

Industrial Range

MODEL

**BGP120**



Pneumatic  
Dead-Weight  
Testers.

Primary standards  
for Pressure  
Calibration

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

- ▶ Class 'A' Accuracy to 0.006%
- ▶ Supplied with integral pressure controls



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

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).



## 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

## 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 20kg, Gross 22kg.  
2 x cartons containing weights:  
32 x 32 x 31cm. 0.04m<sup>3</sup>, Nett 25kg, Gross 30kg. ea

## 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.**



Budenberg Gauge Co. Ltd.  
Unit B2, Stuart Road,  
Altrincham Business Park,  
Altrincham WA14 5GJ,  
United Kingdom.

Tel: +44 (0)161 777 7300  
Email: sales@budenberg.co.uk  
Website: www.budenberg.co.uk

Budenberg Gauge Pvt. Ltd.  
299-300, IInd Main Road,  
Nehru Nagar,  
Old Mahabalipuram Road ( OMR ),  
Chennai - 600 096,  
Tamil Nadu , India

Tel : +91 44 24541074  
Tel/Fax: +91 44 24541075  
Email: sales@budenberg-gauge.in

Budenberg Gauge Asia  
Pacific Ltd

Unit 7A G/F Cheung Fat Ind  
Bldg 64-76 Larch St Tai Kok  
Tsui Kin  
Hong Kong

Tel : +852 3709 0020  
Email: sales@budenberg-gauge.asia

Budenberg Middle East LLC

PO Box 18980  
Dubai  
United Arab Emirates

Tel: +971 4 2511670  
Email: sales@budenberg-me.org