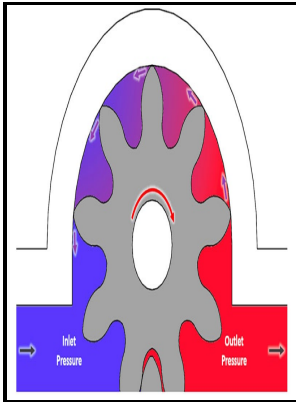


End plate lubrication in external gear pumps.

University of Birmingham - Piston



Description: -

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The trouble is that the cam and tappets will get a lot worse than this before you can actually hear them, and the gradual, long-term wear means you will not notice the power and economy losses either. Reduced inertia also improves mechanical efficiency of the engine: the forces required to accelerate and decelerate the reciprocating parts cause more piston friction with the cylinder wall than the fluid pressure on the piston head.

Engineering Essentials: Fundamentals of Hydraulic Pumps

Several controls are available for this purpose. How close it comes is called volumetric efficiency.

Каталог запчастей на спецтехнику

The recirculation line should be sized to allow enough flow through the pump to prevent overheating and damage to the pump.

Piston

There are two basic types, axial and radial piston; both are available as fixed and variable displacement pumps. When pressure is high enough to overcome the compensator spring force, the cam ring shifts to decrease the eccentricity.

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Figure 21 shows the characteristic curve for a positive displacement pump. The load-sensing gear pump illustrated in Figure 19 minimizes power consumption in the running mode by separating total discharge flow according to a remote primary function pressure and a primary flow.

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