

How does a brake accumulator reduce braking time?

The reduced braking time is set by the flow control valve by bleeding the oil from the accumulator slowly through the flow control valve, maintaining a constant pressure in the brakes. When the accumulator is fully discharged the pressure in the brake will go to zero, and full braking torque is applied.

What happens when a brake accumulator is fully discharged?

When the accumulator is fully discharged the pressure in the brake will go to zero, and full braking torque is applied. The constant brake torque and braking time is pre-set from factory as specified or if not specified set to 50% (MT%) of maximum torque and approximately 10sec stopping time (?t).

How does a hydraulic accumulator work?

Electrical power is connected to the electrical motor and the solenoid valve(s) is/are energized. The braking valve(s) is/are closed and block the connection to tank. The hydraulic pressure is built up and disengages the brake and charges the accumulator. The electrical power is disconnected from the motor by means of the motor pressure switch.

How does a braking valve work?

The braking valve(s) is/are closed and block the connection to tank. The hydraulic pressure is built up and disengages the brake and charges the accumulator. The electrical power is disconnected from the motor by means of the motor pressure switch. The braking valve(s) is/are constantly energized.

How does a hydraulic braking system work?

The electrical power is disconnected to the braking valve(s) and motor. The hydraulic oil pressure is released to the tank through the counter pressure valve(s) and the throttle valve(s), resulting in a constant reduced braking torque (MT%).

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An exhaust brake system is composed of a gate valve, a pneumatic cylinder and an on-off solenoid valve. An on-off solenoid valve which is a key component of the exhaust brake system ought to have ...

Installation notes Observe the minimum distance of 30 cm to the valve while cleaning with a high-pressure cleaner. The cross-sections of hydraulic transmission elements (pipes, hoses) must be ...



# Exhaust brake solenoid valve accumulator

When the accumulator is fully discharged the pressure in the brake will go to zero, and full braking torque is applied. The constant brake torque and braking time is pre-set from factory as specified or if ...

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It connects the "brain" (the solenoid valve, see Chapter 35) to the "muscle" (the "Exhaust brake valve assy", Comp 5). When a driver needs to slow the 30-tonne truck, this pipeline's integrity is what allows ...

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