



Quantum Design

## High Pressure Cell for the MPMS<sup>®</sup> Manufactured by HMD

### Introducing a Novel, High Pressure Cell for the Quantum Design MPMS<sup>®</sup>

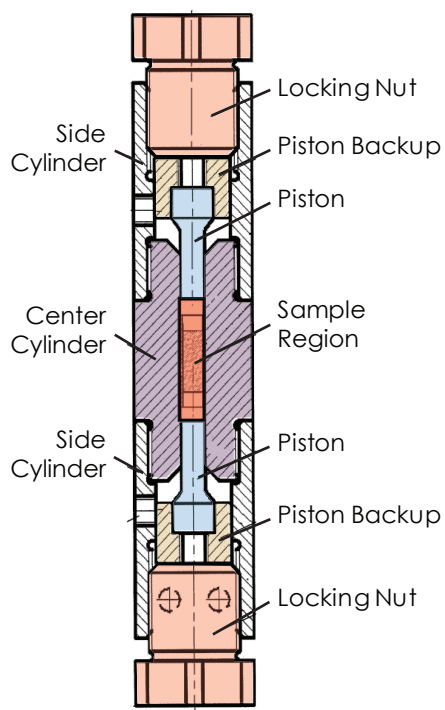


- Easy sample insertion and removal
- All BeCu design for more uniform magnetic background
- Sample pressures to 1.3 GPa
- No copper ring seal insures easy sample removal
- All necessary accessories conveniently packaged for increased portability
- DC and RSO transport compatible
- **No hydraulic press necessary**

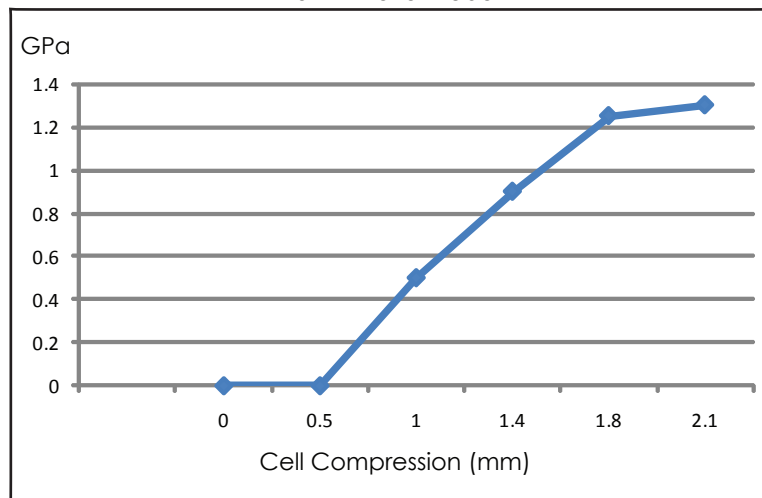
### Specifications

Maximum Applied Pressure	1.3 GPa
Sample Space Diameter	1.7 or 2.2 mm
Sample Space Length	7 mm max
Cell Diameter	8.5 mm

## Cell Construction



Pressure vs. cell compression  
 Tc of 0.5 mm Pb sphere  
 5 mm teflon tube



## Example Data

Sample: ~6 mg LiFeAs; Apiezon J grease  
 Measurement Parameters: AC; 10 Hz, 4 gauss AC field  
 Manometer: Sn (Tc ~ 3.7K)

