

Test Head Assembly 10,000 psi Working Pressure

Specifications

Maximum working pressure of the Test Head Assembly is 69 Mpa (10,000psi).

When the test head assembly has been made up to the top joint of drill pipe, the design allows elevators to be attached directly to the lifting sub. The standard tool joint connection provided on the Test Head is 3.5" IF

The five primary components designed into the Testing Head Assembly are:

1) Drop Bar Device

The drop bar device enables the Drop Bar to be released from surface without breaking any surface connections. On completion of the test, when reverse circulation is required the Bar dropping pins are rotated to release the drop bar from the head. This allows the drop bar to drop downhole and break the pins on the Impact Sub Assembly (Reversing Sub). Produced formation fluids are then displaced from the workstring by annular fluid.

2) Manual Ball Valve

The manual ball valve provides a means of safely shutting in the flow at surface and isolating the surface equipment and rig floor from the work string.

The valve is operated with a 3/4" Allen wrench. Clockwise rotation closes the valve, identifying marks on the operating stem indicate whether the valve is open or closed.

3) Swivel Assembly

The heavy duty swivel assembly allows rotation of the workstring without having to break surface flow connections. A thrust bearing in the Test Head Assembly allows rotating either with or without pipe weight hanging on the Testing Head Assembly. Because this can be rotated with pipe weight, it may be useful for offshore operations where pipe weight is not supported by slips while rotating. Left hand threads are used on all rotating adapters within the Test Head Assemblies. These threads prevent accidental back-off while rotating the workstring.

4) Remote Control Valve

A standard feature with the Test head Assembly is a Remote Control Valve (RMC) which allows rapid termination of flow. This valve is operated from the rig floor using a control line. The valve may be operated by air pressure or hydraulic pressure of ~ 90psi (600 kPa), which is used to open the valve. Release of this pressure automatically closes the valve. The RMC is pressure balanced and therefore may be opened and closed with excessive internal pressure.

5) Wireline Access Cap

During a drillstem test it may be necessary to run wireline tools or to retrieve subsurface pressure recorders. A Wireline Access Cap (WAC) on the Test Head Assembly allows installation of a wireline lubricator. This cap is easily installed by unthreading the lifting sub and then installing the WAC in place of the lifting sub. The lubricator may then be threaded directly into the WAC. An unrestricted 51 mm (2.1") bore is provided through the test head assembly for running wireline tools.

Assembly # : 05 - 701 - 57300

TOOL OD : 5 inches

Thread Connection : 3.5" API IF

