

# BGP120

## Industrial Range



### Pneumatic Dead-Weight Testers. Primary standards for Pressure Calibration

#### 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 0.7 to 7 bar, 0.03% from 0.1 to 0.7 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.

- ▶ Ranges from 1 to 120 bar
- ▶ Standard accuracy to 0.015%
- ▶ Class 'A' accuracy to 0.006%
- ▶ Supplied with integral pressure controls

The BGP base can be used with any BGP series piston, 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 F omblin) can be used instead of the oil to provide lubrication without contamination of Gas with hydrocarbon vapour. (Consult Budenberg for more details).

#### WEIGHTS SUPPLIED

+ includes making-up weight or screw  
1 to 120 bar  
1 to 120 kg/cm<sup>2</sup>

	100 to 12000 kPa	10 to 1600 lb/in <sup>2</sup>
Piston+ 1	Piston+ 100	Piston 10
2 wts 1	2 wts 100	2 wts 10
1 wt 18	1 wt 1800	1 wt 180
4 wts 20	4 wts 2000	6 wts 200
1 wt 10	1 wt 1000	1 wt 100
2 wts 4	2 wts 400	2 wts 40
1 wt 2	1 wt 200	1 wt 20
1 wt 0.5	1 wt 50	1 wt 5
Optional fine increment weights		
1 wts 0.4	1 wt 40	1 wt 4
1 wt 0.2	1 wt 20	1 wt 2
1 wt 0.1	1 wt 10	1 wt 1
2 wts 0.04	2 wts 4	2 wts 0.4
1 wt 0.02	1 wt 2	1 wt 0.2

#### 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.

#### 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 carton containing weights:  
32 x 32 x 31cm. 0.04m<sup>3</sup>, Nett 25kg, Gross 30kg each.



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