

A Device, System and Method for Hydraulic Pressure Testing

5 ABSTRACT

A Device, System and Method for Hydraulic Pressure Testing. The Device is a Precision Pressure Hydraulic Adjuster (PPHA) comprising a housing; a fluid orifice extending through said housing for providing a connection to an external fluid reservoir; and an adjustment mechanism comprising a threaded section having a first end threaded into an adjustment mechanism chamber within said housing and a second end extending outwardly from said housing, and a plunger coupled to said first end of said threaded section, said threaded section extending into a fluid chamber within said housing and defining an effective volume within said fluid chamber, said fluid chamber having a smaller cross-sectional area than said adjustment mechanism chamber and being connected to said fluid orifice; wherein rotating said threaded section with respect to said housing provides a linear movement of said plunger in said fluid chamber to change said effective volume for adjusting and maintaining a pressure in the external fluid reservoir.

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FIGURE 3