

For Commercial and Industrial Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series FS-200-W and FS-204-W Flow Switch

Sizes: For pipes 1" - 6"

Series FS-200-W and FS-204-W Flow Switches provides accurate monitoring of liquid flow in pipelines servicing water systems, heating systems, air conditioning, and processing installations for industrial and commercial applications. The flow switches are designed to act as an automatic control or safety devices for liquid flow. The single-pole, double-throw switch can be wired to start or stop a motor when a flow or no flow condition exists or to activate an alarm when flow is inadequate. The switch then turns off the alarm when adequate flow is restored.

Features

- EPDM Seal for Superior Performance over Mechanical Bellows
- Universal Design – Replaces Flow Switches by McDonnell Miller, Penn, Taco, Potter and others
- Single Pole Double Throw Switch for Operating Signal Devices, Motors, Alarms, Metering Devices and Heating Units
- Four Heavy Duty Stainless Steel Paddles
- Two $\frac{7}{8}$ " Electrical Knock-Outs for $\frac{1}{2}$ " Conduit
- For Use on 1" to 6" Diameter Pipe
- 1" NPT Pipe Connection

Models

FS-200-W general purposes

FS-204-W wet locations

Standards



Underwriter's Laboratories Listed U.S.A. No. 11S1

Pressure-Temperature

Maximum Service Pressure: 160 psi

Maximum Temperature: 250°F (121°C)

Minimum Fluid Temperature: 33°F (0.5°C)



FS-200-W

Materials

Enclosure:	FS-200-W: NEMA 1 – General Purpose FS-204-W: NEMA 4 – Wet Locations
Control Chassis Material:	FS-200-W: 13 gauge galvanized steel FS-204-W: Anodized cast aluminum
Control Cover Material:	FS-200-W: 16 gauge powder coated steel FS-204-W: Powder coated cast aluminum
Contacts:	SPDT switch 7.4 FLA, 44.4 LRA @120VAC Motor Duty
Pilot Duty Rating:	125VA@120/240VAC
Usage:	1" to 6" pipe sizes (see Flow Chart)

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



Flow Rates

FLOW RATES Required to Actuate the No. FS-200-W and FS-204-W Flow Switch in Horizontal Pipe. Flow rates in U.S. gallons per minute (GPM). Velocity in feet per second (FPS).

		FLOW SPECIFICATIONS								
		Pipe Size								
		1"	1¼"	1½"	2"	2½"	3"	4"	5"	6"
Minimum ADJUSTMENT	FLOW INCREASES	4.5	8.1	11.8	16.5	25	33	51	85*	120*
	FLOW DECREASES	2.2	6.8	7.6	9.3	19	22	38	75*	100*
Maximum ADJUSTMENT	FLOW INCREASES	14.8	22.1	25.7	32.3	75	90*	110*	170*	240*
	FLOW DECREASES	13.8	20.1	23.7	30.5	72	85*	100*	155*	220*

*Calculated for various pipe sizes. Flow rates may vary $\pm 10\%$ from values above.



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