

# Advantages of variable speed actuators

By Mrs Noelp and Mr Reihart, Sipos

Variable-speed drives (VSD) have increasingly become established in industrial plant engineering and even the consumer sector in recent years. In many cases, the reason for their selection can be found in total energy savings throughout service life. It is, for example, cheaper to have a variable-speed compressor supply precisely the flow of air required instead of running it at a fixed speed for maximum demand and generating the actual demand by means of throttles, and thus wasting energy. A further motivation frequently mentioned for the use of VSDs in industrial processes is the matching of actuator elements to diverse process requirements. Many of the advantages offered by VSDs in industrial applications can also be realized on the valve market and in electrical actuator drive systems, and new benefits are also being added. This overview article will: outline the structure and methods for "generation" of speed variation; explain the benefits using applications in the valve field; and indicate design and project-planning advantages arising from the use of VSDs.

## Design of a variable-speed drive

There are different ways of running a motor with variable speeds. For mains voltages of less than 1000 V and outputs of several 100 kW, the so-called "frequency converter with DC voltage link" is used, mostly in combination with a robust induction motor. Therefore, only this version will be briefly outlined in the following. A variable-speed drive (VSD) requires 3-ph voltage at the motor, changeable both in terms of frequency (speed) and amplitude (voltage level determines torque). However, the voltage provided by the mains supply is constant in terms of frequency and amplitude. The conversion takes place in two steps:

### 1. Rectifying and smoothing

The 1-ph or 3-ph feed voltage is first converted into a (ripple/wave-like) DC voltage using a network of rectifier diodes ("bridge rectifiers") (Figure 1). The voltage is further smoothed via "thick / big" capacitors which are used as buffer for the energy.

### 2. Inversion

The second part of a frequency converter consists of six fast "electronic" switches connecting the DC voltage in a precisely defined rhythm to the three motor terminals. By switching very

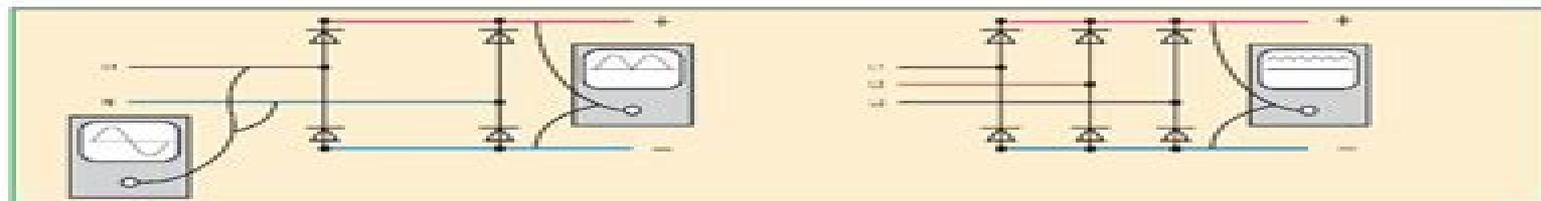


Fig. 1: Rectification of feed voltage



Fig. 2: Smoothing and pulse-width modulation

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**SJ Ball**



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