## **Control Valves for Forklift**

Forklift Control Valve - Automatic control systems were first created over two thousand years ago. The ancient water clock of Ktesibios in Alexandria Egypt dating to the 3rd century B.C. is considered to be the first feedback control machine on record. This particular clock kept time by means of regulating the water level inside a vessel and the water flow from the vessel. A common design, this successful equipment was being made in a similar way in Baghdad when the Mongols captured the city in 1258 A.D.

All through history, different automatic tools have been used so as to accomplish specific tasks or to simply entertain. A common European style through the 17th and 18th centuries was the automata. This particular machine was an example of "open-loop" control, comprising dancing figures which would repeat the same job again and again.

Feedback or otherwise known as "closed-loop" automatic control machines consist of the temperature regulator found on a furnace. This was actually developed during the year 1620 and accredited to Drebbel. One more example is the centrifugal fly ball governor developed in 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 1868 "On Governors," which was able to describing the exhibited by the fly ball governor. In order to describe the control system, he used differential equations. This paper demonstrated the importance and helpfulness of mathematical methods and models in relation to comprehending complex phenomena. It likewise signaled the start of systems theory and mathematical control. Previous elements of control theory had appeared before by not as dramatically and as convincingly as in Maxwell's analysis.

In the next 100 years control theory made huge strides. New developments in mathematical methods made it possible to more precisely control considerably more dynamic systems as opposed to the original fly ball governor. These updated techniques include various developments in optimal control during the 1950s and 1960s, followed by development in stochastic, robust, optimal and adaptive control methods in the 1970s and the 1980s.

New technology and applications of control methodology have helped make cleaner auto engines, more efficient and cleaner chemical methods and have helped make space travel and communication satellites possible.

Originally, control engineering was carried out as just a part of mechanical engineering. Control theories were originally studied with electrical engineering in view of the fact that electrical circuits can simply be explained with control theory techniques. Nowadays, control engineering has emerged as a unique practice.

The very first control partnerships had a current output that was represented with a voltage control input. Because the correct technology to implement electrical control systems was unavailable then, designers left with the choice of slow responding mechanical systems and less efficient systems. The governor is a really effective mechanical controller which is still usually utilized by several hydro factories. In the long run, process control systems became available prior to modern power electronics. These process controls systems were often used in industrial applications and were devised by mechanical engineers making use of hydraulic and pneumatic control devices, many of which are still being utilized nowadays.