flowmeter is designed for food, pharmaceutical, and purified water applications. It uses a tri-clamp quick-connect design with smooth, crevice-free surfaces to prevent media residue. Accuracy is $\pm 1.0\%$ for liquid and $\pm 1.5\%$ for gas, with sizes from DN15 to DN65 and medium temperatures from -40 to 250°C (extended to 350°C). Supports 4-20mA, pulse, HART, and Modbus outputs, suitable for CIP/SIP cleaning processes.

- Sanitary
- Tri-Clamp
- DN15-DN65
- Food/Pharma
- CIP/SIP

Key Features



Sanitary Design

Tri-clamp quick connect with smooth, crevice-free surfaces to prevent residue.



Quick-Connect Easy Cleaning

Easy disassembly, cleaning, and sterilization for CIP/SIP processes.



Liquid/Gas Measurement

$\pm 1.0\%$ liquid, $\pm 1.5\%$ gas accuracy.



Multi-Protocol Output

4-20mA/pulse/HART/Modbus options.



High Temperature

Standard -40 to 250°C ; extended to 350°C .



Protection

IP65/IP67/IP68 for field environments.

Technical Specifications

Parameter	Specification
Model	SV23
Principle	Karman vortex shedding
Media	Liquid, gas, steam
Accuracy	Liquid $\pm 1.0\%$; Gas $\pm 1.5\%$
Repeatability	Liquid $\pm 0.33\%$; Gas $\pm 0.5\%$
Medium Temperature	Standard -40 to 250°C ; Extended -40 to 350°C
Turndown	10:1
Size Range	DN15 to DN65
Pressure	1.0 MPa / Other
Flow Velocity	Gas 5-70 m/s; Liquid 0.5-7 m/s
Wetted Material	304/316L SS
Connection Material	304 / 316 / 316L
Probe	316L SS
Support Rod	304 SS
Heat Sink	Aluminum alloy
Mounting	Tri-clamp

Protection	IP65 / IP67 / IP68
Power	24VDC (18-30V)
Output	4-20mA / Digital pulse
Communication	HART / Modbus
Electrical Connection	M20x1.5 / 1/2-14NPT
Hazardous	Non-Ex / Intrinsically Safe / Ex-d
Construction	Compact / Remote
Ambient Temp.	With LCD -10 to 60°C; Without LCD -20 to 60°C
Relative Humidity	5% to 90%
Maintenance	Tri-clamp design for easy cleaning and sterilization

Typical Applications

- ▶ Food and beverage filling line flow
- ▶ Pharmaceutical process water/steam
- ▶ Traditional medicine extraction flow monitoring
- ▶ CIP/SIP cleaning system flow
- ▶ Biotech fermentation flow monitoring

Ordering Guide

Product Code	Description
SV23	Tri-clamp sensor + transmitter (compact/remote)

Accessories/Consumables

Accessory	Specification	Note
Clamp Gasket	FKM/PTFE	Standard
Quick Clamp	SS	Standard
Ground Ring	-	Optional

Why Choose Jiuyuhub

**Application-First Matching**
Recommendations based on your operating conditions.

**Southeast Asia Adapted**
Optimized for tropical environments.

**One-Stop Supply**
Water quality + fluid control + flow measurement.

**24-Hour Response**
Fast response to inquiries.

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