

P&ID/PFD SYMBOLS (GENERAL INSTRUMENT OR FUNCTION SYMBOLS)

FILE NAME	SYMBOL	DESCRIPTION	FILE NAME	SYMBOL	DESCRIPTION	FILE NAME	SYMBOL	DESCRIPTION
P050		VALVE	P082		PRESSURE RELIEF OR SAFETY VALVE, STRAIGHT-THROUGH PATTERN, SPRING- OR WEIGHT-LOADED, OR WITH INTEGRAL PILOT	P118		FOUR-WAY VALVE (ARROWS INDICATE FLOW DIRECTION)
P051		ANGLE VALVE	P083		RUPTURE DISK OR SAFETY HEAD FOR VACUUM RELIEF	P119		BALL-CHECK VALVE
P052		BUTTERFLY VALVE	P084		RUPTURE DISK OR SAFETY HEAD FOR PRESSURE RELIEF	P120		DUAL PURGE VALVE
P053		ROTARY VALVE	P085		PILOT LIGHT X=COLOR R=RED G=GREEN	P121		ALARM VALVE
P054		3-WAY VALVE	P086		FLEX CONNECTION (RUBBER)	P122		AIR INTAKE FILTER
P055		4-WAY VALVE	P087		FLEX CONNECTION	P123		ALARM
P056		OS & Y VALVE	P088		SINGLE PITOT TUBE OR PITOT VENTURI TUBE	P124		BUBBLE GAUGE
P057		DIAPHRAGM VALVE	P089		FLOW METER	P125		IN-LINE FILTER
P058		PRESSURE RELIEF	P090		FLOW NOZZLE OR VENTURI	P126		ATMOSPHERIC FILTER
P059		DIAPHRAGM ACTUATOR	P091		REDUCER	P127		DOUBLE BASKET STRAINER
P060		TWO-WAY VALVE, FAIL CLOSED	P092		SCREWED CAP	P128		HOSE REEL
P061		TWO-WAY VALVE, FAIL OPEN	P093		PIPE CAP	P129		OPEN DRAIN (SHOWN)
P062		3-WAY VALVE W/DIAPHRAGM ACTUATOR	P094		HOSE CONNECTION	P130	XX	XX- DRAIN SYSTEM ANNOTATIONS
P063		4-WAY VALVE W/DIAPHRAGM ACTUATOR	P095		FLANGED CONNECTION (PIPING OR EQUIP)	P131		DRAIN (PLAN VIEW)
P064		SPRING-OPOSED SINGLE-ACTING ACTUATOR	P096		FLOW ORIFICE FIXED	P132		CLEANOUT (PLAN VIEW)
P065		SPRING-OPOSED DOUBLE-ACTING ACTUATOR	P097		STRAINER WITH VALVE	P133		SANITARY VENT
P066		ELECTROHYDRAULIC ACTUATOR	P098		Y-STRAINER	P134		SILENCER/MUFFLER
P067		HAND ACTUATOR OR HAND WHEEL	P099		COMPRESSED AIR	P135		SPACE PENETRATIONS
P068		RESTRICTION ORIFICE IN PROCESS LINE	P100		DUCTED AIR FLOW FROM SPACE	P136		FIXED LOUVERS
P069		RESTRICTION ORIFICE DRILLED IN VALVE	P101		CAPPED AIR DUCT	P137		TRAP XX ANNOTATES FUNCTION
P070		FLOW STRAIGHTENING VANE	P102		GATE VALVE (OPEN)	P138		LUBRICATOR
P071		DIAPHRAGM PRESSURE-BALANCED	P103		GATE VALVE (CLOSED)	P139		55 GALLON DRUM
P072		PRESSURE-REDUCING REGULATOR, SELF-CONTAINED, WITH HAND WHEEL ADJUSTABLE SET POINT	P104		GLOBE VALVE (OPEN)	P140		THERMOSTATIC VENT
P073		PRESSURE REDUCING REGULATOR WITH EXTERNAL PRESSURE TAP	P105		GLOBE VALVE (CLOSED)	P141		SPRINKLER ALARM (WATER MOTOR GONG)
P074		DIFFERENTIAL-PRESSURE-REDUCING REGULATOR WITH INTERNAL AND EXTERNAL TAPS	P106		NEEDLE VALVE (OPEN)	P142		FLOW ALARM VALVE
P075		BACK PRESSURE REGULATOR, SELF-CONTAINED	P107		NEEDLE VALVE (CLOSED)	P143		FLOW CONTROL VALVE
P076		BACK PRESSURE REGULATOR WITH EXTERNAL PRESSURE TAP	P108		PLUG VALVE (OPEN)	P144		SUCTION DIFFUSER
P077		PRESSURE-REDUCING REGULATOR WITH INTEGRAL OUTLET PRESSURE RELIEF VALVE, AND OPTIONAL PRESSURE INDICATOR	P109		PLUG VALVE (CLOSED)	P145		AUTOMATIC AIR VENT
P078		PRESSURE INDICATOR	P110		BALL VALVE (OPEN)	P146 TO P149		NOT USED
P079		FLOW DIRECTION	P111		BALL VALVE (CLOSED)			
P080		PRESSURE RELIEF OR SAFETY VALVE	P112		CHECK VALVE			
P081		VACUUM RELIEF VALVE	P113		SPRING CHECK VALVE			
			P114		ANGLE VALVE (OPEN)			
			P115		ANGLE VALVE (CLOSED)			
			P116		SAFETY OR RELIEF VALVE (INLET PORT SHOWN CLOSED)			
			P117		THREE-WAY VALVE (CLOSED PORT DARKENED)			