

Valve Selection Guide

The suitability of a valve for a particular application is decided by the materials used in relation to the conveyed fluid as well as its mechanical design. The table below can be used as a valve selection guide.

Conveyed Fluid	Nature of Fluid	Valve Function	Type of Disc
Liquid	Neutral (Water, Oil, etc)	On/Off	Gate
			Rotary ball
			Plug
			Diaphragm
			Butterfly
			Plug gate
		Control valve, modulating	Globe
			Butterfly
			Plug gate
			Diaphragm
	Corrosive (Acid, alkaline etc.)	On/Off	Needle
			Gate
			Plug gate
			Rotary ball
			Plug
			Diaphragm
		Control valve, modulating	Butterfly
			Globe
			Diaphragm
			Butterfly
	Hygienic (Food, beverages, drugs etc)	On/Off	Plug gate
			Diaphragm
		Control valve, modulating	Butterfly
			Diaphragm
			Squeeze
			Pinch
	Slurry	On/Off	Rotary ball
			Butterfly
			Diaphragm
			Plug
			Pinch
			Squeeze
		Control valve, modulating	Butterfly
			Diaphragm
			Squeeze
			Pinch
	Fibrous Suspensions	On/Off, Control valve, modulating	Gate
			Gate
			Diaphragm
			Squeeze
			Pinch

Gas	Neutral (Air, Steam etc)	On/Off	Gate
			Globe
			Rotary ball
			Plug
			Diaphragm
		Control valve, modulating	Globe
			Needle
			Butterfly
	Corrosive (Acid vapors, chlorine etc.)	On/Off	Diaphragm
			Gate
			Butterfly
			Rotary ball
		Control valve, modulating	Diaphragm
			Plug
			Butterfly
			Globe
Solids	Abrasive Powder (Silica, etc)	On/Off, Control valve, modulating	Needle
			Diaphragm
			Gate
			Globe
			Rotary ball
	Lubricating powder (graphite, talcum, etc	On/Off, Control valve, modulating	Butterfly
			Pinch
			Squeeze
			Spiral sock
			Gate