



GATE VALVES

THE
STANDARD IN
**NON-
STANDARD
VALVES**



GENERAL INFORMATION

Gate valves are vital tools in the realm of fluid control, renowned for their ability to regulate the flow of liquids in pipelines with exceptional precision. Gate valves serve a multitude of applications with their robust design and efficient operation.

Gate valves belong to the family of linear motion valves, utilizing a sliding gate or wedge-shaped disc to control the flow of fluids. When the valve is open, the gate is lifted to allow passage of fluids, while it is lowered to obstruct the flow when the valve is closed. This mechanism enables gate valves to provide a tight seal and minimal obstruction to flow when fully opened.

Gate valves are indispensable components in fluid control systems, offering precise flow regulation, excellent shut-off capability, and reliability across diverse industries and applications. Whether in oil and gas facilities, water treatment plants, power generation facilities, or chemical processing plants, gate valves continue to play a crucial role in ensuring safe and efficient fluid handling operations. Their versatility, efficiency, and robust design makes gate valves a preferred choice for engineers and system engineers seeking optimal performance and reliability in fluid control systems.

At Merwede Valves, we have over 70 years of experience in this design.

SUITABLE APPLICATIONS

- Chemical processing
- Oil & Gas services
- Water treatment service
- Power generation
- Completion fluids
- Food & Beverage industry
- Nitrogen service
- Shipbuilding industry
- Drilling mud service
- Cold start air
- Cement service
- Marine industry

UNIQUE FEATURES

- Precise flow control
- Excellent shut-off capability
- Minimal pressure drop
- Reliable performance
- Robust design
- Versatility

TECHNICAL SPECIFICATIONS

PROGRAMM

Size inch (DN)	1/2" (15) – 14" (350)
ANSI class (lbs)	150-4500
API rating (psi)	3000-10000
DIN rating (PN)	10-400

STANDARDS

API 600
API 602
API 603
ISO 10423 (API 6A)
ISO 10434 (BS 1414)
ISO 14313 (API 6D) (BS 5352)
ISO 15761 (BS 5352)

Pressure	Vacuum to 100 bar(g)
Pressure	Vacuum to 1450 psi
Temperature	-40°C to +450°C
Temperature	-40°F to +842°F
	-320°F to +1562°F

CONSTRUCTION

One piece body	Lugged
Top entry	Wrench operated
Side entry	Gear operated
Wafer type	Actuated

DISC CONSTRUCTION

Double eccentric
Triple eccentric
Laminated

SEAT CONSTRUCTION

Renewable	Metal to metal
Soft	Laminated

OPTIONS FOR SOFT SEAT AND DISC	PCTFE
PEEK	PCTFE
PTFE (Virgin / Reinforced)	Graphite (laminated)

OPTIONS FOR METAL SEAT AND DISC

Tungsten Carbide Coating
Stellite

TIGHTNESS PERFORMANCE

API 598
EN 12266 Part 1/2
Clients' specification

END CONNECTIONS

Flanged (FF / RF / RTJ)
Butt Weld
Double flanged
Clients' specification



Gate Valve 2" - 150 lbs



Gate Valve 10" - 1500 lbs

THE STANDARD IN
NON-STANDARD VALVES

THROUGH CONDUIT GATE VALVES

TECHNICAL SPECIFICATIONS

PROGRAM

Size inch (DN)	½" (15) – 12" (300)
ANSI class (lbs)	150-4500
API rating (psi)	3000-10000
DIN rating (PN)	10-400

STANDARDS

API 600	EN-1984
API 602	ASME B16.34
API 603	DIN
ISO 10423 (API 6A)	Russian GOST
ISO 10434 (BS 1414)	Norsok
ISO 14313 (API 6D) (BS 5352)	PED
ISO 15761 (BS 5352)	Manufacturers standard

RANGE

Pressure	vacuum to 765 bar(g)
Temperature	-196 deg.C to 850 deg.C

CONSTRUCTION

Bolted bonnet, O.S. & Y, backseated
Screwed-in seal welded bonnet, O.S. & Y. Back seated
Pressure seal bonnet, O.S. & Y. Back seated
Handwheel operated
Gear operated
Actuated

WEDGE MODEL

Solid parallel slide
Single expanding parallel slide
Double expanding parallel slide

SEAT CONSTRUCTION

Renewable, pressure or spring activated

OPTIONS WEDGE AND SEAT

Tungsten carbide coating
Stellite
Chrome carbide coating
Kolsterising ®

TIGHTNESS PERFORMANCE

ISO 5208
API 598
ISO 10423 (API 6A)
ISO 14313 (API 6D)
EN 12266 Part 1/2
Client specification

END CONNECTIONS

Flanged (FF, RF or RTJ)
Butt weld
Socket weld
Hubbed or mechanical ends
Compact flanged
Client specification



Fire safe testing of 4" - 1500 lbs



Through Conduit Gate Valve 2" & 4" - 1500 lbs



The standard in **NON-STANDARD VALVES**

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