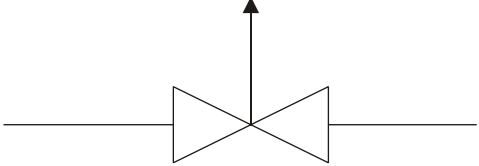
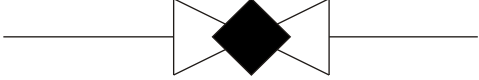
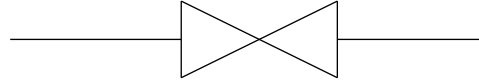
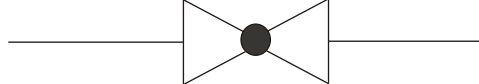
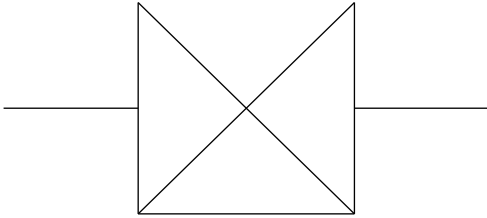
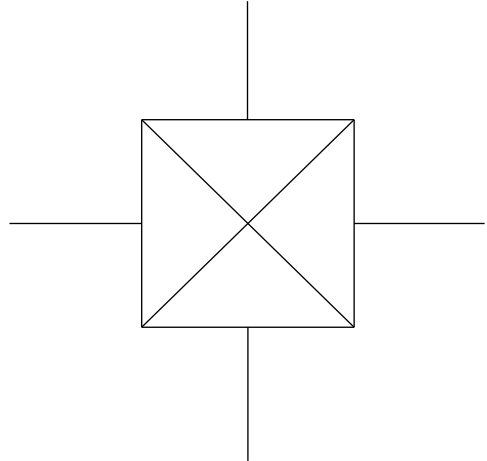
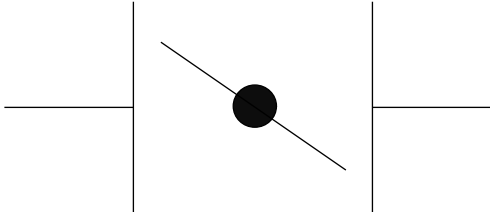
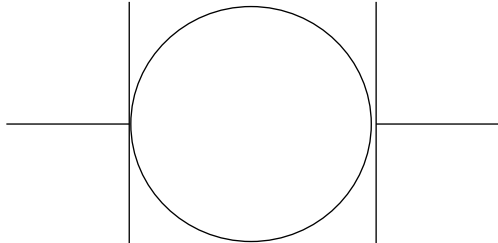


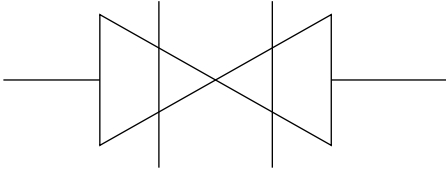
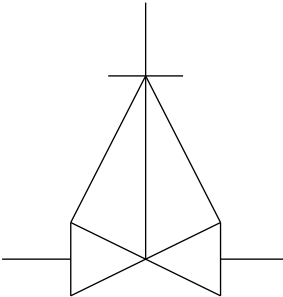
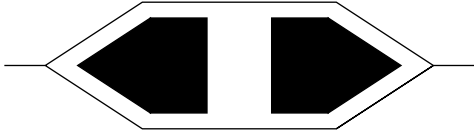
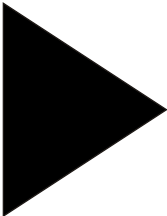
Appendix - B

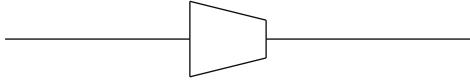
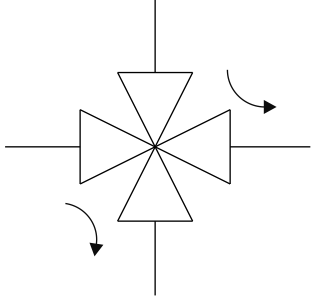
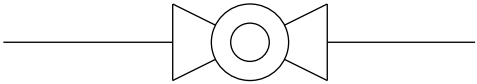
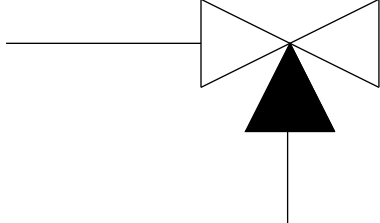
Instrument Representation

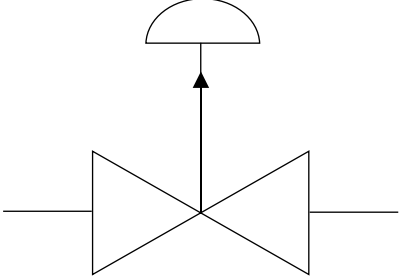
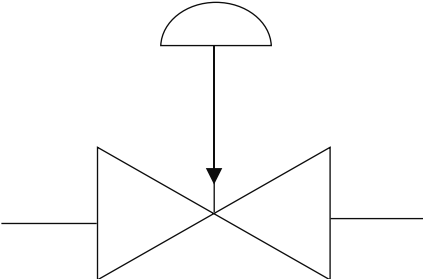
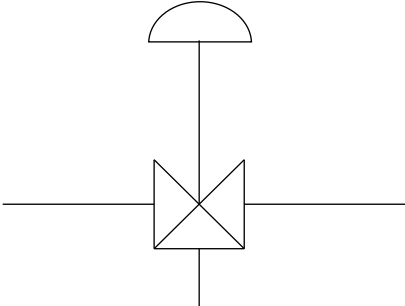
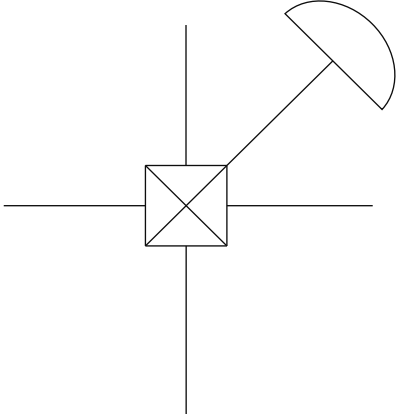
<i>Symbol</i>	<i>Description</i>
	Needle Valve
	Plug Valve
	Gate Valve
	Globe Valve

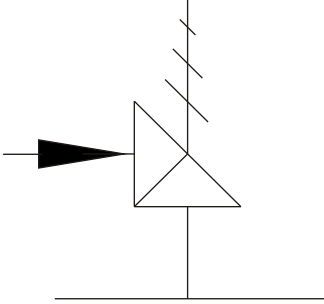
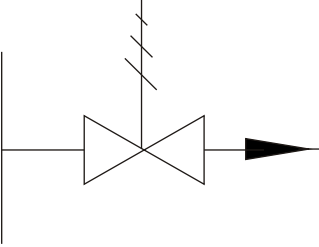
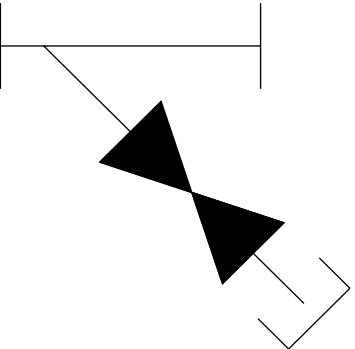
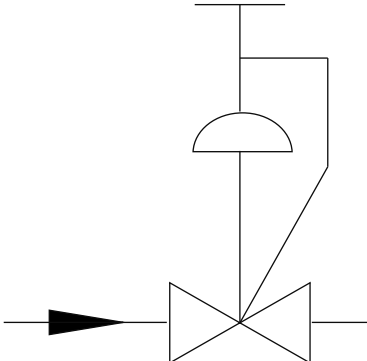
<i>Symbol</i>	<i>Description</i>
	<p>Safety or Relief Valve (Inlet Port Shown Closed)</p>
	<p>Angle Valve</p>
	<p>Spring Check Valve</p>
	<p>Check Valve</p>

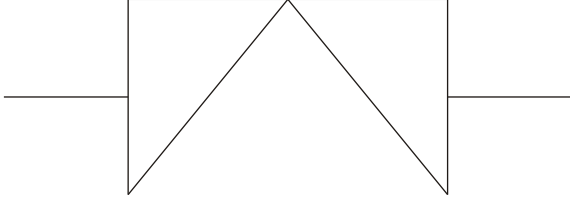
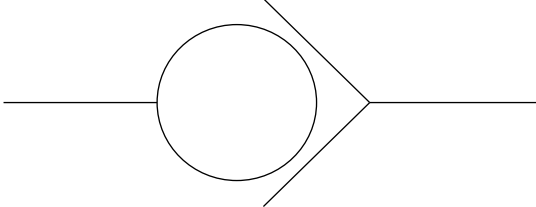
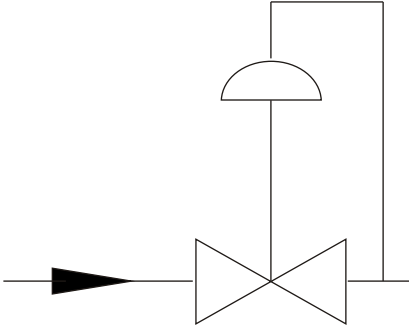
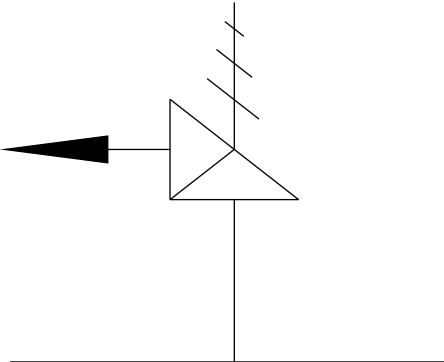
<i>Symbol</i>	<i>Description</i>
	3-Way Valve
	4-Way Valve
	Butterfly Valve
	Rotary Valve

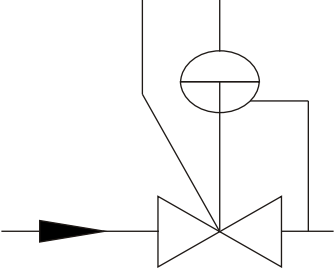
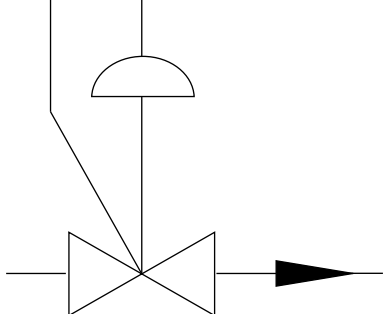
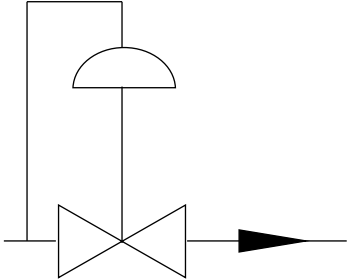
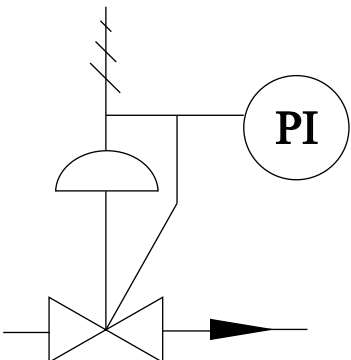
<i>Symbol</i>	<i>Description</i>
	<p>In Valve Restriction Orifice Drilled</p>
	<p>OS & Y Valve</p>
	<p>Dual Purge Valve</p>
	<p>Alarm Valve</p>

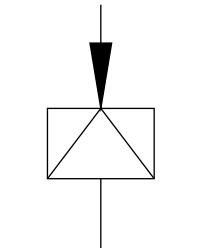
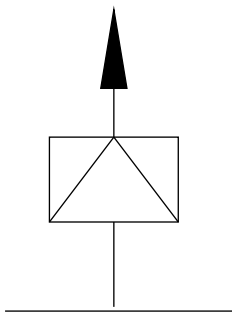
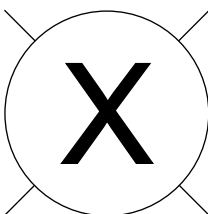

<i>Symbol</i>	<i>Description</i>
	Reducer
	Four-Way Valve (Arrows Indicate Flow Direction)
	Ball Valve
	Three-Way Valve (Closed Port Darkened)


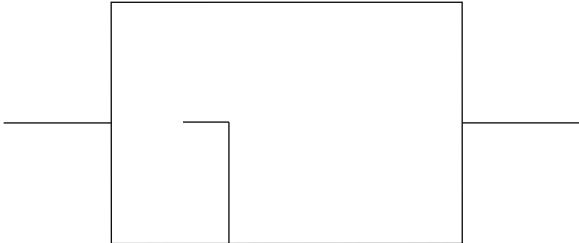
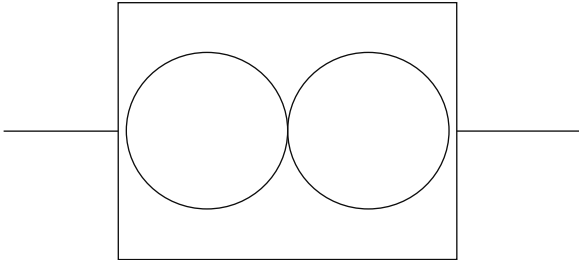
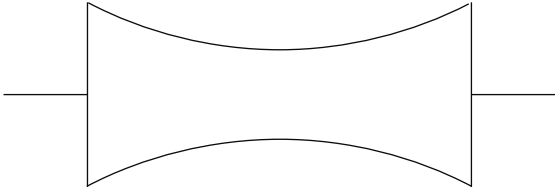
<i>Symbol</i>	<i>Description</i>
	Two-Way Valve, Fail Closed
	Two-Way Valve, Fail Open
	3-Way Valve W/Diaphragm Actuator
	4-Way Valve W/Diaphragm Actuator

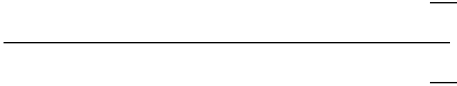

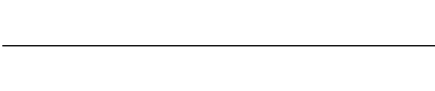

<i>Symbol</i>	<i>Description</i>
	<p>Vacuum Relief Valve</p>
	<p>Pressure Relief or Safety Valve, Straight-Through Pattern, Spring- or Weight-Loaded, or with Integral Pilot</p>
	<p>Strainer with Valve</p>
	<p>Pressure -Reducing Regulator, Self-Contained, with HandWheel Adjustable Set Point</p>

<i>Symbol</i>	<i>Description</i>
	Diaphragm Valve
	Ball-Check Valve
	Pressure Reducing Regulator with External Pressure Tap
	Pressure Relief or Safety Valve

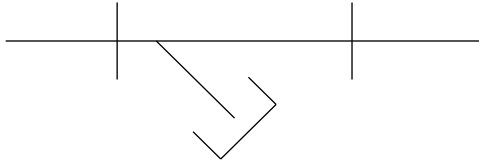
<i>Symbol</i>	<i>Description</i>
	<p>Differential-Pressure-Reducing Regulator with Internal and External Taps</p>
	<p>Back Pressure Regulator, Self-Contained</p>
	<p>Back Pressure Regulator with External Pressure Tap</p>
	<p>Pressure-Reducing Regulator with Integral Outlet Pressure Relief Valve, And Optional Pressure Indicator</p>

<i>Symbol</i>	<i>Description</i>
	<p>Rupture Disk or Safety Head for Vacuum Relief</p>
	<p>Rupture Disk or Safety Head for Pressure Relief</p>
	<p>Pilot Light X=Color R=Red G=Green</p>
	<p>Flex Connection (Rubber)</p>

<i>Symbol</i>	<i>Description</i>
	Flex Connection (Steel Braided)
	Single Pitot Tube or Pitot Venturi Tube
	Flow Meter
	Flow Nozzle or Venturi

<i>Symbol</i>	<i>Description</i>
	Screwed Cap
	Pipe Cap
	Hose Connection
	Flanged Connection (Piping or Equip)

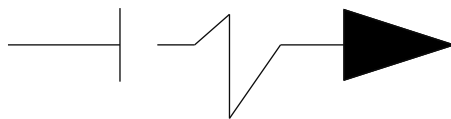
<i>Symbol</i>	<i>Description</i>
---------------	--------------------



Y-Strainer




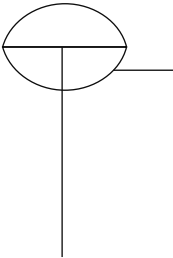
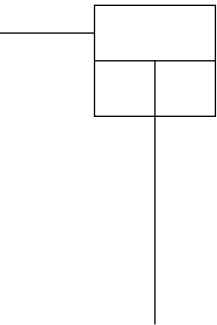
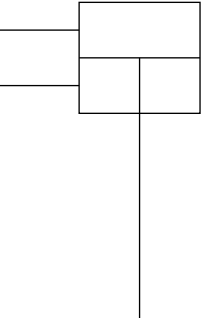
Compressed Air

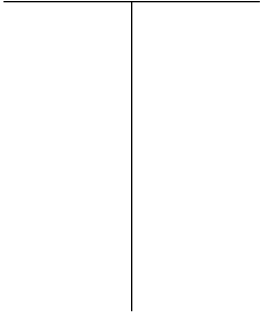
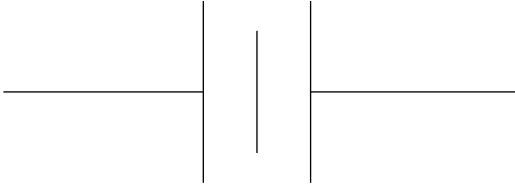
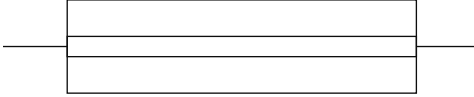
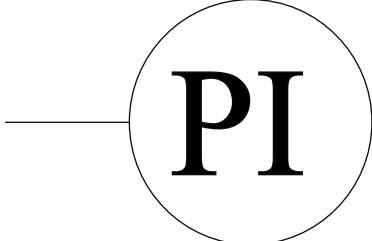


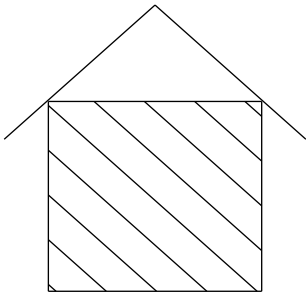
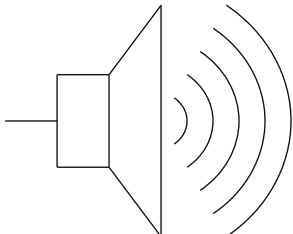
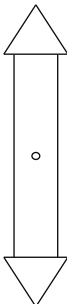
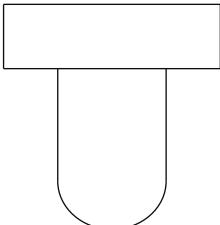
Ducted Air Flow
from Space



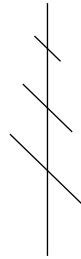
Capped Air Duct

<i>Symbol</i>	<i>Description</i>
	Diaphragm Actuator
	Diaphragm Pressure-Balanced
	Spring-Opposed Single-Acting
	Spring-Opposed Double-Acting

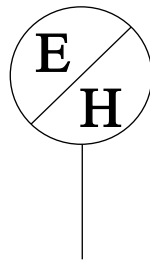
<i>Symbol</i>	<i>Description</i>
	<p>Hand Actuator or Hand Wheel</p>
	<p>Restriction Orifice in Process Line</p>
	<p>Flow Straightening Vane</p>
	<p>Pressure Indicator</p>

<i>Symbol</i>	<i>Description</i>
	Air Intake Filter
	Alarm
	Bubble Gauge
	In-Line Filter

<i>Symbol</i>	<i>Description</i>
---------------	--------------------



Pressure Relief



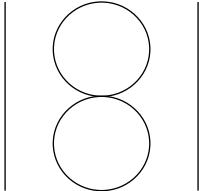
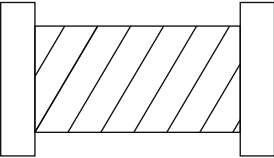
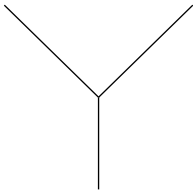

Electrohydraulic Actuator

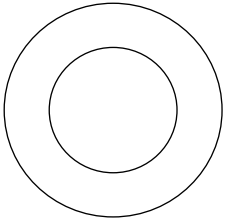
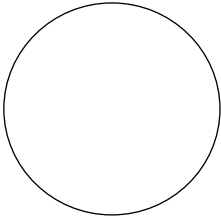

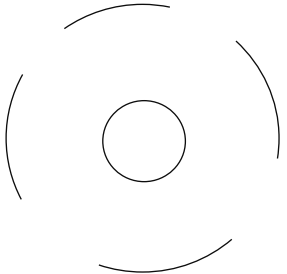



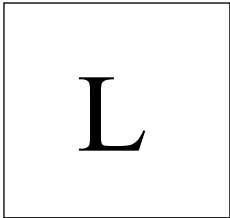
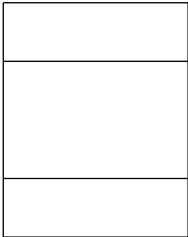
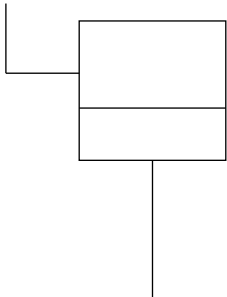
Flow Orifice Fixed

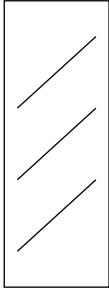
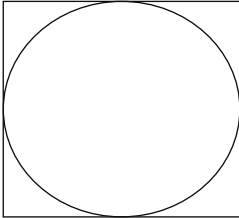
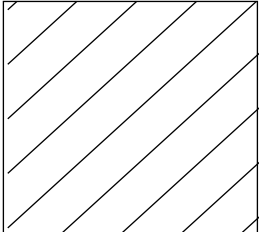
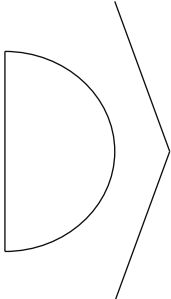


Flow Direction

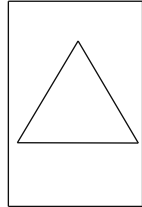
<i>Symbol</i>	<i>Description</i>
	Double Basket Strainer
	Hose Reel
	Open Drain
	XX- Drain System Annotations

<i>Symbol</i>	<i>Description</i>
	Cleanout (Plan View)
	Sanitary Vent
	Silencer/Muffler
	Space Penetrations

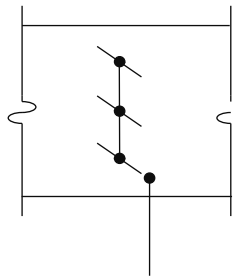
<i>Symbol</i>	<i>Description</i>
	<p>Trap XX Annotates Function</p>
	<p>Lubricator</p>
	<p>55 Gallon Drum</p>
	<p>Thermostatic Vent</p>

<i>Symbol</i>	<i>Description</i>
	Fixed Louvers
	Drain (Plan View)
	Box Filter
	Sprinkler Alarm (Water Motor Gong)

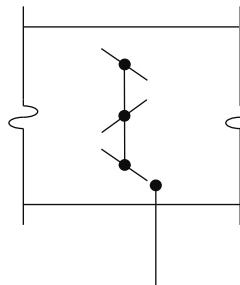
<i>Symbol</i>	<i>Description</i>
---------------	--------------------



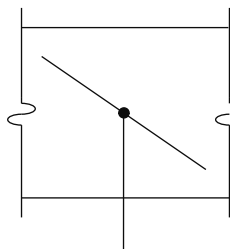
Flow Alarm Valve



Multi Blade Damper

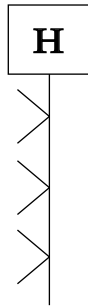


Opposing Blade Damper

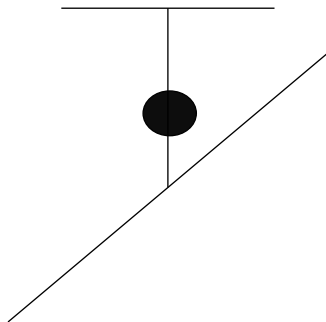


Single Blade Damper

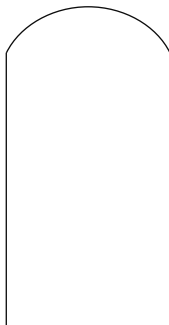
<i>Symbol</i>	<i>Description</i>
---------------	--------------------










Humidifier










Manual Balance
Damper



Gas Bottle
Pressurized

<i>Symbol</i>	<i>Description</i>
	Orifice
	Magnetic
	Turbine or Propeller
	Ultra Sonic
	Vortex
	Pitot Tube
	Averaging Pitot Tube

<i>Symbol</i>	<i>Description</i>
	Flow Nozzle
	Venturi
	Wedge Meter
	Flume
	Weir
	Positive Displacement
	Rotameter