

HIGH PRECISION THIN SHUTTER

- * HIGH PRECISION TRAVEL
- * THIN AND SPACE SAVING
- * MOUNTING IN ANY POSITION
- * COST SAVING

Inside the vacuum system movable shields are suitable to protect viewports, vary the conductance of a pumping line, insert optical filters, to shut down particle beams. To overcome this problem we offer a series of shutters designed as a double face flange with threaded holes. For this reason these shutters cannot be mounted on a flange with threaded holes. The chosen materials are suitable for UHV and are bakeable up to 300°C without dismantling the magnets. Sliding motion is driven by rotary magnetic manipulator with strong magnetic couple so the shutter can be mounted in any attitude.

The main advantage is that you can install these shutters below the window you have on your UHV chamber, without any modification.

In flag and venetian blind shutters, some parts remain in the field of view all of the time: in our case, when opened, the viewport section is totally free.

The thin shutters are manually operated and can be stopped in any position of the travel with a lock screw.

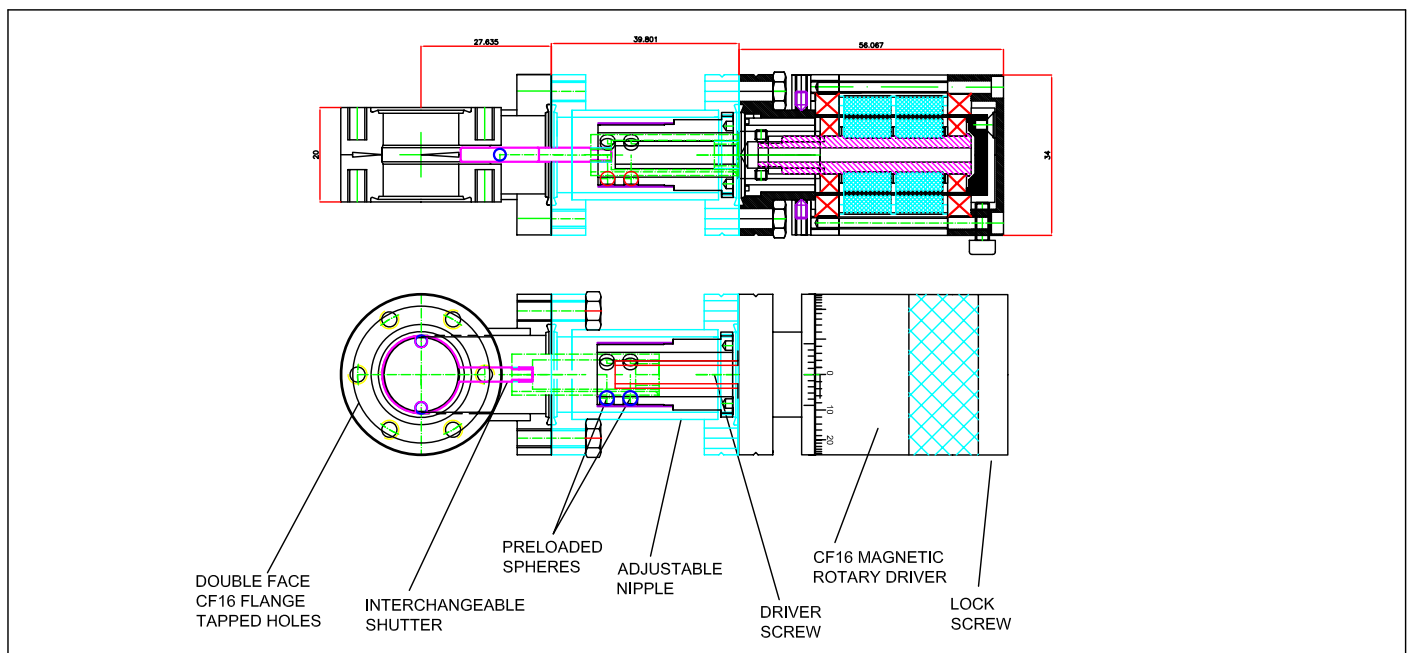
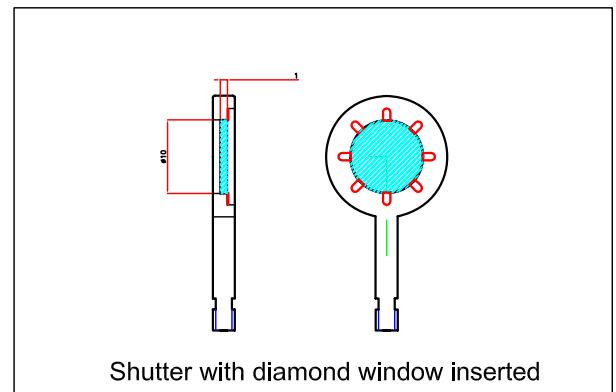
On request special models are available with step motor.

The shutter terminal is dismantlable, so different materials are insertable as molybdenum, tungsten, incoel or optical filter settled into the shutter.

Exploiting the use of CF16 magnetic rotating driver has eliminated the introduction of bellows in the motion system, so you have lower cost and longer life.

SPECIFICATIONS

flange	CF16 double face tapped holes M4
sliding stroke	16.5 mm
precision	<0.01 mm
ultimate vacuum	2.10 ⁻¹¹ mbar
bake out	300 °C



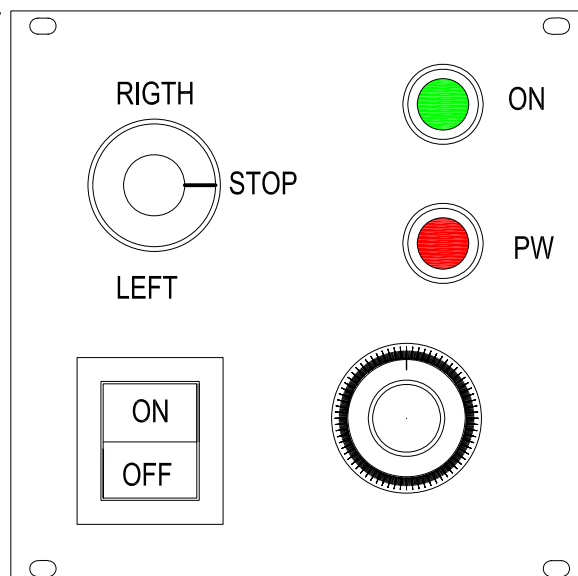
MOTORIZED VERSION

To improve movement quality the CF16 Thin Shutter are motorized with a DC-Motor.

A simple solution with DC GearMotor is proposed: the module is a small, front panel mounted, low price motor driver.

VACUO DC-Controller is designed to drive 24V DC Gearmotor (Imax 4A). Housed in a rack metal case the device is very easy to use. Universally rated to ensure voltage compatibility, the controller is fully compliant with EMC regulations.

The controller provides a bi-directional output to drive a single axis motorized in either direction. Spin direction is triggered by a electronic shunter. Speed motor is selected by a 10-turns potentiometer.



DC Motor Controller

OTHER MOTORS

Considering the fast evolution of the motors and the large number of models we suggest to contact our staff to solve your requirements.

