

VALVE TERMS AND PIPING SYMBOLS

VALVE & FITTING INDUSTRY ABBREVIATIONS

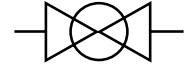
AFS	American Foundrymen's Society
AGA	American Gas Association
ANSI	American National Std. Institute
ASME	American Society of Mechanical Engineers
ASTM	American Society of Testing & Materials
AWWA	American Water Works Association
BB	Bolted Bonnet
BFV	Butterfly Valve
BHN	Brinell Hardness Number
BTU	British Thermal Unit
BW	Butt Weld
BWE	Butt Weld Ends
C	Celsius Degrees
CxC	Copper to Copper
CDA	Copper Development Association
CI	Cast Iron
Cr 13	13% Chromium Stainless Steel
CSA	Canadian Standards Association
DD	Double Disc
DI	Ductile Iron
F	Fahrenheit Degrees
FE	Flanged End
FF	Flat Faced
FM	Factory Mutual Laboratories
FOB	Free On Board
GPM	Gallons Per Minute
Hg	Hydrargyrum (Mercury)
HB	Brinell Hardness
HRC	Rockwell C Hardness
IBBM	Iron Body Bronze Mounted
ID	Inside Diameter
IPS	Iron Pipe Size
ISNRS	Inside Screw Non-Rising Stem
ISO	International Standards Organization
ISRS	Inside Screw Rising Stem
MSS	Manufacturers Standardization Society
MTR	Material Test Report
NPT	National Pipe Taper (Pipe Thread)
NSR	Non-Rising Stem
OD	Outside Diameter
OS&Y	Outside Screw and Yoke
PN	Pressure Nominal (Metric)
PSI	Pounds Per Square Inch
PSIA	Pounds Per Square Inch Absolute
PSIG	Pounds Per Square Inch Gage
P-T	Pressure - Temperature
Rc	Rockwell "C"
RF	Raised Face
RPM	Revolutions Per Minute
RS	Rising Stem
SB	Screw-In-Bonnet
SE	Screwed Ends
SJ	Solder Joint
SS	Stainless Steel
STD	Standard
SWP	Steam Working Pressure
TRIM	Certain Valve Parts - Stems, Seats, Etc.
UB	Union Bonnet
UL	Underwriter's Laboratories
WOG	Working Pressure: Water, Oil and Gas
WSP	Working Steam Pressure
WWP	Water Working Pressure

VALVE SELECTION GUIDE

GATE

Recommended for:

- Full Open/Closed Service
- Minimal Line Pressure Drop
- Infrequent Operation



GLOBE

Recommended for:

- Throttling of flow
- Frequent Operation
- Service with some line resistance to flow
- Angle Valves offer less resistance to flow than valve and elbow.



CHECK

Recommended for:

- Control of direction of flow and quick automatic reaction to flow change.
- Use in conjunction with gate valve.
 - They should not be used in air compressor service or on a reciprocating pump as these services will cause chattering and valve vibration damage.



BALL

Recommended for:

- On and Off service or throttling of flow
- When positive shut-off is necessary
- When low valve profile is necessary
- Quarter turn operation - 90° rotation from fully open/fully closed
- Easily adapts to automation
- Handle position is a quick indication of whether valve is open or closed.
- Full port ball valve design offers no resistance to flow.



BUTTERFLY

Recommended for:

- Positive shut-off is necessary
- Fully open or fully closed applications (may be used for throttling applications)
- Quarter turn operation - 90° rotation from fully open/fully closed
- Easily adapts to automation
- Light weight design offers easy installation
- Replaces costly Iron body gate valves

