

Cmatic Fittings for Vehicle Applications and Air Braking System

On heavy vehicles pneumatic systems offer several advantages compared to the hydraulic systems that we generally find in cars. The maintenance of an Air Braking System is easy and do not require many tools that's why it's the most popular braking system. Cmatic offers a wide range of fittings developed to respond to the specific needs of Vehicle Applications.

Pneumatic systems are mostly used in heavy vehicles because they're less complex than hydraulic systems. Notwithstanding its simplicity, all the pneumatic components must be resistant and meet sector specific standards

Body

Pneumatic systems are used in many heavy vehicles such as trucks, trailers, buses, and railroad trains.

Pneumatic systems provide several advantages compared to the hydraulic systems that are mainly mounted on our cars. For example, when a compressor is mounted on the vehicle the supply of air is unlimited, thus the system cannot run out of its operating fluid even in case of minor leakages moreover, the maintenance is faster. In fact, to attach and to detach a pneumatic connection is easier by far than assembling/disassembling a hydraulic connection. There is also no risk to get air into hydraulic fluid. Finally, compressed air can serve more accessory applications than oil (a truck with hydraulic brakes still needs compressed air for seat adjustment, air horn or sliding tarp system).

Air brakes are effective even with considerable leakage, so an air brake system can be designed with sufficient "fail-safe" capacity to stop the vehicle safely even when leaking.

Since maintenance it's easy and do not require many tools air brakes are the most common brake systems.

Nowadays there are many different layouts for air braking systems which can involve even 50 components but all of them works on the same principles.

Together with the air brake system, another popular pneumatic system on heavy vehicles is air suspension. Air suspension is used in place of conventional steel springs in heavy vehicle applications such as buses and trucks, and in some off-road pick up. Air suspension systems are simpler than air braking systems and require less components and less fittings to connect the parts.

Cmatic offers 3 complete fitting lines (push-in, standard and function fittings) developed for Vehicle applications/ air braking systems in the European market and certified by TUV according to DIN 74324, ISO 9227 and ISO 60068.

Cmatic MT Push in fittings (also available in DOT NPT for the US market as PT Line) is different from a standard push-in fitting design: the gripping collet of a MT fitting is fully enclosed into the body and protected by a dust cover. This feature helps to avoid accidental tampering of the connection as a specific tool is required to pull out the tube. Visit this page and discover more about the complete Cmatic Transportation offer!