

Primary Standards

Nagman Portable 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

Models

H3000 / H6000 Series

- Ranges : Upto 700 Bar
- Accuracy : $\pm 0.1\%$ / $\pm 0.05\%$ of Reading
- Single Piston
- Oil operated
- Engineering Units : Bar / Kg/Cm² / PSI. (Kpa & Mpa also available).
- 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
- Fixed in a Sturdy Mobile Case for use in Field Calibration

* Pressure Gauge not included



* High Accuracy Models available on request.

Manufactured by

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Specifications (Portable)

H3000 / H6000 Series

| | | |
|-----------------------|--|-----------------|
| Ranges | 35 / 70 / 100 / 160 / 350 / 600 / 700 Bar | |
| Piston | Single | Refer Table ② |
| Standard Accuracy | ±0.1% of Reading | } Refer Table ① |
| Traceability | International Standards | |
| Weights | Mild Steel / Non-Magnetic Stainless Steel | |
| Pressure generation | Thro' Priming Pump & Screw Ram | |
| Standard Corrections | Gravity : 9.80665 m/s ² * / Temperature : 20°C / Air Density : 1.2 Kg/Cm ² | |
| Weight (approx.) | Instrument : 12 Kg. ; Weight Sets : 8 to 33 Kg. | Refer Table ② |
| No. of Weights | 12 to 15 | |
| Instrument Dimensions | 440 x 350 x 200 mm (L x B x H) | |
| Operating Fluid | Oil | |

Table ①

| Models | 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 |
| H6000 | ±0.05% of Reading | | | | |

* High Accuracy Models available on request.

Table ②

| Piston Type | Piston Model | Pressure Ranges | | |
|-------------|--------------|-----------------|------------------------|--------------|
| | | 1 / Bar | 2 / Kg/Cm ² | 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 |

STANDARD DELIVERY

- Basic Instrument in a sturdy mobile case
- Calibrated M.S. / S.S Weight Sets
- Refer Table ① & ②
- Operating Fluid (500 ml)
- 'O' Ring & Seals
- 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