

Plumbing Symbols for  
Architectural Design  
INDS 415  
Building Services- Plumbing

Dr. Hassan Hassoon ALDelfi  
Interior Design Department  
ISHIK University 2015-2016

## Objectives:

- identify and describe common types of fittings in a residential plumbing installation.
- understand that certain fitting materials and designs can only be used for specific systems.
- understand that some fitting materials can be used in all residential systems.
- relate fitting design selection to plumbing codes.
- order fittings based on installation requirements, size, and materials.

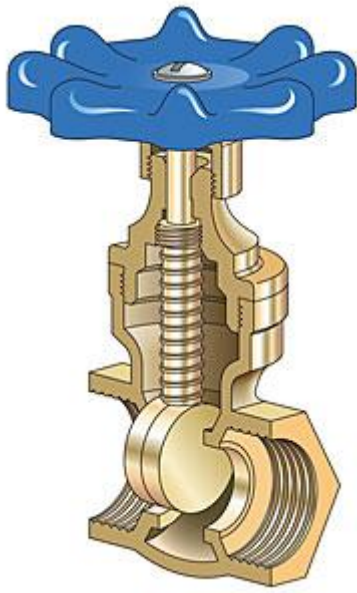
# Symbols Used in Plumbing Engineering






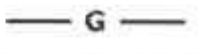





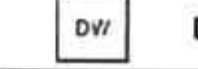
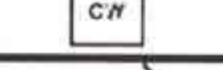


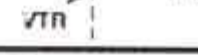






The plumbing symbols are used by architects and plumbers. They give construction companies a common idea how the plumbing layout works. Architects have the responsibility of drawing up all plans including plumbing blueprint symbols.

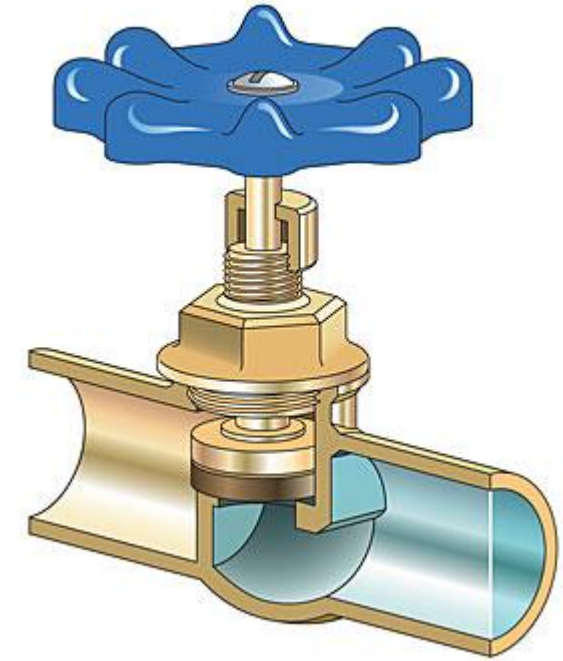
Many architects stay in close contacts with plumbers so they can learn of new changes in codes and regulations. Blueprints are sometimes considered a loose standard as to how the house is put together.

Most contractors will tell you the same thing. Most blueprint plans need to be altered to make things fit together.











	Water Meter		Cold Water
	Hot Water		Vent Line
	Sanitary Waste		Gas Pipe
	Gate Valve		Water Heater Shut Off
	Water Closet		Lavatory
	Water Heater		Dishwasher
	Clothes Washer		Floor Drain
	Clean Out		Vent Thru Roof
	90 degree Elbow		Pipe Turns Up
	Pipe turns Down		Tee
	Union		Cap





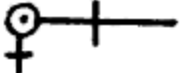

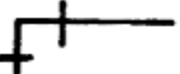

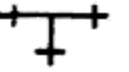



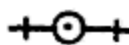


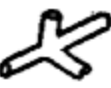
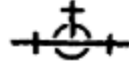



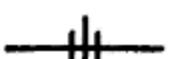






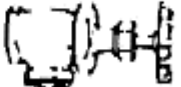

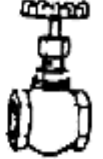




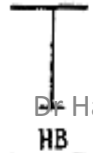
Plumbing symbols on blueprints help plumbing contractors know how and where to do pipe layouts and venting systems. They show where to put things like shut-off valves in fresh water supplies and things like clean out plugs in septic lines

WC: is the toilet

lavatory : is the sink in the bathroom

<u>Symbols/Abbreviations</u>	<u>Meaning</u>	<u>Illustration</u>
	<b>COLD WATER LINES</b>	
	<b>HOT WATER LINES</b>	
	<b>TEMPERED WATER LINES</b>	

<u>Symbols/Abbreviations</u>	<u>Meaning</u>	<u>Illustration</u>
	ELBOW TURNED DOWN	
	ELBOW TURNED UP	
	ELBOW SIDE OUTLET UP	
	ELBOW	
	TEE	
	TEE, OUTLET DOWN	
	TEE, OUTLET UP	
	TEE, SIDE OUTLET UP	
	TEE, SIDE OUTLET DOWN	
	FLANGED	
	SCREWED	

<u>Symbols/Abbreviations</u>	<u>Meaning</u>	<u>Illustration</u>
	<b>GATE VALVE</b>	
	<b>GATE VALVE ANGLED</b>	
	<b>GLOBE VALVE</b>	
	<b>GLOBE VALVE ANGLED</b>	
 PB	<b>FAUCET, PLAIN BIBB</b>	
 HB	<b>FAUCET, HOSE BIBB</b>	