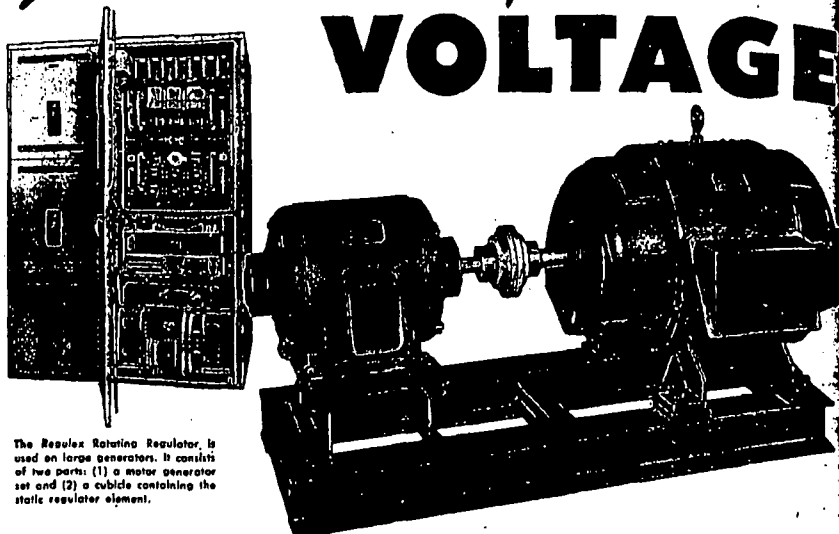


Fast, accurate, dependable

VOLTAGE REGULATION

For ANY Size Generator



The Regulex Rotating Regulator, is used on large generators. It consists of two parts: (1) a motor generator set and (2) a cubicle containing the static regulator element.

Regulex ROTATING REGULATOR

- ★ Maximum Productivity from New Generators
- ★ New Efficiency from Present Installations

Regulex voltage regulators incorporating automatic minimum excitation permit generator operation close to the stability limit . . . much closer than manual operation allows. The sensitivity and exceptional response of the Regulex voltage regulator and associated equipment establish and maintain a safe ratio between

generator load and field current . . . increase operating limits at any given power factor load . . . assure the proper reactive kva division. The Regulex voltage regulator does not require multiple special fields in the exciter — may be applied to any standard shunt machine. Write for literature.

A-41P

New Magnetic and Electronic Amplifiers

Versatile "Tools" Used in Solving Your Particular Voltage Regulation Problem

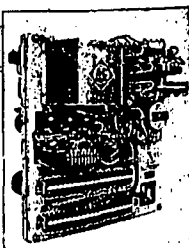
For special industrial and military regulating systems, added flexibility is obtained by using magnetic and electronic amplifiers. These components supplement but do not replace the Regulex rotating amplifier in most applications.

The magnetic amplifier is used primarily where reversible output from the amplifier is not required. Special exciter design is eliminated in such applications.

The shock-proof characteristics of the magnetic amplifier make it particularly adaptable to military voltage control.

Electronic amplifiers are used only on applications that require exceptionally high sensitivity.

Applications of magnetic and electronic amplifiers for purposes other than voltage control include speed, current, and tension, regulation.



Voltage regulator with current limiting device. Used for control of static rectified dc power supply.

Rocking Contact VOLTAGE REGULATORS

dc Applications

The Type VD Regulator has been designed to meet the demands of voltage or current characteristics of dc machine operation. Resistors are cut in and out of the exciter shunt field by the Rocking Contact sector. No sluggish, time wasting relays.

No vibrating or sliding contacts to wear out. A small movement of the Rocking Contact sector over a curved commutator covers the entire regulating range. Type VD regulators are available for all dc generators. Write for Bulletin 14B8137A.



VD-2 Regulator for dc generators from 10 kw at 80 rpm to 200 kw at 3600 rpm

ac Applications



Types V-00 and 221 Regulators

FOR SMALL GENERATORS

Rocking Contact Voltage Regulators are available in two types for use on small ac generators with direct-connected exciters — Type V-00 for generators to 157 kva maximum at 3600 rpm; Type 221 for generators to 438 kva maximum at 3600 rpm. These regulators can be modified for temperature compensation, shock mounting or other special requirements. Bulletin 14B8143A gives details.



Types A, B, and C Regulators

FOR MEDIUM SIZE GENERATORS

Types A, B, and C Regulators differ only in kva range.

Type A Regulator — for ac generators, 125 kva at 257 rpm to 1750 kva at 3600 rpm.

Type B Regulator — for ac generators, 1000 kva at 257 rpm to 6250 kva at 3600 rpm.

Type C Regulator — for ac generators from 3125 kva at 257 rpm to 25,000 kva at 3600 rpm.

All have guaranteed sensitivity of plus or minus 0.5%. Write for Bulletin 14B8035B.

Regulex and Rocking Contact are Allis-Chalmers trademarks.

FOR LARGE GENERATORS

Type J Rocking Contact Regulators are of the exciter field rheostatic type designed for the control of large synchronous machines. This regulator consists of two parts: (1) a voltage sensitive torque motor control element for panel mounting; (2) a motor-operated exciter rheostat with high speed field forcing contactors. Write for Bulletin 14B6015A.



Type J Element



Motor-Operated Rheostat

ALLIS-CHALMERS

Milwaukee 1, Wisconsin

