

Precision Deadweight Testers

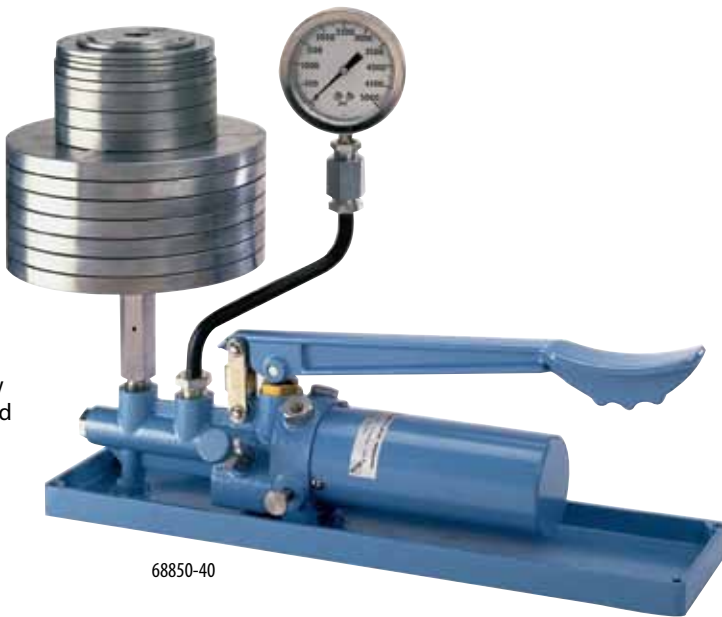
An easy means of precisely generating pressure to an accuracy of 0.1% of reading

These testers are available for operating ranges up to 10,000 psi and ideal for calibrating, setting, testing, and repairing pressure measurement and control devices. Each unit is traceable to the National Institute of Standards and Technology assuring instrument accuracy. Ashcroft deadweight testers qualify as primary standards for pressure calibration.

These pressure systems are designed to be field-portable. A single carrying case holds the pressure generation pump as well as the necessary tools and accessories. A second box contains the weights used for pressure generation (10,000 units require 2 boxes of weights).

The pump is a two-stage hydraulic pressure generator. A built-in shuttle valve allows for rapid pressure increase at low pressures. The rate of increase, at pump cycle, can be reduced at higher pressures in order to minimize resistance. This is accomplished by simply repositioning the two-position shuttle valve. With the shuttle valve in the high pressure position, increasing pressure even when near the 10,000 psi upper limit can be quickly and easily accomplished. Final, precise adjustment is accomplished through the use of an integral vernier adjustment knob.

The unit is provided with two piston cylinder assemblies: A low-pressure piston for pressure ranges from 15 to 2000 psi and a high-pressure unit for pressures from 75 to 10,000 psi. The high-pressure piston has an area of 1/80th of a square inch, while the low-pressure piston has an area of 1/16th of a square inch. Weights are provided for pressure increments of 5, 10, 20, 25, 40, 50, 100, 200, and 500 psi (depending on piston in use). Ashcroft testers can be used anywhere within their operational range without any change in accuracy. The same weights are used with both piston and cylinder assemblies.



68850-40

- Accuracy of 0.1% of reading
- Operating pressure of 15 psi to 10,000 psi
- Operating media: SAE 20 weight automotive or machine oil
- O-Ring material Buna N
- Stainless steel piston and cylinder material
- Non-magnetic die-cast zinc alloy weight material
- Reservoir volume approximately 1.5 pints (0.7 liter)

What's included: Hand jack set (for removal of pointers on gauges being calibrated); spare O-rings; all tools, accessories, and fittings required for normal use; and an NIST-traceable calibration report supplied by the manufacturer.

Catalog No.	Model No.	Description	Pressure range	
			Low	High
TS-68850-00	13050-10	Deadweight tester	15 to 200 psi	75 to 1000 psi
TS-68850-10	13050-20	Deadweight tester	15 to 400 psi	75 to 2000 psi
TS-68850-20	13050-30	Deadweight tester	15 to 600 psi	75 to 3000 psi
TS-68850-30	13050-50	Deadweight tester	15 to 1000 psi	75 to 5000 psi
TS-68850-40	13050-100	Deadweight tester	15 to 2000 psi	75 to 10,000 psi
Accessories				
TS-17111-09	—	NIST-traceable recalibration with data		

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