

# Dead Weight Testers

Hydraulic

H3000

Bench-top / Table-top Model

Ideal for Fine Increments & for Medium Volume Calibration. Ensures – Easy & Controllable Pressure generation for Calibrating Pressure Gauges / Transducers / Transmitters, Transfer Standards, Recorders, Digital Calibrators etc.

Screw Pump with built-in Priming Pump

## SALIENT FEATURES

Engineering Units : bar or Kg/Cm<sup>2</sup> or psi (Kpa & Mpa also available)  
Adjustable Foot & Spirit Level  
Piston Calibrated thro' "Cross Floating Techniques"  
Calibrated to Standard Gravity  
(Optional : Calibration to Local Gravity as per Customer's requirement)  
Accuracies Traceable to International Standards  
Mild Steel or Non-Magnetic Stainless Steel Weight Sets  
Motorized Model – Optional



\* Accessories shown above are not part of standard equipment

## SPECIFICATIONS

Ranges	35 / 70 / 100 / 160 / 350 / 600 / 700 bar	
Piston	Single / Dual	} Refer Table 2
Standard Accuracy	±0.1% of Reading	
Traceability	International Standards	} Refer Table 1
Weights	Mild Steel or Non-Magnetic Stainless Steel	
Pressure generation	Thro' Priming Pump & Screw Ram	
Standard Corrections	Gravity : 9.80665 m/s <sup>2</sup> * / Temperature : 23°C / Air Density : 1.2 Kg/Cm <sup>3</sup>	
Weight (approx.)	Instrument : 19 Kg. ; Weight Sets : 8 to 33 Kg.	Refer Table 2
No. of Weights	12 to 15	
Instrument Dimensions	530 x 390 x 230 mm (L x W x H)	
Operating Fluid	Oil	

Table 1

Model	Accuracy	PCU	Weight Set	Certification	Remarks
H3000	±0.1% of Reading	Tungsten Carbide Piston & Matching Cylinder	Mild Steel or Non- Magnetic Stainless Steel	Overall Accuracy	Traceable to ISO/IEC 17025:2017 Accredited Calibration Lab

Table 2

Piston Type	Piston Model	Pressure Ranges		
		1 / bar	2 / Kg/Cm <sup>2</sup>	3 / psi
Single	SP-35	0.5 to 35	0.5 to 35	10 to 500
Single	SP-70	0.5 to 70	0.5 to 70	10 to 1000
Single	SP-100	5 to 100	5 to 100	75 to 1500
Single	SP-160	5 to 160	5 to 160	75 to 2500
Single	SP-350	5 to 350	5 to 350	75 to 5000
Single	SP-600	10 to 600	10 to 600	150 to 9000
Single	SP-700	10 to 700	10 to 700	150 to 10000
Dual	DP-160	1 to 160	1 to 160	15 to 2500
Dual	DP-350	1 to 350	1 to 350	15 to 5000
Dual	DP-600	1 to 600	1 to 600	15 to 9000
Dual	DP-700	1 to 700	1 to 700	15 to 10000

## STANDARD INCLUSIONS

- Basic Instrument
- Calibrated M.S. or S.S Weight Sets - Refer Table 1 & 2
- Operating Fluid (500 ml)
- 'O' Ring & Seals
- Dust Cover, Wooden Carrying Case (for Weight Sets)
- Traceable Calibration Certificate
- Instruction Manual

## OPTIONAL (ADD-ON) ITEMS

- Full set of Adaptors consisting of 1/8", 1/4", 3/8", 1/2" BSP (*Set of NPT Adaptors available on request*)
- Right angled Adaptor
- Two Gauge Adaptor
- Conversion Weight Sets to convert from one unit of Pressure to another
- Incremental Weight Sets for smaller increments of Pressure
- Pointer Puller / Punch
- Set of Spanners & Screw Driver
- Motorized Version
- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards - Refer Table 1



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