

## Dead Weight Testers

Pneumatic

P8000 / P8600

Bench-top / Table-top Model

Ideal tool for Fine Increments & for Medium Volume Applications. Ensures – easy & controllable Pressure generation for Calibration of Pneumatic Digital Indicators, Manometers, Pressure Transducers / Transmitters, Pneumatic Digital Calibrators / Pressure Gauges etc.

Screw Pump with built-in Priming Pump

### SALIENT FEATURES

Air / Gas operated  
 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"  
 Pressure generation direct via Priming Pump & Ram Screw  
 Calibrated to Standard Gravity  
 (Optional : Calibration to Local Gravity as per Customer's requirement)  
 Non-Magnetic Stainless Steel Weight Sets  
 Built-in / Integral (Priming) Pump. Maximum Pressure: 7 bar  
 \* External Air supply required for Higher Pressures (Integrated with Pressure Gauge & Regulator)



### SPECIFICATIONS

|                       |  |
|-----------------------|--|
| Ranges                | 0.5 to 1 / 2 / 10 / 20 / 35 bar *  |
| Piston                | Single   |
| Standard Accuracy     | ±0.05% & ±0.025% of Reading  |
| Traceability          | International Standards  |
| 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>2</sup> |
| Weight (approx.)      | Instrument : 19 Kg. ; Weight Sets : 30 Kg.   |
| No. of Weights        | 12 to 13   |
| Instrument Dimensions | 530 x 500 x 230 mm (L x W x H)   |

**Table 1**

| Models        | Accuracy                    | PCU   | Weight Set                   | Certification    | Remarks       |
|---------------|-----------------------------|---|------------------------------|------------------|---------------|
| P8000 / P8600 | ±0.05% / ±0.025% of Reading | Hardened Special Steel Piston & Matching Cylinder | Non-Magnetic Stainless Steel | Overall Accuracy | Refer Table 2 |

**Table 2**

| Models   | Pressure Ranges              |                        |           | Remarks  |
|----------|------------------------------|------------------------|-----------|--|
|          | 1 / bar                      | 2 / Kg/Cm <sup>2</sup> | 3 / psi   |  |
| P8000-SP | 15 mBar to 1000 mBar (1 Bar) | 0.015 to 1             | 0.2 to 15 | Traceable to ISO/IEC 17025:2017 Accredited Calibration Lab |
| P8000-SP | 15 mBar to 2000 mBar (2 Bar) | 0.015 to 2             | 0.2 to 30 |  |
| P8000-SP | 0.2 to 10 Bar                | 0.2 to 10              | 5 to 150  | Issued by NABL ISO/IEC 17025:2017 Accredited Lab           |
| P8000-SP | 0.5 to 20 Bar                | 0.5 to 20              | 10 to 300 |  |
| P8000-SP | 0.5 to 35 Bar                | 0.5 to 35              | 10 to 500 |  |

| Models   | Pressure Ranges              |                        |           | Remarks  |
|----------|------------------------------|------------------------|-----------|--|
|          | 1 / bar                      | 2 / Kg/Cm <sup>2</sup> | 3 / psi   |  |
| P8600-SP | 15 mBar to 1000 mBar (1 Bar) | 0.015 to 1             | 0.2 to 15 | Traceable to ISO/IEC 17025:2017 Accredited Calibration Lab |
| P8600-SP | 15 mBar to 2000 mBar (2 Bar) | 0.015 to 2             | 0.2 to 30 |  |
| P8600-SP | 0.2 to 10 Bar                | 0.2 to 10              | 5 to 150  | Issued by NABL ISO/IEC 17025:2017 Accredited Lab           |
| P8600-SP | 0.5 to 20 Bar                | 0.5 to 20              | 10 to 300 |  |
| P8600-SP | 0.5 to 35 Bar                | 0.5 to 35              | 10 to 500 |  |

## STANDARD INCLUSIONS

- Basic Instrument
- Set of Adaptors (BSP or NPT)

| <u>BSP</u>             | <u>NPT</u>             |
|------------------------|------------------------|
| ¼" BSP(F) X ½" BSP (M) | ¼" NPT(F) X ½" BSP (M) |
| ½" BSP(F) X ½" BSP (M) | ¼" NPT(F) X ½" BSP (M) |
| ¾" BSP(F) X ½" BSP (M) | ½" NPT(F) X ½" BSP (M) |
|                        | ¾" NPT(F) X ½" BSP (M) |
- Non-Magnetic Stainless Steel Weight Sets
- Spirit Level, Dust Cover & Wooden Carrying Case (for Weight Sets)
- Pointer Puller / Punch,
- Set of Spanners & Screw Driver
- 'O' Ring & Seals
- Traceable Calibration Certificate (for P8000 Series)
- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards (for P8600 Series)
- Instruction Manual

## OPTIONAL (ADD-ON) ITEMS

- Two Gauge Adaptor
- Right angled Adaptor
- Conversion Weight Sets to convert from one unit of Pressure to another
- Incremental Weight Sets for smaller increments of Pressure
- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards (for P8000 Series)



Manufactured by

**NAGMAN INSTRUMENTS & ELECTRONICS (P) LTD.**

Chennai-Bangalore National Highway, Nazarethpet P.O., Chembarambakkam,  
Chennai – 600 123. INDIA.

**AN ISO 9001:2015  
CERTIFIED COMPANY**

**Domestic Sales** Phone : 044 – 66777020, 005, 021, 024. Fax : 044 – 66777050. E-Mail : mktgchennai@nagman.com  
**Export Sales** Phone : +91-44-66777006, 008. Fax : +91-44-66777050. E-Mail : exports@nagman.com

**www.nagman.com**