

## Steering Valves

A valve is a device that regulates the flow of a fluid like slurries, fluidized gases or regular gases, liquids, by opening, closing or partially obstructing particular passageways. Valves are generally pipe fittings but are typically discussed as a separate category. In cases where an open valve is concerned, fluid flows in a direction from higher to lower pressure.

Many applications like for example commercial, military, industrial, residential and transport businesses make use of valves. A few of the main businesses that depend on valves include the chemical manufacturing, power generation, water reticulation, sewerage, oil and gas sector and mining.

Most valves being used in everyday activities are plumbing valves, which are utilized in taps for tap water. Several popular valves comprise those fitted to dishwashers and washing machines, gas control valves on cookers, valves in car engines and safety devices fitted to hot water systems. In nature, veins within the human body act as valves and regulate the blood circulation. Heart valves even control the circulation of blood in the chambers of the heart and maintain the correct pumping action.

Valves can be utilized and worked in various ways that they could be worked by a lever, a handle or a pedal. Additionally, valves can be worked automatically or by changes in flow, temperature or pressure. These changes could act upon a piston or a diaphragm which in turn activates the valve. Several popular examples of this type of valve are found on boilers or safety valves fitted to hot water systems.

Valves are utilized in many complex control systems that could require an automatic control that is based on external input. Controlling the flow through the pipe to a changing set point is an example. These circumstances normally need an actuator. An actuator would stroke the valve depending on its set-up and input, which enables the valve to be positioned accurately while enabling control over several needs.