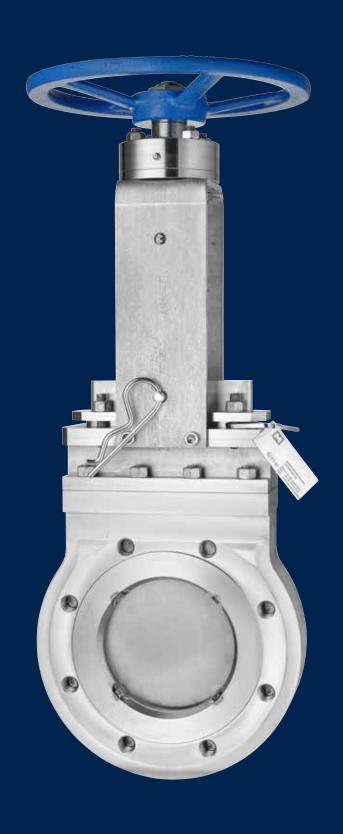


# **GATE**VALVES

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**

1/2"(15) – 14"(350)
150-4500
3000-10000
10-400

#### STANDARDS

SIANDANDS	
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	<b>PCTFE</b>

PTFE (Virgin / Reinforced) Graphite (laminated)

# OPTIONS FOR METAL SEAT AND DISC

Tungsten Carbide Coating Stelliting

# **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

# THROUGH CONDUIT GATE VALVES

# **TECHNICAL SPECIFICATIONS**

#### **PROGRAM**

I NO CIUNI I	
Size inch (DN)	½"(15) – 12"(300)
ANSI class (lbs)	15Ò-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 Stelliting 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