

HGV BRAKE CONTROL VALVE Réf : ANA-REF



This teaching kit covers a complete overview of an EBS-type HGV brake control valve (pneumatic brake). It is particularly well suited to teaching functional and structural analysis, mechanical and technological aspects and to practical exercises.

Presentation :

The kit comprises:

A console including:

- An HGV type valve with an EBS type brake pedal.
- Two internal brake receivers.
- Screen prints that illustrate the situation on a diagram of real components.

It is widely used in BAC and BTS courses (French National Education).

- Brake lights.
- Devices used to adjust the play of the brakes.
- Devices to produce faults (in the pressure source and the brake receivers).

A discreet and totally integrated measurement system comprising:

- Sensors (effort, pressures, travel).
- An acquisition PCB inside the console and connected to a PC by a USB cable.

Teaching software, with:

- A section to discover the system (2D and **3D**)
- A section used to **animate** the 2D images of the mechanism on the screen **in real time**.
- A section used to take measurements during the various operating phases.
- A replay function of the measurements that animates each of the studied parts (front and rear stages).









The real components associated with the measurements and high-quality animations (quality of the images and technological quality) allow the console to be used to good effect.

Analysis of a brake valve using 3D images and real-time 2D animations while actuating the brake pedal.

Acquisition and use of the graphs to fine tune the study of the valve by, for example, studying the pressure regulation (increase, stabilization and decrease of the pressure).

Graph of the input/output law of the valve in normal and fault modes.

General characteristics

Energy (V) and (bar):	<u>Dimensions (mm) :</u>	Weight (Kg):	
Electric, 220	Length= 600		
50Hz single-phase	Width= 700	30	
pneumatic 7	Height= 600		

Software and documentation supplied on USB key

Options :

Protective bag

 $\Box CAP$ $\boxtimes BAC PRO$ $\boxtimes BTS$ $\boxtimes SUP$

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