

WFS8000 Series Flow Switch

Description

WFS series flow switch is used for operational control aiming to prevent control failure which may cause damage to equipment and hazard to operators. It improves safety by setting control limit, alarm and report to monitoring system.

WFS series flow switch can be applied to water or other liquid which will not corrode copper.

WFS series flow switch provides single pole double throw (SPDT) output with high accuracy and reliability. When the liquid flow rate reaches above or below the set point, one circuit will be closed and the other will be open. It is typically used in situation involving interlocking or close-off protection.

WFS flow switch can be mounted horizontally or vertically on pipe where there needs a clearance of 5 times the pipe diameter on both ends of the flow switch so to maintain a laminar flow for accurate operation. It can be mounted outdoors with rain shelter.

Note: WFS series flow switch is not subject to water hammer. If a rapid close-off valve or device is installed in the downstream, there need to install a flow limiting valve or device.



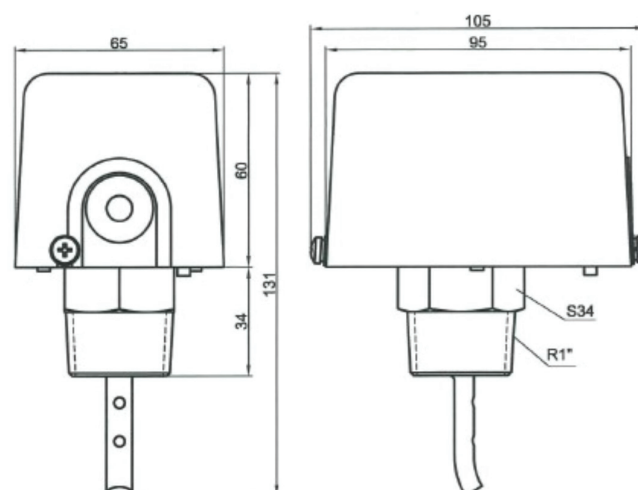
Model No.	Operating Pressure	Withstand Pressure
WFS-8001-H	1 MPa	1.75MPa
WFS-8002-H	2 MPa	3.2MPa

Electrical

Type	Voltage	Resistance Load	Motor Stall Current	Motor Load
AC	125V	5A	44A	5A
	250V	2.5A	22A	2.5A
DC	115V	0.3A		
	230V	0.15A		

Technical Specifications

Insulation resistance	>100 Ω , DC500VM
Maximum withstand voltage	AC1500V/minute
Contact point life time	1,000,000 cycles
Bellows service life	500,000 cycles
Maximum allowable flow rate	3m/sec.
Medium temperature	-20°C~110°C
Operating temperature	-20°C~60°C
Paddle material	Stainless steel
Protection class	IP54



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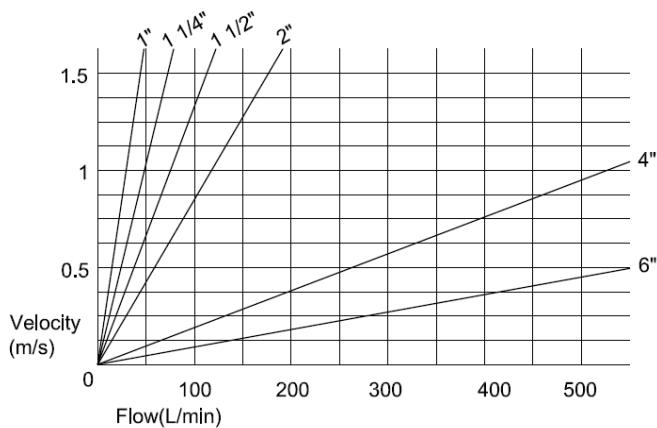
Flow Rates

DN	1"	1-1/4"	1-1/2"	2"	4"	6"	8"	10"	12"	14"	16"	18"	20"
Flow (LPM)	15	26	29	34.5	74.9	149.9	313.33	508.33	750	1083.33	1416.67	1900	2383.33
Paddles	1#	1#	2#	2#+3#	2#+3# +4#	2#+3# +4#+5#	2#+3# +4#+5#	2#+3# +4#+5#	2#+3# +4#+5#	2#+3# +4#+5#	2#+3# +4#+5#	2#+3# +4#+5#	2#+3# +4#+5#

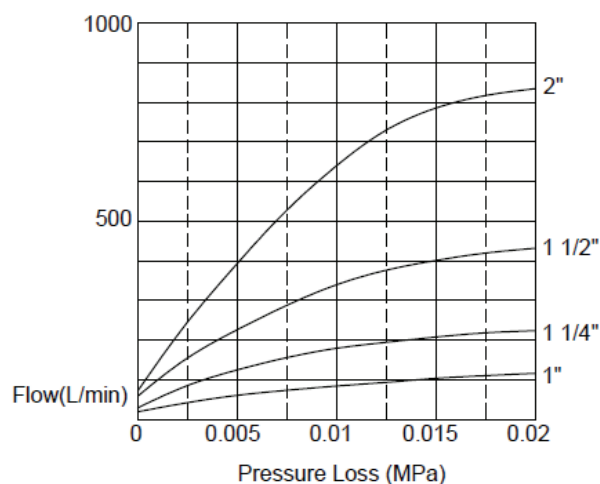


Note: The flow rates are factory setting. It can be set by adjust the setting knob and measure with a flow meter.

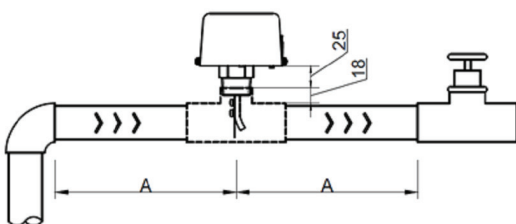
Velocity Diagram



Pressure Loss Diagram



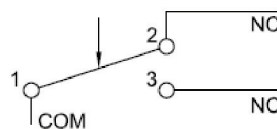
Installation notes



During installation, there must be a straight pipe section on both ends of the flow switch with a length marked "A", with "A" being 5 times the pipe's diameter.

Contact points 1-2 close when the flow increases

Contact points 1-3 close when the flow decreases



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