FIRST CHOICE WORLDWIDE
TOOLS, SERVICE DEVICES, BRAKE FLUIDS
THE FIRST CHOICE OF AUTOMAKERS IS FTE AUTOMOTIVE. WHAT'S YOURS?

To become a global market leader, you need excellent customer relationships, built on sustainable performance. With our hydraulic clutch actuation systems, we are proud to have accomplished this. An expert in brake and clutch hydraulics and delivering German state-of-the-art engineering, we are a preferred development partner to the international automotive industry. To repair shops, we offer the same exacting standards in the form of high-quality tools and equipment for first-class vehicle service. Make the automakers’ first choice your choice too and increase your customer satisfaction with spare parts from FTE automotive.

IMPULSE FILLING AND BLEEDING DEVICE

All standard clutch and brake systems including ABS, EDS, ESP and SBC systems can easily and safely be filled, flushed and bled by just one person. A pulsating fluid flow reliably eliminates air bubbles in the hydraulic system, while the automatic self-bleeding feature ensures bubble-free discharge of the brake fluid. An automatic cut-out function prevents air from entering the hydraulic system. The electro-hydraulic suction apparatus enables complete evacuation of the compensating reservoir. A special leak test allows for the detection of leaks even at low pressures. Filling pressure continuously adjustable from 0 – 3.5 bar. Wheeled. Suitable for 5- to 20-litre drums of brake fluid. \*W0300

FILLING AND BLEEDING DEVICE

For time-saving brake fluid change. The system allows for quick and safe operation by a single person even on systems with complicated line routings. The constant rinse flow prevents air bubbles that have been driven toward the front from flowing back in descending lines. Wheeled. Capacity 9 litres. \*W0100

BRAKE PRESSURE TESTER

For accurate measurement results in hydraulic brake systems and leak tests at low and high pressures, the device is equipped with both a low and high-pressure gauge. It is hooked up with the hydraulic system via plug-in couplings and adapters, which are screwed in, in place of the bleeding valves. Low pressure measurement range: 0-9.5 bar. Automatic cut off at 9.5 bar. High-pressure measurement range: 0-250 bar. Accessories: high-pressure hose and seven different connections. \*W008OE

BRAKE FLUIDS

With our fluids for hydraulic brake and clutch systems, we define our own exacting standard that not only fulfills the required norms but even surpasses the FMVSS 116, DOT 3, DOT 4, DOT 5.1 and SAE J1703 specifications. Accordingly, FTE brake fluids are ideally suited for regular flush and replacement every two years. This is the best prevention against possible brake malfunction. Brake fluid is hydroscopic, that means it absorbs moisture from the atmosphere and this can lower the boiling point of the brake fluid which can result in vapor lock.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Fluid Type</th>
<th>DOT 3</th>
<th>DOT 4</th>
<th>DOT 5.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point:</td>
<td>Norm &gt; 205°C</td>
<td>FTE &gt; 245°C</td>
<td>DOT 4 lV &gt; 230°C</td>
</tr>
<tr>
<td>Wet boiling point:</td>
<td>&gt; 140°C</td>
<td>&gt; 145°C</td>
<td>&gt; 155°C</td>
</tr>
<tr>
<td>DOT 4</td>
<td>FTE &gt; 265°C</td>
<td>&gt; 165°C</td>
<td></td>
</tr>
<tr>
<td>DOT 5.1</td>
<td>Norm &gt; 230°C</td>
<td>&gt; 155°C</td>
<td></td>
</tr>
<tr>
<td>FTE</td>
<td>DOT 4 lV &gt; 265°C</td>
<td>&gt; 170°C</td>
<td></td>
</tr>
<tr>
<td>DOT 5.1</td>
<td>Norm &gt; 260°C</td>
<td>&gt; 180°C</td>
<td></td>
</tr>
<tr>
<td>FTE</td>
<td>DOT 5.1 &gt; 260°C</td>
<td>&gt; 180°C</td>
<td></td>
</tr>
</tbody>
</table>

These values meet the requirements of:
- U. S. Federal Motor Vehicle Safety Standard FMVSS No. 116
- Society of Automotive Engineers SAE J1703, J1704
- International Standard Organization ISO 4925 Class 3, Class 4, Class 6, Class 5-1
- FTE brake fluids can be mixed with all other glycol-based brake fluids but may never be mixed with other mineral or silicone-based oils.

PRODUCT OVERVIEW

<table>
<thead>
<tr>
<th>Content</th>
<th>Order number</th>
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</thead>
<tbody>
<tr>
<td>250 ml</td>
<td>DOT3-25LTR</td>
</tr>
<tr>
<td>500 ml</td>
<td>DOT4-0.5LTR</td>
</tr>
<tr>
<td>1 Litre</td>
<td>DOT3-1LTR</td>
</tr>
<tr>
<td>5 Litres</td>
<td>DOT4-5LTR</td>
</tr>
<tr>
<td>30 Litres</td>
<td>DOT3-30LTR</td>
</tr>
<tr>
<td>60 Litres</td>
<td>DOT4-60LTR</td>
</tr>
<tr>
<td>200 Litres</td>
<td>DOT4-200LTR</td>
</tr>
</tbody>
</table>

Brake fluids from FTE Automotive are the first choice of automakers.”

WHAT’S YOURS?
MEASUREMENT AND TEST DEVICES

With brake systems, you can never pay too much attention to safety. That’s why our test devices are as reliable and secure as any of our spare parts. After all, your responsibility to your customers’ vehicles is our commitment. Rest your service offer on the sound foundation of test devices by FTE automotive.

BOILING POINT TESTER
There is only one way to determine the precise boiling point, irrespective of the type of brake fluid: the immersion heater method. Our mobile measurement device is based on this very principle. It heats the brake fluid to its boiling point and displays the temperature found. Delivering laboratory accuracy, it is marked by handiness and easy operation. Supported by clear and simple menu navigation, the measuring process takes no more than 30 seconds. The result and recommendation regarding a brake fluid change is displayed digitally. The measurement is conveniently conducted in the vehicle’s compensating reservoir itself. A sample cup and pipette are included to enable measurements outside the vehicle. For all glycol-based brake fluids (DOT 3, DOT 4, DOT 5.1). 12-volt connection.

FILL / BLEED ADAPTERS
FTE offers a broad range of fill and bleed adapters to facilitate filling and bleeding of brake and clutch systems. They are compatible with almost all fluid reservoirs in the vehicle.

UNIVERSAL ADAPTER THREAD 45X7 PITCH/1”
for almost all European vehicles
W1024U

UNIVERSAL ADAPTER THREAD 45X7 PITCH/1”
as W1024U, with rotating elbow
W1054U

CONNECTING PIECE
for individually manufactured filler caps
W1047

UNIVERSAL RUBBER ADAPTER
for almost all cylindrical brake fluid reservoirs with and without thread (e.g. for most Asian vehicles).
Size of rubber cone: 22 - 85 mm
Size of rubber seal: D = 22 - 85 mm
W1059

UNIVERSAL ADAPTER THREAD 45X7 PITCH/1”
W1024U

FILLING HOSE
for bleed valves for the filling and bleeding of hydraulic brake or clutch systems
W1045

UNIVERSAL ADAPTER THREAD 45X7 PITCH/1”
W1024U

BRAKE FLUID TESTER
This tester demonstrates through easy use and accurate measurement results and is always handy whenever you wish to give your customer an instant recommendation, for instance during order acceptance: LEDs indicate the water content in the glycol-based brake fluid, telling you when the brake fluid ought to be replaced. Acid-proof, fibre-reinforced casing made of shock and break-proof ABS plastic.

W0040
ACCESSORIES

These high-performance lubricants with their outstanding creeping and lubricating behaviour are indispensable in the assembly and disassembly of brake fluid resistant brake and clutch cylinders.

TEST CONNECTORS

Connectors facilitate handling when checking the varying pressures within a hydraulic brake system. Optimally complementing our brake pressure tester W0080E, our test connectors match all types of vehicle.

TEST CONNECTOR

- With 3 connections each
- Connecting thread M 12 x 1
- Fixing hole diameter D = 9 mm
  W0089
- Connecting thread M 14 x 1,5
- Fixing hole diameter D = 9 mm
  W0095

TEST CONNECTOR

- With 2 connections each
- Connecting thread M 12 x 1
- Fixing hole diameter D = 8,5 mm
  W0088
- Mineral oil resistant
- Connecting thread M 12 x 1
- Fixing hole diameter D = 8,5 mm
  MW0088

TEST CONNECTOR

- With connecting thread h M 12 x 1
  W0079-1
- For test connector W0079-1
  A0521

ASSEMBLY PASTES AND LUBRICANTS

The FTE portfolio of fill and bleed adapters and test connectors is rounded off by a range of practical accessories and tools to facilitate the maintenance of hydraulic brake systems in vehicles.

ASSEMBLY PASTE

- 180 g tube
  W0109

ASSEMBLY SPRAY

- 400 ml spray can
  Packing unit 12 pcs.
  W0107

ASSEMBLY FLUID

- 100 ml
  W0104
- 500 ml
  W0105
- 4 - 6 g polyester pouch
  W0119

BLEED BOTTLE

The ideal aid for various types of work on brake hydraulic systems. Flattened and blunt, the assembly pin helps avoid damage.

- W1072 for W0300
- Volume: 1100 ml
- W1014 for W0100
- without scala
- Volume: 1000 ml

ASSEMBLY PIN

- IBMN001

PEDAL LOCKING DEVICE

The pedal locking device operates and locks the brake pedal in the desired position, enabling accurate adjustment of the brake system pressure. The device exerts pressure on the pedal by being inserted between the steering wheel and pedal; its length is adjustable by means of a hand wheel. In this way, a constant pressure is generated in the brake system. The device can safely be handled by one person.

- W0015
Production Sites
Ebern, Fischbach, Mühlhausen (Germany)
Prešov (Slovakia)
Podbořany (Czechia)
Auburn Hills (USA)
Puebla (Mexico)
Mauá (Brazil)
Taicang (China)

R&D Centres
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Auburn Hills (USA)
Mauá (Brazil)
Taicang (China)

Joint Ventures
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Hangzhou (China)

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