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35. 18 • PRINCIPLES OF HYDRAULIC SYSTEMS DESIGN a low speed motor can be selected that avoids the necessity of employing a gearbox and has sufficient bearing capacity to support side loads on the output shaft.

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confined throughout the entire system. Special consideration must be given to the structural integrity of the parts of a fluid power system. Strong pipes and containers must be provided. Leaks must be prevented. This is a serious problem with the high pressure obtained in many fluid power installations. The operation of the system involves constant

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The coaxial O-ring energized rod seal profile shown in the cylinder drawing f34 • PRINCIPLES OF HYDRAULIC SYSTEMS DESIGN (Figure 3.5) generally has a filled polytetrafluoroethylene (PTFE) face in contact with the rod and is used in applications where low breakout friction is particularly important.

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The primary principle of hydraulic system design is Pascal's principle. In a controlled system, force is multiplied according to the area of the larger weight. Imagine a lever with a small weight on the long side, and a larger weight on the smaller side.

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The hydraulic system works on the principle of Pascal's law which says that the pressure in an enclosed fluid is uniform in all the directions. The Pascal's law is illustrated in the figure. The force given by fluid is given by the multiplication of pressure and area of cross-section.

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