

# Chapter 12 Hydraulic And Pneumatic Power Systems

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Chapter 12 Hydraulic and Pneumatic Power Systems Aircraft Hydraulic Systems The word “hydraulics” is based on the Greek word for water and originally meant the study of the physical behavior of water at rest and in motion. Today, the meaning has been expanded to include the physical

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Figure 12-2: Hydraulic system pictorial diagram. Cutaway Diagrams. Cutaway diagrams (Figure 12-3) show the internal working parts of all fluid power components in a system. The diagrams include controls and actuating mechanisms and all interconnecting piping. Cutaway diagrams do not normally use symbols. Figure 12-3: Cutaway diagram—pneumatic.

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Chapter 12: Hydraulic and Pneumatic Power Systems Hydraulic systems may use a variety of fluids-- ranging from water (with or without additives) to high-temperature fire-resistant types. as harmony can be gotten by just checking out a book chapter 12 hydraulic and pneumatic power systems furthermore it is not directly done, you

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Chapter 12.6 The burden is the sum of all external forces which act on the hydraulic actuator from the physical system. The burden can be expressed as:  $F_b = F_{ext}$  (12-1) where  $F_b$  is the burden, the sum of all external forces ( $F_{ext}$ ). This definition does include terms such as gravity, but does not include inertial terms because inertial terms involve the action of hydraulic pressure.

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Another advantage hydraulic-powered machines have over pneumatic ones is that they operate at higher pressure -- typically 1500 to 2500 psi. Higher pressures generate high force from smaller actuators, which means less clutter at the work area. The main disadvantage of hydraulics is increased first cost because a power unit is part of the machine.

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