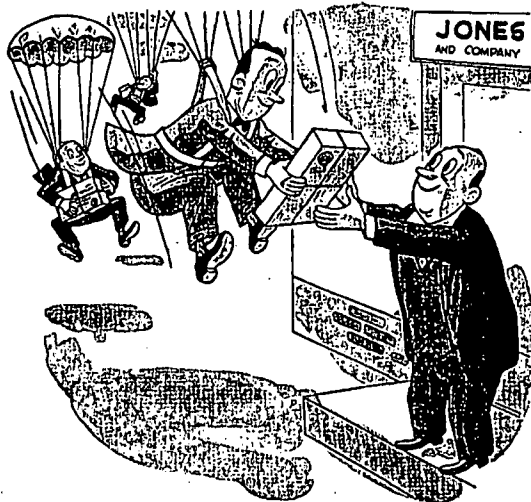


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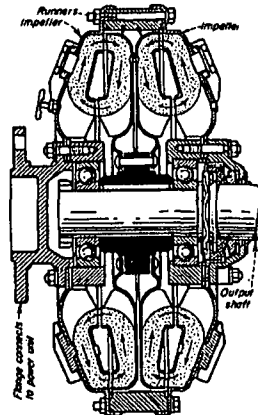
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by conditions on its suction side. Conditions under which pumps operate in process service, as in chemical plants and oil refineries and in condensate service, such as in steam plants, are analyzed. NCII paper.

Practical Hydraulic - Coupling Design Modifications, by W. F. Shurtz, Tulsa Disc Clutch Co. Considers practical aspects of design and application of hydraulic couplings and hydraulic torque converters to industrial equipment. Typical one shows in Fig. 3. DII.



3 Runner balances hydraulically by action of two separate axial forces

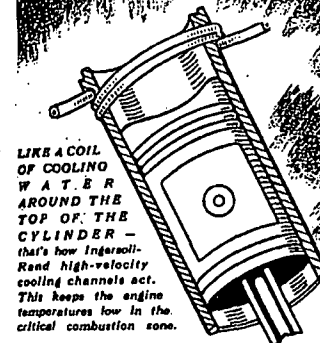
ferent designs of hydraulic-coupling circuits and their modifications are explained. Their performance curves are shown for induction motor and internal-combustion-engine application. NCII paper.

Variable-Speed Hydraulic-Power Transmissions, by James Robinson, Vickers, Inc. Variable-speed hydraulic-power transmissions using positive-discharge variable-displacement piston pumps are studied for speed range, physical size, rating, hydraulic circuits, volumetric efficiency, fluid compressibility, output torque, torque efficiency, pump-stroke control, noise levels, failure of hydraulic equipment to perform, and operating temperature range. These factors indicate that requirements should be carefully analyzed before selecting a variable-speed unit, to obtain best possible application of hydraulic equipment. NCII paper.

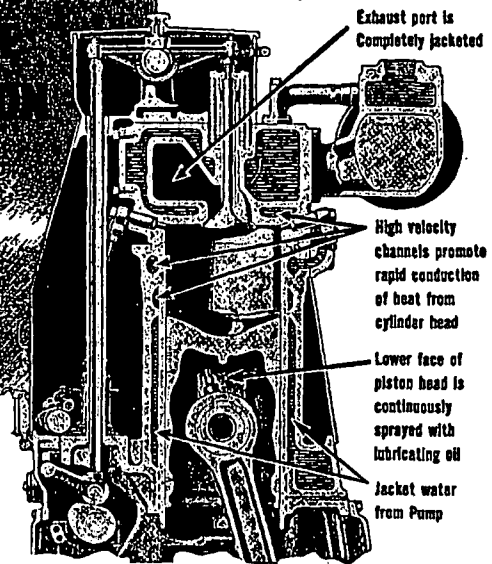
Hydraulic Fluids and Their Applications, by James I. Clower, University of Dela-

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