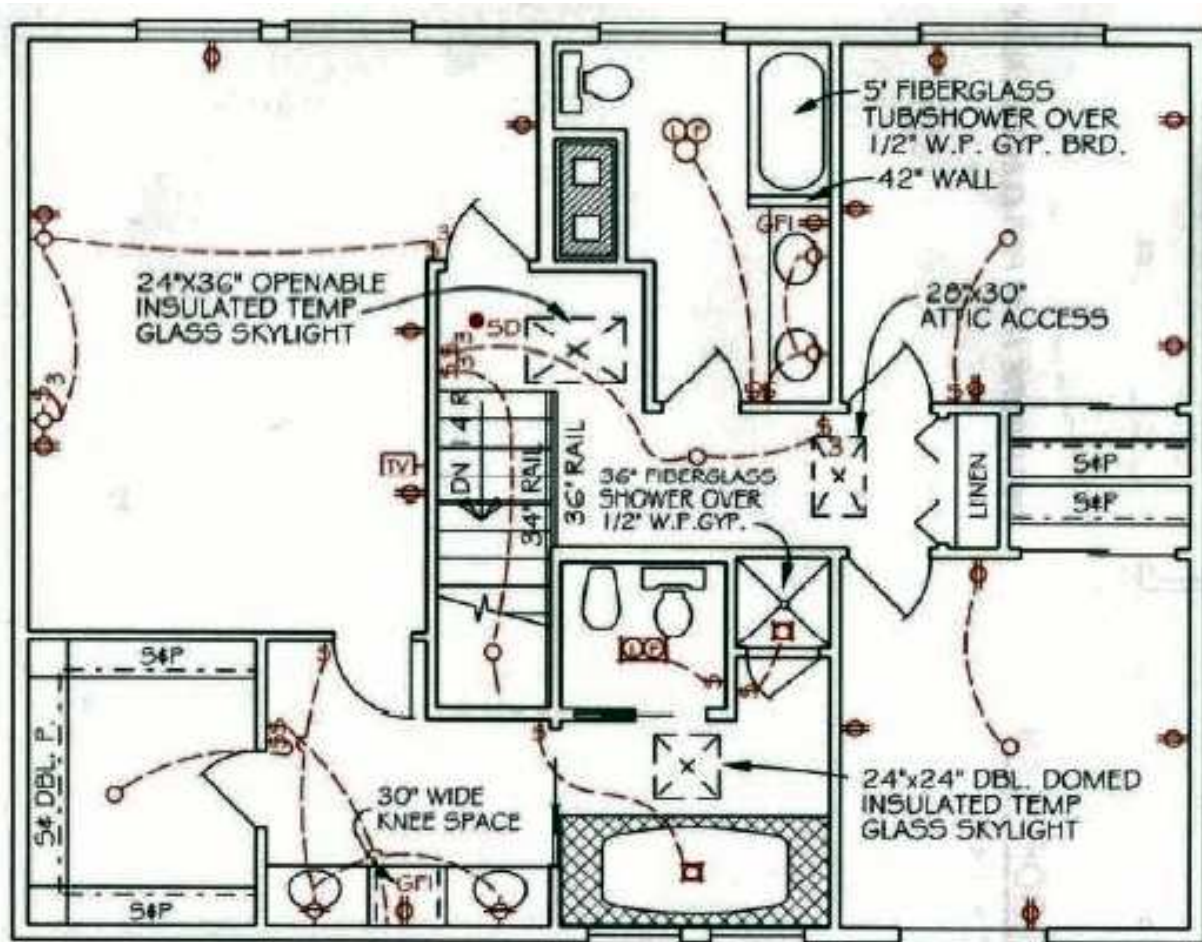


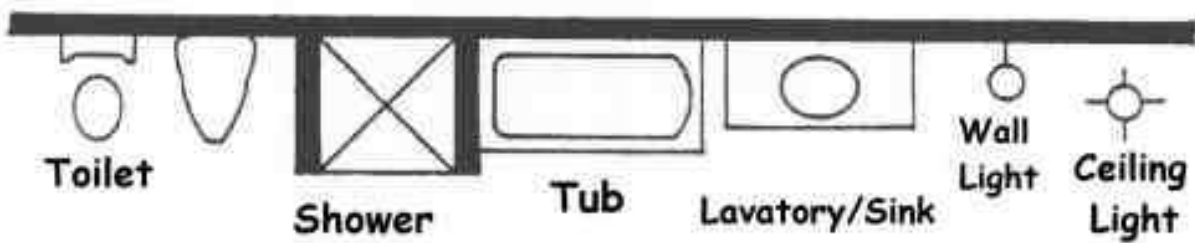
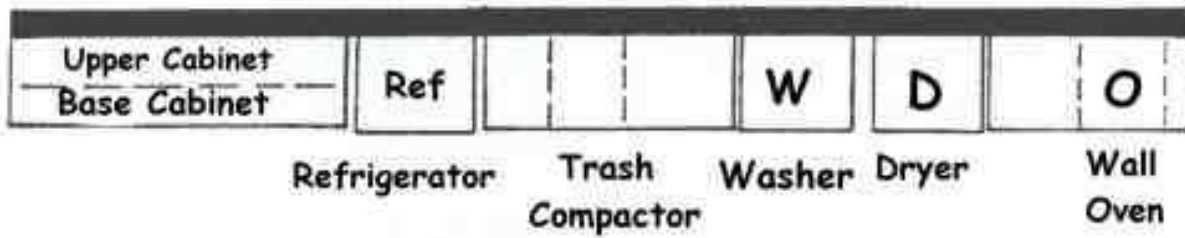
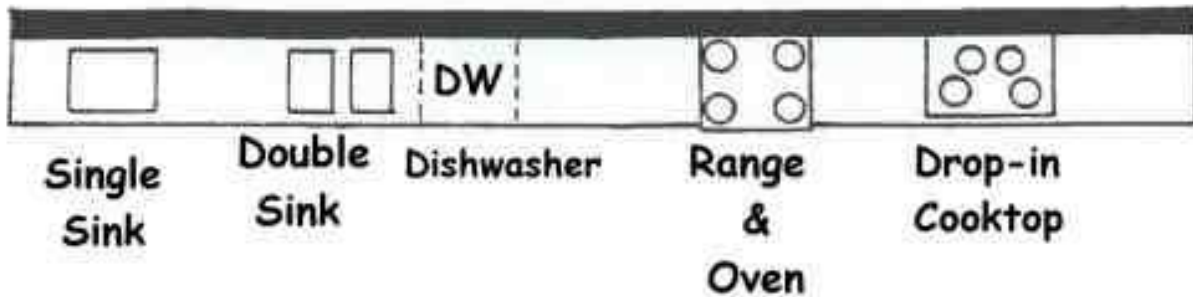
Blueprint symbols

Here is a list of all the blueprint symbols that are needed to make architectural, electrical and plumbing blueprints. Because of the scale, many of these symbols are hard to see on real blueprints. The electrical floor plan map below shows some of the symbols used by electricians.



Let's start out with the Architectural symbols because they are usually bigger and they will be drawn into floor plans first. These are things like doors, windows, stairs, walls, cabinets and sinks.

Architectural Blueprint Symbols





Fireplace

Stairs



Fixed Window

Horizontal sliding Window

Casement Windows

Bay Window



Interior Door

Exterior Door

Pocket Door

Bifold Doors







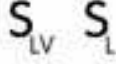







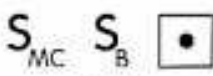















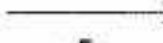
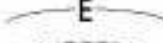

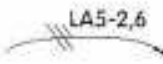
Sliding Door




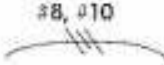



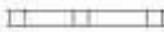
French Doors

Cased Doorway

Here are the electrical symbols including communications symbols like phones, doorbells, and security systems.

We'll start out with electrical switches.

	S_F Fused switch, wall mounted Fused safety switch xxAF= frame size xxAT= trip size		Single pole switch, wall mounted
	S_K Key controlled switch, wall mounted		Switch with locator lamp glow, wall mounted
	S_{LV} S_L Low voltage switch, wall mounted		Thermal rated motor switch
	S_{LM} Low voltage master switch, wall mounted		Thermostat
	S_M Manual motor switch, wall mounted		Three-way switch, wall mounted
	S_{MTO} Manual motor switch, with thermal overloads wall mounted		Timer or motor switch with thermal overload wall mounted
	S_{MC} S_B Momentary contact Intermittent switch, wall mounted		Time clock switch
	S_{MD} Motion detector sensor		Variable speed or volume control switch, wall mounted
	S_P Photoelectric switch		Wall bracket pull switch
	PE Pilot/remote light switch load off, wall mounted		Weather proof circuit breaker, wall mounted
	PES Pilot/remote light switch load on, wall mounted		Weather proof switch, wall mounted
	S_{RC} Remote control switch receiver, wall mounted		Cable tray
	S_{CP} Ceiling pull switch ceiling mounted		Conduit turning up
	S_{CP} Chain pull switch		Conduit turning down
			Conduit with capped end
			Emergency circuit
			Exposed circuit
			Homerun to panel letters indicate panel numbers indicate circuits

S_{CB}	Circuit breaker switch, wall mounted		Plug in or feeder bus
S_{CC}	Contractor control switch, wall mounted		Pull box
S_z	Dedicated/specialized switch, letter indicates equipment wall mounted		
S_{DM}	Dimmer switch, wall mounted		
	Disconnect safety switch		
S_D	Door, closet, or jamb switch		
S_2	Double pole switch, wall mounted		Wire in conduit (solid line indicates conduit in wall or ceiling) #8 phase and neutral size # 10
	Electric eye, relay		
	Electric eye, source		
	Enclosed circuit breaker xxAF= frame size xxAT= trip size		
S_{EC}	Evaporative cooler switch 3-switches, fan, pump, speed controller, wall mounted		
S_X	Explosion proof switch wall mounted		
S_{EP}	Explosion proof switch wall mounted		
S_{FDM}	Flourescent light dimmer switch, wall mounted		
S_4	Four-way switch, wall mounted		Wireway

There are many different types of electrical switches. It can be a bit confusing if you just look at blueprints without studying what each symbol represents. Most of the symbols on these pages will be rarely used. The switches that are commonly used are the single pole, the three-way, double pole, circuit breaker, four-way, and dimmers, just to name a few.

Floor plans will have a lot of common switches so look at the symbols list and find the most common switches. These are the ones to pay attention to.

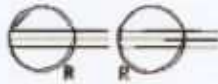
Next up, we'll go over many of the electrical outlet symbols.



220-volt outlet, wall mounted



220-volt outlet, clothes dryer wall mounted



220-volt outlet, range, wall mounted



Blanked (unused) duplex outlet, wall mounted



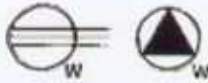
Blanked (unused) outlet, ceiling mounted



Blanked (unused) outlet, wall mounted



Blanked (unused) quad outlet, wall mounted



Clothes washer outlet, wall mounted



Combination switch and double outlet, receptacle, wall mounted



Combination switch and single outlet receptacle, wall mounted



Dishwasher outlet wall mounted



Drop cord ceiling mounted



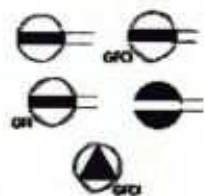
Duplex receptacle outlet, ceiling mounted



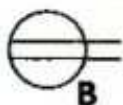
Duplex receptacle outlet, floor mounted



Duplex receptacle outlet, wall mounted



**Duplex receptacle outlet
with GFI or GFCI device,
wall mounted**



**Duplex receptacle outlet,
isolated ground, wall mounted**



**Duplex receptacle outlet,
split wired, wall mounted**



Duplex special purpose outlet



**Emergency outlet,
wall mounted**



**Garbage disposal outlet,
wall mounted**



**General outlet,
ceiling mounted**



**General outlet,
wall mounted**



**Junction box,
ceiling mounted**


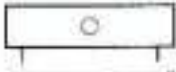



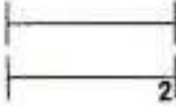
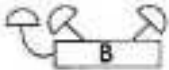










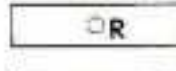


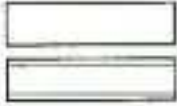



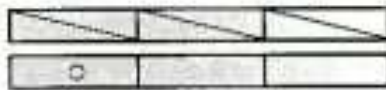
**Junction box,
wall mounted**



**Lamp holder,
ceiling mounted**

Next we will cover electrical symbols for fixtures.

	Emergency exit light combo, battery powered, wall mount		Flourescent lighting fixture, wall mounted
	Emergency exit light combo, battery powered, ceiling mount		Flourescent lighting fixture, channel mount, ceiling mounted
	Emergency exit light remote, battery powered, ceiling mount		Flourescent lighting fixture, number of tubes, ceiling mount
	Emergency exit light remote, battery powered, with 3 sealed beams, wall mount		Flourescent lighting fixture, number of tubes, wall mount
	Emergency lighting on critical power circuit		Flourescent lighting fixture, mod wired in series wall mount
	Emergency lighting on emergency life safety branch		Flourescent lighting fixture, pendant style, ceiling mount
	Exit light, wall mounted arrow indicates exit		Same as above, wall mount
	Exit light, recessed wall mounted		Flourescent lighting fixture recessed style ceiling mount
	Exit light, shaded area indicates number of faces shown, arrow indicates exit no arrow when directly over an exit door		Flourescent lighting fixture surface mount with outlet box, ceiling mount
	Exit light, shaded area indicates number of faces shown, arrow indicates exit no arrow when directly over an exit door		Flourescent lighting fixture on critical branch circuit
	Flourescent fixture, ceiling mounted		Flourescent lighting fixture on emergency circuit



Flourescent fixtures continuous row



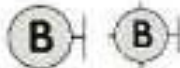
Illuminated house number,
wall mount



Incandescent lighting fixture,
ceiling mounted



Incandescent lighting fixture,
blank, unused ceiling mounted



Incandescent lighting fixture,
blank, unused wall mounted



Incandescent lighting fixture,
chandelier, ceiling mounted



Incandescent lighting fixture,
controlled by low voltage switch
relay in box, wall mounted



Incandescent lighting fixture,
letter in triangle is reference
to key, ceiling mounted



Incandescent lighting fixture,
mirror lights, ceiling mounted



Incandescent lighting fixture,
mirror/vanity lights, wall mounted



Incandescent lighting fixture,
multiple flood lights,
wall mounted



Incandescent lighting fixture,
recessed, ceiling mounted



Incandescent lighting fixture,
recessed directional light
fixture, ceiling mounted



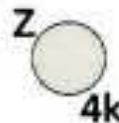
Incandescent lighting fixture,
rough-in only, ceiling mounted



Incandescent lighting fixture,
spot light, ceiling mounted



Incandescent lighting fixture,
heat lamp, ceiling mounted



Incandescent lighting standard
uppercase = key, number =
circuit number, switch control



Incandescent lighting fixture
surface directional light
wall mounted



Incandescent lighting
fixture, track lighting



Incandescent lighting fixture
underwater recessed,
bottom fixture



Incandescent lighting fixture
underwater recessed,
wall mounted



Incandescent lighting fixture
underwater up beam
bottom mounted



Incandescent lighting fixture
fan ceiling mounted




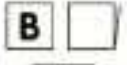




























Wall fan


















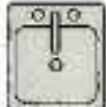


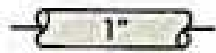
Incandescent lighting with
pull switch, wall mounted

Finally, for the electrical symbols, we have the communications symbols.

	bell		Public telephone, wall mount
	bell & buzzer combo		Push button switch
	buzzer		Signal central station device
	card reader, wall mounted		Signal system device
	chime		Sound system devices, wall mount
	clock		Sound system devices, general symbol
	clock, electrical clock system, wall mounted		Sound system speaker recessed
	closed circuit TV camera		Sound system speaker wall mounted
	Data/phone outlet floor mounted		Sound system volume control, wall mounted
	Data/phone outlet wall mounted		Special auxiliary outlets letter refers to key
	Computer outlet (general)		Telephone public general symbol, letter=key
	Data outlet, floor mount		Telephone outlet
	Data outlet, wall mounted		Telephone outlet, Private, floor mounted
	Microphone, wall receptacle		Telephone outlet, Public, floor mounted
	Paging system device, wall mounted		Telephone terminal cabinet
	Poke through, floor mount		Telephone terminal cabinet, wall mounted
	Poke through, with telephone outlets, floor mounted		TV (CATV) outlet
	Poke through, with various devices, floor mounted		TV antenna devices wall mounted
	Poke through, abandoned, floor mounted		Volume control
	Pole, various devices		Watchman system devices wall mounted
	Private telephone devices wall mounted		Yard bell or chime

Last up we have the plumbing symbols. Just like the electrical symbols, there are a lot of plumbing symbols, but only a few of them are commonly used.

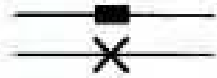
	WC	Toilet, floor outlet		LAV	Lavatory
	WC	Toilet, wall hung			Bathtub, recessed type
	WC	Toilet, tank type		DF	Drinking fountain, floor mounted
		Bidet			Drinking fountain, wall hung
	UR	Urinal, wall hung		SHWR	Shower, stall type
	S	Sink, general			Shower, handicapped
	FS	Sink, floor		HWT	Hot Water Tank
	KS	Sink, kitchen		WH	Water Heater
	MS	Sink, mop			
	SS	Sink, utility			



Equipment, insulation
(indicate thickness)



Equipment, pipe
hanger, alignment
guide



Equipment, pipe
hanger, clevis type



CSH

Equipment, pipe
hanger, constant
support type



RH

Equipment, pipe
hanger, roller type



SS

Equipment, pipe
hanger, sliding
support type



SCH

Equipment, pipe
hanger, spring
cushion type



SH

Equipment, pipe
hanger, spring type



TH

Equipment, pipe
hanger, trapeze type



PS

Equipment, pipe
stand
(floor supported)



Equipment, pump
(arrowhead shows
flow)



RC

Equipment, riser
clamp



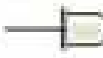
Fitting, bell & spigot



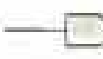
Fitting, bulkhead
flange



Fitting, bull plug, bell
and spigot



Fitting, bull plug,
flanged



Fitting, bull plug,
screwed



Fitting, bushing



Fitting, choke nipple



FCO

Fitting, clean out,
floor



CO

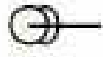
Fitting, clean out,
exposed



Fitting, elbow,
45-degree



Fitting, elbow,
45-degree dropping



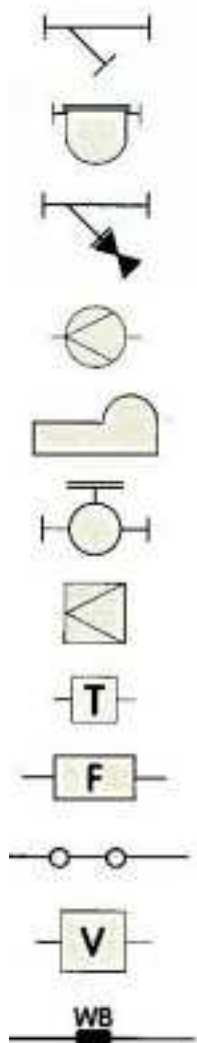
Fitting, elbow,
45-degree rising



Fitting, elbow,
90-degree



Fitting, elbow, 90-
degree turned down



Equipment, sediment strainer

Equipment, strainer, basket type

Equipment, strainer, blow off type (with valve)

Equipment, strainer, cone type

Equipment, strainer, continuous type

Equipment, strainer, T type

Equipment, strainer, temporary

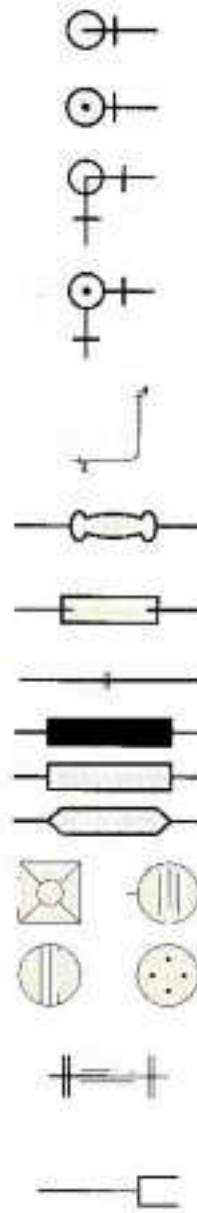
Equipment, trap, generic

Equipment, trap, float

Equipment, trap, running

Equipment, trap, vacuum

WB Equipment, wall



Fitting, elbow, 90-degree turned down

Fitting, elbow, 90-degree turned up

Fitting, elbow, outlets: side and down

Fitting, elbow, outlets: side and up

Fitting, elbow, reducing

Fitting, expansion joint, bellows

Fitting, expansion joint, sliding

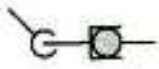
Fitting, flanged

Fitting, flexible connection

FD Fitting, floor drain

Fitting, flow straightener (flanged fitting shown)

Fitting, hose connector, quick-couple



Fitting, joint, double plane swing type



Fitting, joint, swing type or ball joint



Fitting, overflow



Fitting, Pete's plug



Fitting, pipe or cleanout plug, bell & spigot



Fitting, pipe or cleanout plug, screwed



Fitting, reducer, concentric



Fitting, reducer, concentric, rising or descending



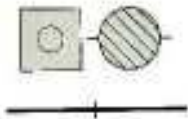
Fitting, reducer, eccentric, straight crown



Fitting, reducer, eccentric, straight invert



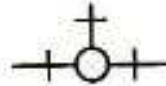
Fitting, reducing cross



RD Fitting, roof drain



Fitting, sewer, street elbow



Fitting, sewer, tee (side outlet/outlet up)



Fitting, sewer, through double T-Y



Fitting, sewer, through double Y



**WYE
Y**

Fitting, sewer, true Y



Fitting, sleeve



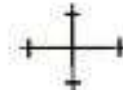
Fitting, soldered



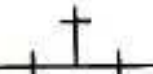
Fitting, solvent cement



Fitting, straight size cross



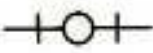
Fitting, straight size tee



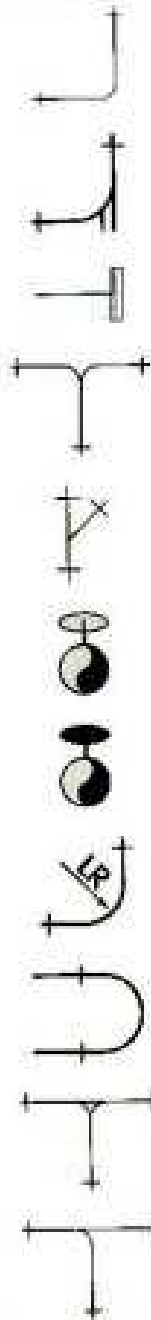
Fitting, tee down



Fitting, tee up



Fitting, tee, outlets: side and down



Fitting, screwed

Fitting, sewer, 90-degree base elbow

Fitting, sewer, blank flange

Fitting, sewer, double branch elbow

Fitting, sewer, lateral connection

Fitting, sewer, lateral connection: dropping

Fitting, sewer, lateral connection: rising

Fitting, sewer, long radius elbow

Fitting, sewer, return bend

Fitting, sewer, double sweep

Fitting, sewer, single sweep



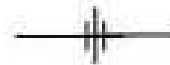
Fitting, tee, outlets: side and up



Fitting, tee, reducing



Fitting, union, flanged



Fitting, union, screwed



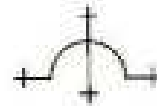
W.R. Fitting, wall hydrant (2 connections shown)



Fitting, welded



Piping, crossover (no junction)



Piping, pipe



Piping, point of connection (old to new work)



Piping, sloped pipe, drop (indicated e.g. 1:24)



Piping, sloped pipe, rise (indicated e.g. 2:12)



BFP

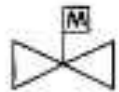
Valve, check (also called swing check or backflow preventer)



Valve, control, diaphragm actuator



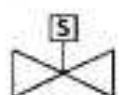
Valve, control, hand actuator



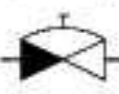
Valve, control, motor operated



Valve, control, rotary actuated



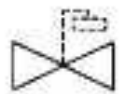
Valve, control, solenoid operated



Valve, diaphragm type



Valve, faucet



Valve, float type

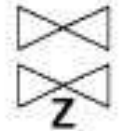


Valve, flush valve



GV

Valve, gate type, normally closed

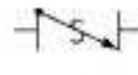


GV

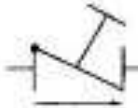
Valve, gate type, normally opened (abbrev. or letter refers to key)



Valve, globe type



Valve, spring check type



Valve, stop check type



Valve, stop cock plug or cylinder type, 2-way



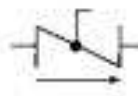
Valve, stop cock plug or cylinder type, 3-way/2-port



Valve, stop cock plug or cylinder type, 3-way/3-port



Valve, stop cock plug or cylinder type, 4-way/4-port



Valve, triple duty (flow, flow balance, backflow prevention)



Valve, V-ball type