



## Membrane Diamond Anvil Cell MDAC-BHP Biology Spectroscopy at Medium Pressure.

*These Membrane Diamond Anvil Cell are aimed at performing at Medium Pressure experiments*

### Pressure range :

0 to 0,5 Mbar (depending on the culet size of the diamonds)

### Temperature range :

- Room temperature to 450 K.

### Optical access to sample :

Full angle apertures 100°/100°

Working distance  $\approx$  13mm.

### Accessible electromagnetic spectrum :

Visible, X rays, Raman and Infrared (with specific diamonds)

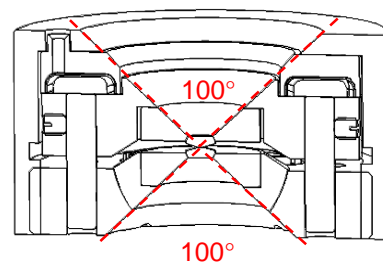
### Materials :

Super Alloys & High Temperature Super Hard Seat

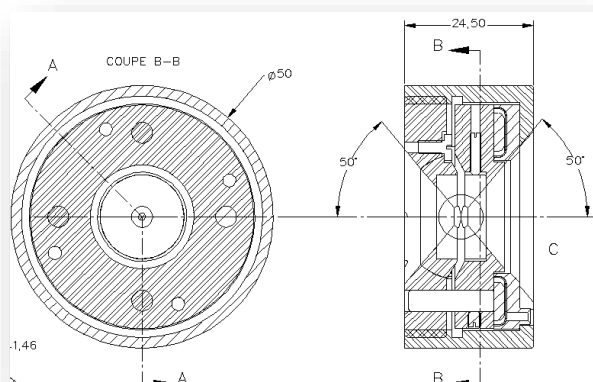
### Sizes/Weight :

Height 24,5mm (0.96"), Diameter 50mm (1.97").

Ref : [MDAC-x-BHP]



2 diamonds Almax-Boehler  $\varnothing 4/100^\circ$  / Cylindrical seat



### Temperature range :

It is possible to work to RT to 450 K.

### Other features

Holes are drilled for access next to the sample to :

- setup Thermocouples
- setup Electrical connectors (electrical measurements)

### Force applied to the anvils :

A helium pressure varying from 0 to 200 bars applies onto a stainless steel membrane that is in contact with the MDAC piston and will transmit it forces up to 10 kN.

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