

UQK float ball liquid level controller



BUQK-01



UQK-02



UQK-03

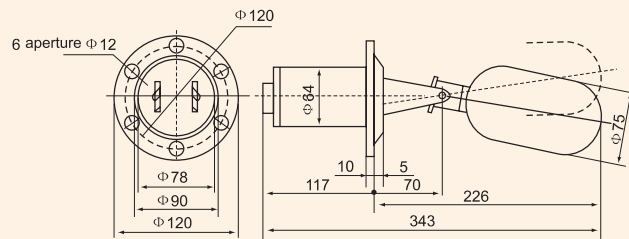
Application Description

The controller is suitable for controlling the position of liquid in open or pressurized container by the process of manufacturing. When liquid position reach to its limits, the contact of relay will be used as the alarm equipment or the switch of electrical pump.

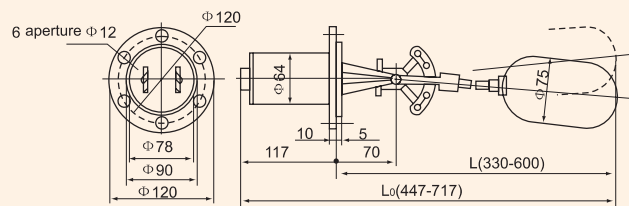
Main Technology Data

Type	UQK-01	UQK-02	UQK-03	BUQK-01	BUQK-02	BUQK-03
Explodeproof grade						
MpaMedia pressure	1Mpa	1Mpa	1Mpa	1Mpa	1Mpa	1Mpa
Media temperature °C	150°C					
activity ambit (mm)	10	25 ~ 550	8 ~ 1000	10	25 ~ 550	8 ~ 1000
Adjust model	can't tune up	be step tune up	no step tune up	can't tune up	be step tune up	no step tune up
Install model	level	level	plumb	level	level	plumb
Power and the outlet volume	AC 220V 220VA DC 100 150VA					

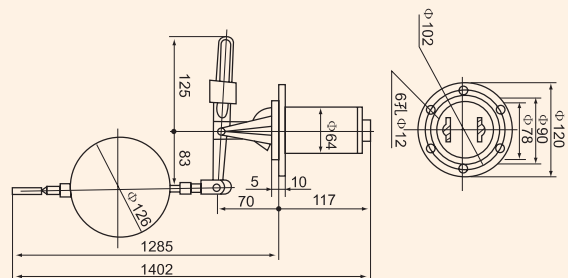
Overall Dimendions



UQK-01



UQK-02



UQK-03

USE

UQK model float ball liquid level controller is applicable to controlling the liquid level in open or pressure vessel during the handicraft production. When the liquid level reach the hing or low limit , relay contact can be used as a switch of signal alarm device or electric pump.

Technology data

model /size

Model	Limit	Adjust style	Installing style
UQK-01	10	Un-adjustable	horizontal
UQK-02	25-550		horizontal
UQK-03	8-1000		vertical

working pressure:1 Mpa

working temperature :150□

capacity of power and contact: AC 220V 220VA

DC 100v 150w

5.WEIGHT:4-6KGS

flange A non-standard raised face flange

dimensions are showed on the drawing

B is a non-standard part which is connected with flange A. User can allocate according to specified dimensions on the drawing. When B is welded into the controlled vessel ,the direction of 6-M10 should be paid attention

When install the UQK-03 model ,because the Diaof the float ball is larger than that of flange hole ,so the cover of vessel should be removable .

The max motion of UQK-02 is 550mm

The adjustment way of The motion range :user can adjust the locating screw in up/down of the sector lever (change the angle of oscillation of floating ball) or remove the cotter pin ,change various length lever (change the swing radius of the floating ball).

The max motion of UQK-03 model is 1000mm.

The adjustment way of The motion range :user can adjust the locating screw up/down of the lead lever and adjust the counterbalance on the lever.

- the controller is non-watertight, it not alpliable to use in the open.
- when install the controller ,it should be earthed reliably (normally connect with flange) to insure the safety utilization of electric power.
- the controlled media shouldn't include permeance impurities, as well as the vibration frequency can't be too large.
- the instrument should be inspected regularly.

UQK model of float ball level controller is comprised of float ball group insulated each other and contact head group. The drive of magnetic force roller on basis of liquid level change to achieve alerting and control on liquid level.

Float ball 1 will rise or fall when liquid level tested rise or fall, which make the magnetic steel 2 located in end section swing up and down. The magnetic force push steel 4 which have the same magnetic pole installed in shell 3 swing up and down.. Moved contact head 5 in the other end will connect or disconnect between quiet head 1-1 and 2-2, which make the signal device light or sound, start or stop motor-driven pump feed liquid or release.

The moved head will not connect or disconnect between quiet head 1-1 and 2-2 unless float ball reach maximum position within the scope of movement up and down, meanwhile launch signal, however there will be no any signal during the process of float ball rise or fall.

The controller float ball is made of stainless steel, with glass fibre reinforced plastic to make the shell and the cover, the material of other parts for this instrument is copper.

Moved parts of controller float ball is insulated each other with contact head group, if so, may avoid the defect that regular liquid level is easy to seepage.

Installation and use

1, UQK model is adopted nonstandard raised-face flange which is connected with container controlled, when installation, please collocated relevant raised-face B as per the flange dimension showed in DWG.

2, The installation direction of UQK-1 and UQK-2 is horizontal, of UQK-3 is vertical.



The image shows the internal terminal block of a relay. It features a central white vertical bar and a horizontal white bar. Four screw terminals are arranged in a 2x2 grid. The top-left and bottom-right terminals are circled in red. The top-right and bottom-left terminals are also circled in red. Two brass screws are visible at the top and bottom of the terminal block. The entire assembly is housed in a blue and black plastic enclosure.

normally closed contact

normally open connection