

# Working principle of pneumatic system and cylinder



Industry consists of many machines that must be controlled by one or other measures. One of the important means of controlling machines is through pneumatic systems.

Pneumatic systems, also known as cylinders, help control machines by applying pressure to machine parts with the help of cylinders filled with compressed air or special

gases that move them in a straight line. This makes the machine parts active and keeps the machine in working condition for smooth and efficient working.

Pneumatic systems are mainly used for brakes, air compressors, air motors, nail guns, etc.

Hite is one of the most reputed companies that offer the best pneumatic systems which are noiseless, clean and require very less space to store fluids.

The work of these types of pneumatic systems depends on their components and their respective roles.

**Compressor:** It is the central part that performs the function of compressing the air to a high pressure to supply the real pneumatic system.

**Check valve:** It is a one-way valve which allows the compressed air to enter the pneumatic system while stopping the backflow.

**Directional valve:** It is the valve that directs and checks the direction of airflow into the system.

**Accumulator:** It checks the amount of airflow and keeps it moderate by storing compressed air, which helps in smooth operation.

**Actuator:** It consists of cylinders, pistons and an arrangement of ports and valves. It helps to bring the stored compressed air into motion.

**Filter:** It helps in removing the impurities from the fluid.

The best pneumatic system can make your work procedure more efficient and effective, keeping your machine intact and valuable. So just order reliable pneumatic systems from Suzhou Schieter and boost your sales and productivity at a higher level.

