## **Control Valves for Forklift**

Forklift Control Valve - Automatic control systems were initially created over two thousand years ago. The ancient water clock of Ktesibios in Alexandria Egypt dating to the third century B.C. is believed to be the first feedback control device on record. This particular clock kept time by means of regulating the water level within a vessel and the water flow from the vessel. A common style, this successful equipment was being made in a similar fashion in Baghdad when the Mongols captured the city in 1258 A.D.

Through history, a variety of automatic equipments have been used so as to accomplish specific tasks or to simply entertain. A popular European design all through the 17th and 18th centuries was the automata. This particular piece of equipment was an example of "open-loop" control, comprising dancing figures which would repeat the same job over and over.

Feedback or likewise known as "closed-loop" automatic control equipments include the temperature regulator found on a furnace. This was actually developed during 1620 and accredited to Drebbel. One more example is the centrifugal fly ball governor developed during the year 1788 by James Watt and utilized for regulating the speed of steam engines.

The Maxwell electromagnetic field equations, discovered by J.C. Maxwell wrote a paper in the year 1868 "On Governors," which was able to describing the exhibited by the fly ball governor. To describe the control system, he utilized differential equations. This paper demonstrated the usefulness and importance of mathematical models and methods in relation to comprehending complicated phenomena. It even signaled the start of systems theory and mathematical control. Previous elements of control theory had appeared earlier by not as dramatically and as convincingly as in Maxwell's study.

New control theories and new developments in mathematical techniques made it possible to more accurately control more dynamic systems than the first model fly ball governor. These updated methods comprise various developments in optimal control in the 1950s and 1960s, followed by advancement in stochastic, robust, optimal and adaptive control techniques during the 1970s and the 1980s.

New applications and technology of control methodology has helped make cleaner engines, with more efficient and cleaner methods helped make communication satellites and even traveling in space possible.

Primarily, control engineering was practiced as a part of mechanical engineering. Also, control theory was first studied as part of electrical engineering in view of the fact that electrical circuits could often be simply explained with control theory techniques. Today, control engineering has emerged as a unique practice.

The first control partnerships had a current output that was represented with a voltage control input. In view of the fact that the correct technology in order to implement electrical control systems was unavailable then, designers left with the option of slow responding mechanical systems and less efficient systems. The governor is a really efficient mechanical controller which is still usually used by various hydro factories. Eventually, process control systems became offered before modern power electronics. These process controls systems were often used in industrial applications and were devised by mechanical engineers making use of pneumatic and hydraulic control equipments, lots of which are still being used nowadays.