

PPR Pipe Fittings Names

Complete Types, Functions, Sizes, Applications and Selection Guide

This guide helps buyers, contractors, plumbers, distributors and project engineers identify common PPR pipe fittings and understand what each fitting is designed to do.

1. PPR Pipe Fittings Names List

PPR Fitting Name	Main Function
PPR Elbow	Changes the direction of a PPR pipeline
PPR Tee	Creates a branch connection
PPR Coupling	Connects two PPR pipes in a straight line
PPR Reducer	Connects pipes with different diameters
PPR Union	Provides a more serviceable/disconnectable connection
PPR End Cap	Closes the end of a pipe
PPR Male Adapter	Connects PPR pipe to a compatible female-threaded component
PPR Female Adapter	Connects PPR pipe to a compatible male-threaded component
PPR Flange Adapter	Creates a detachable flange connection
PPR Ball Valve	Controls water flow
PPR Check Valve	Helps prevent reverse flow
PPR Repair Coupling	Connects or repairs sections of piping

2. Common PPR Fitting Types

PPR Elbow

Common versions include 90-degree elbow, 45-degree elbow, reducing elbow, male-thread elbow and female-thread elbow. Elbows are used to change pipe direction.

PPR Tee

Equal tees and reducing tees are commonly used to create branches from a main pipeline. Threaded tee versions can connect to compatible equipment or fittings.

PPR Coupling

A straight coupling connects two pipes of the same nominal size. Reducing couplings connect different pipe sizes.

PPR Reducer

Reducers provide a transition between different pipe diameters and are useful when a main line changes to a smaller or larger branch.

PPR Union

A union is useful where future disconnection or maintenance is expected, such as around pumps, filters and valves.

PPR End Cap

End caps terminate or temporarily close a pipeline.

PPR Male and Female Adapters

Threaded adapters combine a PPR fusion socket with a male or female thread, often using a brass insert for the threaded interface.

PPR Flange Adapter

Flange adapters provide detachable connections for equipment and larger piping systems where maintenance access is important.

PPR Valves

Common products include ball valves, stop valves, check valves and double-union ball valves. Select valves according to pressure, temperature and application.

3. PPR Fittings by Function

Function	Typical Fittings
Change direction	45° elbows, 90° elbows
Create branches	Equal tees, reducing tees
Join pipes	Couplings, unions, repair couplings
Change pipe size	Reducers, reducing sockets, reducing tees
Connect threaded components	Male adapters, female adapters, threaded elbows/tees
Control flow	Ball valves, stop valves, check valves
Terminate pipe	End caps
Create detachable connections	Flange adapters, unions

4. PPR Fittings by Connection Type

Socket fusion: Standard PPR fittings are commonly joined to PPR pipe by heating the pipe and fitting socket and then joining them while the surfaces are heated. **Threaded connections:** Male and female adapters with threaded inserts connect PPR systems to compatible valves, faucets, pumps and other equipment. **Flanged connections:** Used where a detachable connection is useful for equipment maintenance.

5. Common PPR Fitting Sizes

Common market sizes include 20 mm, 25 mm, 32 mm, 40 mm, 50 mm, 63 mm, 75 mm, 90 mm, 110 mm and 160 mm. Availability varies by manufacturer, market and product series. Always verify actual dimensions and compatibility with the selected PPR pipe.

6. Main Applications

Application	Typical Uses
Residential plumbing	Hot and cold water, kitchens, bathrooms, water-heater connections
Commercial buildings	Hotels, offices, schools, hospitals and building water distribution
HVAC/mechanical	Suitable hot-water and chilled-water systems when specifications permit
Industrial	Selected process-water and industrial fluid applications
Water treatment	Suitable piping sections, equipment connections and maintenance points

7. How to Choose PPR Pipe Fittings

- Match the fitting size to the pipe dimensions and manufacturer's system.
- Check the required pressure and temperature rating.
- Choose the correct connection type: fusion, threaded or flanged.
- For threaded fittings, verify thread type, size and insert specifications.
- Confirm suitability for the intended application and fluid.
- Check applicable standards and certifications for the target market.
- For bulk orders, confirm packaging, MOQ, testing, samples and technical documentation.

8. Quick Buyer Checklist

Item to Confirm	Buyer Requirement
Fitting type	Elbow / Tee / Coupling / Reducer / Adapter / Valve / etc.
Size	Exact nominal size and dimensions
Material	PP-R or specified material grade
Connection	Socket fusion / threaded / flange
Pressure	Required pressure class
Temperature	Operating temperature range
Standard	Applicable project or market standard
Quantity	Pieces / sets / cartons / container quantity
Packaging	Standard or customized packaging

Note: Product names, sizes, pressure ratings, materials, standards and available configurations vary by manufacturer and market. Always confirm the manufacturer's current technical datasheet before ordering.