

Industrial Range

MODEL

**BGP120**



- ▶ Ranges from 1 to 120 bar
- ▶ Standard Accuracy to 0.015%

Pneumatic  
Dead-Weight  
Testers.

Primary standards  
for Pressure  
Calibration

- ▶ Class 'A' Accuracy to 0.006%
- ▶ Supplied with Software



Budenberg

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## MODEL

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## Pneumatic Dead-Weight Testers.

## Primary standards for Pressure Calibration

Standard Accuracy to 0.015%  
Class A with UKAS

Calibration Certificate 0.006%

### RANGES:

Bar 1 to 120

kPa 100 to 12000

lb/in<sup>2</sup> 10 to 1600

kg/cm<sup>2</sup> 1 to 120



## 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 12 to 120 bar, 0.03% from 1 to 12 bar. Higher accuracy Class A testers are available (supplied with UKAS Calibration certificates for area and mass) allowing an accuracy of 0.006% to be achieved.

## WEIGHTS SUPPLIED

+ includes making-up weight or screw

1 to 120 bar

1 to 120 kg/cm<sup>2</sup>

|         |     |
|---------|-----|
| Piston+ | 1   |
| 2 wts   | 1   |
| 1 wt    | 18  |
| 4 wts   | 20  |
| 1 wt    | 10  |
| 2 wts   | 4   |
| 1 wt    | 2   |
| 1 wt    | 0.5 |

100 to 12000 kPa

|         |      |
|---------|------|
| Piston+ | 100  |
| 2 wts   | 100  |
| 1 wt    | 1800 |
| 4 wts   | 2000 |
| 1 wt    | 1000 |
| 2 wts   | 400  |
| 1 wt    | 200  |
| 1 wt    | 50   |

10 to 1600 lb/in<sup>2</sup>

|        |     |
|--------|-----|
| Piston | 10  |
| 2 wts  | 10  |
| 1 wt   | 180 |
| 6 wts  | 200 |
| 1 wt   | 100 |
| 2 wts  | 40  |
| 1 wt   | 20  |
| 1 wt   | 5   |

### Optional fine increment weights

|       |      |
|-------|------|
| 1 wts | 0.4  |
| 1 wt  | 0.2  |
| 1 wt  | 0.1  |
| 2 wts | 0.04 |
| 1 wt  | 0.02 |

|       |    |
|-------|----|
| 1 wt  | 40 |
| 1 wt  | 20 |
| 1 wt  | 10 |
| 2 wts | 4  |
| 1 wt  | 2  |

|       |     |
|-------|-----|
| 1 wt  | 4   |
| 1 wt  | 2   |
| 1 wt  | 1   |
| 2 wts | 0.4 |
| 1 wt  | 0.2 |

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 BGP120 is an oil lubricated gas operated piston cylinder unit. The design uses a 1/16in<sup>2</sup> hardened and stabilised tool steel piston/cylinder. If required an inert fluid (such as Fomblin) can be used instead of the oil to provide lubrication without contamination of Gas with hydrocarbon vapour. (Consult Budenberg for more details).

## SOFTWARE

For maximum ease of use, computer software is supplied with all units. There are two software packages, one for standard accuracy, one for Class A. The software allows the users to correct for the effects of environmental factors such as gravity and temperature and to determine the precise pressure generated by the Dead-weight testers.

## 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:  
59 x 49 x 38cm. 0.110m<sup>3</sup>, Nett 18kg, Gross 21kg.  
1 carton containing weights:  
32 x 32 x 38cm. 0.04m<sup>3</sup>, Nett 52.5kg, Gross 56kg.

## 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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