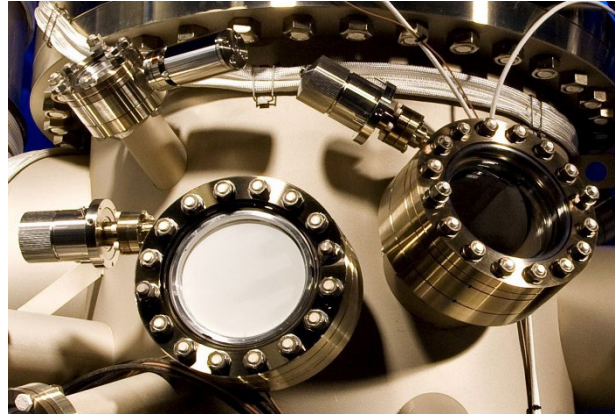


Viewports shutters & RHEED screens

- Protect viewports & RHEED screens from heat load & coating by evaporated materials – baffled version
- Specific wide-angle shutters – no full coverage - to optimize available angle for optical instruments, block incident radiations and preserve central area from coating
- Fit all standard viewport sizes
- Maximum vacuum integrity and reliability



Product introduction

For all deposition applications, Riber supplies a range of flap-type viewport shutters with a linear movement, magnetically coupled actuator for high reliability. The shutters are mounted on double-sided flanges, which fit between the viewport and the chamber .

FEATURES :

- Strong magnetic coupling assured by using rare-earth magnets configured to provide maximum coupling strength. External magnets do not need be removed for bakeouts up to 250°C. For higher temperature bakeouts, the external magnet can simply be removed; magnets are not used inside the vacuum envelope.

- Clear view – the flap type shutter provides a clear and unobstructed view into the UHV chamber.
- The linear motion actuator flap-type design minimizes the number of moving parts – this, combined with a design that prevents seizing caused by deposited material, guarantees maximum reliability.
- Locking screw enables the shutter to be locked into any position; closed, open or partially open.

2 versions are available :

- standard wide-angle version with highest unobstructed view inside the chamber, preferably used for viewports not facing any evaporation source, typically, optical

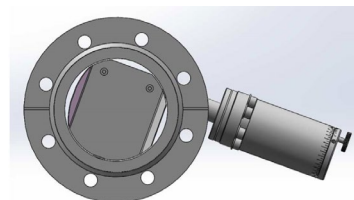
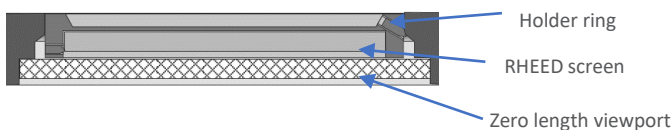
instrumentation at the bottom of the chamber

- Baffled version, for a tight closing, preventing any deposition onto the viewports exposed to evaporation sources (cells inspection viewports, transfer viewport,..)

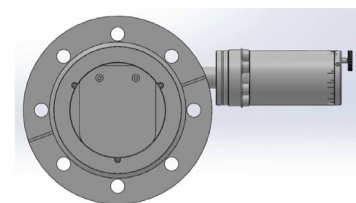
RHEED screen

The RHEED screen and shutter are mounted on the same double-sided flange assembly. This assembly is usually supplied with the phosphor coated lead glass screen and retaining clamp.

Both standard or gas baffle shutters are available to protect RHEED screens.



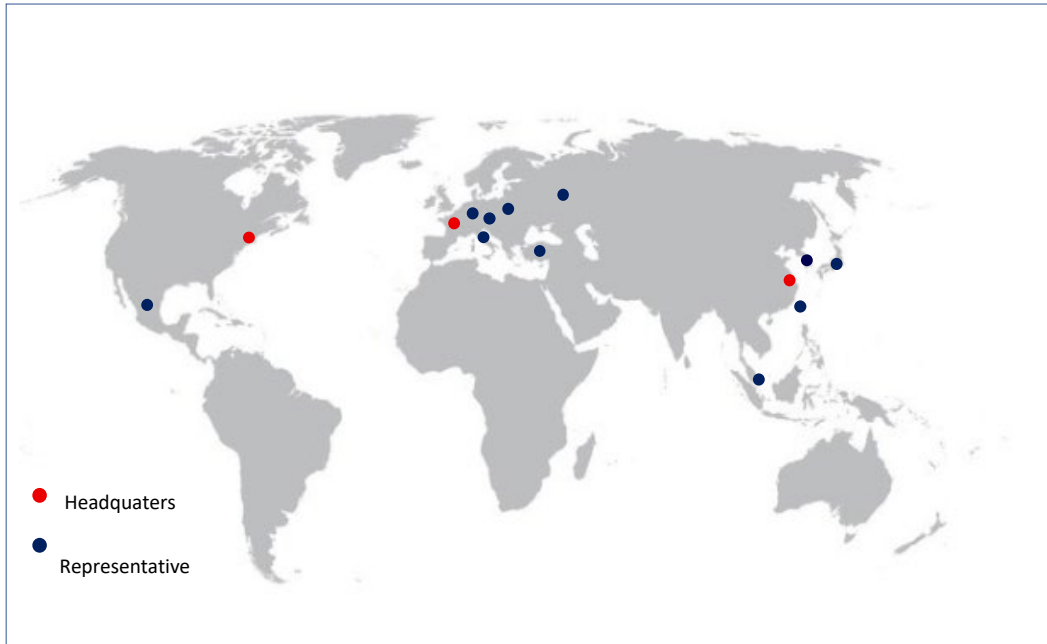
Wide angle viewport shutter



Baffled viewport shutter

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