

# OPERATING INSTRUCTIONS FOR THE K/P HAND PUMP

K/P 1

1. Pressure port - G 1/4" BSP parallel female connection to take master instruments e.g. INTELLIGENT MANOMETERS, LEX 1, LEO 1, LEO 2
2. Fine adjustment valve
3. Pressure release valve
4. Pressure/Vacuum selector
5. Adjustable stroke for varying maximum pressure output (over pressure protection)
6. Female Serto connector
7. Flexible hose to item under test

## SPECIFICATION:

Output Pressure: 0...25 bar (adjustable)

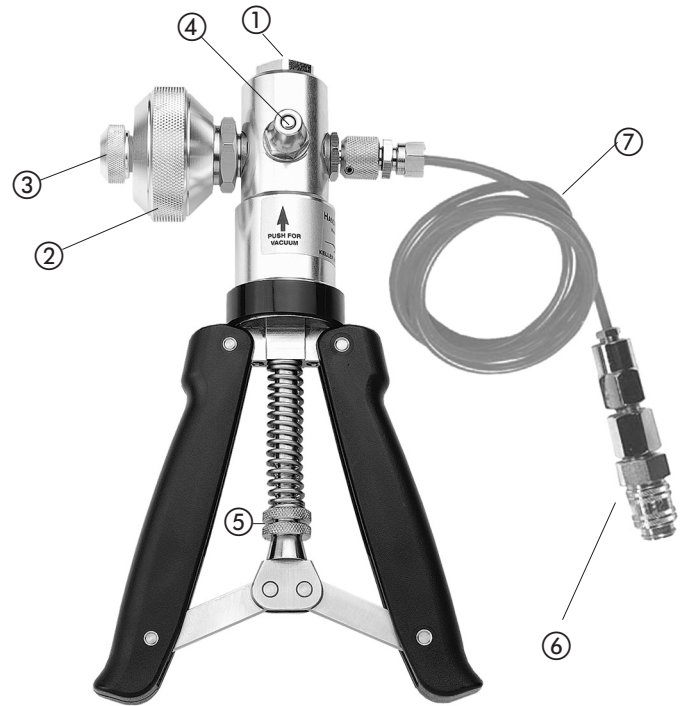
Output Vacuum: 0...-0,8 bar/0...-24 in Hg

Materials: Bright nickel plated brass, clear anodised aluminium

Adjustment: Fine volumetric pressure/vacuum adjuster

Dimensions: 220 mm (L) x 105 mm (W) x 63 mm (D)

Weight: 650 grams



The system is a portable dual source of vacuum and pressure. Each system incorporates a vacuum / pressure selector, a volume control for fine adjustment and adjustable stroke to provide over pressure protection.

## TEST INSTRUMENTS AVAILABLE

Intelligent Manometers, LEO 1, LEO 2, ECO 1

### RELEASE VALVE (3)

This can be used to reduce or release the pressure in the system. The rate of pressure reduction is dependent upon the degree of rotation when opening the valve. Minimal force is required to seal the system.

### VOLUME CONTROL (2)

The pressure generated can be finely adjusted by running the fine adjustment valve (2) either clockwise or anticlockwise to increase or decrease pressure accordingly.

### OVER PRESSURE PROTECTION (5)

To adjust the maximum output pressure of the system turn the nuts (5) to increase or decrease the stroke length.

### IMPORTANT

**Under no circumstances should the fine adjustment valve (2) be wound back beyond the red line indicator on the body.** Should this occur, then the pressure must be released from the system before attempting to re-engage the fine adjustment valve.

### PRESSURE/VACUUM SELECTION (4)

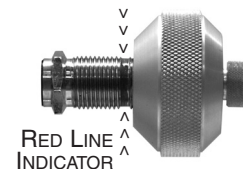
Press the selector (4) as indicated on the label to engage the desired mode. Ensure that the release valve (3) is fully closed (clockwise motion) prior to pumping.

### NOTE

The system should only be used for pressurising small volumes due to its small displacement. If the system has not been used for 1 period of time, it could be difficult to operate on the first stroke. The cylinder has been lightly greased on assembly but, if additional lubrication should ever be required, then apply a minimal amount to the inside of the cylinder.

Access is via the three retaining screws located under the black collar.

For seal replacement, refer to service kit instructions.



Subject to alterations

12/04

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