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SERVICE EQUIPMENT FOR SCR SYSTEMS

- For filling, diagnosis, testing, flushing, cleaning and extraction.
- SCR systems are used in almost all vehicles that are subject to the Euro 6d emission standard.
- AdBlue® (urea-water solution) expires after a certain period. The quality is assessed with a refractometer.

AdBlue® is a registered trademark of VDA, the Association of the German Automotive Industry.

SET FOR PRESSURE AND LEAK TESTING FOR SCR SYSTEMS AND ASSESSMENT OF THE UREA CONCENTRATION



item number :

FP 07_AB-Set (041228_4)

DESCRIPTION

- Practical set for quick and easy diagnosis and testing of the SCR system pressure and the system tightness as well as for measuring the urea concentration (AdBlue® *)
- AdBlue® * resistant design completely free of non-ferrous metals
- The connection to the SCR system is made using plug connections.
- Vacuum manometer NG 63 with protective rubber cap
- Measuring range - 1 ... + 9 bar
- Refractometer for measuring the urea concentration (AdBlue® *) in order to be able to assess the quality of the urea-water solution.
- Long storage times cause a gradual decomposition of the urea-water solution.
- An adjustable eyepiece enables adjustment to the user's eyesight.
- The result is easy to read on the light-dark line.
- Refractometer is a recommended test device from Mercedes Benz AG.
- AdBlue® is a registered trademark of VDA e.V., Association of the German Automotive Industry.

SCOPE OF DELIVERY

- Test facility FP 07_AB
- Refractometer RFM 03_%_AB
- Dispensing pipette
- Supplied in a robust plastic case with a CNC-milled inlay

ANALYSIS KIT FOR UREA CONCENTRATION / ADBLUE® * WITH OIL TEST STRIPS



item number :
AEKP09_LR (061211_1)

DESCRIPTION

- For taking and assessing samples of the urea-water solution from the tank
- Measurement options:
 - Concentration of the urea-water solution
 - Pollution of the urea-water solution from diesel fuel
 - Long storage times cause a gradual decomposition of the urea-water solution
 - With the help of the refractometer, the quality of the urea-water solution can be assessed.
 - An adjustable eyepiece allows adjustment to the user's eyesight
 - The result is easy to read on the light-dark line
 - With the help of the oil test strips, diesel fuels can be detected in the urea-water solution

* Adblue® is a registered trademark of the VDA e.V., association of the German automotive industry

SCOPE OF DELIVERY

- 1 refractometer RFM 03_%_AB
- 1 pipette
- 1 box of oil strips (100 test strips)
- Delivery in a sturdy plastic case

FLOW METER FOR SCR TWO-SUBSTANCE NOZZLES



item number :
DFLp 5-50 (061122_1)

DESCRIPTION

- The DFLp series is suitable to test small mobile compressors.
- Applications: e.g. suspension, pneumatic pressure driven SCR-Systems (in large mobile engines), etc.

- Flow measurement range: 5...50 L/min
- Media: Air (only)
- Pressure measurement range: 0...25 bar
- Inlet: Quick connector for PA-tube, 8 mm
- Outlet: 3/8", offen
- NOTE: DFLp 5-50 is NOT suitable to test the compressor of pneumatic brake systems! For this specific application we recommend the Leitenberger-device VPG 02.
- Further versions on demand

FLOW METER FOR SCR TWO-SUBSTANCE NOZZLES

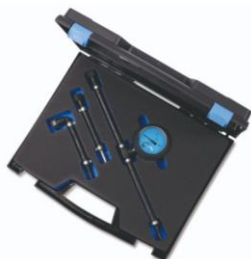


item number :
DFLp 4-30 (061121_1)

DESCRIPTION

- The DFLp series is suitable to test small mobile compressors.
- Applications: e.g. suspension, pneumatic pressure driven SCR-Systems (in large mobile engines), etc.
- Flow measurement range: 4...30 L/min
- Media: Air (only)
- Pressure measurement range: 0...25 bar
- Inlet: Quick connector for PA-tube, 8 mm
- Outlet: 3/8", open
- NOTE: DFLp 4-30 is NOT suitable to test the compressor of pneumatic brake systems! For this specific application we recommend the Leitenberger-device VPG 02.
- Further versions on demand.

SCR-DIAGNOSIS KIT



item number :
AEKP 04 (061205_1)

DESCRIPTION

- For quick and easy diagnosis and testing of the delivery pressure, the SCR system pressure and the system tightness
- The connection to the SCR system is made using SAE plug connections (\varnothing 7.89 mm / \varnothing 9.49 mm)
- Vacuum manometer NG 63 with rubber protective cap
- Measuring range -1 ... + 15 bar
- Incl. Adapter set \varnothing 7.89 / 9.49 mm

SCOPE OF DELIVERY

- Vacuum pressure gauge NG 63
- 2x adapter hose
- Plastic case including foam insert

FILLER UNIT TO FILL SCR SYSTEMS WITH ADBLUE®* OPERATING ADDITIVE



item number :

ABE 02_MB (061201_4)

DESCRIPTION

- Filler unit, to be used, especially to fill SCR systems with AdBlue®* operating additive, incl. 10 l container.
- To be used, especially, for all Mercedes-Benz cars with an SCR system.
- Not to be used for commercial vehicles, e.g. Sprinters or transport vehicles.
- It is possible to use the filler unit directly with the original AdBlue®* operating additive container A 004 989 04 20.
- Filler unit recommended by Daimler AG.
- This saves transferring the fluid from one container to another and eliminates the possibility of contaminating the AdBlue®* operation additive.

- The filler is designed to function without compressed air.
- easy to use
- can be used anywhere
- integrated device to prevent overfilling the SCR system
- low cost, entry level maintenance of SCR systems

AdBlue® is a registered Trade Mark of VDA, Verband der Deutschen Automobilindustrie e.V.

SCOPE OF DELIVERY

- 1 filler unit, including container connection
- 1 tank filling socket for MB vehicles
- 1 plastic container, capacity 10 litres (for emergency use, empty)
- 1 transparent filler hose, length 1.60 m
- 1 transp. venting hose, length 2.00 m

DIAGNOSIS, FLUSHING, CLEANING OF DENOX-MODULES (DENOX 2.1 AND 2.2)



item number :
AEKP 08_LR (061209_2)

DESCRIPTION

- For quick, safe and professional testing and diagnosis of injection quantity, injection pressure, spray pattern and various visual inspections
- Suitable for vehicles and diesel engines with the urea injection system Denoxtronic 2.1 and 2.2 (Bosch), e.g. for trucks, construction, forestry and agricultural machinery as well as industrial systems
- For cleaning and rinsing the system and components with tap water and distilled water; Testing of AdBlue® for mineral oil contamination
- Premium product Made in Germany
- All individual parts available as spare parts
- Examples of use:
 - Function test of the SCR system
 - Supply pressure measurement
 - Spray pattern check
 - Dosing quantity measurement
 - Visual inspection in the line circuit
 - Flushing and cleaning of the supply module and the metering valve with distilled water
 - Loosening of crystal accumulations
 - Line flushing with garden hose connection
 - Cleaning of contaminated AdBlue® tanks
 - Oil detection in AdBlue®
 - Operation of the vehicle with AdBlue® from a canister "tank replacement operation"
- *AdBlue® is a registered trademark of VDA, the Association of the German Automotive Industry.

SCOPE OF DELIVERY

- 2x adapter hose sys.7.89/9.49
- 1x pressure test unit 0-16 bar
- 1x precision scale EMB-1 BE
- 1x measuring cylinder 250 ml
- 1x adapter Gardena for sys.9.49
- 1x adapter Gardena for sys.7.89
- 1x extension sys.7.89 - 1 m
- 1x electric cable
- 1x connection sys.7.89 - 1 m
- 1x oil test paper 907 60
- 1x lock sys.9.49
- 1x lock sys.7.89
- 2x protection cap, black system 7.89 mm
- 4x protection cap, yellow system 9.49 mm
- 1x pump unit
- 1x container
- 1x connecting hose sys.9.49
- 2x extension sys.9.49 - 2 m
- 1x Y-coupling
- 1x adapter sys. 9.49 L=100
- 1x plastic case incl. foam inlay

TABLE

Delivery in solid plastic case

REFRACTOMETER (FOR TESTING THE UREA CONCENTRATION IN ADBLUE®* OPERATING ADDITIVE)



item number :
RFM 03_%AB (110306_25)

DESCRIPTION

- Refractometer for measuring the urea concentration (AdBlue®*) to assess the quality of the urea-water solution
- Long storage times cause a slow decomposition of the urea-water solution
- An adjustable ocular allows for adjustment to the user's visual acuity
- Result is easily readable on the light-dark line
- Testing unit recommended by Daimler AG.
- *AdBlue® is a registered trademark of VDA, the Association of the German Automotive Industry.

SAMPLING AND CONCENTRATION TEST KIT FOR ADBLUE®* OPERATING ADDITIVE



item number :
AEKP 01 (061202_1)

DESCRIPTION

- With the AEKP 01, specimens of AdBlue®* can be extracted from the tank and evaluated.
- Evaluation options:
- Refractometer for AdBlue®* operating additive concentration (f.descrip. see RFM 03_%AB)
- Delivery rate of the SCR pump (only with the support of the vehicle's software)
- Determination of the injected volume of AdBlue®* operating additive (only with the support of the vehicle's own Software)

*AdBlue® is a registred Trade Mark of VDA, Verband der Deutschen Automobilindustrie e.V.

SCOPE OF DELIVERY

- 1 RFM 03 refractometer
- 10 pipettes
- 1 extractor for specimens with suction ball
- 1 measuring cylinder with scale, 500 ml
- 1 narrow-necked PE bottle, 1000 ml capacity
- 1 silicone hose, dia. 9 mm, length 5.00 m
- 1 strong plastic case

DEVICE TO MEASURE THE OPERATING PRESSURE AND TIGHTNESS OF SCR-SYSTEMS, WITH DIGITAL GAUGE



item number :
FPD 07_AB (041228_3)

DESCRIPTION

- Device to measure the operating pressure and tightness of SCR-systems.
- With digital gauge for higher measurement accuracy and easier read out.
- With push-in fitting for the connection to SCR-system.
- **measuring range -1...+16 bar**
- **digital gauge with rubber protective cap**

TEST DEVICE FOR DETERMINING THE SCR SYSTEM PRESSURE AND TIGHTNESS AND THE SUCTION VACUUM



item number :
FP 07_AB (041228_1)

DESCRIPTION

- Device to measure the operating pressure and tightness of SCR-systems.
- With push-in fitting for the connection to SCR-system.
- Relief through ergonomic 12 o'clock attachment of the pressure gauge
- measuring range -1...+9 bar
- compound gauge DS 63 mm (2 1/2")

TIGHTNESS OF SCR-SYSTEM



item number :
AEKP 06 (061207_1)

DESCRIPTION

- The Leitenberger test device AEKP 06 was designed to detect and localize leaks in SCR-systems.
- With the test device AEKP 06 an empty SCR-system can be tightness tested.
- The test pressure is fixed according to the customers requirements – so the operator cannot adjust the test pressure accidentally to high in order to avoid any damage of the SCR-System.
- The test pressure is induced via the regular filling neck and is pressurizing the whole SCRsystem.
- Operated with workshop pressure.
- Results can be obtained in a very short time.

FILLER UNIT TO FILL SCR SYSTEMS (WITH GAS-DISPLACEMENT TECHNIQUES)



item number :
ABE 03_LR (061201_5)

DESCRIPTION

- For quick and easy filling of the SCR system with AdBlue®* (urea-water solution)
- Filling by gravity using the vapour recovery method
- Mobile use (independent of electrical or pneumatic supply)
- Closed system prevents overfilling
- No odour nuisance to the user
- Splashing/spilling excluded
- Suitable for:
 - All vehicles with SCR systems from the brands VW, AUDI, Skoda, SEAT, VW commercial vehicles
 - All vehicles with SCR systems from the Mercedes Benz, passenger cars and Sprinter brands

*AdBlue® is a registered trademark of VDA, the Association of the German Automotive Industry

SCOPE OF DELIVERY

- 1 filler unit, including container connection
- 1 plastic container, capacity 10 litres
- 1 transparent filler hose, length 1.60 m
- 1 transp. venting hose, length 2.00 m

FILLING HOSE FOR 10 L CONTAINER



item number :
ABE 04_LR (061208_1)

DESCRIPTION

- To fill SCR systems with AdBlue®* operating additive.
- To be used as adapter between container and tank.
- For transferring the fluid from the container into the tank.
- Eliminates the possibility of contaminating the environment with AdBlue®* operating additive.
- *AdBlue® is a registered Trade Mark of VDA, Verband der Deutschen Automobilindustrie e.V.

SCR-ADAPTER, REFUEL CONNECTOR, INTERMEDIATE PIECE



item number :
ET 888 (111863_1)

DESCRIPTION

In case that the filling opening is located in the fuel tank neck, remove the 2 hoses of the ABE 03_LR from the tank side adapter and connect them with the ET 888.

EQUIPMENT

- Accessory for ABE 03_LR, ABE 02_MB, AEKP 06.

VACUUM BOX FOR EVACUATION OF THE SCR TANK



item number :
VB 01_AB (100801_5)

DESCRIPTION

- For quick and safe extraction of AdBlue®* or for emptying the SCR tank in the vehicle
- Applications: when changing the AdBlue®* fluid (urea-water solution); when changing defective components, e.g. SCR pump
- The special design, the large intake volume of up to 10 litres, the integrated release valve as well as the impact-proof and unbreakable plastic enable safe use, both mobile and stationary
- A venturi nozzle with connection to the workshop compressed air supply creates a vacuum in the vacuum box. The evacuated box stores the vacuum, is separated from the workshop compressed air supply and can be used on the go
- The suction process takes place at the respective place of use by opening the inlet valve on the suction hose.
- *AdBlue® is a registered trademark of VDA, the Association of the German Automotive Industry.

SCOPE OF DELIVERY

- 1 vacuum box with venturi nozzle
- 1 transparent suction hose with connections, length 2.50 m (8.3 ft)
- supplied in a carton pack

RUGGED SUCTION PUMP, WITH STAINLESS-STEEL HOUSING, 12 V/DC



item number :
EAP 10_12 (061301_1)

DESCRIPTION

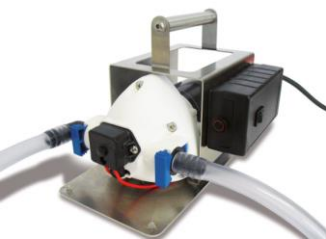
- Designed especially for use with operating materials in SCR systems (urea-water solution).
- Design with ON/OFF switch and priming protection.
- Power supply with either plug for cigarette lighter or battery terminals (motor vehicle)
- feed rate 10 ltr./min.
- sturdy stainless-steel housing
- self-priming
- easy to use
- quiet operation

Caution: Cannot be used for gasoline and highly flammable media!

SCOPE OF DELIVERY

- 1 suction pump
- 1 suction hose, length 1.00 m (3.3 ft)
- 1 outlet hose, length 2.00 m (6.6 ft)
- 1 power supply cable with plug and battery clamps, length 3.00 m (10 ft.)

RUGGED SUCTION PUMP, WITH STAINLESS-STEEL HOUSING, 24 V/DC



item number :
EAP 10_24 (061302_1)

DESCRIPTION

- Designed especially for use with operating materials in SCR systems (urea-water solution).
- Design with ON/OFF switch and priming protection.
- Power supply with either plug for cigarette lighter or battery terminals (motor vehicle)
- feed rate 10 ltr./min.
- sturdy stainless-steel housing
- self-priming
- easy to use
- quiet operation
- Caution: Cannot be used for gasoline and highly flammable media!

SCOPE OF DELIVERY

- 1 suction pump
- 1 suction hose, length 1.00 m (3.3 ft)
- 1 outlet hose, length 2.00 m (6.6 ft)
- 1 power supply cable with plug and battery clamps, length 3.00 m (10 ft.)
- delivery in solid plastic case

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