Polyguard INDUSTRIES

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Gate Valve



Gate Valve — Design Description

Gate valves provide full-bore, unrestricted flow for slurry and fluid transfer in mineral processing plants, water treatment, and industrial piping systems. When fully open, the gate retracts completely out of the flow path, minimizing pressure drop and allowing easy passage of solids-laden media.

Engineered with resilient or metal-seated designs, gate valves deliver reliable shutoff in both low- and high-pressure applications. The polyurethane-lined option offers superior abrasion and corrosion resistance for aggressive slurry service, extending valve life in harsh operating conditions.

Suitable for isolation duty in large-diameter pipelines, gate valves are available in rising- and non-rising-stem configurations to accommodate space constraints and feature bolted bonnets for straightforward in-line maintenance.

Technical Specifications

Valve Size Range: DN15 – DN 1200

Design Codes: EN 1171 / EN 1074-2, API 600, API 602, ASME B16.34, As per Design requirement

Pressure Rating: PN 10, PN 16, PN 25, PN 40, Class 150#- 2500 #

Typical Valve Temperature ranges

RESILIENT SEATED – EPDM:	- 10 to +120 °C
PTFE SEATED:	-20 to +120 °C
METAL SEATED CARBON STEEL:	-20 to +425 °C
STAINLESS STEEL METAL SEATED:	-46 to +538 °C
GRAPHITE PACKED HIGH TEMP:	UP TO 550 °C

Material Specifications

Component	Typical Materials
Body	Cast iron, ductile iron, carbon steel, stainless steels & suitable alloys
Bonnet	Cast iron, ductile iron, carbon steel, stainless steels & suitable alloys
Gate	Ductile iron, carbon steel, stainless steel, bronze; coated with various elastomers to suit design applications.
Stem	Stainless steel, carbon steel, bronze
Seat rings	Bronze, stainless steels, or elastomers
Packing	Graphite, PTFE, or other approved packing
Handwheel	Cast iron, ductile iron, steel.