

High pressure cell (HPC) for magnetic measurements

The row of high pressure cell modifications are produced in Donetsk Physico-Technical institute:

- HPC for AC measurements on SQUID-magnetometer;
- HPC for DC measurements on SQUID-magnetometer;
- HPC for measurements on vibration magnetometer.
- HPC for DC measurements on PPMS.

Specifications:

- able to reach nominal pressures of up to 15 kbar;
- usable sample space of 1,2 – 2 mm diameter by 10 mm long;
- external diameter 4 –8 mm;
- tin manometer for pressure measurements at helium temperature;

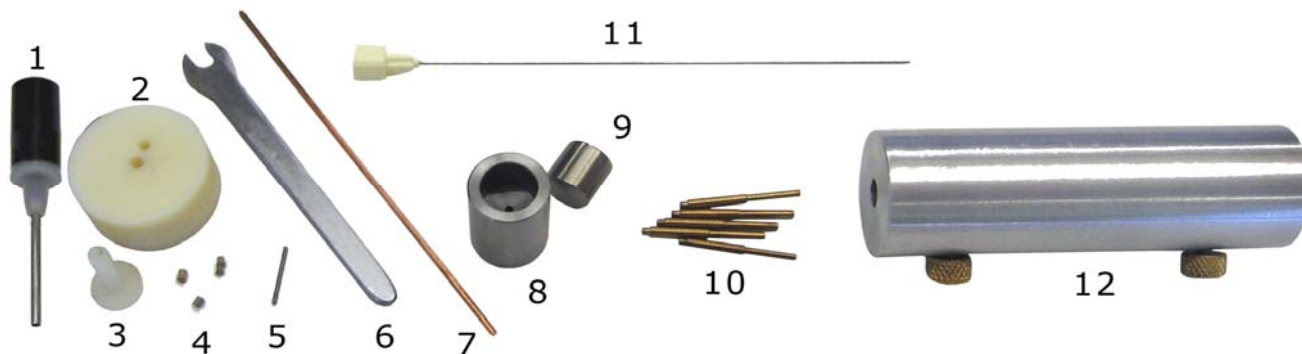
HPC supplied with complete set of ancillaries and consumables, such as sample mounting platform, liquid transmitting medium etc.

Construction of HPC



1,2 – extender; 3 – steel plunger; 4 –packing nut; 5 – piston; 6 - rubber sealling; 7 – cell body.

Tools for operation with HPC



1,2,3, - cutting device for rubber sealling; 4 – rubber seallings; 5 -force out pivot; 6 – key; 7 – push out pivot; 8,9 – sample preparation device; 10 – pistons; 11 – rubber sealling extractor; 12 – cell holder.