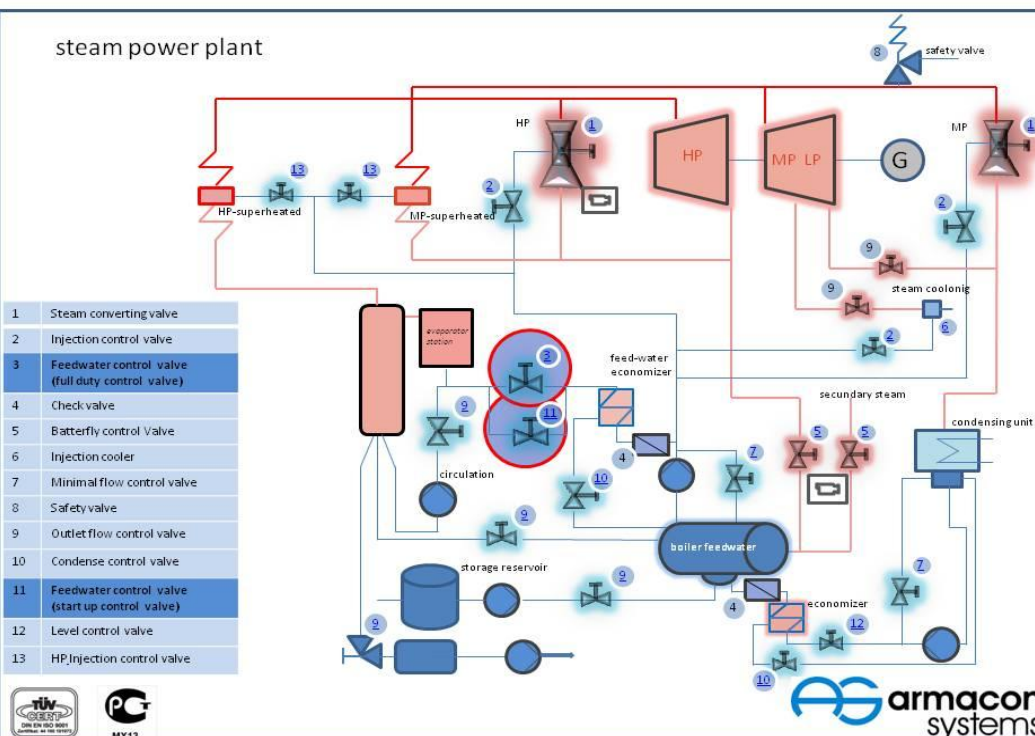


# Feedwater-Control Valves



steam power plant



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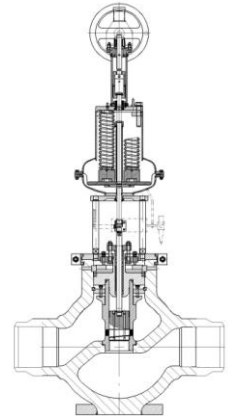




The Feedwater-Control-Valve has to fulfil following Tasks.

1. To achieve an optimal efficiency factor and a minimal pressure lost in full throttle duty within the highest flow stream.
2. To reduce bigger pressure lost within low flow stream.

The solution of these problems is, to divide the tasks on two valves. A one level full throttle duty valve gets combined with a normally 30%-start up valve.



### **Full duty Control Valve**

The control of low until middle pressure lost is the task of the full duty control valve. Corner or Z-Valves made by forged steel, equipped with multi hole piston, have established themselves for this task. The nominal pressure is very important for the choice of the correct body cover, whether it is a flanges connection or a self-sealing cover.

According to the planed operation, the valve is designed for easy maintenance:

The self-sealing cover is especially friendly for maintenance, because the cover is easy to dissemble.

The piston-stem is made by resistant material.

Because the reduced flow stream gets divided in several smaller streams, the piston has a low sonic- and vibrancy level and also highly resistant.

To reduce the operation forces, the Feed-Water-Control Valves are also available in pressure balanced version.

### **Start up valve**

The main difference to the full duty valve is the corner design. The corner design is a multi level pressure reducing while start up and shut down.

The piston can be designed as pressure balanced, that means that the pressure lies at the upper and down side of the valve. The actuator forces and the operation forces on the piston are small because of the pressure balance.

The start up valve is also available as straightway design and non pressure balanced design.