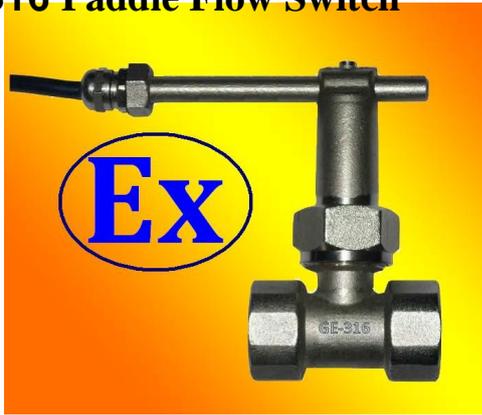


GE-316 Paddle Flow Switch



GE-316 Paddle Flow Switch is specially designed for the Flow Monitoring of Water Source, Water-Loop Heat Pump Air Conditioning Systems and Heat Pump Water Heater.

Due to the unnecessary loss caused by the abnormal high pressure protection failure or compressor failure, as the Water-Source Heat Pump System meet a sudden disruption of water flows (such as cooling water pumps stop by the accident, the water solenoid valve of air conditioner suddenly shut down, or other sudden water interception). When heating, the heat exchanger frozen because of the sudden water interception.

Specification

1. Good repeatability
2. Low pressure loss
3. Dirt resistant
4. Hermetic separation of electrical and hydraulic components
5. Stress free fixation of switch unit by plastic cap

Character

Type	GE-316 Series
Max Voltage	250VAC
Max Current	1A (50VA)
Output	SPST BMF (N.O or N.C could be changed on working site)
Max Static Pressure	25 bar
Work Medium	Water, Oil, Gas (if other special material, please declare ahead of time)
Work Temperature	-30°C~110°C
Press Loss	0.01bar (Max Flow Rate)
Protection Grade	IP65
Cable	0.75mm ² ×2psc×1000mm

Install

The best position of paddle flow switch should be between the **water outlet port of pump** and **water outlet port of equipment**, not install at the water inlet of pump. If not comply with this rule, the pump will not pump water normally, flow switch could not work too. The paddle flow switch could be installed horizontally (plastic part should be above) and vertically. As the below diagram:

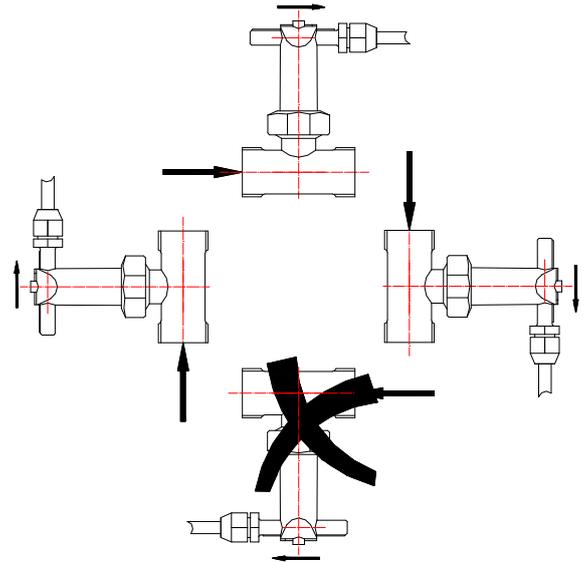


Fig 1 Install Position



When installing, please pay attention to the flow direction, the water must flow the same direction as the arrows, which is marked in the copper body.



Fig 2 The Flow Arrows in the Copper Body

In water source heat pump and heat pump water heater, we advise the position in the outlet of heat exchanger. As the below diagram:

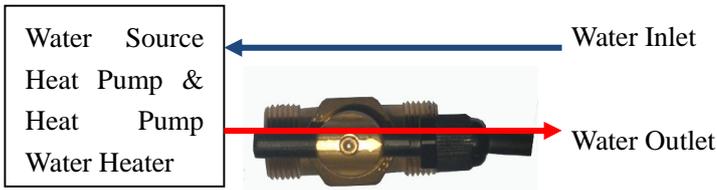


Fig 4 Electric Output & Adjust Flow

Electric Output & Adjust Flow

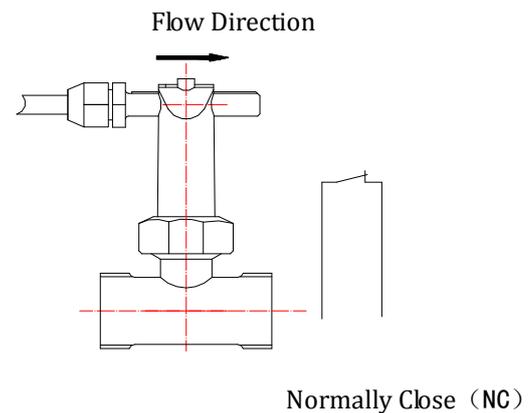
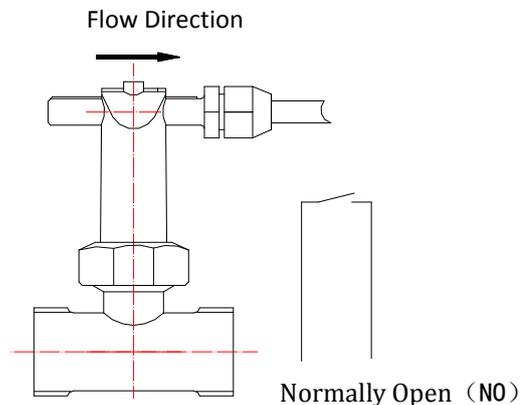
Paddle flow switch could output No Source Dry Contact by N.O or N.C. If user need to adjust on work site, could screw off M3 fastening screw, pull out the signal pole carefully, then insert the **signal pole** in the negative direction.



When screw on the M3 fastening screw carefully, not over exert, if not careful, maybe damage the BMF.

Usually, the flow value have been calibrated in the factory, the value will be marked at the label, the M3 fastening screw will be covered by glue. If necessary, have to change, just **move** the cover Glue, **screw off the M3 fastening screw, by adjusting the signal pole** (BMF inside) to change the value.

If user need strict value, have to calibrate the value in the test desk with flowmeter, if not strict, just use multimeter, use the type to measure resistance, to test the ON or OFF of the switch, by pushing the paddle with standard water flow, or use your finger to imitate the flow. After adjustment, screw on the M3 fastening screw carefully, not over exert, if not careful, maybe damage the BMF.



Adjust the Setpoint

Adjust N.O

N.O means, when no flow or low flow, the switch is off, when the single pole move as the same direction of flow, the setpoint will be add value, if in negative direction, value will be reduced.

Adjust N.C

N.C means, when no flow or low flow, the switch is close. when the single pole move as the same direction of flow, the setpoint will be add value, if in negative direction, value will be reduced.

The Output normal open (SPST, N.O, Water flow with the same direction of cable) Or Normally Close (SPST, N.C, Water flow with the negative direction of cable) As Fig 4.

If any more question, please contact us,

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