

HOW TO READ COMMON VALVE SYMBOLS ON A P&ID

Quick visual guide for industrial valve selection and drawing review

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VALVE SYMBOL GUIDE

1. COMMON VALVE SYMBOLS



Gate Valve



Ball Valve



Globe Valve



Butterfly Valve



Plug Valve



Needle Valve



Check Valve



Relief Valve



Pressure Regulator



Three-Way Ball Valve



Y-Strainer

Project Legend

Always confirm the symbol against the drawing legend.

2. COMMON ACTUATOR TYPES



Manual



Gear



Pneumatic



Electric



Hydraulic

3. READ THE SYMBOL IN 4 STEPS

1 Identify the valve body

2 Check the actuator

3 Read normal and fail position

4 Confirm the tag and datasheet

4. QUICK SELECTION REFERENCE

Isolation / on-off

Gate Valve • Ball Valve • Plug Valve

Backflow prevention

Check Valve

Filtration

Y-Strainer

Flow regulation

Globe Valve • Needle Valve

Pressure protection

Relief Valve • Pressure Regulator

Flow routing

Three-Way Ball Valve

5. IMPORTANT DRAWING NOTES

- A P&ID symbol identifies the valve function, not the exact product construction.
- Forged or cast body construction is confirmed in the valve tag or datasheet.
- Pressure class, material, seat design and end connection are separate specifications.
- Fail-open and fail-closed information should be read independently from actuator type.
- Symbol details can vary between owners and projects.