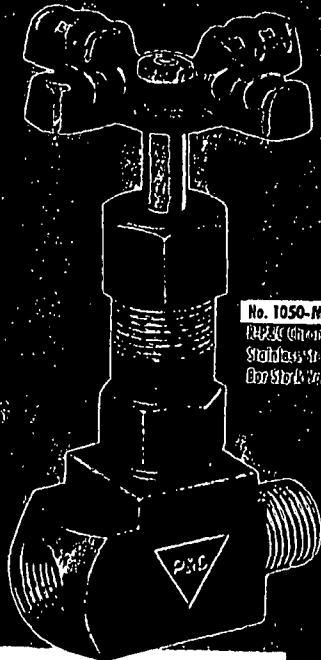




No. 1050-MF
R-P&C Chrome
Stainless Steel
Bar Stock Valve

Positive Flow Control

• For special hookups such as well head assemblies and gauge panels, the R-P&C Bar Stock Valve has no equal. It is a fine throttling valve that positively controls the flow.

Male and female end type is made of carbon or chrome stainless in $\frac{1}{4}$ " and $\frac{1}{2}$ " sizes, in globe and angle types. Other bar stock valves are made of bronze, stainless, or carbon and stainless steel in sizes $\frac{1}{8}$ " to 1". High pressure and temperature ranges.

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**R-P&C
valves**

WITH OUR READERS

as noted under (2). If none of the above has similar values to the unit's speed, resonance will not likely occur.

4. As an extra precaution, compute maximum deflection due to flexure shear. Then, using the formula

$$f = \frac{1}{2\pi} \sqrt{\frac{g}{\Delta \text{ defl}}}$$

establish the frequency of the equivalent simple system.

It may be interesting to mention that the bino-foundation construction recently completed in France. Instead of rectangular cross sections for the reinforced concrete members, "I" shaped sections were used. Thus, while maintaining a large moment of inertia, the possibility of adding weight to the members was provided for, in case objectionable vibrations that may develop because of unforeseen circumstances.

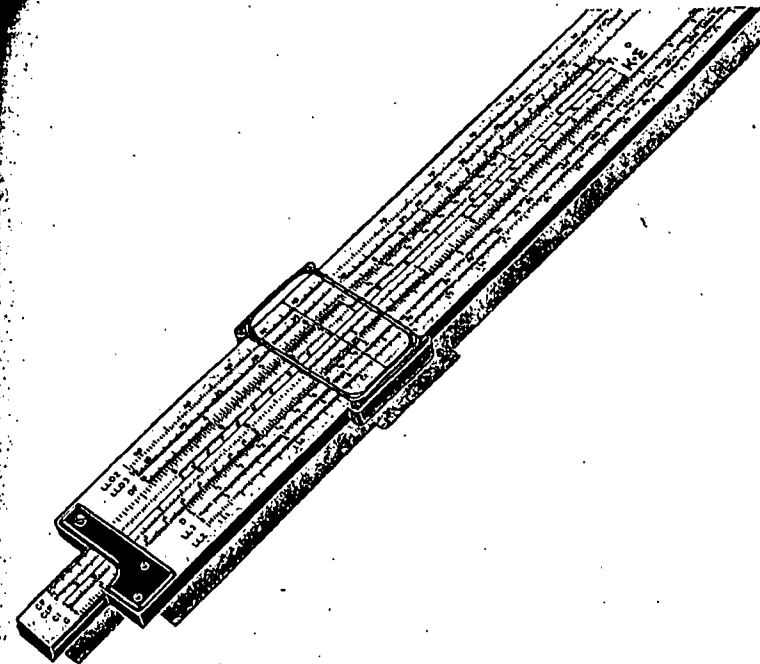
PAUL ROCKS, Structural Engineer
Chicago, Ill.

* See Don Hartog's *Mechanical Vibrations*, other books on vibrations.

Production, processing and distribution of petroleum soared to new all-time peaks in 1952 as the American people, for the tenth consecutive year, consumed more petroleum products in more ways than ever before in history. In a year-end report on the oil industry's 1952 accomplishments, Fred M. Porter, President of the American Petroleum Institute, said domestic demand approximated 2 billion 650 million barrels and total demand (which includes exports) exceeded 2 billion 800 million barrels. He described the 1952 increase, three per cent as "modest" in comparison to the large gains of recent years. He said this could be an indication that the post-war boom in petroleum demand is now leveling off in an area of more normal growth. Porter noted that the industry's capital expansion program for 1952 anticipated spending more than four billion dollars—an increase of nearly 25 per cent over the 1951 total.

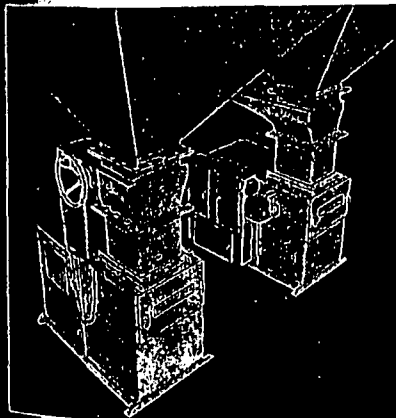
The world's power requirements will someday be met entirely with atomic energy, while coal and petroleum are used chiefly as chemical sources of industrial products, Dr. George Curme Jr., vice president of the Union Carbide and Carbon Corp., New York, said at the Pittsburgh Award dinner of the American Chemical Society's Pittsburgh Section.

McGraw-Hill World News, The Hague, Dutch atomic scientists are seeking aid from industry and government to set up an atomic "power breeder." Dr. W. J. Beekman, Director of the Netherlands Foundation for Fundamental Research has disclosed that a contract is expected to be signed this year with leading Dutch electricity companies who would contribute 125,000 guilders a year for a period of five years and make available laboratories and services. Dr. Beekman said that some leading industries were prepared, in principle, to contribute similar amounts to the project.



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