# **BRAKING TECHNOLOGY**

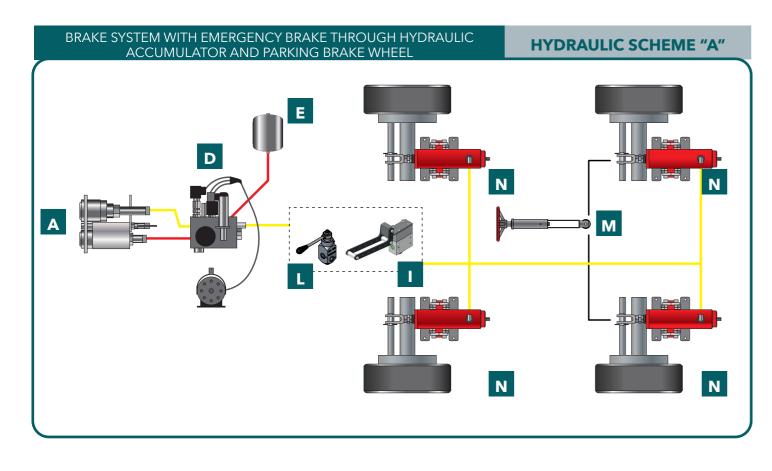


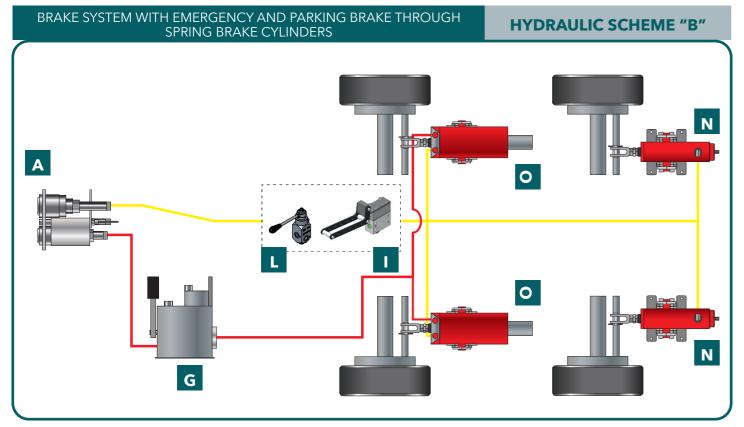
HYDRAULYC BRAKING SYSTEMS FOR TRAILERS



# HYDRAULIC BRAKING SYSTEM

The experience acquired in designing and installing pneumatic braking systems, together with the availability of proven and reliable programs for design and calculation, make SIVAT the ideal partner for hydraulic brake system applications too.







ITEMS

## 1- Driving condition

Control line (CL) pressure: 0 bar Trailer brakes are released

2- Service brake system When the tractor brakes, the pressure in the control line (CL) works on the service brake cylinders.

#### 3- Automatic emergency braking

When the trailer is disconnected from the tractor, the pressure in the supplementary line (SL) drops down; the emergency brake valve puts in communication the pressure accumulator with the braking cylinders activating the emergency brake system.

The emergency brake valve integrates a function to remove the emergency brake action in order to permit the movement of the trailer when it is not connected to the tractor. In case of low pressure into the accumulator, the trailer sends and alarm

## 4- Parking brake

The parking brake is applied through a mechanical linkage driven by the parking brake wheel.

#### 1- Driving condition

Supplementary line (SL) pressure: 15-35 bar o Control line (CL) pressure: 0 bar 0

#### Trailer brakes are released 2- Service brake system

When the tractor brakes, the pressure in the control line (CL) works on the service brake cylinders.

### **3- Automatic emergency braking**

When the trailer is disconnected from the tractor, the pressure in the supplementary line (SL) drops down, activating the spring brakes.

# 4- Parking brake

When the trailer is disconnected from the tractor the automatic braking function acts as parking brake. To remove temporary the braking action it is possible to install a tank with a manual pump that can increase the pressure in the supplementary line. The parking brake will be applied again once the pressure is removed.





# **DESCRIPTION AND OPERATION**

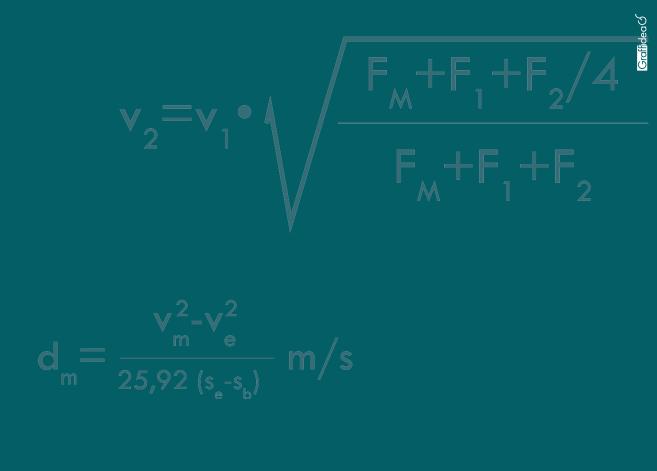
#### **HYDRAULIC SCHEME "A"**

Supplementary line (SL) pressure: 15-35 bar o

through an electric signal. If the ISO 7638 connector is not connected to the tractor vehicle, the trailer brakes remain applied.

#### **HYDRAULIC SCHEME "B"**





Sivat has been working since 2000 in the branch of braking and auxiliary systems for motor vehicles and trailers, both for agricultural and road transport applications.

Sivat has been for years exclusive partner of KNORR-BREMSE and partner of ZF WABCO for OEM of trailers and motor vehicles for the Italian market.

# get in touch with us



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