

## Principle and structure

This Paddle Flow Controller is developed by LAMP engineer on the basis of analyzing and researching the disadvantages of other paddle flow switch in market. It with compact size, excellent performance. Compared with traditional target paddle flow switch, its performance is higher. Adopts plug-in mounting, mechanical type and micro switch.

## Features

With very low pressure loss, good repeatability, dirt-resistant performance. The precise setting can be achieved by knob. Hermetic separation of electrical and hydraulic components. Not contain bellows, reed switch do not touch with metal parts, so the rust resulted from condensation water can be effectively avoided. Various models can meet different requirement. Imported micro switch can load heavy current, which can avoid the fault resulted from 2-in reed switch. It is the best choice of central air conditioner and industrial flow control for flow protection.

## Application

gaseous/liquid

it is mainly applicable to industrial automation/mechanical/electrical/air compressing industry/refrigeration and air-conditioner/water-cool welding machine/cooling system of laser equipment/vacuum coating machine/electric stove/silicon polycrystal ingot furnace. The magnet not contact with flowing water, so can normally work in sewage discharging system.

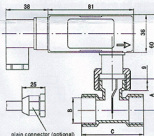
## Technical Data

DN	model	adjustable range l/min (water)	A	B	C
			mm	mm	mm
		<b>flow range</b>			
DN10	WFS22010BA	4.4(3.75)~9.5(5.1)	26	03/8	58
DN15	WFS22015BA	4.4(3.75)~9.5(5.1)	26	01/2	58
DN20	WFS22020BA	9.4(8.0)~12.8(7.8)	26	03/4	58
DN25	WFS22025BA	14.7(12.3)~19.9(16.5)	34	01	58
DN32	WFS22032BA	24.1(20.8)~32.7(27.8)	34	01-1/4	72
DN40	WFS22040BA	37.9(30.1)~51.0(43.4)	34	01-1/2	72
DN50	WFS22050BA	58.0(50.1)~76.0(67.8)	46	02	72

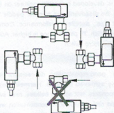
Notes: The figure out brackets indicates operating point. The figure between brackets indicates reset point.

## Technical parameters

- △Voltage: Max 250V (no status light)  
Max 240V±10% (with status light)
- △Max. current: 5A
- △Wiring connection: DIN 43650A plug/ attached cable  
for optional
- △Output: SPDT micro switch, one or two output  
and status light for optional
- △Pressure: 25bar. (If special, can be custom-made.)
- △Average pressure loss: 0.01bar at Max. flow
- △Temperature: -20~90°C
- △Protection class: IP65
- △Material: Housing: brass nickel-plated  
Paddle: stainless steel  
Seat: PTFE  
Electrical shell: ABS



## Mounting position



## Metering substances



Note: if special, please indicate with your order.

## Nomenclature

WFS22 020 B A 1A 010 /1M

WFS22

010

015

020

025

032

040

050

B

A

1A

2A

010

...

/1M

...

## Specification

WFS22 series paddle flow Controller

Nominal diameter G3/8 (T-fitting size)

Nominal diameter G1/2 (T-fitting size)

Nominal diameter G3/4 (T-fitting size)

Nominal diameter G1 (T-fitting size)

Nominal diameter G1 1/4 (T-fitting size)

Nominal diameter G1 1/2 (T-fitting size)

Nominal diameter G2 (T-fitting size)

Housing: Brass nickel-plated

Connection: Female thread T-fitting

Wiring connection: DIN 43650, the letter indicate the wiring connection, see the wiring schematic drawing

Wiring connection: plain connector, the letter indicate the mode of connection, see the wiring schematic drawing

Max. setting range, L/min, Please see Technical Data

...

Cable length: DIN43850 plug, no this item

...

## Important for your order

- Please indicate flow direction, metering substance, nominal size and setting range with your order. We can help you to set before the product leaving the factory.

- With viscous liquids, please indicate viscosity, temperature and metering substance.

- With gaseous media indicate pressure (relative or absolute), temperature and metering substance.

## Connection types for optional



female thread T-fitting  
brass  
stainless steel



male thread T-fitting  
brass  
stainless steel



welding, soldering/ glue socket  
brass  
stainless steel  
PVC



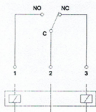
solder fitting  
red copper



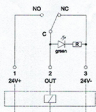
glue fitting  
PVC

# Paddle Flow Controller WFS22 Series wiring diagram

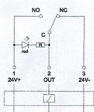
Wiring schematic drawing(DIN 43550connector)



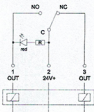
Conventional wiring schematic drawing  
A



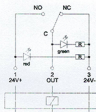
switch closed wiring schematic drawing  
B



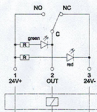
switch open wiring schematic drawing  
C



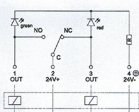
switch open wiring schematic drawing  
D



Switch closed and power supply indicating wiring schematic drawing  
E



Switch open and power supply indicating wiring schematic drawing  
F



Switch open and closed wiring schematic drawing  
G

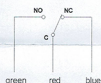
Wiring schematic drawing(plain connector)



N/O wiring schematic drawing  
A



N/C wiring schematic drawing  
B



N/O and N/C wiring schematic drawing  
C