

# SVK-200 系列振杆式物位开关

## SVK-200 SERIES VIBRATING LEVEL SWITCH

### 概述 INTRODUCTION

振杆式物位开关是一种新颖的物位控制器，适用于对各种容器内的液体、混合液、粘性体的液位控制以及油和水等界面控制和粉末体、颗粒体的料位控制和报警。仪表的光滑圆形探头，能有效防止夹料和粘料；在挂料较多的情况下，仍能稳定工作；仪表不受被测物料电性质的影响，安装后无须调整，即可稳定投入使用；仪表采用15A大容量接点继电器开关，可直接实行对电动机控制。

Vibrating level switch is a kind of new style switch, and be used to level control or alarm for liquids, mixed liquids, viscous liquids and oil/water interfaces, as well as powder and granular. The polished round probe can effectively prevent product building up and adhering. When buildup is quite more, the instrument still operate stably. And the instrument is not effected by measured medium electric properties, and can work well directly dispensing with adjustment after installation. A 15A large capacity contact relay is used to control electromotor directly.

### 主要技术参数

#### MAIN TECHNICAL PARAMETER

电 源 power supply: 220V/105V AC50/60Hz

消耗功率 power consumption: 2VA

振动频率 vibrating frequency: 280Hz

工作压力 operating pressure: 2MPa

工作温度 operating temperature:

探头部分probe: -30~150℃

电子部分electrics: -30~70℃

探头长度 probe length:

SVK-210 标准型standard: 189mm

SVK-220 加长型extended: 250~5000mm

接点容量 contact capacity: 250V 10A AC, 30V 5A DC

延迟时间 delayed time:

测出(由振动到停止)act: 0.5s

复原(由停止到振动)recover: 1s

开关功能 switch function: 常开NO或常闭NC

材 质 material: 探头probe: 0Cr18Ni9(304)

控制盒control box: ADC (表面喷塑)



安装形式 connecting mode:

螺纹thread: 3/2" NPT, R3/2" (PT3/2)

法兰flange: DN25, PN1.0或PN2.5, 凸面

### 结构原理 STRUCTURE PRINCIPLE

振杆式物位控制器由振动杆组件和电子线路组件组成。仪表运用音叉的“共振”原理，振动杆和内置的振动棒构成280Hz振频的“音叉”共振探头，在压电元件的驱动下，发生振动。当探头触及被测物料时，振动幅度急剧减小，由此转化为电子信号，使继电器进行开关动作。

Vibrating level switch is composed of vibrating probe part and electric circuit module. It operates on principle of resonance of tuning fork: vibrating pole and built-in vibrating stick form a frequency 280Hz tuning fork probe, resonance occurs actuated by piezoelectricity element. When probe touches measured product, the vibrating scope reduces rapidly, so electric signal is converted to drive relay.

### 型号规格 MODEL AND SPEC

SVK-	振杆式物位开关 VIBRATING LEVEL SWITCH			
210	标准型 standard, 探头长 probe length: 189mm		探头形式 probe form	
220	加长型 extended, 探头长 probe length: 250~5000mm			
	A	螺纹安装, 3/2" NPT	安装形式 connecting mode	
	B	螺纹安装, R3/2" (PT3/2)		
	C	法兰安装, DN25, PN1.0MPa, RF		
	D	法兰安装, DN25, PN2.5MPa, RF		
		- □□□□	加长型探头长度, extended probe length, 单位 mm	加长型测杆长度 extended probe length