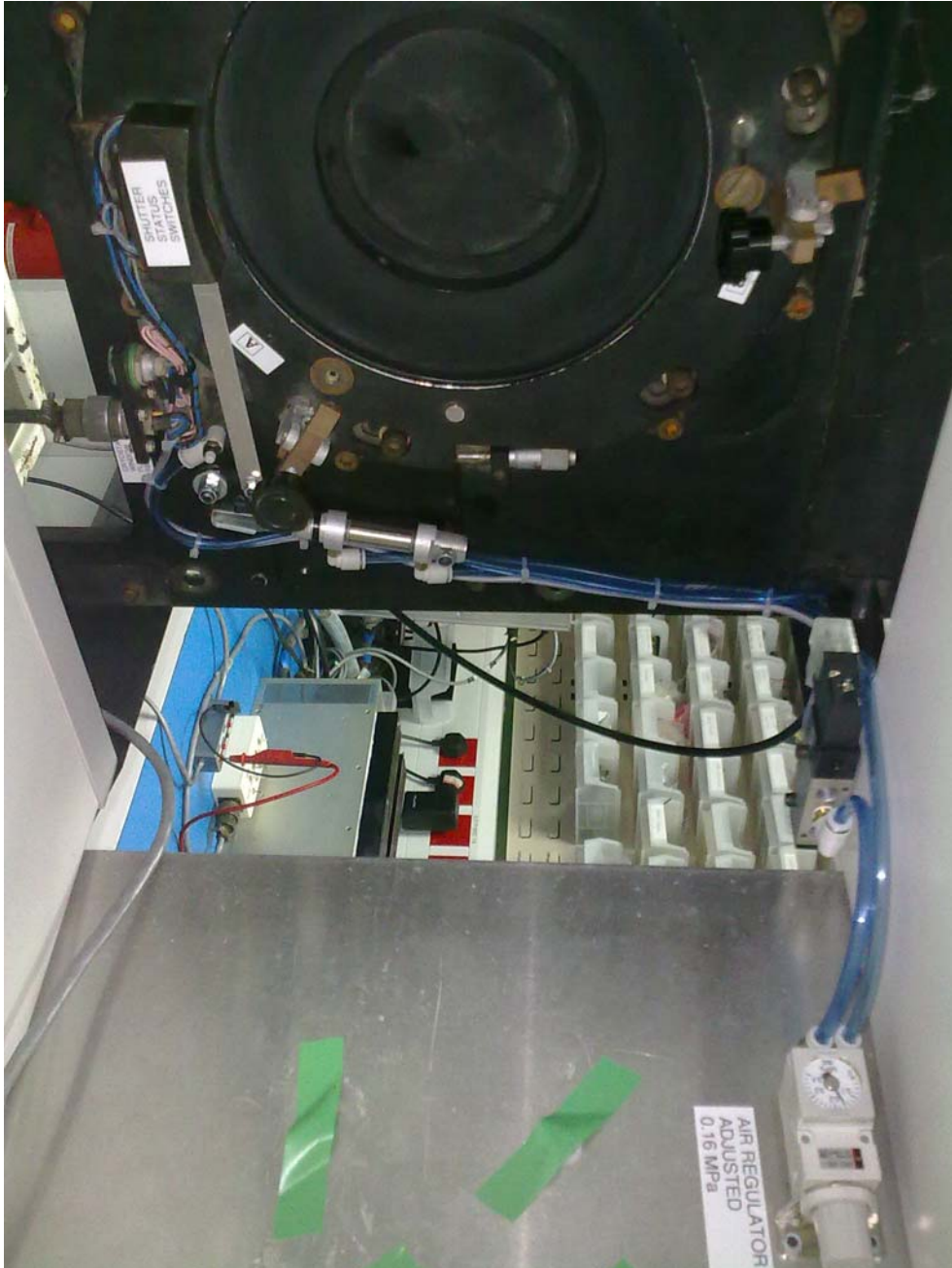


## **NEW PNEUMATIC ACTUATOR FOR PFIP SHUTTER**

A new pneumatic system for actuating the shutter of PFIP has been installed. The system is composed of a pressure regulator, electro-pneumatic valve and double acting pneumatic piston.



With this modification a new air flow control for the ventilation of the window of the cryostat has been installed.



From now on it only needs a connection of dry air supply system from the telescope with a pressure of 5.5 bar.  
The shutter control card that is in the power supply is common to all of the camera shutters, the specific PFIP modification has been removed.



## **NEW NEUMATIC COMPONENTS LIST**

- |   |                       |
|---|-----------------------|
| - SMC bushing tube-tube                 | Ref: KJE06-00         |
| - SMC pressure-regulator                | Ref: ARM10-20BG-1     |
| - SMC electro-pneumatic valve           | Ref: VZ5120-5DZ-CG-Q  |
| - KUHNKE double acting pneumatic piston | Ref: 25.29.010        |
| - SMC air flow regulator                | Ref: AS220 1 FG-01 06 |