

Important JIS pipe and tube families

Standard	Product or service	Selection point
JIS G 3452	Carbon steel pipes for ordinary piping	General duty; confirm pressure and temperature are within the intended scope.
JIS G 3454	Carbon steel pipes for pressure service	Edition, STPG grade, manufacturing route and dimensions define the product basis.
JIS G 3455	Carbon steel pipes for high-pressure service	Higher-pressure duty; grade and system design remain separate decisions.
JIS G 3456	Carbon steel pipes for high-temperature service	STPT grade, service temperature, heat treatment and testing define the technical scope.
JIS G 3461	Carbon steel tubes for boiler and heat exchanger	Heat-transfer duty in boilers, condensers and similar equipment.
JIS G 3462 / 3463	Alloy or stainless boiler and exchanger tubes	Temperature, corrosion, grade symbol and heat treatment govern.
JIS G 3464 / 3467	Low-temperature exchanger or fired-heater tubes	Service environment and equipment type must be defined first.

Source / basis: <https://niktrd.com/jis-standards>