

**EASY ACCURATE  
ON-SITE CALIBRATIONS**



**HAND-HELD PRESSURE  
CALIBRATORS**

from

**AMBIT Instruments Pty Ltd**

Melbourne & Sydney Australia

## **AMBIT** HAND HELD PRESSURE CALIBRATORS

### **GENERAL INFORMATION**

Ambit portable calibrators offer a quick, easy and inexpensive way to check and calibrate pressure instruments in the field. All are designed to be simple, dependable and easy to maintain.

There are three basic types- **Vacuum, Pneumatic & Hydraulic**. These generate pressure from -80kPa (vacuum) up to 34,500 kPa.

All Ambit calibrators are supplied with a unique 36" (900mm) micro-bore hose and a 1/4"NPT male hose adaptor. The hose effectively reduces the volume to be pressurised and so reduces pressure drop-off due to hose stretching. The gauge connection is a quick-change swivel fitting which allows gauges to be easily oriented and changed. Thread is 1/4"NPT-F.

All models can be supplied with or without gauges. Gauges can be mechanical or digital and are available in all common pressure units.

### **HYDRAULIC CALIBRATORS (Pictured front cover)**

Model **HPGV** is a high pressure calibrator with an integral test gauge fitting generating up to 20,500 kPa. Internal parts are brass, aluminium and stainless with Buna N "O" rings.

The fluid reservoir is Lexan. Oil, water and alcohol can be used.

Features unique to the HPGV which increase its usefulness, dependability and safety include:-

- Pressure relief valve in the fill plug to prevent back pressure damage.
- Check valves which may easily be removed for cleaning.
- A hanging ring which permits hands-free operation.
- A check valve in the outlet fitting which eliminates leakage during storage.

Models **HPOV** and **XHPOV** are identical to model HPGV except a second hose connection is substituted for the integral gauge fitting. This allows for connection to a remote calibrator. Both outlet fittings have check valves.

Models **XHPGV** and **XHPOV** are high pressure versions of models HPGV and HPOV and are capable of generating 34,500kPa

### **MODEL CODES**

<b>HPGV 0000</b>	Gauge fitting, hose with 1/4"NPT-M fitting, vernier, 20,500 kPa
<b>HPOV 0000</b>	No gauge fitting, two outlets, one hose with 1/4"NPT-M fitting, vernier, 20,500 kPa
<b>XHPGV 0000</b>	Gauge fitting, hose with 1/4"NPT-M fitting, vernier, 34,500 kPa
<b>XHPOV 0000</b>	No gauge fitting, one hose with 1/4"NPT-M fitting, vernier, 34,500 kPa
<b>HPOV 0010</b>	Second outlet hose with 1/4"NPT-M fitting

### **VACUUM CALIBRATORS**



The model **VPVG** vacuum calibrator can generate down to -80 kPa. It is complete with an integral gauge fitting and has a large diameter fine adjustment piston. This combined with a long stroke permits maximum evacuation of the system.

Easily removed modular check valve assemblies minimize maintenance

VPVG (Shown without gauge)



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## **AMBIT** HAND HELD PRESSURE CALIBRATORS

### **PNEUMATIC CALIBRATORS**

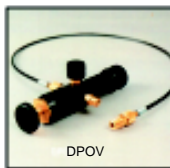
Model **APGV** pneumatic calibrator is a high pressure air unit with an integral test gauge fitting and a large diameter fine adjustment piston generating up to 1600 kPa. This piston and bleed off valve give you precise pressure control. The scissor handle design, low internal volume and micro bore hose give you the advantage of reaching higher pressures with less effort.

Model **APOV** is the same as model **APGV** except a second hose connection is substituted for the integral gauge fitting. This allows for connection to a remote calibrator.

The second hose port has an internal check valve which opens when a hose is connected to it.



APGV



DPOV

Model **DPOV** pneumatic low pressure calibrator is a compact lightweight all-metal pump for calibrating pressures up to 560 kPa. This calibrator combines a direct action piston with a large diameter, long stroke, fine adjustment piston to give excellent control at low pressures. It can easily be converted to a vacuum calibrator which generates -80 kPa by changing check valves.

### **MODEL CODES**

<b>APGV 0000</b>	Gauge fitting, hose with 1/4"NPT-M fitting, vernier
<b>APOV 0000</b>	No gauge fitting, two outlets, one hose with 1/4"NPT-M fitting, vernier
<b>APOV 0010</b>	Second outlet hose with 1/4"NPT-M fitting (for APOV)
<b>APOV 0020</b>	Adaptor for second outlet 1/4"NPT-F (for APOV)
<b>APGO 0000</b>	Second outlet hose with 1/4"NPT-M fitting
<b>DPOV 0000</b>	Calibrator hose with 1/4"NPT-M fitting, vernier
<b>DPOV 0020</b>	Gauge connection, 1/4"NPT-F (For DPOV)
<b>DPOV 0040</b>	Vacuum calibrator check valves

### **CARRY CASES**

We recommend the use of our aluminium carry case to protect these pressure calibrators and accessories from damage during transit and storage.

The case is cushion lined with high density foam custom contoured to meet your needs.

Made of strong aluminium it is durable, weather resistant and suitable for field conditions.

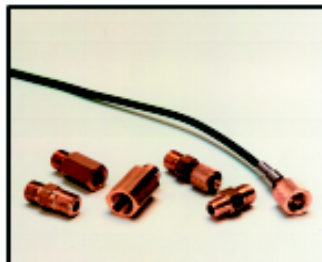
The lockable case comes complete with an adjustable shoulder strap



## **AMBIT** HAND HELD PRESSURE CALIBRATORS

**ADAPTORS** Used to adapt one or both ends of the hose to the commonly used ports. The MB and FB adaptors have an optional internal check valve which opens when the hose is attached. (All brass unless otherwise shown)

PART No.		PART No.	
1/8" Male NPT 1/4" Male NPT	QTHA 1MB0 QTHA 2MB0	1/8" Male NPT (int. check valve) 1/4" Male NPT stainless steel 1/4" Male NPT (int. check valve)	QTHA 1MB1 QTHA 2MS0 QTHA 2MB1
1/8" Female NPT 1/4" Female NPT	QTHA 1FB0 QTHA 2FB0	1/8" Female NPT (int. check valve) 1/4" Female NPT (int. check valve)	QTHA 1FB1 QTHA 2FB1
1/8" Tube 3/8" Tube All QTHA TB0 adaptors fit Swagelok, Tylok, Parker and Hoke fittings.	QTHA 1TB0 QTHA 3TB0	1/4" Tube 1/2" Tube	QTHA 2TB0 QTHA 4TB0
1/4" Female Flare	QTHA 2FBF	Probe - Nut by 1/4" Female NPT	QTHA 2FBA



### QUICK TEST FITTINGS

For permanent installation in a 1/4"NPT port between instrument and shut off valve. They have a unique finger tight seal and come complete with plug and chain. Materials of construction are brass or stainless steel with buna N seals (95 deg C rating). Optional built-in check valve which opens when hose is attached is also available.

#### MODEL CODES

**QTFT 000B** Brass  
**QTFT 000S** Stainless steel  
**QTHA HS01** 36" Hose  
**QTHA HS02** 60" Hose

### QUICK TEST VALVED FITTINGS

This is a quick test fitting installed in a quality shut off valve. Valve has a 1/4" NPT Male inlet x 1/4" NPT Female outlet.

#### MODEL CODES

**QTVF 000B** Brass  
**QTVF 000S** Stainless steel



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