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# Paddle Flow Switches

## ● Instruction

The BFS 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.

After investigated most current manufacturers of water source heat pump, our company did not equip common flow switch because of its high price but low reliability, but developed this Series, the low cost but high reliable paddle water flow switch, equipped with imported magnetic sensitive switch, which could provide a three-year guarantee, which solved the anxiety of manufacturer especially. It is the first choice of flow protection of water source heat pump air conditioner.

## ● GENERAL CHARACTERISTICS

Instruments operate by a spring-supported paddel with magnetic triggering of a reed switch.

- **Tolerance**  $\pm 15\%$  of full scale
- **Media Temperature**  $-30\sim 110^{\circ}\text{C}$
- **Average Pressure Loss** 0.01bar at Qmax.
- **Hysteresis** depending on switch value  
minimum 0.7 l/min.
- **Metering Substances** Oil, Water, Gas, Air  
(If special substances, please declare)
- **Max Pressure** 25bar  
(40bar could be custom-made)
- **Pipe Size** DN10~DN80
- **Materials** Brass or Stainless Steel



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- Good repeatability
  - Low pressure loss
  - Dirt resistant
  - Hermetic separation of electrical and hydraulic components
  - Stress free fixation of switch unit by plastic cap

