Steering Valves

Valves help to regulate the flow of a fluids such as fluidized gases or regular gases, liquids, slurries by opening and closing or even by partially obstructing certain passageways. Typical valves are pipe fittings but are discussed as a separate category. In instances where an open valve is concerned, fluid flows in a direction from higher to lower pressure.

Various applications such as commercial, military, industrial, residential and transport businesses make use of valves. A few of the major businesses that depend on valves consist of the sewerage, oil and gas sectors, mining, chemical manufacturing, power generation and water reticulation.

In every day activities, the most popular valves are plumbing valves as seen in view of the fact that it taps for tap water. Other popular examples comprise small valves fitted to washing machines and dishwashers, gas control valves on cookers, valves in car engines and safety devices fitted to hot water systems. In nature, veins in the human body act as valves and control the blood flow. Heart valves even control the circulation of blood in the chambers of the heart and maintain the proper pumping action.

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

There are more complicated control systems making use of valves which require automatic control which is based on external input. For example, regulating flow through a pipe to a changing set point. These situations normally need an actuator. An actuator will stroke the valve depending on its input and set-up, which enables the valve to be situated precisely while allowing control over several requirements.