



Industrial Range

MODEL 554



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

Pneumatic
Dead-Weight
Testers.

Primary standards
for Pressure
Calibration

- ▶ Class 'A' Accuracy to 0.008%
- ▶ Supplied with Software

Industrial Range

MODEL 554

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/in² 3 to 400
kg/cm² 0.2 to 25

The 550 base can be used with any 550 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 554 has a 1/8in² 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 DH-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/cm²

Piston+	0.2
1 wt	0.3
1 wt	4.5
3 wts	5
2 wts	2
1 wt	1
1 wt	0.5

20 to 2500 kPa

Piston+	20
1 wt	30
1 wt	450
3 wts	500
2 wt	200
1 wt	100
1 wt	50

3 to 400 lb/in²

Piston+	3
1 wt	7
1 wt	90
2 wts	100
1 wt	50
2 wts	20
1 wt	10
1 wt	5

Optional fine increment weights

2 wts	0.2
1 wt	0.1
1 wt	0.05
2 wts	0.02
1 wt	0.01

2 wt	20
1 wt	10
1 wt	5
2 wts	2
1 wt	1

2 wts	2
1 wt	1
1 wt	0.5
2 wts	0.2
1 wt	0.1

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. DH-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. 0.075m³, Nett 18kg, Gross 21kg.

1 carton containing weights:
32 x 32 x 38cm. 0.04m³, Nett 21kg, Gross 26kg.

SPARES, REPAIR AND RE-CERTIFICATION

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

Portable calibrators (DH-Budenberg & non- DH-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 DH-Budenberg and ask for a Data sheet.



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