



**Product name:** Pressure Cut Off Switch Valve

**Product Application:** A Pressure Cut Off Switch Valve, also known as a Pressure Relief Valve or Pressure Safety Valve, is a crucial component used in various systems to protect against excessive pressure build up. Its primary function is to open and release excess pressure when it reaches a predetermined level, preventing damage to the system or equipment.

**Product features:** The valve is designed to sense the pressure within a system or equipment. It typically contains a pressure-sensitive mechanism, such as a spring or diaphragm, that reacts to the pressure exerted on it.

**Set Point:** The valve is calibrated or set to open when the pressure exceeds a specific threshold, known as the set point or relief pressure. This set point can be adjusted or fixed depending on the specific requirements of the system.

**Opening and Closing Mechanism:** When the pressure exceeds the set point, the valve's mechanism is activated to open a pathway for the excess pressure to escape. This can involve lifting a valve disc, compressing a spring, or displacing a diaphragm, allowing the pressure to be released.

**Pressure Relief:** Once the valve opens, it creates a passage for the high-pressure fluid or gas to escape. This effectively reduces the pressure within the system, preventing any potential damage or failure due to excessive pressure.

**Reclosing and Resetting:** After the excess pressure has been relieved, the valve will reclose or reset, effectively sealing off the pathway for pressure release. This allows the system to stabilize and resume normal operation.