Innovation is our mission!
<table>
<thead>
<tr>
<th>ITEM</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER PUMP TEST</td>
<td>160</td>
</tr>
<tr>
<td>WATER PUMP TOOL</td>
<td>160</td>
</tr>
<tr>
<td>COOLING SYSTEM VACUUM FILLING DEVICE</td>
<td>160 - 161</td>
</tr>
<tr>
<td>COOLING SYSTEM CONE TEST ADAPTER</td>
<td>161</td>
</tr>
<tr>
<td>PRESSURE TEST PUMPS</td>
<td>161</td>
</tr>
<tr>
<td>COOLER ADAPTER</td>
<td>162 - 164</td>
</tr>
<tr>
<td>COOLING SYSTEM DIAGNOSIS SYSTEM SET</td>
<td>164</td>
</tr>
<tr>
<td>CYLINDER HEAD LEAK TESTER</td>
<td>165</td>
</tr>
<tr>
<td>THERMAL SWITCH SOCKET</td>
<td>165</td>
</tr>
<tr>
<td>LOCKING SCREW Turner</td>
<td>165</td>
</tr>
<tr>
<td>COUNTER HOLD TOOL</td>
<td>166 - 167</td>
</tr>
<tr>
<td>FROST PROTECTION AND COOLANT WATER TESTER</td>
<td>167 - 168</td>
</tr>
<tr>
<td>TEMPERATURE MEASURING DEVICE</td>
<td>168</td>
</tr>
<tr>
<td>HOSE CLAMP TOOL</td>
<td>168 - 172</td>
</tr>
<tr>
<td>HOSE CLAMP TOOLS</td>
<td>172 - 173</td>
</tr>
<tr>
<td>DRIP PANS</td>
<td>173</td>
</tr>
<tr>
<td>MEASURING BEAKER, JUG AND FUNNEL</td>
<td>174</td>
</tr>
<tr>
<td>TRANSFER PUMPS</td>
<td>174 - 175</td>
</tr>
</tbody>
</table>
WATER PUMP TEST

Water pump testing set

- Makes an effective display of the cooling fluid flow possible
- Not necessary to remove the water pump
- Time-saving diagnosis

WATER PUMP TOOL

Holding wrench for water pump belt pulleys

- Ideal for locking and releasing during assembly and disassembly of water pump belt pulleys
- Easy to remove fixed screws
- Internal square drive allows for lengthening possibilities
- Chrome vanadium

Application range: Audi, Volkswagen, etc.

Cooling system vacuum filling device

Cooling system vacuum filling valve

- Ideally suited to the filling and testing of the tightness of the cooling system
- Includes valves, connections and dial gauge
- With supporting chain to hang it up

Coolant system filling hose

- Ideally suited to the filling system
- Includes quick coupling
- Clear
- With suction head base

150.1960 Cooling system vacuum filling valve 577

150.1961 1600.0 208

Water pump fixing tool for Opel

- Ideal for quick and easy assembly and disassembly of water pumps
- Required to secure the water pump belt pulley
- Time saving
- Robust design
- Special steel

Application range: Opel Astra, Insignia, Signum, Omega, Speedster, GT, Vectra, Zafira, etc. with engine code: A 20 NHT, Z 20 NHT, Z 20 NHH, Z 22 SE, Z 22 SE, Z 22 XE, Z 22 YH

170.1995 150.0 Water pump fixing tool for Opel 460

150.1961 1500.0 308

Volkswagen water pump removal tool set

- Ideal for the quick and easy removal of the water pump or the water pump's gear on diesel engines
- Also suitable for turning the crank shaft to the TDC position as well as holding the fixing screws when removing
- Time saving
- Robust design
- Special steel

Application range: Volkswagen (Touareg 2.5 Litre straight 5 cylinder diesel engine (RS) >2003 with engine codes: MKB, BAC, BLK, BPD, BPE), Volkswagen (Transporter Multivan T5 LT 2.5 Litre straight 5-cylinder diesel engine (RS) >2004 with engine codes MKB, AXD, AXE, BLJ, BNZ, BPC)

170.1992 150.0 580
Vacuum cooling system filling device

- Universally suitable for the filling of the cooling system of current common vehicles
- Through production of a vacuum within the cooling system the new coolant becomes of an even density sucked into the system
- During the vacuum process the cooling system is tested simultaneously for density
- Bubble-free filling prevents air inclusions in the cooling system
- A cleaning of the cool system is unnecessary
- Universally suitable through conical rubber connection piece
- In durable plastic storage case

Please note: Filling device does not empty automatically the old coolant!

Technical data:

- Manometer: bis max. 30 PSI / -1 Bar
- Air pressure: min. 550kPa - max. 690kPa
- Air consumption: max. 1600 min/-1 Bar
- Low pressure: 0.85 bar at 690kPa

<table>
<thead>
<tr>
<th>- Code</th>
<th>Description</th>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>160.0107</td>
<td>Vacuum cooling system filling device</td>
<td>1 pc</td>
<td>-</td>
</tr>
</tbody>
</table>

COOLING SYSTEM CONE TEST ADAPTER

Cooling system cone test adapter

- For testing pressure and diagnosing leaks in the coolant system
- The pressure generated holds the matching rubber cone in the cooler or expansion tank opening
- Can be fitted directly onto the cooler or expansion tank
- Secure fit
- Simple handling
- Can be used with manual vacuum pump or filling device
- Robust design

Application range: Cars, transporters, etc.

<table>
<thead>
<tr>
<th>Ø mm</th>
<th>H mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>455.0136</td>
<td>11.0 - 31.0</td>
</tr>
<tr>
<td>455.0137</td>
<td>24.0 - 38.0</td>
</tr>
<tr>
<td>455.0138</td>
<td>34.0 - 50.0</td>
</tr>
</tbody>
</table>

Cooling system cone test adapter No.1

- For testing pressure and diagnosing leaks in the coolant system
- The pressure generated holds the matching rubber cone in the cooler or expansion tank opening
- Can be fitted directly onto the cooler or expansion tank
- Secure fit
- Simple handling
- Can be used with manual vacuum pump or filling device
- Robust design

Application range: Cars, transporters, etc.

<table>
<thead>
<tr>
<th>Ø mm</th>
<th>H mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>455.0141</td>
<td>17.0 - 37.0</td>
</tr>
<tr>
<td>455.0142</td>
<td>28.0 - 41.0</td>
</tr>
<tr>
<td>455.0143</td>
<td>37.0 - 50.0</td>
</tr>
<tr>
<td>455.0144</td>
<td>41.0 - 55.0</td>
</tr>
</tbody>
</table>

Cooling system cone test adapter No.2

- For testing pressure and diagnosing leaks in the coolant system
- The pressure generated holds the matching rubber cone in the cooler or expansion tank opening
- Can be fitted directly onto the cooler or expansion tank
- Secure fit
- Simple handling
- Can be used with manual vacuum pump or filling device
- Robust design

Application range: Cars, transporters, etc.

<table>
<thead>
<tr>
<th>Ø mm</th>
<th>H mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>455.0145</td>
<td>27.0</td>
</tr>
<tr>
<td>455.0146</td>
<td>37.0</td>
</tr>
<tr>
<td>455.0147</td>
<td>41.0</td>
</tr>
<tr>
<td>455.0148</td>
<td>46.0</td>
</tr>
</tbody>
</table>

Cooling system cone test adapter set 17.0 - 50.0 mm

- For testing pressure and diagnosing leaks in the coolant system
- The pressure generated holds the matching rubber cone in the cooler or expansion tank opening
- Can be fitted directly onto the cooler or expansion tank
- Secure fit
- Simple handling
- Can be used with manual vacuum pump or filling device
- Robust design

Application range: Cars, transporters, etc.

<table>
<thead>
<tr>
<th>Ø mm</th>
<th>H mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>455.0130</td>
<td>17.0 - 50.0</td>
</tr>
</tbody>
</table>

Cooling system cone test adapter set 48.5 mm

- For testing pressure and diagnosing leaks in the coolant system
- Also suitable for filling the system alongside a filling valve
- The pressure generated holds the matching rubber cone in the cooler or expansion tank opening
- Can be fitted directly onto the cooler or expansion tank
- Secure fit due to expansion
- Removes need to purchase single adapters
- For nearly all vehicle manufacturers
- Simple handling
- Optimal use alongside KS Test pump 455.0111
- Robust design made from POM (polysynthethene)

Application range: Cars, transporters, etc.

<table>
<thead>
<tr>
<th>Ø mm</th>
<th>H mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>455.0140</td>
<td>48.5</td>
</tr>
</tbody>
</table>

Cooling system cone test adapter No.4

- For testing pressure and diagnosing leaks in the coolant system
- Also suitable for filling the system alongside a filling valve
- The pressure generated holds the matching rubber cone in the cooler or expansion tank opening
- Can be fitted directly onto the cooler or expansion tank
- Secure fit due to expansion
- Removes need to purchase single adapters
- For nearly all vehicle manufacturers
- Simple handling
- Optimal use alongside KS Test pump 455.0111
- Robust design made from POM (polysynthethene)

Application range: Cars, transporters, etc.

<table>
<thead>
<tr>
<th>Ø mm</th>
<th>H mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>455.0141</td>
<td>37.0</td>
</tr>
<tr>
<td>455.0142</td>
<td>41.0</td>
</tr>
<tr>
<td>455.0143</td>
<td>50.0</td>
</tr>
</tbody>
</table>

Cooling system cone test adapter No.3

- For testing pressure and diagnosing leaks in the coolant system
- Also suitable for filling the system alongside a filling valve
- The pressure generated holds the matching rubber cone in the cooler or expansion tank opening
- Can be fitted directly onto the cooler or expansion tank
- Secure fit due to expansion
- Removes need to purchase single adapters
- For nearly all vehicle manufacturers
- Simple handling
- Optimal use alongside KS Test pump 455.0111
- Robust design made from POM (polysynthethene)

Application range: Cars, transporters, etc.

<table>
<thead>
<tr>
<th>Ø mm</th>
<th>H mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>455.0144</td>
<td>30.0</td>
</tr>
</tbody>
</table>

Hand pump with manometer

- Ideal for testing tightness in the coolant system and heating
- Measurement range from 0 bar 2.5
- With pressure-release valve
- Includes hose

<table>
<thead>
<tr>
<th>Φ mm</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>195.1931</td>
<td>0 - 2.5</td>
</tr>
</tbody>
</table>

Hand pump with manometer

- Ideal for testing tightness in the coolant system and heating
- Measurement range from 0 bar 2.5
- With pressure-release valve
- Manometer with protective rubber cap
- Robust design

<table>
<thead>
<tr>
<th>Φ mm</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>455.0111</td>
<td>17.0</td>
</tr>
</tbody>
</table>
COOLER ADAPTER

Cooling system test socket R123/R124
- Ideally suited to test the cooler cover
- Serves as an adapter between the hand pump and cooler cover
- Double connection
- Black

Cooling system test socket R123/R125
- Ideally suited to test the cooler cover
- Serves as an adapter between the hand pump and cooler cover
- Double connection
- Blue

Cooling system bayonet adapter, medium
- Ideal for testing the coolant system
- With quick coupling
- Aluminium

Application range: Ford, Peugeot, Subaru, Chrysler, Acura, GM, Mitsubishi, Nissan, Mazda, Toyota, Infinity, etc.

Cooling system bayonet adapter, large
- Ideal for testing the coolant system
- With quick coupling
- Aluminium

Application range: Mercedes (W123, W126, W124, W201, Unimog), GM (Buick), Jeep, etc.

Cooling system bayonet adapter, small
- Ideal for testing the coolant system
- With quick coupling
- Aluminium

Application range: Honda, Toyota, Suzuki, Mitsubishi, Chrysler, Acura, Lexus, etc.

Coolant system adapter M 42 x 2.5
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Purple
- Made from shock-resistant plastic

Application range: Mercedes (A class, Sprinter >2009), etc.

Coolant system adapter M 42 x 3.0
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Brown
- Made from shock-resistant plastic

Application range: Citroën, Fiat, Alfa Romeo, Mini, Peugeot, Jeep, Sterling, Renault, Saab, Volvo, etc.

Coolant system adapter M 45 x 3.0
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Red
- Made from shock-resistant plastic

Application range: Audi, Volkswagen, etc.

Coolant system adapter M 34 x 3.0
- Ideal for testing the coolant system
- With quick coupling
- External thread
- Violet
- Made from shock-resistant plastic

Application range: Toyota (RAV 4, Previa), etc.

Coolant system adapter M 42 x 2.5
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Purple
- Made from shock-resistant plastic

Application range: Mercedes (A class, Sprinter >2009), etc.

Coolant system adapter M 42 x 3.0
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Brown
- Made from shock-resistant plastic

Application range: Citroën, Fiat, Alfa Romeo, Mini, Peugeot, Jeep, Sterling, Renault, Saab, Volvo, etc.

Coolant system adapter M 45 x 3.0
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Red
- Made from shock-resistant plastic

Application range: Audi, Volkswagen, etc.

Coolant system adapter M 34 x 3.0
- Ideal for testing the coolant system
- With quick coupling
- External thread
- Violet
- Made from shock-resistant plastic

Application range: Toyota (RAV 4, Previa), etc.
Coolant system adapter M 48 x 4.0
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Made from shock-resistant plastic

Application range: BMW (3 series E36, E46, E90, 5 series E34, E39, 7er E32, E38), etc.

Coolant system adapter M 48 x 4.0
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Turquoise
- Made from shock-resistant plastic

Application range: Saab (Alhambra), Volkswagen (Sharan 1.8 T and 2.8 L)

Coolant system adapter M 50 x 2.5
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Green
- Made from shock-resistant plastic

Application range: Ford, Opel (Insignia, Corsa D), Jaguar, Land Rover, Ssangyong, etc.

Coolant system adapter M 45 x 3.0
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Moss green
- Made from shock-resistant plastic

Application range: BMW Mini >2008, PSA 2008-2010, etc.

Coolant system adapter M 45 x 3.0
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- White
- Made from shock-resistant plastic

Application range: Saab (Eco Power 9-3, 9-5)

Coolant system adapter M 46 x 3.0
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Turquoise
- Made from shock-resistant plastic

Application range: Seat (Alhambra), Volkswagen (Sharan 1.8 T and 2.8 L)

Coolant system adapter M 46 x 3.0
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Pink
- Made from shock-resistant plastic

Application range: Mazda (3), etc.

Coolant system adapter M 46 x 3.0
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Orange
- Made from shock-resistant plastic


Coolant system adapter M 46 x 3.0
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Made from shock-resistant plastic

Application range: Ford, Opel (Insignia, Corsa D), Jaguar, Land Rover, Ssangyong, etc.

Coolant system adapter M 48 x 3.0
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Turquoise
- Made from shock-resistant plastic

Application range: Saab (Alhambra), Volkswagen (Sharan 1.8 T and 2.8 L)

Coolant system adapter M 48 x 2.5
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Orange
- Made from shock-resistant plastic

Application range: Ford (Mondeo, C-Max >2003), etc.

Coolant system adapter M 50 x 3.0
- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Yellow
- Made from shock-resistant plastic

Application range: Ford (Mondeo, C-Max >2003), etc.
COOLING SYSTEM DIAGNOSIS SYSTEM SET

Universal cooling system diagnostic service set

- Innovative and universal diagnostic device for testing the pressure in the cooling system as well as the pressure caps
- Suitable for almost all common vehicles with water-cooled engines thanks to the inflatable universal bladder sealing system
- Test cap with 6 special double-sided adapters
- Quickly find leaks in the cooling system, e.g. cylinder head seals, cooling unit, water pumps, hoses, etc.
- The pressure loss inspection is carried out via the manometer
- Quick and efficient use
- Measurement range from 0 bar to 2.5 bar
- In durable plastic storage case

Application range: for almost 95% of all vehicle manufacturers

Coolant system adapter M 52.5 x 3.0

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Orange
- Made from shock-resistant plastic

Application range: Cadillac, Chevrolet, Fiat (Chroma), Ford, Isuzu, Mazda (6), Opel, Astra, Meriva, Zafira, Signum), Saab, Suzuki, etc.

Coolant system adapter M 58 x 3.0

- Ideal for testing the coolant system
- With quick coupling
- External thread
- Black
- Made from shock-resistant plastic

Application range: Volkswagen (Beetle, Golf, Sharan, Passat, T4, T5, Varito), etc.

Coolant system adapter M 60 x 4.0

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Blue
- Made from shock-resistant plastic

Application range: Mercedes (C class, E class, S class), etc.

Coolant system adapter M 62 x 3.0

- Ideal for testing the coolant system
- With quick coupling
- External thread
- Black
- Made from shock-resistant plastic

Application range: Audi (A4, A5, A6), BMW, Volkswagen (Passat 1.9TDI, Golf 4 1.4FSI, Touran 1.4TSI), Škoda (Fabia 1.4), Porsche (Cayenne), etc.

COOLING SYSTEM TEST SET

Universal cooling system diagnostic service set

- Suitable for almost all vehicles with water-cooled engines
- The pressure loss inspection is carried out via the manometer
- Quick and efficient use
- Measurement range from 0 bar to 2.5 bar
- In durable plastic storage case

Application range: for almost 95% of all vehicle manufacturers

Consists of:

- Hand pump with manometer 142
- Cooling system vacuum filling valve 937
- Cooling system filling hose 238
- Cooling system test socket R123/R124 490
- Cooling system test socket R134a 425
- Cooling system bayonet adapter small 816
- Cooling system bayonet adapter medium 817
- Cooling system bayonet adapter large 1140
- Cooling system bayonet adapter small 816
- Adapter M 50 x 2.5 62
- Adapter M 50 x 3.0 90
- Adapter M 50 x 4.0 80
- Adapter M 42 x 3.0 56
- Adapter M 45 x 3.0 90
- Adapter M 48 x 2.0 90
- Adapter M 48 x 3.0 56
- Adapter M 48 x 4.0 80
- Adapter M 52 x 2.0 91
- Adapter M 52 x 3.0 91
- Adapter M 52 x 4.0 91
- Adapter M 62 x 3.0 53
- Adapter M 62 x 4.0 90
- Adapter M 62 x 5.0 53
- Adapter M 62 x 6.0 90
- Adapter M 62 x 7.0 90
- Adapter M 62 x 8.0 90
- Rubber cap adapter 14.4x45mm Lx35mm 80
- Internal thread cap with 6 special double-sided adapters 90
- Wrench for adapter 53
CO2 Cylinder head leak testing set

- For the locating of leaks on combustion engines
- Rational and dependable finding of cracks and leakages
- Potential CO2 content in the coolant solution is detected
- Ideally suited for the cylinder head, cylinder head seals and engine block
- Leaks are visible through discoloration of the test fluid
- For all current vehicles with water cooled engines (Gas, Diesel and Petrol)
- Automatic regenerating reaction fluid for multiple use
- In durable plastic storage case

Special socket wrench set
- Open 6-point profile
- Suitable for assembling upper and side cables temperature sensors, thermal switches and other parts
- Also suitable for screwing in angled pipes
- Matt chrome
- Chrome vanadium

Special socket wrench set
- Open 6-point profile
- Suitable for assembling upper and side cables temperature sensors, thermal switches and other parts
- Also suitable for screwing in angled pipes
- Matt chrome
- Chrome vanadium
- Clip mount

Thermal switch sensor socket
- Ideally suited to the assembly and disassembly of hard-to-reach thermal switches
- Also for thermal switches with long contact pins or plastic casings, as well as switches with cables
- Slotted design
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Phosphates
- Chrome molybdenum

Application range: Opel Corsa B, Volkswagen models >2006, etc.

Locking screw turner
- For damage-free screwing and unscrewing of the air vent locking screws on the cooler
- Special cross profile
- Universal use also for low height
- With 1-bar
- Chrome plated and mirror polished
- Chrome vanadium

Application range: BMW

Special socket wrench
- Open 6-point profile
- Suitable for assembling upper and side cables temperature sensors, thermal switches and other parts
- Also suitable for screwing in angled pipes
- Matt chrome
- Chrome vanadium

Special socket wrench
- Open 6-point profile
- Suitable for assembling upper and side cables temperature sensors, thermal switches and other parts
- Also suitable for screwing in angled pipes
- Matt chrome
- Chrome vanadium
- Clip mounting

Thermal switch socket

- Ideally suited to the assembly and disassembly of hard-to-reach thermal switches
- Also for thermal switches with long contact pins or plastic casings, as well as switches with cables
- Slotted design
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Phosphates
- Chrome molybdenum

Application range: Opel Corsa B, Volkswagen models >2006, etc.

CO2 Cylinder head leak testing set

- For the locating of leaks on combustion engines
- Rational and dependable finding of cracks and leakages
- Potential CO2 content in the coolant solution is detected
- Ideally suited for the cylinder head, cylinder head seals and engine block
- Leaks are visible through discoloration of the test fluid
- For all current vehicles with water cooled engines (Gas, Diesel and Petrol)
- Automatic regenerating reaction fluid for multiple use
- In durable plastic storage case

Special socket wrench
- Open 6-point profile
- Suitable for assembling upper and side cables temperature sensors, thermal switches and other parts
- Also suitable for screwing in angled pipes
- Matt chrome
- Chrome vanadium

Special socket wrench
- Open 6-point profile
- Suitable for assembling upper and side cables temperature sensors, thermal switches and other parts
- Also suitable for screwing in angled pipes
- Matt chrome
- Chrome vanadium
- Clip mounting

Thermal switch sensor socket
- Ideally suited to the assembly and disassembly of hard-to-reach thermal switches
- Also for thermal switches with long contact pins or plastic casings, as well as switches with cables
- Slotted design
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Phosphates
- Chrome molybdenum

Application range: Opel Corsa B, Volkswagen models >2006, etc.

Locking screw turner
- For damage-free screwing and unscrewing of the air vent locking screws on the cooler
- Special cross profile
- Universal use also for low height
- With 1-bar
- Chrome plated and mirror polished
- Chrome vanadium

Application range: BMW

Special socket wrench
- Open 6-point profile
- Suitable for assembling upper and side cables temperature sensors, thermal switches and other parts
- Also suitable for screwing in angled pipes
- Matt chrome
- Chrome vanadium
- Clip mounting

Thermal switch socket

- Ideally suited to the assembly and disassembly of hard-to-reach thermal switches
- Also for thermal switches with long contact pins or plastic casings, as well as switches with cables
- Slotted design
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Phosphates
- Chrome molybdenum

Application range: Opel Corsa B, Volkswagen models >2006, etc.
### COUNTER HOLD TOOL

**Counter hold wrench, 39.0 mm**
- For turning the water pump
- To tighten / depressurize the drive belt
- Burnished
- Special steel

Application range: Opel/Vauxhall, GM OHV engines

**Counter hold wrench, 41.0 mm**
- For turning the water pump
- To tighten / depressurize the drive belt
- Burnished
- Special steel

Application range: Opel/Vauxhall, GM OHC engines 1.2, 1.3, 1.4 and 1.6 l

**Counter hold wrench, 46.0 mm**
- For turning the water pump
- To tighten / depressurize the drive belt
- Burnished
- Special steel

Application range: Suitable for Opel and GM OHC engines

---

### Universal Visco ventilator wrench
- For removing the hubs and bleeding with viscous couplings
- Especially slim design
- Enables easy access
- PVC-dipped handle
- Special steel

Application range: BMW, Ford, Opel etc.

### Holding wrench for Visco ventilator
- For counter holding the ventilation valve when disassembling the Visco ventilator
- Especially slim design
- Allows for easy access
- Special steel

Application range: BMW engine M10, M20, M21, M30, M50, M51, M52, M52TU, M54, M56, M70, M73, S14 and S38

---

### Visco ventilator wrench
- Ideally suited to removing the hubs on ventilators with viscous coupling
- Especially slim design
- Allows for easy access
- With suspension hole
- Special steel

Application range: Mercedes engines M103 (6 cylinder), M104 (6 cylinder 4 valve), M119 (8 cylinder 4 valve), M120 (12 cylinder 4 valve)

### Ford fan hub wrench
- For the professional engine repair
- Simple assembly and disassembly of the Visco coupling rotor
- Makes it possible to secure the pulley wheel of the water pump and at the same time release the heating filter
- Special steel
- Very high degree of accuracy

Application range: Ford Transit (2001 - 2006)

### Land Rover fan hub wrench set
- For counter holding the Visco coupling drive shaft
- Makes it possible to secure the pulley wheel of the water pump and at the same time release the heating filter
- Also suitable for the removal of the viscous connecting socket on the cooler ventilator
- Special steel

Application range: Land Rover Discovery II, Range Rover, Defender 1990-2006 with Td5 or V8 engines

---

### Visco ventilator wrench
- For clamping the viscous coupling drive shaft on BMW, Ford

### Holding wrench for Visco ventilator
- For counter holding the ventilation valve when disassembling the Visco ventilator

### Ford fan hub wrench
- For the professional engine repair
- Simple assembly and disassembly of the Visco coupling rotor
- Makes it possible to secure the pulley wheel of the water pump and at the same time release the heating filter
- Special steel
- Very high degree of accuracy

Application range: Ford Transit (2001 - 2006)

### Land Rover fan hub wrench set
- For counter holding the Visco coupling drive shaft
- Makes it possible to secure the pulley wheel of the water pump and at the same time release the heating filter
- Also suitable for the removal of the viscous connecting socket on the cooler ventilator
- Special steel

Application range: Land Rover Discovery II, Range Rover, Defender 1990-2006 with Td5 or V8 engines

---

### Visco ventilator wrench
- For clamping the viscous coupling drive shaft on BMW, Ford

### Holding wrench for Visco ventilator
- For counter holding the ventilation valve when disassembling the Visco ventilator

### Ford fan hub wrench
- For the professional engine repair
- Simple assembly and disassembly of the Visco coupling rotor
- Makes it possible to secure the pulley wheel of the water pump and at the same time release the heating filter
- Special steel
- Very high degree of accuracy

Application range: Ford Transit (2001 - 2006)

### Land Rover fan hub wrench set
- For counter holding the Visco coupling drive shaft
- Makes it possible to secure the pulley wheel of the water pump and at the same time release the heating filter
- Also suitable for the removal of the viscous connecting socket on the cooler ventilator
- Special steel

Application range: Land Rover Discovery II, Range Rover, Defender 1990-2006 with Td5 or V8 engines
Mercedes belt disc wrench 8.0 mm

• Suitable for the installation and removal of the fan coupling and the belt disc
• Required when changing the water pump
• For hard-to-reach places
• With plastic-coated handle
• Chrome vanadium

Application range: Mercedes engines M102, M103, OM601, OM602, OM603, OM605, OM606

 consists of:

150.1201 Special wrench with 8.0 mm hexagonal drive, 440 mm 440
150.1202 Special wrench with 8.0 mm hexagonal drive for internal hexagonal screws 6.0 mm 20

Mercedes compressor belt disc wrench 10.0 mm

• Suitable for releasing the screws on the compressor belt disc
• Required when changing the water pump
• For hard-to-reach places
• With plastic-coated handle
• Chrome vanadium

Application range: Mercedes engines M102, M103, OM601, OM602, OM603, OM605, OM606

 consists of:

150.1203 Special wrench with 8.0 mm hexagonal drive, 440 mm 440
150.1204 Special wrench with 8.0 mm hexagonal drive for internal hexagonal screws 10.0 mm 20

Ventilator coupling counter hold for Mercedes

• Ideal for securing the ventilator coupling
• Especially slim design
• Allows for easy access
• Especially curved for use
• Special use

Application range: Mercedes (engine: M 103, 104)

 consists of:

150.3208 Ventilator coupling counter hold for Mercedes 300.0 105

Ventilator hub wrench set

• For counter holding the Visco coupling drive shaft
• Makes it possible to secure the water pump’s belt pulley and release the heating ventilator at the same time
• Also suitable for the removal of the viscous connecting socket on the cooler ventilator
• Special steel
• In durable plastic storage case

Application range: BMW, Mercedes and Ford

 consists of:

150.3305 12 pcs Ventilator hub wrench set 1.25

Universal timing gear holder set

• Ideally suited for almost all vehicle types
• Universal usable tool for locking, turning and fastening for stepped timing belts
• The overall length of 520 mm guarantees an optimal lever for loosening the timing belts reinforcement screws
• Stopless adjustment of Ø 40 - 220 mm - pin height: 35 mm
• Includes 4 pairs of screws on plugs
• With plastic coated handle
• Special steel

Application range: Timing belt wheels on camshafts and injection pumps-beding of wheels and couplings etc.

 consists of:

150.3301 11 pcs Universal timing gear holder set 2.25

FROST PROTECTION AND COOLANT WATER TESTER

Refractometer - optical tester for battery fluid and windshield wiper fluid

• For the quick and accurate testing of acidity in the battery fluid and the antifreeze content
• Can also be used for coolant and windshield wiper fluid
• Adjustable eye piece with rubber viewing ring
• With automatic temperature compensation (ATC)
• Also suitable in ambient temperatures of less than 10°C
• Reading correction function by means of bimetalic measurement
• High quality design made from aluminium
• Good readability due to defined dividing lines
• Recalibration possible
• Includes calibration screwdriver and pipette
• In practical plastic case

Technical data:

Battery acid: acid density (measuring range 1.1 to 1.4 kg/l)
Coolant water Ethenylene glycol: temperature resistance (measuring range 0° to -50°C)
Coolant water Ethylene glycol: temperature resistance (measuring range 0° to -50°C)
Windscreen water: antifreeze (measuring range 0° to -50°C)

150.3300 Refractometer 40.0 149.0 40 x 13 630
**TEMPERATURE MEASURING DEVICE**

**Digital rod thermometer**
- Controls temperature of air streams through air channels
- With long and narrow measuring instruments
- Scale with °C and °F measurements

<table>
<thead>
<tr>
<th>Technical data:</th>
<th>°C / °F</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
</table>
| Switchable:     | °C / °F | switching range: 50°C - 550°C
| Power output max.| 1.5W | Power requirement: 6V block battery

**Antifreeze tester**
- For quick and precise testing of antifreeze
- For ethylene glycol/water mixture in the cooling circuit for passenger cars, commercial vehicles, etc.
- Also for visual inspection for rust and other impurities
- Also suitable in ambient temperatures of less than 10°C
- Easy to read with the pendulum display (up to -50°C/-60°F)
- High-quality design
- Plastic housing
- Easy to read

| Technical data: | | | | |
|-----------------|-----------------|-----------------|-----------------|
| Battery acid:    | acid density (measuring range 1.1 to 1.3 g/l) |
| Coolant water:   | temperature resistance (measuring range -21° to 50°C) |
| Coolant water:   | temperature resistance (measuring range -21° to 50°C) |
| Antifreeze tester: | antifreeze (measuring range -10° to 40°C) |
| Windscreen water: | Antifreeze (measuring range -10° to -40°C) |
| Antifreeze tester: | urea content (measuring range 30% - 35%) |

**Infared thermometer**
- Laser pistol for non-contact temperature measurement
- Ideally suited for the automotive sector, industrial, and construction usage Chemical and foodstuffs industry
- Laser measuring beam with a red measuring point
- Illuminating Display
- LCD Digital display
- Automatic switching on/off
- Includes 6V block battery
- Stable plastic housing

| Technical data: | | | | |
|-----------------|-----------------|-----------------|-----------------|
| Switchable:     | °C / °F | range: 0°C - 150°C |
| Power output max.| 5W | Power requirement: 9V block battery

**Hose clamp tool**
- 6 point
- Flexible
- Limited torque
- Double spiral shaft
- Plastic protective coating
- With hanging hole
- Chrome vanadium

| Technical data: | | | | |
|-----------------|-----------------|-----------------|-----------------|
| Diameter:       | L1 mm | L2 mm | L3 mm |
| Diameter:       | 6.0 mm | 10.0 mm | 15.0 mm |
| Diameter:       | 7.0 mm | 11.0 mm | 16.0 mm |
| Diameter:       | 8.0 mm | 12.0 mm | 17.0 mm |
| Diameter:       | 10.0 mm | 14.0 mm | 19.0 mm |

**Rod thermometer**
- Controls temperature of air streams through air channels
- Controls the water temperature
- With long and narrow measuring instruments
- Scale with °C and °F measurements

| Technical data: | | | | |
|-----------------|-----------------|-----------------|-----------------|
| Battery acid:    | acid density (measuring range 1.1 to 1.3 g/l) |
| Coolant water:   | temperature resistance (measuring range -21° to 50°C) |
| Coolant water:   | temperature resistance (measuring range -21° to 50°C) |
| Antifreeze tester: | antifreeze (measuring range -10° to 40°C) |
| Windscreen water: | Antifreeze (measuring range -10° to -40°C) |
| Antifreeze tester: | urea content (measuring range 30% - 35%) |

---

*AdBlue® is a registered trademark of the Verband der Autobranchen e.V.*
Hose clamp tension device
- For assembly and disassembly of hose clamps
- Easy to use
- Less space required
- Wear-resistant spindle drive
- Hand-wheel operation
- 6-point and 1/4" drive
- Chrome molybdenum

Hose clamp pliers
- Suitable for assembly and disassembly of spring clamps
- Optimal mounting due to special construction of jaws
- Includes locking mechanism and ratchet function
- PVC dipped handle
- Simple handling
- Special steel

Hose clamp pliers, angled
- 90° angled head
- With moveable jaws
- For difficult to reach spring clamps
- Includes locking mechanism
- With PVC dipped handle
- Chrome molybdenum

Hose clamp gripping pliers
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- Quick release lever
- Easy locking action
- For round and flat material
- Nickel plated
- Chrome vanadium

Hose clamp gripping pliers set
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- Quick release lever
- Easy locking action
- For round and flat material
- Nickel plated
- Chrome vanadium

Hose clamp pliers, angled
- 45° angled head
- With variable jaws
- For difficult to reach clamps
- Includes locking mechanism
- With PVC dipped handle
- Chrome molybdenum

Hose clamp pliers
- Suitable for correct assembly and disassembly of spring clamps
- Turnable jaws
- Includes ratchet function
- Effortless opening and closing
- PVC dipped handle
- Special steel
Hose clamp pliers

- PVC dipped handle
- For spring pipe clamps
- Includes locking mechanism and ratchet function
- Chrome molybdenum

<table>
<thead>
<tr>
<th>115.1049</th>
<th>A [mm]</th>
<th>C [mm]</th>
<th>L [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-45</td>
<td>31.0</td>
<td>200.0</td>
<td>230.0</td>
</tr>
</tbody>
</table>

Hose clamp pliers, angled

- Suitable for correct assembly and disassembly of spring clamps
- 110° angled
- Turnable jaws
- With locking device
- PVC dipped handle
- Special steel

<table>
<thead>
<tr>
<th>115.1179</th>
<th>A [mm]</th>
<th>L1 [mm]</th>
<th>L2 [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-58</td>
<td>245.0</td>
<td>500</td>
<td></td>
</tr>
</tbody>
</table>

Hose clamp pliers with double bowden cable

- PVC dipped handle
- For spring pipe clamps
- 650 mm Bowden cable
- Adjustable length bowden cable
- For difficult to reach clamps
- Special tool steel

<table>
<thead>
<tr>
<th>115.1065</th>
<th>Ø [mm]</th>
<th>L1 [mm]</th>
<th>L2 [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-60</td>
<td>270.0</td>
<td>600.0</td>
<td></td>
</tr>
</tbody>
</table>

Hose clamp pliers

- Suitable for assembly or disassembly of spring clamps with reducing ends
- With PVC dipped handle
- With 600 mm Bowden cable
- Includes ratchet function, locking mechanism and loosening lever
- Internal spring
- For difficult to reach spring clamps
- Chrome molybdenum

Application range: VAG 2.0 TDI engines (BKD), especially suitable for hard to reach lower coolant hose

<table>
<thead>
<tr>
<th>115.1189</th>
<th>Ø [mm]</th>
<th>L1 [mm]</th>
<th>L2 [mm]</th>
<th>Ø [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-60</td>
<td>260.0</td>
<td>600.0</td>
<td>500</td>
<td></td>
</tr>
</tbody>
</table>

Hose clamp pliers with bowden cable

- With PVC dipped handle
- For spring pipe clamps
- With 650 mm Bowden cable
- Includes ratchet function, locking mechanism and loosening lever
- Internal spring
- For difficult to reach spring clamps
- Chrome molybdenum

Application range: MUBEA and NORMA

<table>
<thead>
<tr>
<th>115.0901</th>
<th>Ø [mm]</th>
<th>L1 [mm]</th>
<th>L2 [mm]</th>
<th>Ø [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-54</td>
<td>260.0</td>
<td>730.0</td>
<td>500</td>
<td></td>
</tr>
</tbody>
</table>

Hose clamp pliers with bowden cable

- For self-tensioning hose clamps
- With locking mechanism
- In particular for fuel lines, cooling and washing water hoses
- With 650 mm Bowden cable
- With flat attachment for spring clamps with flat adjoining ends
- Opening and closing the clamps without damage to the hose also in hard to reach places
- Self-opening
- With PVC dipped handle
- Special steel

<table>
<thead>
<tr>
<th>115.1041</th>
<th>Ø [mm]</th>
<th>L1 [mm]</th>
<th>L2 [mm]</th>
<th>Ø [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-60</td>
<td>200.0</td>
<td>650.0</td>
<td>115.1041-1</td>
<td>470</td>
</tr>
</tbody>
</table>
Spring band clamp pliers with gooseneck
• For actuation of self-tensioning spring band clamps
• For cooling and heating systems
• Convenient one handed operation in deep regions
• Fixing of the clamp by micro teeth
• Ideal for confined spaces
• Working head with raised grippers and wide opening
• With two component handle
• Chrome molybdenum

Application area: NORMA FBS, MUB FBS-STD, FBS-RSV, etc.

Hose clamp pliers with swivel prism reception
• Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
• Also suitable for self-tensioning hose clamps with flat 3 pinch ends
• In particular for fuel lines, cooling and washing water hoses
• With swivel prism attachment
• Self-opening
• Self-closing
• Special steel

Application range: Volkswagen, Audi, Mercedes, Toyota etc.

Click hose clamp pliers
• Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
• Also suitable for self-tensioning hose clamps with flat 3 pinch ends
• With PVC dipped handle
• Self-opening
• Special steel

Click hose clamp pliers, angled
• Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
• Also suitable for self-tensioning hose clamps with flat 3 pinch ends
• 90° angled head
• Effortless opening and closing
• Forged bite jaws
• With PVC dipped handle
• Special steel

Click hose clamp pliers, forged
• Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
• Also suitable for self-tensioning hose clamps with flat 3 pinch ends
• Re-usable V2A-clamps
• With PVC dipped handle
• With self-opening mechanism
• Chrome molybdenum

Automotive hose clamp pliers set
• Handle dip insulated
• Ideal for clamps low down in the engine
• Includes locking mechanism
• For self-tensioning spring pipe clamps with 3 point mounting
• Self-opening
• For opening and closing re-usable clic hose clamps, type Clic + Clic-R
• For difficult to reach clamps
• Special tool steel

Application area: For connecting and removing fuel, immersed ventilation, coolant, washer water and vacuum hoses, etc.

Application range: Volkswagen, Audi, Mercedes-Benz, Toyota etc.

Hose clamp pliers
• PVC dipped handle
• For spring pipe clamps
• Includes locking mechanism and ratchet function
• Chrome molybdenum

Click hose clamp pliers, forged
• Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
• Also suitable for self-tensioning hose clamps with flat 3 pinch ends
• Re-usable V2A-clamps
• With PVC dipped handle
• With self-opening mechanism
• Chrome molybdenum

Application area: NORMA FBS, MUB FBS-STD, FBS-RSV, etc.
Hose release pliers

- Suitable for releasing secured cooling hoses
- Securing screw for adjusting jaws
- Gentle on materials
- Lower Power usage
- Simple operation
- Plastic handle
- Special steel

Hose clamp pliers set

- For simple clamping of flexible hoses from 15.9 mm (5/8") up to 60.0 mm (2.3/8")
- For stopping the flow
- The hose is a broad area squeezed against the stable support surface, damaging the hose is avoided
- Variable adjustment with locking function
- Ideal for maintenance work with gasoline, oil, water and antifreeze
- Protects against leakage of fuel, oil, water and antifreeze
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Heat resistant up to 160 ° C
- Plastic

Automotive hose clamp pliers set

- PVC dipped handle
- For opening and closing of cobra hose clamps
- Swivelled pressed jaws
- Includes locking mechanism and ratchet function
- Self opening mechanism
- For the dismantling and assembly of hose clamps
- Includes bowden cable
- Chrome molybdenum

Fuel pipe pliers for compression coupling

- For correct opening of fuel pipe coupling
- Extra-flat jaws ends
- No damage to the compression coupling, fuel pipes and fuel hoses
- Self-closing
- With PVC dipped handle
- Special steel

\[ \begin{array}{|c|c|c|c|}
\hline
115.1039 & & & \\
\hline
\end{array} \]

| Hose clamp pliers (click type), 180mm | 215 |
| Hose clamp pliers (crossed slit), 220mm | 210 |
| Hose clamp pliers with pin, 8-10mm | 189 |
| Hose clamp pliers (dbl bowden cable), 600mm | 340 |

\[ \begin{array}{|c|c|c|c|}
\hline
115.1046 & & & \\
\hline
\end{array} \]

| Hose clamp max. Ø 10 mm (3/8") | 18 |
| Hose clamp max. Ø 15 mm (5/8") | 18 |
| Hose clamp max. Ø 25 mm (1") | 18 |
| Hose clamp max. Ø 45 mm (3/4") | 257 |

\[ \begin{array}{|c|c|c|c|}
\hline
115.1042 & & & \\
\hline
\end{array} \]

| Hose clamp pliers set 4 pcs | 420 |

\[ \begin{array}{|c|c|c|c|}
\hline
115.1044 & & & \\
\hline
\end{array} \]

| Hose clamp pliers set 90° angled 3 pcs | 370 |

\[ \begin{array}{|c|c|c|c|}
\hline
115.1055 & & & \\
\hline
\end{array} \]

| Hose clamp max. Ø 15 mm (1") | 46 |
| Hose clamp max. Ø 25 mm (1") | 46 |
| Hose clamp max. Ø 45 mm (3/4") | 257 |

\[ \begin{array}{|c|c|c|c|}
\hline
115.1041 & & & \\
\hline
\end{array} \]

| Hose clamp pliers (bowden cable), 550mm | 470 |
| Hose clamp pliers (crossed slit), 220mm | 210 |
| Hose clamp pliers (crossed slit) | 240 |
| Hose pliers, 195mm | 196 |
| Hose clamp pliers (click type), 180mm | 215 |
| Hose clamp pliers (crossed slit), 220mm | 230 |
| Hose clamp pliers (dbl cross slit), 220mm | 230 |

\[ \begin{array}{|c|c|c|c|}
\hline
115.1199 & 150.0 & 15-54 & 180 \\
\hline
\end{array} \]

Hose clamp set

- For easy clamping of flexible hose parts from 10.0 mm (3/8") to 45.0 mm (1.3/4")
- Continuous flow rate regulation, sensitive flow rate regulation or complete flow rate stop
- The hose is cramped over a wide area against the sturdy steel cross, damage to the hose is therefore prevented
- With revolving clamp wing from metal
- Ideal for maintenance work with petrol, oil, water and radiator antifreeze
- Protects from drips from petrol, oil, water and radiator antifreeze
- Ideally suitable for passenger cars, transporters, MPVs, commercial vehicles, tractors, agricultural and construction machinery and industrial uses
- Temperature resistant up to 160 ° C
- Special steel

\[ \begin{array}{|c|c|c|c|}
\hline
115.5054 & & & \\
\hline
\end{array} \]

| Clamping pliers 250 mm for hoses up to Ø 60 mm | 160 |
| Clamping pliers 180 mm for hoses up to Ø 30 mm | 130 |
| Clamping pliers 150 mm for hoses up to Ø 15 mm | 80 |

\[ \begin{array}{|c|c|c|c|}
\hline
115.5051 & & & \\
\hline
\end{array} \]

| Hose clamp pliers set 4 pcs | 420 |

\[ \begin{array}{|c|c|c|c|}
\hline
115.5052 & & & \\
\hline
\end{array} \]

| Hose clamp pliers set 90° angled 3 pcs | 370 |

\[ \begin{array}{|c|c|c|c|}
\hline
115.5053 & & & \\
\hline
\end{array} \]

| Clamping pliers 250 mm for hoses up to Ø 60 mm | 160 |
| Clamping pliers 150 mm for hoses up to Ø 15 mm | 80 |
| Clamping pliers 180 mm for hoses up to Ø 30 mm | 130 |

\[ \begin{array}{|c|c|c|c|}
\hline
115.5054 & & & \\
\hline
\end{array} \]

| Hose clamp pliers set 90° angled 3 pcs | 370 |
**Clamping pliers 90°, Ø 15mm**

- **Price:** 115.5057

**Clamping pliers 90°, Ø 60mm**

- **Price:** 122.1297

**Clamping pliers 90°, Ø 30mm**

- **Price:** 95

**Replaceable plastic plugs for 122.1296 pipe**

- **Price:** 60

**ALLinONE Fluidstopper Ø 4,75 - 14 mm**

- **Price:** 122.1295

---

**Oil drain pan 8 litres**

- **With three carry handles**
- **Safe and clean pouring with the spout**
- **Ideally suited to collecting different fluids**
- **Suitable for oil, chemicals, petrol, acid and anti-freeze fluid**
- **Also suitable for cleaning parts**
- **Practical, quick and friendly to the environment**
- **Screwed connection with rubber seal for safe transport**
- **Shock-proof**

<table>
<thead>
<tr>
<th>D [mm]</th>
<th>H [mm]</th>
<th>L [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>450.0</td>
<td>120.0</td>
<td>400.0</td>
</tr>
</tbody>
</table>

**Mobile oil drain pan, 30 litres, extra flat with castors**

- **With five carry handles**
- **12.0 cm high, extra flat edges**
- **Safe and clean pouring with the closed contained and spout**
- **Ideally suited to collecting different fluids**
- **Suitable for oil, chemicals, petrol, acid and anti-freeze fluid**
- **Also suitable for cleaning parts**
- **With four steerable castors**
- **Practical, quick and friendly to the environment**
- **Includes removable sieve**
- **Screwed connection with rubber seal for safe transport**
- **Shock-proof**

---

**Oil drain pan 7.5 litres**

- **With three carry handles**
- **Safe and clean pouring with the self-contained overflow edge and spout**
- **Ideally suited to collecting different fluids**
- **Suitable for oil, chemicals, petrol, acid and anti-freeze fluid**
- **Also suitable for cleaning parts**
- **Practical, quick and friendly to the environment**
- **Shock-proof**

<table>
<thead>
<tr>
<th>D [mm]</th>
<th>H [mm]</th>
<th>L [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>285.0</td>
<td>150.0</td>
<td>320.0</td>
</tr>
</tbody>
</table>

**Mobile oil drain pan, 55 litres, extra flat**

- **With four carry handles**
- **11.0 cm high, extra flat edges**
- **Safe and clean pouring with the self-contained overflow edge and spout**
- **Ideally suited to collecting different fluids**
- **Suitable for oil, chemicals, petrol, acid and anti-freeze fluid**
- **Also suitable for cleaning parts**
- **Practical, quick and friendly to the environment**
- **Shock-proof**
- **Polyethylene**

<table>
<thead>
<tr>
<th>L [mm]</th>
<th>B [mm]</th>
<th>H [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1030.0</td>
<td>724.0</td>
<td>110.0</td>
</tr>
</tbody>
</table>

---

**Oil drain pan 17 litres**

- **With three carry handles**
- **Safe and clean pouring with the self-contained overflow edge and spout**
- **Ideally suited to collecting different fluids**
- **Suitable for oil, chemicals, petrol, acid and anti-freeze fluid**
- **Also suitable for cleaning parts**
- **Practical, quick and friendly to the environment**
- **Shock-proof**

<table>
<thead>
<tr>
<th>D [mm]</th>
<th>H [mm]</th>
<th>L [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>445.0</td>
<td>145.0</td>
<td>110.0</td>
</tr>
</tbody>
</table>

**Oil drain pan 17 litres**

- **With three carry handles**
- **Safe and clean pouring with the self-contained overflow edge and spout**
- **Ideally suited to collecting different fluids**
- **Suitable for oil, chemicals, petrol, acid and anti-freeze fluid**
- **Also suitable for cleaning parts**
- **Practical, quick and friendly to the environment**
- **Shock-proof**

<table>
<thead>
<tr>
<th>D [mm]</th>
<th>H [mm]</th>
<th>L [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>445.0</td>
<td>145.0</td>
<td>110.0</td>
</tr>
</tbody>
</table>

---

**Oil drain pan 17 litres**

- **With three carry handles**
- **Safe and clean pouring with the self-contained overflow edge and spout**
- **Ideally suited to collecting different fluids**
- **Suitable for oil, chemicals, petrol, acid and anti-freeze fluid**
- **Also suitable for cleaning parts**
- **Practical, quick and friendly to the environment**
- **Shock-proof**

<table>
<thead>
<tr>
<th>D [mm]</th>
<th>H [mm]</th>
<th>L [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>445.0</td>
<td>145.0</td>
<td>110.0</td>
</tr>
</tbody>
</table>

---

**Oil drain pan 17 litres**

- **With three carry handles**
- **Safe and clean pouring with the self-contained overflow edge and spout**
- **Ideally suited to collecting different fluids**
- **Suitable for oil, chemicals, petrol, acid and anti-freeze fluid**
- **Also suitable for cleaning parts**
- **Practical, quick and friendly to the environment**
- **Shock-proof**

<table>
<thead>
<tr>
<th>D [mm]</th>
<th>H [mm]</th>
<th>L [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>445.0</td>
<td>145.0</td>
<td>110.0</td>
</tr>
</tbody>
</table>

---

**Mobile oil drain pan, 55 litres, extra flat**

- **With four carry handles**
- **11.0 cm high, extra flat edges**
- **Safe and clean pouring with the self-contained overflow edge and spout**
- **Ideally suited to collecting different fluids**
- **Suitable for oil, chemicals, petrol, acid and anti-freeze fluid**
- **Also suitable for cleaning parts**
- **Practical, quick and friendly to the environment**
- **Shock-proof**
- **Polyethylene**

<table>
<thead>
<tr>
<th>L [mm]</th>
<th>B [mm]</th>
<th>H [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1030.0</td>
<td>724.0</td>
<td>110.0</td>
</tr>
</tbody>
</table>
**MEASURING BEAKER, JUG AND FUNNEL**

**Measuring cup set**
- Configuration of practical measuring cup sizes
- Versatile application possibilities
- Transparent
- Break-proof
- Red primed scale division
- Resistant to oil, petrol and acid
- With handle and spout
- PE (polyethylene)

**Scales:** L/ml, cups, Oz, quart

| 150.9205 | 3 pcs | 250 - 500 - 1.000 ml | 227 |

**Oil can with flexible outlet spout**
- For a wide range of uses
- Flexible, funnel shaped spout allows for a clean drainage
- Suitable for oil, chemicals, petrol, acid, anti-freeze fluid and non-acidic fluids
- Break-resistant
- Steady
- Graduated scale
- With practical carry handle
- Special plastic

| 150.9225 | 1 | 150.9235 | 150 |
| 150.9226 | 2 | 150.9236 | 250 |

**Water can**
- For a wide range of uses
- Break-resistant
- With 2 carry handles
- Pouring spout enables clean emptying
- Suitable for water and coolant fluid
- Special plastic

| 150.9239 | 9 | 500 |

**Funnel set**
- Configuration of practical funnel sizes
- Versatile application possibilities
- Red
- Break-proof
- Resistant to oil, petrol and acid
- Grip strap for convenient use
- HDPE (high density polyethylene)

**Scales:** L/ml, cups, Oz, quart

| 150.8240 | 5 pcs | Ø 50 - Ø 75 - Ø 95 - Ø 115 - Ø 150 mm | 251 |

**Universal funnel set**
- Special flexible funnel for hard-to-reach places
- For a wide range of uses
- With bayonet connection and seal
- Direct connection to the oil fill opening
- No more lengthy and time-consuming pouring
- Includes clear hose with sealing plug on the end of the hose
- Bottle with handle for comfortable use
- Reduces loss and dirtying of oily engines
- Special plastic

**Transfer pumps**

**Mini transfer pump**
- Ideal aid for transferring in emergencies
- Suitable for battery acid, fuels, oils and distilled water
- The hoses are attached to the balloon holder using supplied hose clamps
- Acid-resistant
- Special plastic

| 150.1665 | 8.0 | 2 x 900 | 320 |

**Transfer pump**
- Ideal aid for easy transferring and pumping
- Suitable for battery acid, fuels, oils and distilled water
- Acid-resistant
- With high quality pump body and reinforced pump handle
- Special plastic

| 150.1660 | 12.0 | 2 x 1.300 | 465 |
**Syringe for fluid change 0.2 l**

- Ideal tool for decanting, removing or dosing liquids to transmissions, power steering, hydraulics, engines, etc.
- Suitable for fuel oil, water and antifreeze
- Fine dosing
- Overfilling material can be pumped back problem-free
- Includes rubber hose
- Robust metallic design

**2 direction suction and filling hand pump**

- Ideal for bleeding and filling of fluids
- With ball valve to select between suction and pressure
- Suck and press with every way
- Wear resistant and temperature resistant
- For difficult to reach openings
- With 2 tubes
- Suction tube clear Ø 1 x E: 10x16 mm, length 600 mm
- Pressure tube fabric reinforced Ø 1 x E: 16x21 mm, length 600 mm
- For brake fluid, motor / transmission oil, petrol, diesel, fuel oils, spirit, petroleum, antifreeze etc.
- Robust aluminum piping

**Application range:** Vehicle/trucks workshops, land and construction machines, municipally and forestry technology, etc.

**PVC Tube**

- Fabric reinforced
- For 150.9250

**PVC Tube with curved outlet pipe**

- For difficult to reach openings
- With wing nut and sealing for locking
- With external thread M15 x 1.5
- Robust, curved aluminum piping
- Fabric reinforced
- Ideal for use with KS dispense hand pump 150.9250

**Application range:** For brake fluid, motor / transmission oil, petrol, diesel, fuel oils, spirit, petroleum, antifreeze etc.

**Dispense hand pump PVC, 1,000 ml with tube**

- For the controlled bleeding and filling of fluids
- Exact dosage per scale
- High suction
- For difficult to reach openings
- For brake fluid, motor / transmission oil, petrol, diesel, fuel oils, spirit, petroleum, antifreeze etc.
- Fabric reinforced PVC tube
- PVC cylinder

**Application range:** Vehicle/trucks workshops, land and construction machines, municipally and forestry technology, etc.

**Metal pipe, flexible with outlet head**

- For difficult to reach openings
- With wing nut and sealing for locking
- With external thread M15 x 1.5
- Durable, flexible steel pipe
- Ideal for use with KS dispense hand pump 150.9250

**Application range:** For brake fluid, motor / transmission oil, petrol, diesel, fuel oils, spirit, petroleum, antifreeze etc.