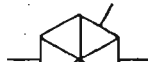


Chemical Engineering Drawing Symbols

D. G. Austin

George Godwin Limited - London

John Wiley & Sons - New York

	BS	ANSI(ASA)	Alternative	Alternative
In-line valve (any type or pattern)	 basic ① ② ③ ⑥	 basic ⑩		
Straightway valve			 ⑯	
Simple screwdown valve	 ①			
Three-way valve	 ① ②		 ⑯	
Four-way valve	 ① ②			
Multi-way valve <i>Show as many leads as are required, one to each side of hexagon.</i> Illustrated: 5-way valve.	 ③			
Angle valve	 ① ③ ⑥	 ⑩	 ⑯	 ⑭ ⑮ ⑱

If further elucidation is required, the following reference letters may be used adjacent to the symbols to indicate valve type:

Sluice valve, double face	S
Sluice gate/single face sluice valve	W
Parallel-side valve	L
Butterfly valve	B
Piston valve	P
Globe valve	G
Diaphragm valve	D
Fine adjustment (e.g. needle) valve	F
Streamline needle valve	N
Rotary valve	R

Alternatively, the following symbols may be used to indicate a specific valve type: