

Precaution in handling

MODEL:APL410N

Explosion proof type : EEx dII B t6



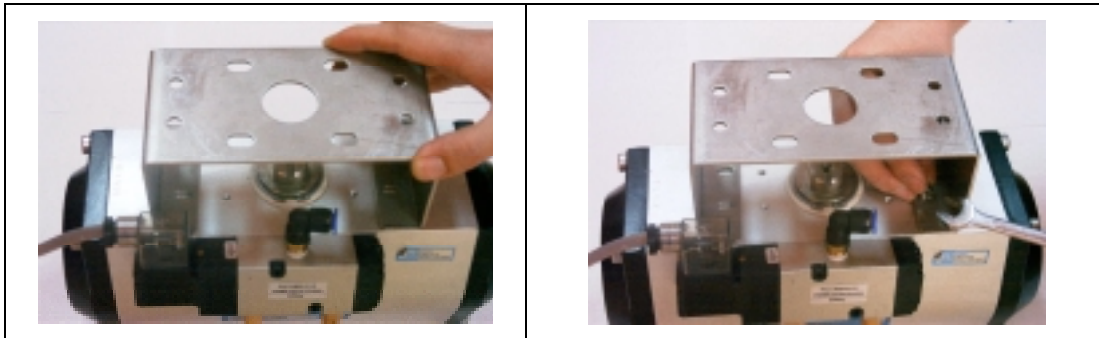
1. Procedures

Important Safety Procedures

- * Before perform any form of maintenance, always disconnect the air and electrical supplies.
- *ATI electrical wiring connections should be in accordance with the diagram attached on the side top casing cover.
- * The conduit cable entries should e sealed in proper manner against water or gases.
- * When replacing any item, use only HKC Supplied components

1) Fitting the mounting brackets (see page , see mounting bracket application)

- * Two types of standard HKC Mounting bracket (NUMUR VDE/VDE 3845,30×80,30x130)
 - HKC 30×80 brackets fits the standards NUMUR VDTA/DE 3845 on the top of small size pneumatic actuators.
 - HKC 30×130 brackets fits the standards of NUMUR VDIJVDI 3845 on the top of big size pneumatic actuator.
 - Fixed mounting bracket on top of actuator with bolt



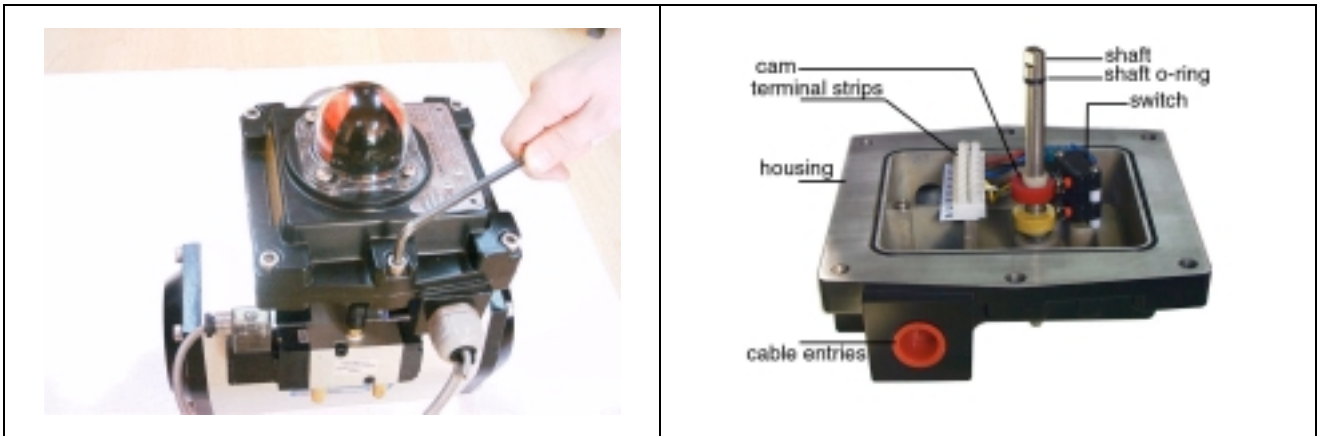
2) Insert the switch box

Insert the shaft of Limit Switch Boxes correctly in to the drive slot on the top of the actuator drive shaft and than reed switch box with mounting bolts.



3) Remove the cover

Turn the captive cover bolts with a tool until the loose and than lift up top cover.



4) Adjustment cam setting

Each switch has its own independent cam arrangement

Follow the procedures below for adjustment.

Open cam setting Lift up bottom cam and turn until the switch is activated and than release cam will come back into spline shaft by spring loaded	Closed cam setting Push down top cam and turn until the switch is activated and than release. Cam will come back into the spline shaft by spring loaded.
<p>A technical drawing of a cam assembly. It shows a vertical shaft with a splined section. A cam is mounted on the shaft, and a spring is attached to the cam. An upward-pointing arrow indicates the direction of adjustment.</p>	<p>A technical drawing of a cam assembly, similar to the one in the left panel. It shows a vertical shaft with a splined section. A cam is mounted on the shaft, and a spring is attached to the cam. A downward-pointing arrow indicates the direction of adjustment.</p>

Lift up turn & release

push down turn & release

5) Checking the switch cam setting

operate the actuator fully open and closed in both direct on several times to check that the switch cams are operating correctly.

6) Wiring

The correct wiring diagram is stuck to the side of top casing cover,

Please follow carefully. If in doubt, please contact HKC

" Earth wire cable shall be used bicolor combination GREEN AND YELLOW.

7) Reassemble the cover

Carefully fixed switch box cover care should be taken not to cause any damage to the O- Ring.

8) Visual position indicator check.

Operate the actuator to the fully open/closed positions.

If the visual position indicator is not correctly aligned with visual position indicator cover, then turning the locking cover bolts until the loose,

There is no need to completely remove the locking bolts.

It will have to be moved it in the correct position and then locking bolts,

2. Precautions in handling

* Wiring connections should be in accordance with the diagram attached on the side of the top casing cover.

Check the wiring connections carefully.

*The two conduit cable entries should be sealed in proper manner against water.

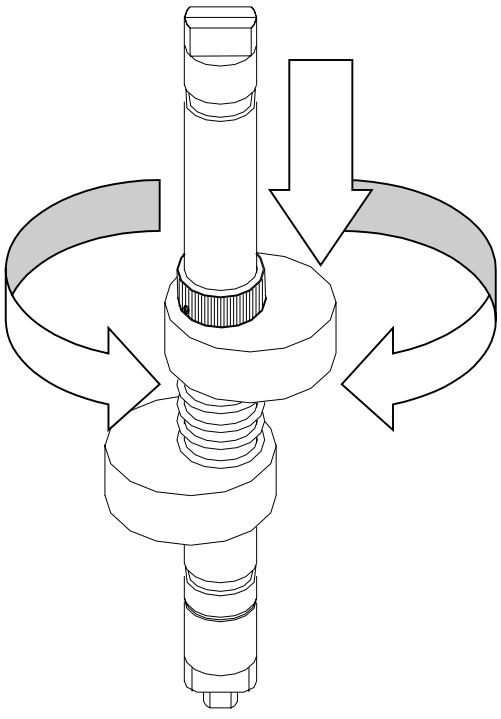
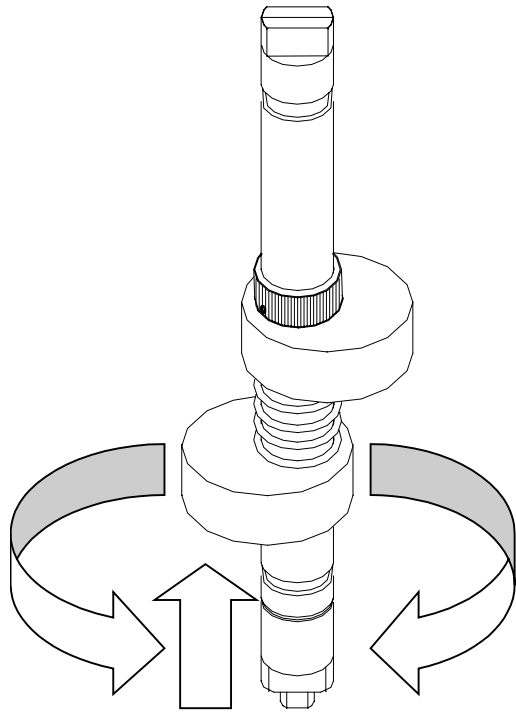
*Position indicator & switch box corners are sealed with o-ring.

Care should be taken not to cause any damage to the o-ring during disassembly or reassembly.

*The position of limit switches have not been adjusted in factory.

Further adjustment is required at site.

Follow the procedures below for adjustment.

<p>Closed position cam setting . Push down top cam (red color) and turn until the switch is activated and then release. Cam will come back into the splined shaft by spring loaded.</p>	<p>Open position cam setting ■ Lift up bottom cam (yellow color) and turn until the switch is activated and then release. Cam will come back into the Splined shaft by spring loaded.</p>
 <p>The diagram shows a vertical shaft with a splined section. A top cam is being pushed down, as indicated by a large downward-pointing arrow. Two curved arrows around the shaft indicate that the shaft should be rotated while the cam is being pushed down. The bottom cam is shown in its normal position, partially inserted into the splined shaft.</p>	 <p>The diagram shows the same vertical shaft. The top cam is now lifted up, as indicated by a large upward-pointing arrow. Two curved arrows around the shaft indicate that the shaft should be rotated while the top cam is being lifted. The bottom cam is shown partially inserted into the splined shaft.</p>

*It should be kept in mind that incorrect setting of the cam position may result in impossible signal in control panel.

