

# Symbols and Acronyms



Process control uses many symbols in equations and drawings. The equation symbols are presented here, and the drawing symbols are presented along with common process sketches in Appendix A. The symbols selected for this Table are used multiple times in the book and explained only where they are first used. If a symbol is used only once and explained where used, it is not included in this table. Each entry gives a short description and where appropriate, a reference is given to enable the reader to quickly find further explanation of the symbol and related technology.

Symbol	Description and reference
$A$	Cross-sectional area of a vessel
$A_i$	Fraction of component $i$
AR	Amplitude ratio, equations (4.70) and (4.72)
A/D	Analog to digital signal conversion, Figure 11.1
$C$	Concentration ( $\text{mol}/\text{m}^3$ ); subscript indicates component
CDF	Control design form, Table 24.1
$C_p$	Heat capacity at constant pressure Process capability, equation (26.7)
$C_{pk}$	Process capability, equation (26.8)
$C_v$	Heat capacity at constant volume Valve characteristic relating pressure, orifice opening, and flow through an orifice, equation (16.13)