

Pipe Fittings Chart: Your Quick Guide to Sizes and Types

Whether you're tackling a home plumbing repair or planning a new irrigation system, understanding pipe fittings makes all the difference. This chart gives you a quick rundown of the most common types, their uses, and what sizes you'll typically find them in. Knowing your elbows from your tees can save you a trip to the hardware store—or a leaky mess.

FITTING TYPE	PURPOSE	COMMON CONNECTION METHODS	TYPICAL MATERIALS	TYPICAL NPS RANGE (IN.)
90° Elbow	Changes pipe direction by 90 degrees. Essential for corners and turns.	Threaded, Solvent Weld (Slip), Solder, Compression, Flanged	PVC, CPVC, Copper, Galvanized Steel, Stainless Steel, Brass	1/2" - 12"
45° Elbow	Changes pipe direction by 45 degrees. Used for smoother, less abrupt turns.	Threaded, Solvent Weld (Slip), Solder, Flanged	PVC, CPVC, Copper, Galvanized Steel, Stainless Steel	1/2" - 12"
Tee	Divides or combines fluid flow, creating a 90-degree branch line from the main pipe.	Threaded, Solvent Weld (Slip), Solder, Flanged	PVC, CPVC, Copper, Galvanized Steel, Stainless Steel, Brass	1/2" - 12"
Reducing Tee	Similar to a Tee, but the branch or one of the run connections has a smaller diameter.	Threaded, Solvent Weld (Slip), Solder	PVC, CPVC, Copper, Galvanized Steel, Stainless Steel	1" x 3/4" x 1", 2" x 1" x 2"
Straight Coupling	Connects two pipes of the same diameter in a straight line. Extends pipe runs.	Threaded, Solvent Weld (Slip), Solder, Compression	PVC, CPVC, Copper, Galvanized Steel, Stainless Steel, Brass	1/2" - 12"
Reducing Coupling	Connects two pipes of different diameters in a straight line.	Threaded, Solvent Weld (Slip), Solder	PVC, CPVC, Copper, Galvanized Steel, Stainless Steel	1" x 3/4", 2" x 1.5"
Cap	Closes off the end of a pipe, providing a permanent seal.	Threaded, Solvent Weld (Slip), Solder, Flanged	PVC, CPVC, Copper, Galvanized Steel, Stainless Steel	1/2" - 12"
Plug	Closes off an unused female threaded opening on a fitting or pipe.	Threaded (Male)	PVC, CPVC, Galvanized Steel, Stainless Steel, Brass	1/2" - 4"
Union	Connects two pipes, allowing for easy disconnection for maintenance without cutting.	Threaded, Solvent Weld (Slip), Solder	PVC, CPVC, Galvanized Steel, Stainless Steel, Brass	1/2" - 4"
Nipple	A short length of pipe, usually threaded on both ends, used to connect two other fittings.	Threaded	Galvanized Steel, Black Steel, Stainless Steel, Brass, PVC	1/8" - 6" (various lengths)
Reducing Bushing	Connects a larger female threaded fitting to a smaller male threaded pipe or fitting.	Threaded (Male/Female)	Galvanized Steel, Brass, PVC	1" to 1/2", 3/4" to 1/2"
Flange	Connects pipes, valves, pumps, and other equipment, often for larger diameters or where disassembly is needed.	Bolted (welded or threaded to pipe end)	Carbon Steel, Stainless Steel, PVC	1/2" - 24"+

12 rows