

API 602 Forged Steel Globe Valve: ½"–2", Class 800 and 1500

API 602 forged steel globe valves provide tight shutoff and flow regulation in small sizes on steam vent, drain, sampling and instrument lines. The forged body is reliable in high-pressure and vibrating service.

Technical specifications

Size	½"–2" (DN15–DN50)
Pressure class	Class 800 and 1500 (API 602); Class 2500 to ASME B16.34; Class 150–1500 for flanged types
End connections	NPT, SW, BW, flanged
Bonnet	Bolted, welded (API 602); pressure seal to ASME B16.34; bellows seal option
Materials	A105N, LF2, F11, F22, F316, F51

Key features

- Tight shutoff and regulation in small sizes
- Welded bonnet and bellows seal options
- Forged body for high pressure and vibration

Standards and construction

- **Design:** API 602 / ISO 15761, ASME B16.34
- **End connections:** socket weld (ASME B16.11), threaded NPT (ASME B1.20.1), butt weld (ASME B16.25), flanged (ASME B16.5)
- **Bonnet types:** bolted bonnet (OS&Y), welded bonnet; pressure seal designs to ASME B16.34
- **Port:** standard (reduced) or full port
- **Testing:** API 598; on request, packing type-tested for low emissions (ISO 15848-1 / API 624)

Material combinations

Combination	Body / bonnet	Trim	Typical service
A105 / F6a	A105	13Cr (F6a)	General hydrocarbon, water, air, steam
A105 / F6a + hardfacing	A105	13Cr + CoCr hardfaced seat	Steam, high temperature, abrasive service
LF2 / 304	A350 LF2	304	Low temperature (down to approximately –46 °C)
F11 / F6a + hardfacing	A182 F11	13Cr + CoCr hardfacing	Superheated steam, high temperature
F304 / 304	A182 F304	304	Corrosive service
F316 / 316	A182 F316	316	Corrosive and chemical service

Combination	Body / bonnet	Trim	Typical service
F51 / F51	A182 F51 (duplex)	F51	Chloride environments; seawater depending on conditions