

# RVFS

## FLOW SWITCH



RVFS1001



RVFS1061

### INTRODUCTION

The RVFS Series Liquid Flow Switch is designed to monitor changes in liquid flow within pipelines, suitable for applications involving water, glycol, or other non-hazardous fluids.

When the flow rate exceeds or falls below a preset threshold, the integrated SPDT (Single Pole Double Throw) switch contact activates—closing one circuit while simultaneously opening another.

This flow switch is widely used in applications requiring flow detection, system control, and no-flow (dry run) protection, ensuring operational safety and reliability of HVAC and fluid handling systems.

### FEATURES

- **Wide Operating Pressure Range:** Suitable for liquid pressures up to 1 MPa, offering broad application flexibility.
- **Adjustable Stainless Steel Paddle:** Equipped with a three-section stainless steel paddle, designed for pipe diameters ranging from 25–75 mm. The paddle can be trimmed or sections removed to suit specific application requirements.
- **Extended Application Capability:** The RVFS Series includes an additional 6" paddle, enabling use in larger pipelines of 100–150 mm diameter.
- **Adjustable Set Point:** The switching point is fully adjustable, allowing users to fine-tune the flow setting according to system requirements.
- **Sealed Enclosure Design (RVFS1061):** The RVFS1061 model features a fully enclosed housing, providing effective protection against dust and moisture (minor condensation may occur).
- **Reliable Electrical Safety:** The RVFS1061 series switch assembly is fully sealed, ensuring safe operation and preventing leakage risks even in the presence of slight condensation.
- **User-Friendly Wiring:** The RVFS1001 and RVFS1061 series offer spacious wiring compartments for easy installation.
- **Optional Stainless Steel Connection (Ammonia Compatible):** The RVFS1001 / RVFS1061 series can be supplied with stainless steel connections suitable for ammonia-based media. Specify by adding "S" to the model number (e.g., RVFS1061S).

### FLOW REQUIRED FOR SWITCH ACTUATION

Pipe Diameter		25	32	40	50	65	80	100	125	150	200	100*	125*	150*	200*
Minimum Adjustable Setting	Flow Increase (Red–Blue Contacts Closed)	0.95	1.32	1.7	3.11	4.09	6.24	14.8	28.4	43.2	85.2	8.4	12.9	16.8	46.6
	Flow Decrease (Red–Yellow Contacts Closed)	0.57	0.84	1.14	2.16	2.84	4.32	11.4	22.9	35.9	72.7	6.13	9.31	12.26	38.6
Maximum Adjustable Setting	Flow Increase (Red–Blue Contacts Closed)	2.0	3.02	4.36	6.6	7.84	12	29.1	55.6	85.2	172.6	13.4	26.8	32.7	94.26
	Flow Decrease (Red–Yellow Contacts Closed)	1.93	2.84	4.09	6.13	7.23	11.4	27.7	53.4	81.8	165.8	17.3	25.21	30.66	90.85

- THE ABOVE FLOW VALUES ARE FOR REFERENCE AND SELECTION PURPOSES ONLY.
- VALUES MARKED WITH (\*) INDICATE PERFORMANCE WITH ALL FOUR PADDLE SECTIONS INSTALLED; UNMARKED VALUES CORRESPOND TO THREE PADDLE SECTIONS.
- THE MGS FLOW SWITCH ALLOWS SELECTION AND CONFIGURATION OF DIFFERENT PADDLE LENGTHS BASED ON THE PIPELINE FLOW VELOCITY AND INSTALLATION CONDITIONS.