through

through

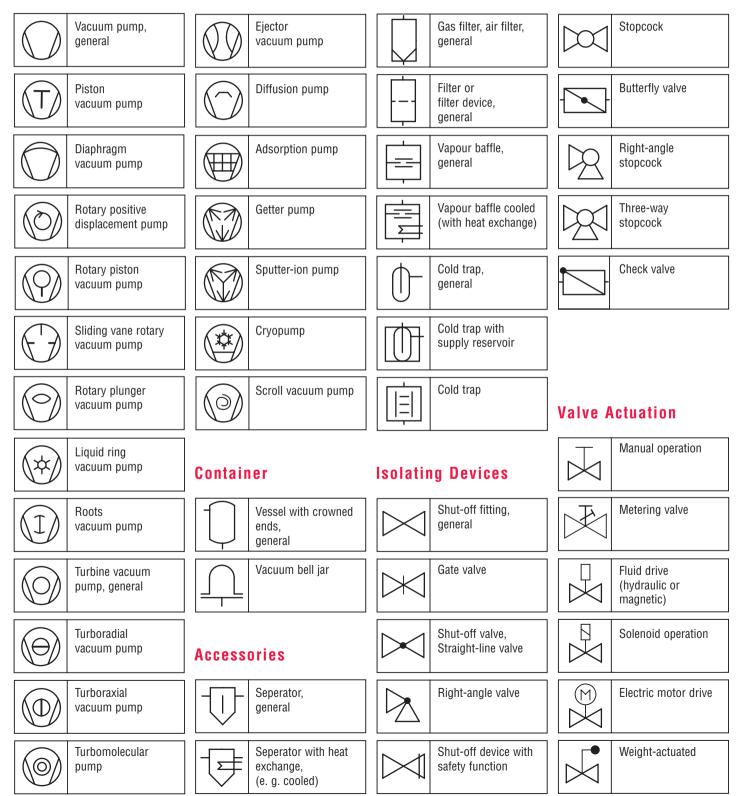
Vacuum Symbols

All symbols, except those marked *) may be used in any orientation.

The symbols for vacuum pumps should always be so positioned that the narrowing lines point to the side of higher pressure.

*) These symbols must only be used in the indicated position (tip of the triangle pointing downwards)

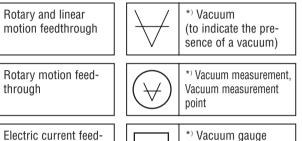
Vacuum Pumps



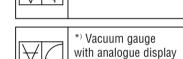
Connections and Piping

Flange connector, general	Flange connector, general
Flange connector, bolted	Change in pipe cross section (e. g. reducer nipple)
Small flange connector	Junction of two pipes with communication
Clamped flange connector	Cross-over of two pipes without communication
Threaded pipe connector	Branch point
Ball-and-socket joint	Bundle pipes
Spigot-and-socket joint	Port allowing sliding motion, with flange
Connection by taper ground joint	Linear motion feed- through

Vacuum Measurement and Gauges



$\forall \exists$	*) Recording vacuum gauge (writing)



V 000	*) Vacuum gauge with digital display

	Flow measurement

