P&ID Symbols

indutorial

P&ID valve symbols


Gate valve


Globe valve


Ball valve


Butterfly valve


Check valve


Plug valve


Needle valve


Diaphragm valve


Angle valve


Three-way valve


Safety relief valve


Control valve, diaphragm actuator



Control valve, electric motor actuator


Solenoid valve


Hand-operated valve

Pump and equipment symbols


Centrifugal pump


Positive displacement pump (reciprocating)


Compressor


Fan or blower


Vertical vessel


Horizontal vessel


Atmospheric storage tank

Tray column


Shell and tube heat exchanger


Plate heat exchanger


Liquid filter


Agitator

Instrument symbols


Field-mounted instrument


Panel-mounted instrument


Instrument behind the panel


Shared display or control (DCS)


PLC function

Piping and line symbols

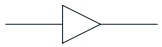
Process line

Pneumatic signal line

Electrical signal line

Capillary tube

Data link


Reducer


Flanged connection


Spectacle blind