PORT PLUG TEST FACILLITY FOR ITER – THE STAGE OF DESIGN AND MANAFACTURING OF THE GASKET TEST STAND

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Specialized testing facilities are designed and manufactured for executing heating, vacuum and functional tests of ITER thermo-nuclear reactor port-plugs.

In order to guarantee the tightness of the sealing between testing vacuum chamber and port-plug the specialized testing mock-up should be developed for testing possible types of sealing.

Actual status of development of the specialized mock-up for testing of vacuum sealings is: design is finished, manufacturing to be finished in 2013, tests to be done by May, 2014.

The report describes the design of the specialized mock-up for testing of vacuum sealings, peculiar properties of sealing between port-plugs and testing vacuum chamber, characteristics of tested types of sealings, testing program, and criteria of selecting the sealing.



General view of Mock-up for testing of vacuum sealing.