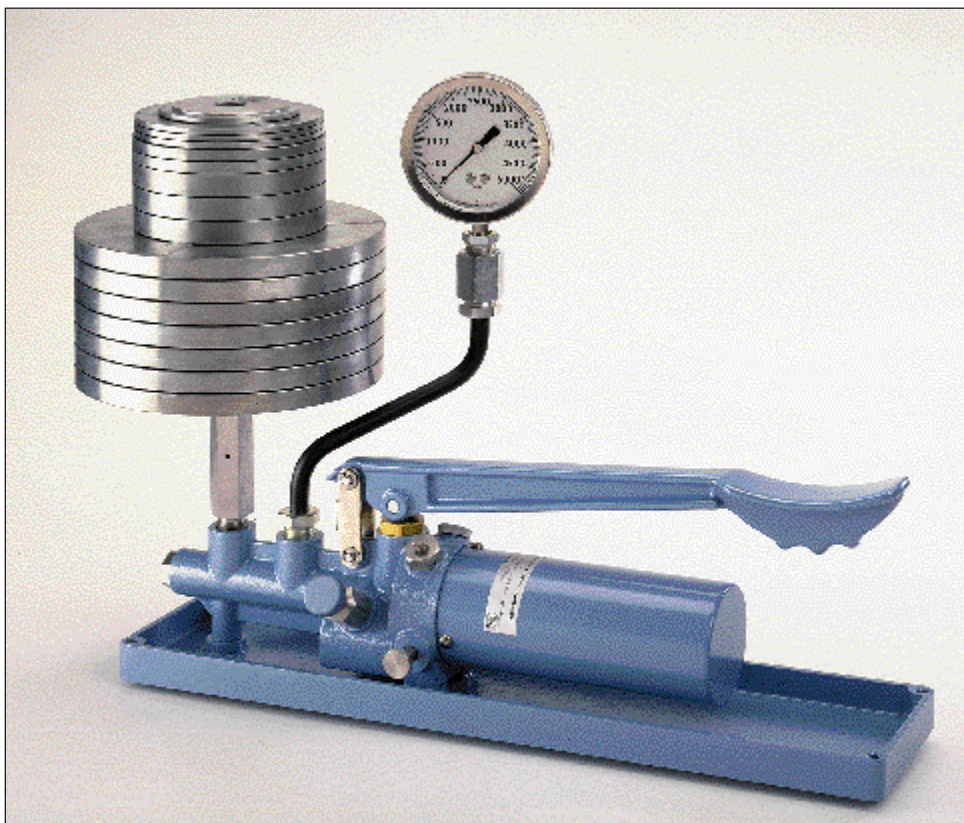


Precision Deadweight Tester



Ashcroft Model 1305D deadweight testers provide an easy means of precisely generating pressure to an accuracy of 0.1% of reading. 1305 units are available for operating ranges up to 10,000 psi. They are ideal in use of calibrating, setting, testing, and repairing pressure measurement and control devices. Each 1305D unit is traceable to the National Institute of Standards and Technology assuring instrument accuracy.

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).

Ashcroft deadweight testers qualify as primary standards for pressure calibration.

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 po-

sition 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 1305D 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). An optional 1 psi incremental weight is also available.

Ashcroft 1305D 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.

The 1305 units are available for psi, bar, kg/cm² and kPa ranges. Each unit comes complete with a hand jack set (for removal of pointers on gauges being calibrated), spare O-rings and all tools, accessories and fittings required for normal use.

Features

- Accuracy of 0.1% of reading
- Operating pressure of 15 psi to 10,000 psi (100 kPa to 70,000 kPa)
- Operating media
1305D- SAE 20 weight automotive or machine oil
1305DH- Phosphate based or glycol fluids
- Traceable to NIST
- O-Ring material
1305D- Buna-N (D series)
1305DH- Ethylene propylene (DH series)
- Stainless steel piston and cylinder material
- Non-metallic die-cast zinc weight material
- Reservoir volume approximately 1.5 pints (0.7 liter)

ORDERING INFORMATION

Catalog No.	Model	Description	Pressure Range	
			Low	High
AS130200	1305D-10	Deadweight tester	15-200psi	75-1000psi
AS130201	1305D-20	Deadweight tester	15-400psi	75-2000psi
AS130202	1305D-30	Deadweight tester	15-600psi	75-3000psi
AS130203	1305D-50	Deadweight tester	15-1000psi	75-5000psi
AS130204	1305D-100	Deadweight tester	15-2000psi	75-10,000psi