

## Primary Standards

# Nagman Hydraulic Dead Weight Testers

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*

### Model

#### H3000 Series

- Ranges : Upto 700 Bar
- Accuracy :  $\pm 0.1\%$  of Reading
- Single / Dual Piston
- Oil operated
- Engineering Units : Bar / Kg/Cm<sup>2</sup> / 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 / Non-Magnetic Stainless Steel Weight Sets



Motorized Version  
- optional



Manufactured by

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## Specifications

## H3000 Series

Ranges	35 / 70 / 100 / 160 / 350 / 600 / 700 Bar
Piston	Single / Dual
Standard Accuracy	±0.1% of Reading
Traceability	International Standards
Weights	Mild Steel / Non-Magnetic Stainless Steel
Pressure generation	Thro' Priming Pump & Screw Ram
Standard Corrections	Gravity : 9.80665 m/s <sup>2</sup> * / Temperature : 20°C / Air Density : 1.2 Kg/Cm <sup>2</sup>
Weight (approx.)	Instrument : 19 Kg. ; Weight Sets : 8 to 33 Kg.
No. of Weights	12 to 15
Instrument Dimensions	530 x 325 x 230 mm (L x W x D)
Operating Fluid	Oil

**Table 1**

Model	Accuracy	PCU	Weight Set	Certification	Remarks
H3000	±0.1% of Reading	Hardened Special Steel Piston & Matching Cylinder	Mild Steel / Non-Magnetic Stainless Steel	Overall Accuracy	Traceable to ISO/IEC 17025:2005 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 DELIVERY

- Basic Instrument
- Calibrated M.S. / 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

### OPTIONALS

- 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 Certificate from NABL Accredited Laboratory (as per ISO/IEC 17025:2005) - Refer Table 1