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## **FLUID POWER CIRCUITS and CONTROLS**

Many circuits are used frequently in fluid power systems to perform useful functions. For example, metering circuits offer precise control of actuator speed without a lot of complicated electronics, decompression circuits reduce pressure surges within a hydraulic system by controlling the release of stored fluid energy, and pump-unloading and regenerative circuits make a system more energy ...

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designing a hydraulic circuit, the following three important considerations must be taken into account: 1. Safety of operation 2. Performance of desired function 3. Efficiency of operation It is very important for the fluid power ( Hydraulics and Pneumatics ) designer to have a working knowledge of components and how they operate in a circuit.

## **HYDRAULIC CIRCUIT DESIGN AND ANALYSIS**

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