

# Industrial Range

MODEL

# BGP25



Pneumatic  
Dead-Weight  
Testers.

Primary standards  
for Pressure  
Calibration

- ▶ Ranges from 0.2 to 25 bar
- ▶ Standard Accuracy to 0.015%

- ▶ Class 'A' Accuracy to 0.008%
- ▶ Supplied with integral pressure controls



Budenberg

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## Pneumatic Dead-Weight Testers.

## Primary standards for Pressure Calibration

Standard Accuracy to 0.015%  
Class A with UKAS

Calibration Certificate 0.008%

### RANGES:

Bar 0.2 to 25

kPa 20 to 2500

lb/in<sup>2</sup> 3 to 400

kg/cm<sup>2</sup> 0.2 to 25

The **BGP** base can be used with any **BGP** series pistons, allowing testing from 15 mbar to 120 bar. The base requires a supply of Gas slightly above the test pressure, and has precision inlet/outlet valves and a screwpress to enable easy regulation and adjustment of pressure.

The **BGP25** has a 1/8in<sup>2</sup> tungsten carbide piston/cylinder unit which is combined with an overhung austenitic mass set to produce a range of 0.2 to 25 bar. The piston is of the free deformation type which makes the unit particularly good for high accuracy measurement. The unit works on pure gas.



## ACCURACY

All certificates issued for Budenberg Dead-weight Testers are fully traceable to national standards via equipment with UKAS calibration certificates. A standard accuracy of 0.015% is achieved from 10% of range using software supplied to compensate for the effects of gravity, temperature and the actual area of piston unit. Standard accuracy without any corrections for actual area is 0.02% from 2.5 to 25 bar, 0.025% from 0.2 to 2.5 bar. Higher accuracy Class A testers are available (supplied with UKAS Calibration certificates for area and mass) allowing an accuracy of 0.008% to be achieved.

## WEIGHTS SUPPLIED

+ includes making-up weight or screw

0.2 to 25 bar

0.2 to 25 kg/cm<sup>2</sup>

	20 to 2500 kPa	3 to 400 lb/in <sup>2</sup>
Piston+ 0.2	Piston+ 20	Piston+ 3
1 wt 0.3	1 wt 30	1 wt 7
1 wt 4.5	1 wt 450	1 wt 90
3 wts 5	3 wts 500	2 wts 100
2 wts 2	2 wt 200	1 wt 50
1 wt 1	1 wt 100	2 wts 20
1 wt 0.5	1 wt 50	1 wt 10
		1 wt 5
<b>Optional fine increment weights</b>		
2 wts 0.2	2 wt 20	2 wts 2
1 wt 0.1	1 wt 10	1 wt 1
1 wt 0.05	1 wt 5	1 wt 0.5
2 wts 0.02	2 wts 2	2 wts 0.2
1 wt 0.01	1 wt 1	1 wt 0.1

## ACCESSORIES

There are many accessories which can be supplied for use with the Dead-weight testers. These include liquid / liquid seals, two gauge stands and many others. Budenberg have extensive experience in the use of Dead-weight testers and can supply accessories for many applications. A separate data sheet of accessories is available.

## PACKING DETAILS

1 carton containing base, tool roll and piston unit:

51 x 49 x 30cm. 0.075m<sup>3</sup>, Nett 18kg, Gross 21kg.

1 carton containing weights:

32 x 32 x 38cm. 0.04m<sup>3</sup>, Nett 21kg, Gross 26kg.

## SPARES, REPAIR AND RE-CERTIFICATION

Comprehensive service and calibration capability of both Budenberg and non Budenberg test equipment: Dead-weight Testers (working service or full overhaul).

Portable calibrators (Budenberg & non- Budenberg).

Comparators.

All accuracy ranges can be supplied with UKAS Calibration Certificates.

Certification traceable to national standards.

Rapid turn-around times and hire items available as a temporary replacement for strategically important plant.

**For further information on Accessories, Repairs & Recertification contact Budenberg and ask for a Data sheet.**



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