

## Overview

The **LFS22** Series Liquid Flow Switch is designed to monitor and respond to flow variations in pipelines carrying water, ethylene glycol, or other non-hazardous liquids. When the liquid flow exceeds or falls below the preset threshold, the switch activates its single-pole double-throw (SPDT) contacts, closing one circuit while simultaneously opening the other. The LFS22 Series Liquid Flow Switch is commonly used for chain reaction control or as a "no-flow" safety cutoff.

## Features

- **Max Pressure:** 1 MPa
- **Compatible Liquids:** Water, ethylene glycol, and other non-hazardous fluids
- **Adjustable Design:**
  1. Standard 3 stainless steel paddles for 25–75mm pipes
  2. Customizable paddle number/length
  3. Optional 6" paddle for 100–150mm pipes
- **Adjustable flow setting**
- **Typical Applications:**
  - Chain reaction control
  - No-flow protection

## Application

Protects cooling systems by cutting power to the compressor when water flow stops, preventing equipment damage.

## LFS22

### liquid flow switch



## Specifications

## series liquid flow switch

		Actuate flow (m <sup>3</sup> /h)													
Pipe Diameter(mm)		25	32	40	50	65	80	100	125	150	200	100*	125*	150*	200*
Min Adjustment	Flow increase (red blue closed)	0.95	1.32	1.7	3.11	4.09	6.24	14.8	28.4	43.2	85.2	8.4	12.9	16.8	46.6
	Flow decrease (red yellow closed)	0.57	0.84	1.14	2.16	2.84	4.32	11.4m	22.9	35.9	72.7	6.13	9.31	12.3	38.6
Max Adjustment	Flow increase (red blue closed)	2	3.02	4.36	6.6	7.84	12	29.1	55.6	85.2	173	13.4	26.8	32.7	94.3
	Flow decrease (red yellow closed)	1.93	2.84	4.09	6.13	7.23	11.4	27.7	35.4	81.8	166	17.3	25.2	30.7	90.9

- Above flow values are for the reference of choice
- The figures with "\*" symbol are for the 4 paddles flow switch. While, the figures without "\*" symbol are for the 3 paddles (1, 2, 3) flow switch.
- The paddles will be chose according to the flow in the main pipe where the flow switch is installed in.

## Performance Parameter

Electric load:- AC250V 10A

Max working pressure:- 10.34Bar

Flow temperature:- 0-120°C

Environment temperature:- 0-60°C

The endurance of bellows:- 500000 cycles

Ingress protection:- IP53

## The paddle trimming figure



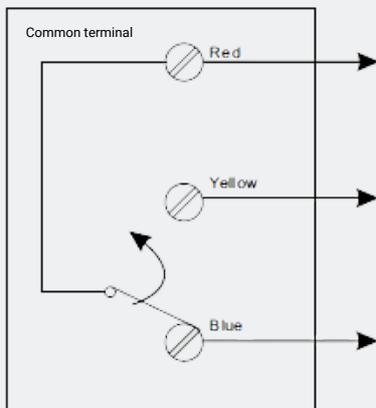
- the paddles with "\*" symbol are installed in factory
- the paddle with "Δ" symbol is the additional paddle.(not installed)
- the balance paddles are for trimming
- when install the trimmed paddles, the end of paddle should keep 5–10mm distance from the pipe end and no friction with the pipe

**Selection Code**

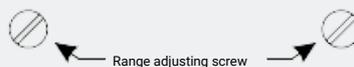
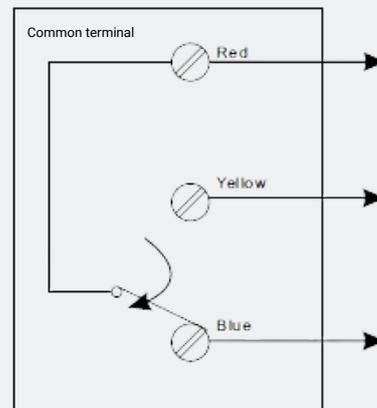
Code and description		Remark
LFS22	liquid flow switch	Model
1	1"NPT	Connection size
2	1/2"NPT	
3	3/4"NPT	
1	Brass ( for water or other liquids suitable for brass)	Connection Material
2	Stainless steel (for ammonia and other liquids suitable for stainless steel)	

**Wiring diagram**

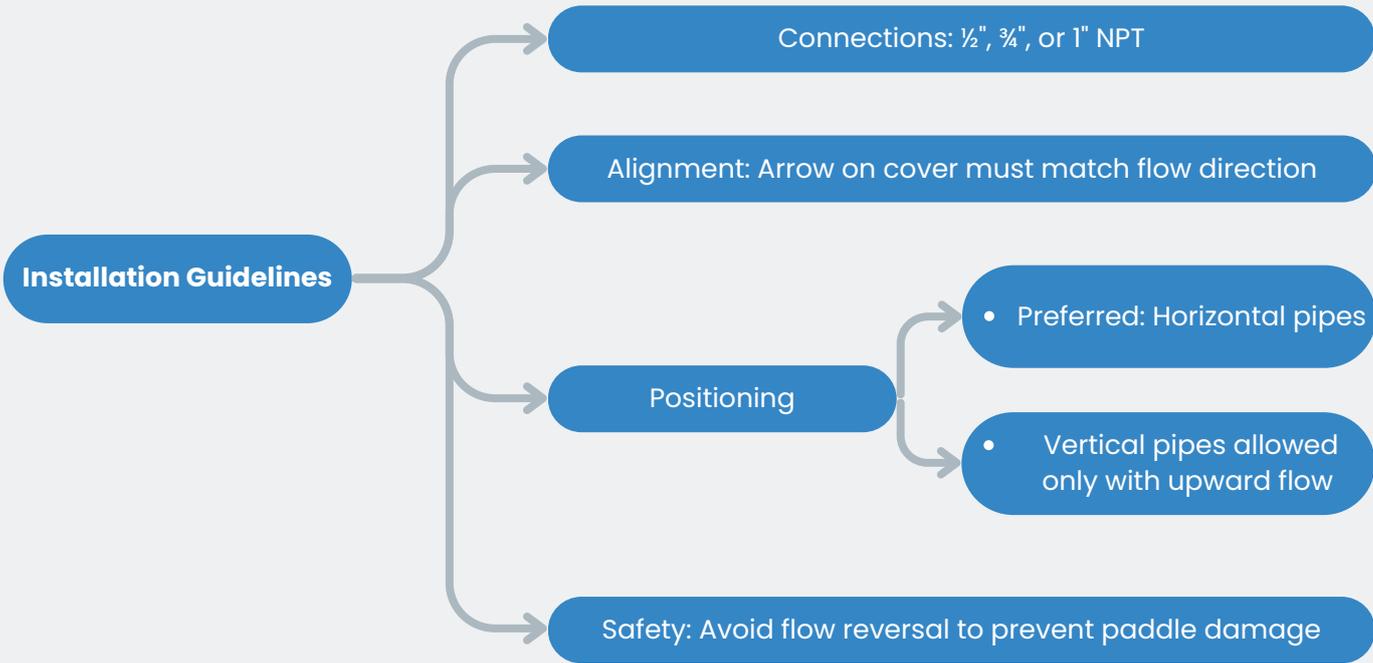
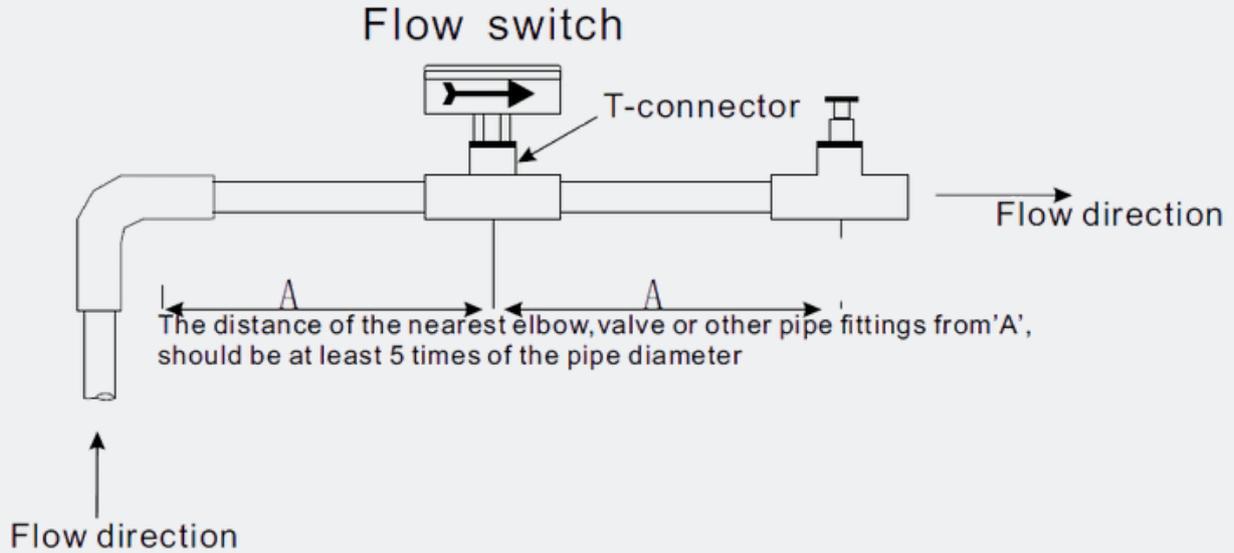
Switch actuate, when the flow increasing and exceed the setting value



Switch actuate, when the flow decreasing and exceed the setting value



**Typical installation drawing**



Despite all attempts to guarantee accuracy in this specification, NeoWave cannot be held liable for any damage injury, loss, or expense due to errors or omissions. Product specification and design might change without prior notice in pursuit of technical enhancements.

**For technical support please contact: [support@neowave.tech](mailto:support@neowave.tech)**