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(8412)22-31-16

### **COMPRESSION TESTERS**

- Each individual cylinder or combustion chamber in petrol (gasoline) and diesel engines can be diagnosed by measuring the compression pressure.
- The measurement is made via the spark plug, glow plug or injector bore in conjunction with specific adapters.
- If the measurement values are low or deviate too much, the following may be faulty: piston rings, valves, cylinder head gasket.
- The fault location can be further pinpointed by a subsequent engine pressure loss measurement.
- Note: Additional adapters for use of the test devices in different engines can be found in our extensive assortment of adapters, see: "Adapter list for compression pressure loss testing units (ZKD).

## **TEST ADAPTER SET, COMPRESSION TEST, 3-PART**



item number:

KPA Flex-Set 01 (042812\_1)

#### **DESCRIPTION**

- 5-piece test adapter set, suitable for testing compression pressure or pressure loss
- Suitable for all vehicles with Otto engine for adaptation via the spark plug thread
  adapter thread

KPA 08M 10x1flexible, adapter length 200 mmKPA 09M 12x1,25flexible, adapter length 200 mmKPA 10M 14x1,25flexible, adapter length 200 mm

- KPA 08
- KPA 09
- KPA 10

### **TEST ADAPTER SET, COMPRESSION TEST, 5 PIECES**



item number:

KPA Flex-Set 02 (042813\_1)

#### **DESCRIPTION**

- 5-piece test adapter set, suitable for testing compression pressure or pressure loss
- Suitable for all vehicles with Otto engine for adaptation via the spark plug thread

adapter	threa	nd
KPA 08	M 10x1	flexible, adapter length 200 mm
KPA 09	M 12x1,25	flexible, adapter length 200 mm
KPA 10	M 14x1,25	flexible, adapter length 200 mm
KPA 11	M 18x1,5	flexible, adapter length 200 mm
KPA 12	M 8x1	flexible, adapter length 200 mm

#### SCOPE OF DELIVERY

- KPA 08
- KPA 09
- KPA 10
- KPA 11
- KPA 12

### COMPRESSION PRESSURE RECORDER BLUETOOTH



item number:

KP\_BT01\_LR (040298\_1)

- The new compression pressure measurement for the modern and innovative workshop.
- With the KP\_BT 01\_LR from Autotestgeräte Leitenberger, compression pressure values are recorded and transmitted to a terminal device, e.g. a smartphone or tablet.
- The measurement data can be analyzed quickly and easily in a specially developed "LR Smart Tools" app and documented for customers.
- The app is free for all users and can be downloaded for Android and IOS in the corresponding stores.

- Suitable for use on single and multi-cylinder engines.
- Compression pressure measurement with high quality Leitenberger Bluetooth sensor.
- Measurement and immediate visualization and evaluation ("live data" transmission).
- Data transfer to end devices (e.g. smartphones, tablets, etc.) via Bluetooth technology.
- Forwarding of the measurement results via PDF, email, airprint, etc.
- Graphic evaluation and storage of the measured values in a PDF document.
- "1-man test" possible, i.e. Operate the starter and read the compression pressure readings at the same time.
- Range for data transmission approx. 15 m.
- No consumables (such as print chart cards, paper rolls, etc.) thanks to the completely digital process.
- The operation of this device is only intended within the EU. This device is NOT approved for use outside the EU.
- Technical specifications

Measuring range: 0... 60 bar

Accuracy: class 0.5

Bluetooth version: BLE 5.1

Communication: Bluetooth, low energy

- Integrated display: no, only via Bluetooth to an end device
- Compression pressure adapter: not included in delivery

Weight: 0.8kg

- Dimensions: L x W x H 25 x 6 x 20.5 cm
- App for iOS from version 13.0
- App for Android from version 8.0
- The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG. Inc. and are used by Autotestgeräte Leitenberger GmbH under license.

#### SCOPE OF DELIVERY

- Pressure sensor (incl. Factory calibration certificate, WKZ 01) with Bluetooth communication
- Charging cable
- Operating instructions on USB stick
- Sturdy case with matching foam insert
- Free app

# TEST ADAPTER SET "COMMERCIAL VEHICLE" FOR KP .. AND DRV DEVICES



item number:

ZKD 100\_HD (042836\_1)

- Suitable for injection nozzle bores Ø 17 and 21 mm
- The special design, the interchangeable head pieces and the adjustable and interchangeable nozzle holder can be used for a large number of commercial vehicle diesel engines
- Examples of use:
  Commercial vehicle

DAF° FIAT° IVECO ° MAN ° MERCEDES ° SCANIA ° VOLVO **Agriculture**CASE ° DEUTZ ° FENDT ° JOHN DEERE ° NEW HOLLAND

#### SCOPE OF DELIVERY

- 5-piece set, consisting of two head / front pieces, a basic body and two holders / brackets
- Supplied in a sturdy plastic case with milled foam insert

## **COMPRESSION TESTER, DIGITAL (0...60 BAR)**



item number : KPDL 80 (040299\_1)

#### **DESCRIPTION**

- Quick and easy measurement of the compression pressure in conjunction with the respective adapter
- Digital precision pressure gauge NG 80 (0 ... 60 bar / 0 ... 870 psi) with robust rubber protection cap
- Easy to use thanks to flexible 250 mm hose with quick coupling (DN5), check valve and pressure check valve
- Even places that are difficult to access can be reached without problems.
- SCOPE OF DELIVERY
- 1 compression tester KPDL 80 with hose, DN5 coupling and check valve
- Delivered in a box

#### **EQUIPMENT**

- Adapter ZKS 01.1 for spark plug threads M14x1.25 and M18x1.5
- For further adapters, see "Adapter list for compression and pressure loss testing units (cars)
  ZKD"
- Commercial vehicle or special adapters on request

# **COMPRESSION TESTER, DIGITAL (0...60 BAR)**



item number: KPD 80.1 (040300\_2)

#### **DESCRIPTION**

- Quick and easy measurement of the compression pressure in conjunction with the respective adapter
- The digital precision pressure gauge NG 80 (0 ... 60 bar / 0 ... 870 psi) with large display (digit height of 16 mm), integrated bar graph display, recallable MIN/MAX peak value, reset and zero function as well as display illumination allows for effective analysis of the measurement values
- Easy to use thanks to flexible 250 mm hose with quick coupling (DN5), check valve and pressure check valve
- Even places that are difficult to access can be reached without problems

#### SCOPE OF DELIVERY

- 1 compression tester with hose and DN5 quick coupling
- With digital precision pressure gauge 80 mm (incl. factory calibration certificate)
- Measurement range: 0...+60 bar / 0...870 psi
- Accuracy class: ± 0.5 % FS
- Pressure units: bar, PSI, kPa, MPa, mbar
- rubber protection cap
- Delivered in a box

#### **EQUIPMENT**

- Adapter ZKS 01.1 for spark plug threads M14x1.25 and M18x1.5
- For further adapters, see "Adapter list for compression and pressure loss testing units (cars)
  ZKD":
- Commercial vehicle or special adapters on request

#### COMPRESSION AND PRESSURE LOSS TESTER



item number: DRV-KP-Kit 01 (041122 1)

- Test set for measuring the compression pressure and for performing a pressure loss measurement
- Suitable for petrol engines due to the special adapter combination
- Also suitable for diesel engines in conjunction with other adapters
- Compression pressure measurement enables quick and easy diagnosis of each individual cylinder
- The measured value provides information about the condition of various components such as valves, piston rings, cylinder liners etc.
- The engine pressure loss measurement enables extended diagnosis of each individual cylinder or combustion chamber by determining the air outlet
- The magnitude of the loss of pressure can be determined through the controlled feeding of compressed air into the combustion chamber
- The special pressure gauge allows a quick evaluation

- If the pointer is not in the green area, the measured pressure loss is not acceptable
- Before carrying out the test, the maximum permissible pressure loss of the engine is set (approx. 23%) by connecting it to the workshop's compressed air supply
- The OT 01 upper dead point gauge allows for the quick and precise determination of the top dead centre of the cylinder to be tested

- 1 DRV 05 engine pressure loss tester with pressure control valve and precision pressure gauge NG 80 with stable rubber protection cap.
- 1 test hose with quick coupling, length 1.00 m
- 1 KP 80 compression tester with precision pressure gauge NG 80 (0...40 bar) with solid rubber protection cap.
- 1 adapter (flexible) KPA 08 for spark plug thread M10x1 (petrol engines)
- 1 adapter (flexible) KPA 09 for spark plug thread M12x1.25 (petrol engines)
- 1 adapter (flexible) KPA 10 for spark plug thread M12x1.25 (petrol engines)
- Ships in a rugged plastic case

## COMPRESSION TESTER (0...40 BAR) FOR PETROL ENGINES



item number: KP 80\_Otto-Set (040390\_4)

#### **DESCRIPTION**

- Quick and easy measurement of the compression pressure
- Universally suitable for petrol engines
- Also suitable for diesel engines in conjunction with other adapters
- Easy to use thanks to flexible 250 mm hose with quick coupling (DN5), check valve and pressure check valve
- Even places that are difficult to access can be reached without problems
- Easy to read precision pressure gauge NG 80 with robust rubber protection cap
- Measurement range 0 ... 40 bar / 0 ... 580 psi
- Dial: scale outside in bar, scale inside in PSI
- Extensive assortment of adapters as accessories.

- 1 compression tester with precision pressure gauge NG 80
- 1 test hose with quick coupling, length 1.00 m
- 1 adapter (flexible) KPA 08 for spark plug thread M10x1 (petrol engines)
- 1 adapter (flexible) KPA 09 for spark plug thread M12x1.25 (petrol engines)
- 1 adapter (flexible) KPA 10 for spark plug thread M12x1.25 (petrol engines)
- Ships in a rugged plastic case

## **COMPRESSION TESTER (0...40 BAR)**



item number : KP 80 (040301\_4)

#### **DESCRIPTION**

- Quick and easy measurement of the compression pressure in conjunction with the respective adapter
- Easy to use thanks to flexible 250 mm hose with quick coupling (DN5), check valve and pressure check valve
- Even places that are difficult to access can be reached without problems
- Easy to read precision pressure gauge NG 80 with robust rubber protection cap
- Measurement range 0 ... 40 bar / 0 ... 580 psi.
- Dial: scale outside in bar, scale inside in PSI
- · Extensive assortment of adapters as accessories

#### SCOPE OF DELIVERY

- 1 compression tester with hose, DN5 quick coupling and check valve
- Delivered in a box

#### **EQUIPMENT**

- Adapter ZKS 01.1 for spark plug threads M14x1.25 and M18x1.5
- For further adapters see "Car adapter list"
- · Commercial vehicle or special adapters on request

### UNIVERSAL COMPRESSION TESTER 12 V WITH DIGITAL DISPLAY



item number:

KPD 01.1 (040328\_2)

- Universally applicable in conjunction with the respective adapter (accessory)
- Quick and easy measurement of the compression pressure
- Digital acquisition of measurement data and transferable to / archivable on the PC
- Display of the measuring results in bar, % or with bar graph
- Clear overview of up to 4 cylinders on the display
- 1 to 16 cylinder engines can be recorded
- Logging of the measurement data
- Input of customer data possible
- PC software for archiving the measurement data
- Available with ISO calibration certificate
- All individual parts are available as spare parts
- Extensive assortment of adapters as accessories.

- 1 compression tester, digital with USB transfer
- 1 pressure sensor with connection cable
- 1 power supply cable with battery clamps
- 1 serial interface cable, length 3.00 m
- 1 angle adapter 90° ET 285 (DN5 quick coupling)
- 1 CD with software
- Ships in a rugged plastic case

## **UNIVERSAL COMPRESSION TESTER WITH DIGITAL DISPLAY (USB)**



item number : KPD 01 (040328\_1)

#### **DESCRIPTION**

- For universal use
- Quick and easy measurement of the compression pressure
- Digital acquisition of measurement data, transferable to / archivable on the PC
- Display of the measuring results in bar, % or with bar graph
- Clear overview of up to 4 cylinders on the display
- 1 to 16 cylinder engines can be recorded
- Logging of the measurement data
- Input of customer data possible
- PC software for archiving the measurement data
- Available with ISO calibration certificate
- All individual parts are available as spare parts
- Extensive assortment of adapters as accessories

- 1 compression tester, digital with:
- 1 pressure sensor with connection cable
- 1 power supply cable with battery clamps
- 1 serial interface cable, length 3.00 m
- 7 adapters for petrol engines:
- 1 adapter ET 35, rigid with rubber cone Ø 20 mm
- 1 adapter ET 36, G1/4
- 1 adapter ET 37.3, M14x1.25 (200 mm long)
- 1 adapter ET 37.4, M18x1.5 (200 mm long)
- 1 adapter ZKS 01.1, M14x1.25 + M18x1.5 (70 mm long)
- 1 adapter KPA 01, M12x1.25
- 1 adapter KPA 02, M10x1
- 5 adapters for diesel engines:
- 1 adapter ZKD 01, M12x1.25
- 1 adapter ZKD 02, M24x2
- 1 adapter ZKD 06, Ø 7 mm
- 1 adapter ZKD 07; Ø 7 mm
- 1 adapter ZKD 08; Ø 9.4 mm
- 1 angle adapter 90° ET 285 (DN5 quick coupling)
- 1 CD with software
- Ships in a rugged plastic case

#### **COMPRESSION TESTER FOR SCOOTERS**



item number:

KP 63A\_Scooter (042806\_1)

#### **DESCRIPTION**

- The special design makes it particularly suitable for scooters
- Quick and easy measurement of the compression pressure
- Easy to use thanks to flexible hose with quick coupling (DN5) and pressure check valve
- Even places that are difficult to access can be easily reached thanks to the 90° hose adapter
- Easy to read precision pressure gauge NG 63 with robust rubber protection cap
- Measurement range 0...16 bar
- Extensive assortment of adapters as accessories.

#### SCOPE OF DELIVERY

- 1 compression tester KP 63A\_Scooter with test hose
- 1 hose adapter M 14x1.25 (length 110 mm)
- 1 angular adapter ET 285
- 1 solid plastic case

# COMPRESSION TESTER (0...40 BAR) FOR DIESEL AND PETROL ENGINES FOR OPEL VEHICLES



item number:

KP 80/5\_Opel (040390\_3)

- Especially suitable for Opel due to the special adapter combination
- Universally suitable for petrol and diesel engines in connection with further adapters
- Quick and easy measurement of the compression pressure
- Easy to use thanks to 250 mm hose with quick coupling (DN5), check valve and pressure check valve
- Even places that are difficult to access can be reached without problems
- Easy to read precision pressure gauge NG 80 with robust rubber protection cap
- Measurement range 0 ... 40 bar / 0 ... 580 psi
- Dial: scale outside in bar, scale inside in PSI
- Available with ISO calibration certificate (extra charge)
- Extensive assortment of adapters as accessories
- Note: Vehicle or customer-specific set combinations on request.

- 1 compression tester with hose and DN5 quick coupling
- 2 adapters for petrol engines:
- 1 adapter KPA 09, M12x1.25 (200 mm long)
- 1 adapter KPA 10, M14x1.25 (200 mm long)
- 3 adapters for diesel engines:
- 1 adapter ZKD 41, M10x1.25
- 1 adapter ZKD 42, M10x1
- 1 adapter ZKD 43, M9x1
- Ships in a rugged plastic case

# COMPRESSION TESTER (0...40 BAR) FOR DIESEL AND PETROL ENGINES FOR JAGUAR AND LAND ROVER VEHICLES



item number:

KP 80/5\_JLR\_1 (040393\_1)

#### **DESCRIPTION**

- Especially suitable for Jaguar and Land Rover due to the special adapter combination
- Universally suitable for petrol and diesel engines in connection with further adapters
- Quick and easy measurement of the compression pressure
- Easy to use thanks to 250 mm hose with quick coupling (DN5), check valve and pressure check valve
- Even places that are difficult to access can be reached without problems
- Easy to read precision pressure gauge NG 80 with robust rubber protection cap
- Measurement range 0 ... 40 bar / 0 ... 580 psi
- Dial: scale outside in bar, scale inside in psi
- Available with ISO calibration certificate (extra charge)
- Extensive assortment of adapters as accessories
- Other vehicle or customer-specific set combinations on request.

- 1 compression tester with hose and DN5 quick coupling
- 1 adapter ET 37.3 for spark plug thread M14x1.25 (200 mm long)
- 5 adapters for diesel engines:
- 1 adapter ZKD 01, M12x1.25
- 1 adapter ZKD 16, M10x1
- 1 adapter ZKD 20, M10x1
- 1 adapter ZKD 48, M8x1
- 1 adapter ZKD 49, M10x1
- Ships in a rugged plastic case

# TESTER TO CONTROL THE CYCLINDER COMPRESSION CHAMBER OF DIESEL AND PETROL ENGINES (0-40 BAR)



item number: KP 80/5 (040331)

#### **DESCRIPTION**

- For universal use
- Quick and easy measurement of the compression pressure
- Easy to use thanks to 350 mm hose with quick coupling (DN5), check valve and pressure check valve
- Even places that are difficult to access can be reached without problems
- Easy to read precision pressure gauge NG 80 with robust rubber protection cap
- Measurement range 0 ... 40 bar / 0 ... 580 psi
- Dial: scale outside in bar, scale inside in PSI
- Available with ISO calibration certificate (extra charge)
- All individual parts are available as spare parts
- Extensive assortment of adapters as accessories.

#### SCOPE OF DELIVERY

- 1 compression tester with hose and DN5 quick coupling
- 7 adapters for petrol engines:
- 1 adapter ET 35, rigid with rubber cone Ø 20 mm
- 1 adapter ET 36, G1/4
- 1 adapter ET 37.3, M14x1.25 (200 mm long)
- 1 adapter ET 37.4, M18x1.5 (200 mm long)
- 1 adapter ZKS 01.1, M14x1.25 + M18x1.5 (70 mm long)
- 1 adapter KPA 01, M12x1.25
- 1 adapter KPA 02, M10x1
- 5 adapters for diesel engines:
- 1 adapter ZKD 01, M12x1.25
- 1 adapter ZKD 02, M24x2
- 1 adapter ZKD 06, Ø 7 mm
- 1 adapter ZKD 07; Ø 7 mm
- 1 adapter ZKD 08; Ø 9.4 mm
- 1 angle adapter ET 285 (DN5 quick coupling)
- Ships in a rugged plastic case

#### SPARE PARTS

- ET 38 (120405) release valve, suitable for KP 80/2A, KP80/3A, KP80/4, KP 80/5
- ET 242 (121140) pressure check valve in spark plug tester (VG 5)
- ET 325 (121343\_1) gauge DS 80, 0...25 bar / 0..362 psi
- ET 326 (121343\_2) gauge DS 80, 0...40 bar / 0...580 psi
- ET 327 (121243\_3) gauge DS 80, 0...60 bar / 0...870 psi
- ET 405 (121441) test hose (0.35 m) with quick coupling (DN 5)

# TESTER TO CONTROL THE CYCLINDER COMPRESSION CHAMBER (0...40 BAR) OF DIESEL AND PETROL ENGINES IN SOLID PLASTIC CASE



item number : KP 80/41 (040324\_2)

#### **DESCRIPTION**

- For universal use
- Quick and easy measurement of the compression pressure
- Easy to use thanks to 250 mm hose with quick coupling (DN5), check valve and pressure check valve
- Even places that are difficult to access can be reached without problems
- Easy to read precision pressure gauge NG 80 with robust rubber protection cap
- Measurement range 0 ... 40 bar / 0 ... 580 psi
- Dial: scale outside in bar, scale inside in PSI
- Available with ISO calibration certificate (extra charge)
- Extensive assortment of adapters as accessories

#### SCOPE OF DELIVERY

- 1 compression tester with hose and DN5 quick coupling
- 1 standard connection ET 37 for spark plug thread M14x1.25 and M18x1.5
- 1 adapter KPA 01 for spark plug thread M12x1.25
- 1 adapter ET 35, rigid with rubber cone Ø 20 mm
- 1 adapter ET 36, M14x1.25 to G1/4 thread
- 1 adapter ZKD 02 for thread M24x2 (diesel engines)
- Ships in a rugged plastic case

# TESTER TO CONTROL THE CYCLINDER COMPRESSION CHAMBER OF DIESEL AND PETROL ENGINES (0...40 BAR)



item number: KP 80/4 (040305 2)

- For universal use
- Quick and easy measurement of the compression pressure
- Easy to use thanks to 250 mm hose with quick coupling (DN5), check valve and pressure check valve
- Even places that are difficult to access can be reached without problems
- Easy to read precision pressure gauge NG 80 with robust rubber protection cap

- Measurement range 0 ... 40 bar / 0 ... 580 psi
- Dial: scale outside in bar, scale inside in PSI
- Available with ISO calibration certificate (extra charge)
- Extensive assortment of adapters as accessories.

- 1 compression tester KP 80/4, testhose with quick coupling
- 1 connecting adapter ET 37 (standard) for spark plug thread M 14x1.25, M 18x1.5
- 1 connecting adapter KPA 01 (M 12x1.25)
- 1 connecting adapter rigid with rubber cone, ET 35 (conical rubber)
- 1 adapter for connection of other makes, ET 36 (M 14x1.25 1/4" thread)
- 1 adapter for diesel vehicles ZKD 02 (M 24x2)

# COMPRESSION TESTER (0...40 BAR) ESPECIALLY FOR TRUCKS (DIESEL ENGINES)



item number:

KP 80/LKW (040396\_1)

#### **DESCRIPTION**

- Especially suitable for commercial vehicle diesel engines due to the special adapter combination
- Universally suitable for petrol and diesel engines in connection with further adapters
- Quick and easy measurement of the compression pressure
- Easy to use thanks to 250 mm hose with quick coupling (DN5), check valve and pressure check valve
- Even places that are difficult to access can be reached without problems
- Easy to read precision pressure gauge NG 80 with robust rubber protection cap
- Measurement range 0 ... 40 bar / 0 ... 580 psi
- Dial: scale outside in bar, scale inside in psi
- Available with ISO calibration certificate (extra charge)
- All individual parts are available as spare parts
- Extensive assortment of adapters as accessories
- Other vehicle or customer-specific set combinations on request.

- 1 compression tester with hose and DN5 quick coupling
- 10 adapters for diesel engines:
- 1 adapter ZKD 28, (MAN, Renault, Scania)
- 1 adapter ZKD 29, (Mercedes Benz, Renault)
- 1 adapter ZKD 30, (Mercedes Benz, MAN)
- 1 adapter ZKD 31, (Mercedes Benz)
- 1 adapter ZKD 32, (Mercedes Benz)
- 1 adapter ZDK 33, (Renault, Volvo)
- 1 adapter ZDK 34, (Mercedes Benz, MAN, Scania)
- 1 adapter ZDK 35, (MAN, Renault)
- 1 adapter ZDK 36, (Mercedes Benz, MAN)
- 1 adapter ZDK 37, (Scania)
- Ships in a rugged plastic case

# TESTER FOR DIESEL ENGINES TO CONTROL THE CYCLINDER COMPRESSION CHAMBER OF TRUCKS, MARINE AND INDUSTRIAL ENGINES



item number : KP 80/3A (040304\_2)

#### **DESCRIPTION**

- Universally suitable for engines with M14x1.25, M18x1.5 or M24x2 spark plug thread
- Versatile use for transport vehicle, ship and industrial engines
- · Quick and easy measurement of the compression pressure
- Easy to use thanks to flexible hose, check valve and pressure check valve
- Even places that are difficult to access can be reached without problems
- Easy to read precision pressure gauge NG 80 with robust rubber protection cap
- Measurement range 0...60 bar / 0...870 psi
- Dial: scale outside in bar, scale inside in PSI
- Available with ISO calibration certificate (extra charge).

#### **SCOPE OF DELIVERY**

- 1 testing unit with test hose for spark plug threads M14x1.25 and M18x1.5
- 1 adapter ZKD 02 for spark plug thread M24x2
- Delivered in a box

# COMPRESSION TESTER FOR PETROL ENGINES FOR PASSENGER CARS, TRUCKS AND MOTORCYCLES



item number : KP 80/2A (040302\_2)

- Universally suitable for engines with M12x1.25, M14x1.25 or M18x1.5 spark plug threads
- Versatile use for passenger cars, commercial vehicles and motorcycles
- · Quick and easy measurement of the compression pressure
- Easy to use thanks to flexible hose, check valve and pressure check valve
- Even places that are difficult to access can be reached without problems
- Easy to read precision pressure gauge NG 80 with robust rubber protection cap
- Measurement range 0...25 bar
- Dial: scale outside in bar, scale inside in PSI
- Available with ISO calibration certificate (extra charge)

- 1 testing unit KP 80A, test hose for spark plug threads M14x1.25 and M18x1.5
- 1 adapter KPA 01 for spark plug thread M12x1.25
- Delivered in a box

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