PRODUCT MANUAL

Flow switch

Model: HFS / F61KB / FQS / LKB-01D



CATEGORY	MODEL	ISSUE DATE
Pumps & Flow Switches	**HFS / F61KB / FQS / LKB-01D**	**2026-11-22**

1. Product Overview

A flow switch proves that water is actually moving through a chiller or a fan coil before the compressor or the control sequence is allowed to run. It is a safety device first and a control device second: without it, a blocked strainer, a failed pump or a closed valve leads to a frozen evaporator, and that is a repair measured in thousands rather than in the price of a switch.

The range covers three connection sizes - 1/2, 3/4 and 1 inch - in the HFS, F61KB, FQS and LKB-01D families. Paddle sets are supplied with each switch (one to five paddles depending on model) so the same body can be set for different pipe diameters: the paddle has to reach the flow stream without touching the far wall.

Fluid temperature is rated to +120 C, maximum working pressure is 1.0 to 1.7 MPa depending on model, and the standard enclosure is IP54, with the F61KB-11C using a HEMA1 housing. The switches are adjustable, so the trip point can be set to the actual flow rather than to a factory value.

Selection is by pipe size and by the minimum flow that must be proved - not by the nominal pipe diameter alone, because flow switches trip on velocity and the same switch behaves differently at the bottom of a wide pipe.

Two rules from the field. First, these switches must not be used where the liquid can drop below freezing: ice will damage the paddle and give a false "flow" reading. Second, mount the switch in a straight run with the arrow following flow, at least five diameters downstream of any elbow or valve, or the paddle will sit in turbulence and chatter.

2. Key Features

- Flow rate is adjustable and remains stable
- For water and liquid lines of chillers and fan coil units
- Must not be used where liquid can drop below its freezing point
- Paddle sizes supplied for different pipe diameters

3. Technical Specifications

Item	Specification
Model range	HFS-25/20/15, F61KB-11C, FQS-U30G, LKB-01D-25/20/15
Connection size	1/2", 3/4", 1"
Fluid temperature	0 ~ +120 °C
Max. working pressure	1.0 – 1.7 MPa (10 bar nominal)
Protection class	IP54 (HEMA1 for F61KB-11C)
Paddle qty	1 – 5 pcs per set

4. Commercial Terms

MINIMUM ORDER	**Negotiable**
LEAD TIME	**Negotiable**
SHIPPING PORT	**Shanghai / Ningbo, China**
PLACE OF ORIGIN	**China**
PAYMENT TERMS	**T/T, L/C**
SUPPLY ABILITY	**Negotiable**

Contact us for a free quotation

Our engineering team replies within 24 hours with selection advice and an FOB / CIF quotation.



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