

API 6D Slab Gate Valve: Through-Conduit, Pipeline Service

A slab gate valve is a pipeline valve in which a one-piece gate with a bore (the slab) moves between two seats and, when fully open, provides a smooth passage equal to the pipe bore. Because it is piggable and has a low pressure drop, it is used on oil and gas pipelines.

Technical specifications

Design	One-piece gate with bore (slab), through-conduit
Standards	API 6D, ASME B16.34
End connections	RF / RTJ flanged, butt-weld
Features	Full bore for pigging, cavity relief, sealant injection, extended stem
Operation	Gear operator, electric or hydraulic actuator



API 6D slab gate valves · representative image

Key features

- Smooth, cavity-free flow path when fully open
- Suitable for pigging
- Low pressure drop
- Extended stem for buried lines

Catalog data

Size and class	1"–40" (DN25–DN1000), Class 150–900
Design and testing	API 6D, ASME B16.34; fire test to API 6FA / API 607
Construction	Parallel one-piece slab gate, full-bore through-conduit, floating seats
Seat	PTFE or metal (hardfaced) seats; sealant injection to the seats
Operation	Handwheel, gear operator, pneumatic, hydraulic or electric actuator
Applications	Pipelines, metering stations, lines requiring pigging