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VACUUM AND PRESSURE PUMPS

- Professional pumps for the testing of all pressure and vacuum functions in vehicles.
- Possible workshop applications:
 - Carburettor
 - Ignition
 - Air conditioner
 - Heating valves
 - Central locking system
 - Automatic switch-off for diesel vehicles
 - Modulator for automatic transmissions
 - Servo brake
 - Membrane of the injection pump
 - Fuel pressure regulator
 - EGR valve
 - Throttle valve
 - All vacuum-operated actuators

PRESSURE AND VACUUM PUMP FOR MOBILE TESTING OF LOW PRESSURE SWITCHES



item number :
HV 90.2 (060107_2)
DESCRIPTION

- Pressure and vacuum pump for the testing of low-pressure switches; rubber protected DS 63 mm (2 1/2") pressure gauge, double scale -1...+3 bar / 45 psi with fine divisions.
- Connector with 7/16"-20UNF male thread (for other adapters, see HVA-series)

- **Applications medium- and high-pressure switches in**
 - refrigeration and air conditioning systems
 - pneumatic brake systems (transport vehicles)
 - oil pressure switches

EQUIPMENT

- HVA 01 (060901) adapter from 7/16"-20UNF to 3/8"-24UNF (female thread)
- HVA 02 (060902) adapter from 7/16"-20UNF to 3/8"-24UNF (male thread)
- HVA 03 (060903) adapter from 7/16"-20UNF to M 12x1.5 (male thread)
- HVA 04 (060905) adapter from 7/16"-20UNF to M 12x1.5 (male thread)
- HVA 05 (060906) adapter from 7/16"-20UNF to M 12x1.5 (male thread)
- HVA 06 (060907) adapter from 7/16"-20UNF to M 10x1.25 (male thread)
- HVA 07 (060908) adapter from 7/16"-20UNF to 7/16"UNF (male thread)

PRESSURE PUMP FOR TESTING MEDIUM AND HIGH PRESSURE SWITCHES



item number :
HV 90.3 (060110_1)

DESCRIPTION

- Pressure pump with rotary spindle and drain valve, for the testing of medium- and high-pressure switches; rubber protected DS 63 mm (2 1/2") pressure gauge, double scale 0...40 bar / 580 psi with fine divisions.
- Connector with 7/16"-20UNF male thread (for other adapters, see HVA-series).
- **Applications medium- and high-pressure switches in**
 - refrigeration and air conditioning systems
 - pneumatic brake systems (transport vehicles)
 - oil pressure switches
- **Testing capabilities**
 - determination of trip settings
 - determination of on/off trip settings or switching differentials

EQUIPMENT

- HVA 01 (060901) adapter from 7/16"-20UNF to 3/8"-24UNF (female thread)
- HVA 02 (060902) adapter from 7/16"-20UNF to 3/8"-24UNF (male thread)
- HVA 03 (060903) adapter from 7/16"-20UNF to M 12x1.5 (male thread)
- HVA 04 (060905) adapter from 7/16"-20UNF to M 12x1.5 (male thread)
- HVA 05 (060906) adapter from 7/16"-20UNF to M 12x1.5 (male thread)
- HVA 06 (060907) adapter from 7/16"-20UNF to M 10x1.25 (male thread)
- HVA 07 (060908) adapter from 7/16"-20UNF to 7/16"UNF (male thread)

VACUUM & PRESSURE PUMP SET, DIGITAL



item number :
HVD 90 (060106)

DESCRIPTION

- Vacuum and pressure pump, aluminium version, reversible from vacuum to pressure measures.

- For the use in various fields on the automotive testing sector.
- One hand operated, all metal version.
- High quality compound digital gauge with robust protective rubber cap Ø 80 mm.
- Resolution 0,01 bar
- Reversible vacuum or pressure
- Range - 1...+3 bar / 42 psi, fine graduation
- Accuracy class 0.5 FSO
- MIN/MAX display and memory
- Sampling rate 10 milliseconds (100 measurement values/second) for measuring dynamic pressure peaks
- Applications vacuum range:
 - vacuum meter sensor check
 - exhaust gas recirculation valve check
 - throttle valve check
 - fuel pressure regulator check
 - vacuum modulator check (automatic transmissions)
 - servo-assisted brake check
- Applications pressure range:
 - injection pump diaphragm check
 - turbocharging pressure check

SCOPE OF DELIVERY

- 1 vacuum and pressure pump
- 1 hose transparent Ø 5x2 mm, length 0.50 m (20 in.)
- 1 conical brass adapter
- 4 connecting adapters made out of plastic
- 1 solid plastic case

VACUUM PUMP, GRADUATED IN 0.05 BAR STEPS



item number :

HV 84 (060103_1)

DESCRIPTION

- Vacuum pump, aluminium version, for the testing of all vacuum areas in vehicles.
- High quality vacuum meter with robust protective rubber cap DS 63 mm (2 1/2"), range - 1...0 bar graduated in 0.05 bar steps and -760...0 in mmHg.
- Plastic hose and bilateral conical brass adapter.
- Vacuum decreasing is achieved by means of the set screw.
- one hand operated
- vacuum meter with 0.05 graduation
- with vacuum regulator
- **Applications:**
 - carburetors
 - ignition systems
 - air conditioning systems
 - heating baffles
 - central locking systems
 - automatic cutout (Diesel engined vehicles)
 - modulators (automatic transmissions)
 - servo-assisted brakes and all vacuum operated actuators

SCOPE OF DELIVERY

- 1 vacuum pump
- 1 hose transparent Ø 5x2 mm, length 0.50 m (20 in.)
- 1 conical brass adapter
- supplied with blue textile bag

SPARE PARTS

- ET 30 (120601) vacuum meter DS 63 mm (2 1/2"), -1...0 bar with protective rubber cap
- ET 232 (121129) 1 set O-rings
- ET 118 (120603) conical brass adapter
- ET 484 (121528_1) hose transparent length 0.50 m (20 in.)

VACUUM & PRESSURE PUMP, GRADUATION 0.1 BAR



item number :

HV 90 (060107)

DESCRIPTION

- Vacuum and pressure pump, aluminium version, reversible from vacuum to pressure measures.
- For the use in various fields on the automotive testing sector.
- One hand operated, all metal version. High quality compound gauge with robust protective rubber cap DS 63 mm (2 1/2"), dual precision scale, minus-range -1...0 bar, plus-range from 0...+3 bar / 42 psi, graduation 0.1 bar.
- one hand operated
- reversible vacuum or pressure
- range - 1...+3 bar / 42 psi, fine graduation

- **Applications vacuum range:**
 - vacuum meter sensor check
 - exhaust gas recirculation valve check
 - throttle valve check
 - fuel pressure regulator check
 - vacuum modulator check (automatic transmissions)
 - servo-assisted brake check

- **Applications pressure range:**
 - injection pump diaphragm check
 - turbocharging pressure check

SCOPE OF DELIVERY

- 1 vacuum and pressure pump
- 1 hose transparent Ø 5x2 mm, length 0.50 m (20 in.)
- 1 conical brass adapter
- 4 connecting adapters made out of plastic
- 1 solid plastic case

VACUUM AND PRESSURE PUMP SET



item number :

HV 90.6 (060107_6)

DESCRIPTION

- Vacuum and pressure pump, aluminium version, reversible from vacuum to pressure measures.
- For the use in various fields on the automotive testing sector.
- One hand operated, all metal version. High quality compound gauge with robust protective rubber cap DS 63 mm (2 1/2"), dual precision scale, minus-range -1...0 bar, plus-range from 0...+3 bar / 42 psi, graduation 0.1 bar.
- one hand operated
- reversible vacuum or pressure
- range - 1...+3 bar / 42 psi, fine graduation
- including a 120 ml collecting tank HVZ 02, hoses and adapters

- **Applications vacuum range:**
 - vacuum meter sensor check
 - exhaust gas recirculation valve check
 - throttle valve check
 - fuel pressure regulator check
 - vacuum modulator check (automatic transmissions)
 - servo-assisted brake check

- **Applications pressure range:**
 - injection pump diaphragm check
 - turbocharging pressure check.

SCOPE OF DELIVERY

- 1 vacuum and pressure pump
- 1 hose transparent \varnothing 5x2 mm, length 0.50 m (20 in.)
- 1 conical brass adapter
- 4 connecting adapters made out of plastic
- 1 collecting tank HVZ 02
- 1 solid plastic case

SPARE PARTS

- ET 246 (121144) compound gauge DS 63 mm(2 1/2"), -1...+3 bar with protective rubber cap
- ET 252 (121149) 4 connecting adapters
- ET 118 (120603) conical brass adapter
- ET 466 (121495_2) set replacement (O-rings, X-rings, valve)
- ET 484 (121528_1) hose transparent, \varnothing 5x2 mm, 0.50 m long (20in.)
- HVZ 02 (060111_1) collecting tank, 120 ml

VACUUM AND PRESSURE PUMP WITH CHANGE-OVER RING



item number :

HV 95 (060108)

DESCRIPTION

- Solid pump made of aluminium and glass fibre reinforced plastic
- Can be operated with one hand
- Switchable from vacuum to pressure range
- Precision vacuum pressure gauge NG 63 with robust rubber protection cap and double fine scale
- Vacuum range -1 ... 0 bar / 760 mmHG
- Pressure range 0...+3 bar / 42 psi
- Available with ISO calibration certificate (extra charge)
- Possible applications in the vacuum area: exhaust gas regulation valve; Throttle valve; Fuel pressure regulator; Vacuum modulator in automatic transmissions; Servo brake
- Possible applications in the pressure range: diaphragm of the injection pump; Pressure control turbocharging

SCOPE OF DELIVERY

- 1 vacuum and pressure pump
- 1 hose transparent Ø 5x2 mm, length 0.50 m (20 in.)
- 1 conical brass adapter
- 4 connecting adapters made out of plastic
- supplied in carton box

SPARE PARTS

- ET 246 (121144) compound gauge DS 63 mm (2 1/2"), -1...+3 bar with protective rubber cap
- ET 252 (121149) 4 connecting adapters (PVC)
- ET 118 (120603) conical brass adapter
- ET 484 (121528_1) hose transparent, Ø 5x2 mm, 0.50 m long (20 in.)
- ET 466 (121495_2) set replacement (O-rings, X-rings, valve)

COMBINATION PUMP SET FOR PRESSURE AND VACUUM WITH CHANGE-OVER RING



item number :

KDV 01 (060109)

DESCRIPTION

- With quick coupling for universal and single adapters and release valve
- Solid combination pump made of aluminium and glass fibre reinforced plastic for pressure and vacuum (with switching ring)
- Switchable from vacuum to pressure range
- Precision vacuum pressure gauge with robust rubber protection cap NG 63
- Double fine scale:

- Vacuum range -1 ... 0 bar / 760 mmHG
- Pressure range 0 ... + 3 bar / 42 psi, fine graduation 0.1 bar
- 2 possible uses:
- As pressure pump for the cooling system
- As a vacuum pump for testing vacuum functions

SCOPE OF DELIVERY

- 1 combination pump
- 1 flexible hose FZ 100 K, connectable
- 1 hose transparent Ø 5x2 mm, length 0.50 m (20 in.)
- 1 conical brass adapter
- 4 connecting adapters made out of plastic
- supplied in carton box

SPARE PARTS

- ET 246 (121144) compound gauge DS 63 mm (2 1/2"), with dual scale bar/psi incl. protective rubber cap

COLLECTING TANK (120 ML) WITH HOSE CONNECTION (PRESSURE AND VACUUM PUMPS)



item number :
HVZ 02 (060111_1)

DESCRIPTION

- Ideal addition to the vacuum and pressure pumps from Leitenberger
- Thanks to the collecting tank, the pumps are also suitable for bleeding processes
- No contamination of the pumps by liquid

SCOPE OF DELIVERY

- Collecting tank (120 ml) with hose connection, hose length 0,50 m (20 in.)

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