## Application Notes $K_v \cdot Valve sizing$



## Calculation of the valve flow coefficient Kv

The procedure specified in the DIN EN 60 534 standard is applied to determine the valve flow coefficient  $K_V$ . The relevant, device-specific data can be found in the associated data sheets. The equations below are given to allow a preliminary, simplified calculation of the valve flow coefficient to be performed. Please note that these equations do not take account of the influence of the connection fittings and the flow limitation in case of critical flow velocities.

## Selection of the valve flow coefficient Kys

On the basis of the calculated valve flow coefficient  $K_V,$  the appropriate valve flow coefficient  $K_{VS}$  for the relevant valve type can be selected from the associated data sheet.

If realistic operating values have been used for the calculation, the following applies in general:

- For self-operated regulators:  $K_{Vmax} = 0.75 \cdot K_{VS}$
- For motor-operated values:  $K_{Vmax} = 0.9 \cdot K_{VS}$



**Edition June 2006** 

Application Notes

Specifications subject to change without notice.

