



# HP-30

## Pneumatic Manual Testing Pump for Pressure Device Calibration



## Features

- / Complete with box and accessories
- / Can be combined with different testing devices
- / Wide range of pressure
- / Smooth-running precision adjustment

## Description:

Calibration manual testing pump is intended for generating pressure for the purpose of inspection, adjustments and calibration of mechanical and electronic pressure gauges by using reference measurements. At the top end of the pump, an analogous or digital reference pressure gauge is screw mounted and, at the same time, the test piece is connected on the side by means of a hose included in the delivery. On activating the pump, equal pressure is exerted on both the devices. Subsequently, the test piece can be compared with the reference device and, if necessary, settings or calibration adjustments can be made. First, considerable amount of pressure is built up by a pincer mechanism; the testing pressure is then set accurately by means of an easily adjustable precision regulating valve.

## Application:

Despite its compact size, the calibration manual testing pump HP-30 facilitates testing pressure generation easily and accurately. It features also a reversing switch for generating vacuum. Therefore, pressure switches, pressure gauges (manometers) and pressure sensors can be tested or set within the range of  $-0.95 \dots +40$  bar where air is used as the testing medium. As against hydraulic testing pumps, this offers a simple and neat solution.



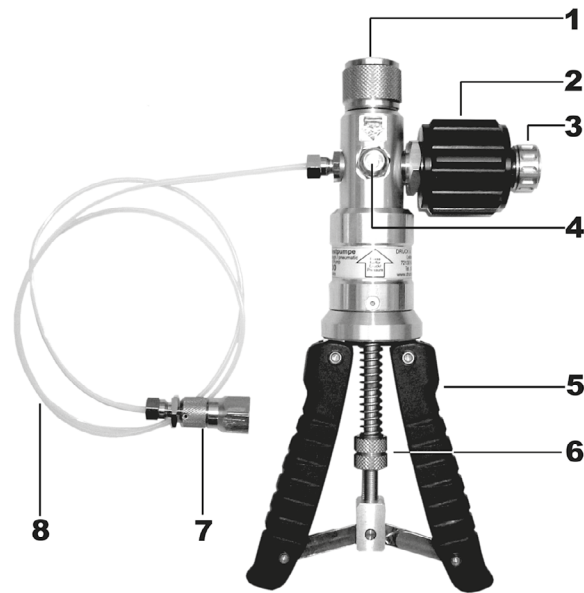
# Technical Specifications:

|                                    |   |
|------------------------------------|---|
| <b>Pressure generation /</b>       | 0 .. 40 bar   |
| <b>Vacuum generation /</b>         | 0 .. -0,95 bar  |
| <b>Delivery connections /</b>      | G1/2"-female (free-wheel swivel nut with sealing) for reference device.<br><br>G1/4"-female at the end of the testing hose for the test piece   |
| <b>Material /</b>                  | Anodized aluminium, brass (partly nickel-plated)  |
| <b>Testing pressure settings /</b> | Fine regulating valve (large volume variator)   |
| <b>Dimensions /</b>                | approx. 220 x 105 x 63 mm   |
| <b>Weight /</b>                    | approx. 510 g   |
| <b>Series range of supply /</b>    | <ul style="list-style-type: none"> <li>• Calibration manual pump HP-30 with selected reference device</li> <li>• test piece connecting hose</li> <li>• user manual</li> <li>• robust plastic material box with contoured foam-rubber padding</li> </ul> |
| <b>Optional accessories /</b>      | Adapter and sealing sets for test piece NO-contact, maintenance set for HP-30 (O rings, sealings etc.)  |
| <b>Higher pressures /</b>          | Hydraulic testing pumps on request  |

# Ordering Codes:

|   |               |           |          |
|---|---------------|-----------|----------|
| <b>Order number</b>   | <b>HP-30.</b> | <b>1.</b> | <b>1</b> |
| <b>HP-30 Manual Testing Pump</b>  |               |           |          |
| <b>Reference Pressure Device /</b>  |               |           |          |
| 0 = none  |               |           |          |
| 1 = p. gauge 63 mm Cl. 1.0 with fine grade from 0 .. +2 bar/ 0 .. +30 PSI                                   |               |           |          |
| 2 = p. gauge 63 mm Cl. 1.0 with fine grade from 0 .. +11 bar/ 0 .. +160 PSI                                 |               |           |          |
| 3 = p. gauge 63 mm Cl. 1.0 with fine grade from 0 .. +25 bar/ 0 .. +365 PSI                                 |               |           |          |
| 4 = p. gauge 63 mm Cl. 1.0 with fine grade from 0 .. +40 bar/ 0 .. +600 PSI                                 |               |           |          |
| 5 = p. gauge 63 mm Cl. 1.0 with fine grade from -1 .. 0 bar/ -30 .. 0 in HG                                 |               |           |          |
| 6 = p. gauge 63 mm Cl. 1.0 wfg from -1 .. +39 bar/ -30 in HG to +580 PSI                                    |               |           |          |
| 7a = digital precision pressure gauge from op. range of 0 .. +40 bar accuracy ± 0.25% FS (IEC 60770)        |               |           |          |
| 7b = digital precision pressure gauge from operating range of 0 .. +40 bar accuracy ± 0.5% FS (IEC 60770)   |               |           |          |
| 8a = digital precision pressure gauge from operating range of -1 .. +3 bar accuracy ± 0.25% FS (IEC 60770)  |               |           |          |
| 8b = digital precision pressure gauge from operating range of -1 .. +3 bar accuracy ± 0.5% FS (IEC 60770)   |               |           |          |
| 9a = digital precision pressure gauge from operating range of -1 .. +39 bar accuracy ± 0.25% FS (IEC 60770) |               |           |          |
| 9b = digital precision pressure gauge from operating range of -1 .. +39 bar accuracy ± 0.5% FS (IEC 60770)  |               |           |          |
| <b>Accessories /</b>  |               |           |          |
| 0 = none  |               |           |          |
| 1 = pipe thread adapter set for connecting the test piece   |               |           |          |
| 2 = NPT thread adapter set for connecting the test piece  |               |           |          |
| 3 = metric adapter and MINIMESS for connecting the test piece   |               |           |          |

# Setup:



- (1) Free-wheel reference device NO-contact G1/2"-female along with sealing
- (2) Fine regulating valve
- (3) Release valve
- (4) Reversing switch for pressure/vacuum generation
- (5) Pump handles
- (6) Adjustable knurled nut for setting pump output
- (7) Test piece NO-contact G1/4"-female, free-wheel with sealing
- (8) Test piece connecting hose