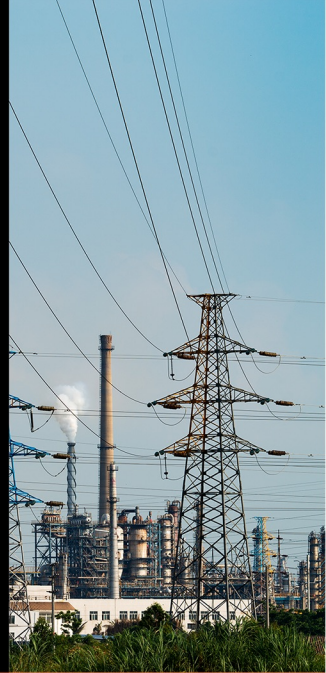




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THINKING OUTSIDE THE BOX WITHOUT LIMITATIONS



Five Divisions, One Legacy: Innovating Across Countries

Australia | UK | KSA | UAE | India

Industry Applications



Oil and Gas Refineries



Water Treatment



Power Generation



Chemical Processing



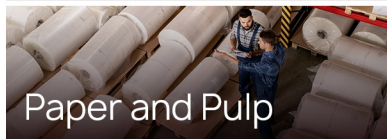
Metal Mining



Agriculture



Defence Industry



Paper and Pulp



Nuclear Industries

Since 1967,

Metaval has been a pioneer in the pipeline industry, establishing itself as a leading Australian engineering company. With a global footprint encompassing cutting-edge manufacturing facilities strategically located in Australia, India, and Dubai with offices in the UK and Abu Dhabi. We have emerged as a one-stop shop for a comprehensive range of pipeline products and services, including a wide spectrum of valves, flow meters, and level, temperature, and pressure sensors. Expertise in forging and casting techniques, Precision flow calibration and lab testing facilities. From designing and engineering to manufacturing and installation, we provide a complete suite of solutions tailored to your specific needs.

Why Choose Us?

- Comprehensive Solutions
- Unparalleled Quality
- Tailored Solutions
- Swift Turnaround
- Decades of Expertise
- Competitive Pricing
- Exceptional Customer Support
- Stringent Certifications
- Accredited Calibration Lab
- Qualified Personnel
- Global Presence

Core Divisions

1. Forgings
2. Casting
3. Flow measurement
4. Valves
5. Level
6. Temperature
7. Pressure
8. The Flow Lab



Gate Valve

OVERVIEW

Metaval's Gate Valves are essential shut-off devices used to start or stop fluid flow in pipelines. They operate by lifting a gate (solid, split, or flexible) out of the path of the fluid, offering either full flow or complete shut-off with minimal pressure loss. These valves are ideally suited for on/off services rather than throttling applications. Engineered at Metaval's state-of-the-art facilities across Australia, India, and Dubai, each gate valve reflects the company's commitment to quality, performance, and innovation. Our in-house capabilities in design, forging, casting, fabrication, and testing enable us to deliver customized, reliable solutions with speed and precision.



APPLICATIONS

- Chemical Processing
- HVAC Systems
- Oil and Gas
- Water and Wastewater Treatment
- Shipbuilding
- Pharmaceutical Production
- Food and Beverage Processing
- Mining Operations

APPLICABLE STANDARDS

- AS 2638.1
- AS 2638.2
- API 600
- API 602
- ISO 10434
- BS 1414
- EN 1984
- IS 14846

CONSTRUCTION TYPES

BONNET OPTIONS	- Bolted Bonnet - Welded Bonnet - Pressure Seal Bonnet
STEM TYPES	- Rising Stem - Non-Rising Stem
WEDGE TYPES	- Solid Wedge - Parallel Disc / Split Wedge - Flexible Wedge
SEAT TYPES	- Metal Seated - Resilient Seated - (Rubber Encapsulated Wedge)

MATERIAL OPTIONS

BODY MATERIALS	- A105, A216 WCB, A350 LF2, A351 CF8, A351 CF8M, A351 CF3, A351 CF3M - Duplex, Super Duplex, Inconel, Monel, Hastelloy, Ductile Iron, Cast Iron (on request)
WEDGE MATERIALS	- A216 WCB with overlay - A351 CF8, CF8M, CF3, CF3M, A217 CA15
SPINDLE/STEM MATERIALS	- A182 F6A, SS304, SS316, SS410
GASKET MATERIALS	- Graphite - PTFE - EPDM - PEEK - Spiral Wound SS304 / SS316
GLAND PACKING	- PTFE - RPTFE - Graphite - Inconel - Grafoil
OPERATION MODES	- Handwheel - Gear Operated - Electric Actuated - Pneumatic Actuated - Hydraulic Actuated

Gate Valve

TECHNICAL SPECIFICATIONS

SIZE RANGE:	1/2 inch to 48 inch (Special sizes on request)
PRESSURE RATING:	Class 150 to 4500
TEMPERATURE RANGE:	Minus 29°C to 425°C (Material dependent)
END CONNECTIONS:	Flanged End, Butt Weld, Socket Weld, Screwed End
FACE-TO-FACE DIMENSIONS:	ASME B16.10, EN 558, ISO 5752, AS2638.1, AS2638.2
TIGHTNESS TEST:	API 598, EN 12266-1 Rate A



TESTING

All Metaval gate valves undergo rigorous testing as per API 598, EN 12266-1 or as per customers' requirements to meet both international standards and in-house quality protocols:

- Hydro, Nitrogen, Helium and Pneumatic Pressure Test Rigs
- PMI
- Ultrasonic
- Radiography
- MPI
- Dye Penetrant
- Hardness
- Tensile
- Impact
- Microstructure
- Roughness/Surface finish
- Spectrometer
- Dimensions
- 100% traceability with certified Material Test Reports (MTRs)

OPTIONAL FEATURES AND ADD-ONS

Metaval valves can be customized with additional features for specialized service conditions:

- Extension Stem
- Position Indicator
- Powder Coating
- NACE Compliance (MR0175 / MR0103)
- IBR Certification
- Oxygen Cleaning
- Bypass Arrangement
- Locking Arrangement
- Satellited Seat

CERTIFICATIONS AND COMPLIANCE



CE CERTIFIED



600-0387 (AD-2013)
CERTIFICATE

API (API 600)



PED CERTIFIED



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018

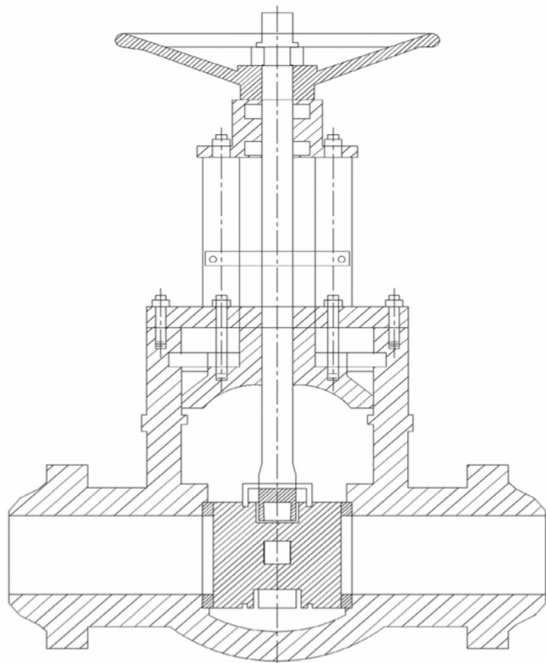


FIRE SAFE
API 607

FIRE SAFE DESIGN
AS PER API 607

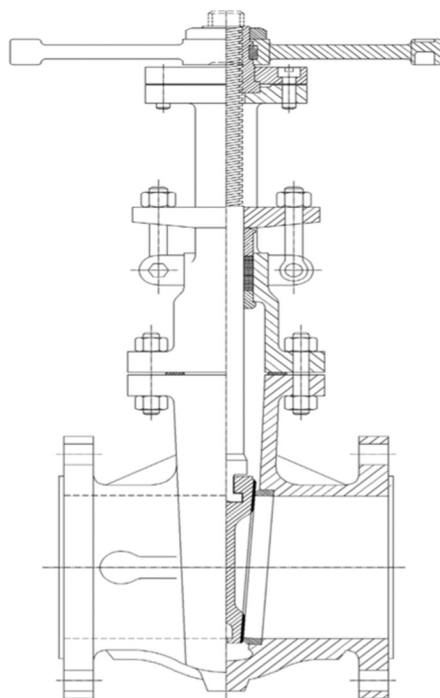
Gate Valve

SCHEMATIC DRAWINGS



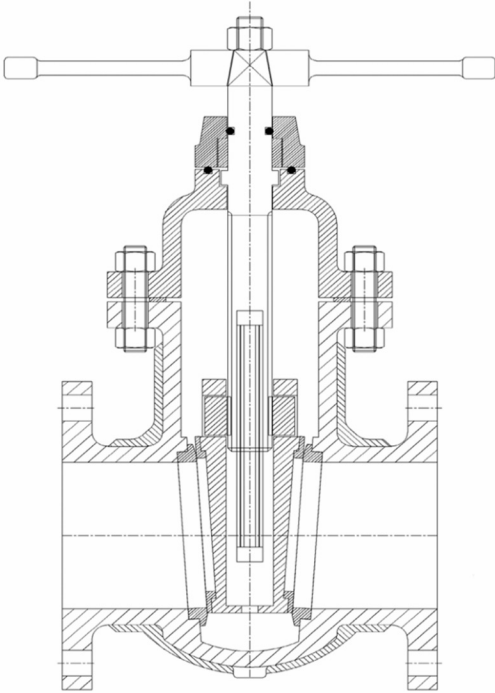
PARALLEL DISC
GATE VALVE

FLEXIBLE WEDGE
GATE VALVE



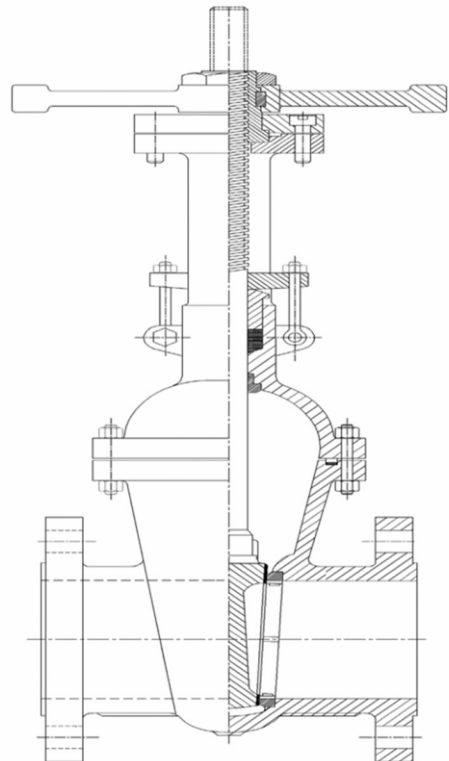
Gate Valve

SCHEMATIC DRAWINGS



NON RISING GATE VALVE

SOLID WEDGE GATE VALVE



Gate Valve

MODEL SELECTION

SAMPLE MODEL STRING:
MET-GTV-SW-FE-040-R2-C5-DM2-NP-G2-MM-S3-GP3-SN1-P1

GATE VALVE TYPE	CODE
SOLID WEDGE	SW
PARALLEL DISC OR SPLIT	PD
FLEXIBLE WEGE	FW
NON RISING	NR
RISING	RS

END CONNECTION	CODE
FLANGED END	FE
SOCKET WELD	SW
SCREWED END	SE
BUTT WELD	BW

SIZE	CODE	SIZE	SIZE
1/2"	005	20"	200
3/4"	007	22"	220
1"	010	24"	240
1-1/4"	014	26"	260
1-1/2"	015	28"	280
2"	020	30"	300
2-1/2"	025	32"	320
3"	030	34"	340
4"	040	36"	360
5"	050	38"	380
6"	060	40"	400
8"	080	42"	420
10"	100	44"	440
12"	120	46"	460
14"	140	48"	480
16"	160	50"	500
18"	180	52"	520

OTHER SIZES ON REQUEST

PRESSURE RATING	CODE
150	R1
300	R2
600	R3
800	R4
900	R5
1500	R6
2500	R7
4500	R8

BODY MATERIAL	CODE	BODY MATERIAL	CODE
A105	C1	A182-F304L	C19
A216 WCB	20	A351-CF8	C20
A105 N	C3	A351-CF3	C21
A216 WCC	C4	A182-F316	C22
A350-LF2	C5	A182-F316L	C23
A350-LCB	C6	A351-CF8M	C24
A350-LCC	C7	A351-CF3M	C25
A182-F1	80	A351-CF8C	C26
A217-WC1	C9	A350-LF2	C27
A352-LC1	C10	A350-LF3	C28
A182-F11 CL.2	C11	A352-LC3	C29
A 217-WC6	C12	A351-CK3MCUN	C30
A182-F22 CL.3	C13	A351-CD3MN/A890/A995 4A	C31
A217-WC9	C14	CD4MCU/CE3MN/	C32
A217-C5	C15	A9955A	C33
A217-C12	C16	DUCTILE IRON	C34
A217-C12A	C17	CAST IRON	C35
A182-F304	C18	ON REQUEST	

Gate Valve

MODEL SELECTION

SAMPLE MODEL STRING:
MET-GTV-SW-FE-040-R2-C5-DM2-NP-G2-MM-S3-GP3-SN1-P1

GASKET MATERIAL	CODE
SPIRAL WOUND SS304	G1
A276 SPIRAL WOUND SS316	G2
GRAPHITE	G3
PTFE	G4
ON REQUEST PLS SPECIFY	G5

DISC MATERIAL	CODE
A216 WCB + OVERLAPPED	DM1
A351 304	DM2
A276 410 / A217GR-CA-15	DM3
A351 316	DM4

SEAT MATERIAL	CODE
METAL TO METAL	MM

SPINDLE MATERIAL	CODE
A 182 F304	S1
A 276 SS410	S2
A 182 316	S3
F6A/SS316	S4

GLAND PACKING MATERIAL	CODE
PTFE	GP1
RPTFE	GP2
GRAPHITE	GP3
INCONEL	GP4
NON ASBESTOS	GP5
ASBESTOS	GP6
GRAFOIL	GP7

DISC MATERIAL	CODE
A193 GR. B7/2H & A194 GR.2H	SN1
B8M	SN2
B8	SN3

MODE OF OPERATION	CODE
HANDWHEEL	P1
LEVER	P2
GEAR OPERATED	P3
ELECTRIC ACTUATED	P4
PNEMATIC ACTUATED	P5
HYDRAULIC ACTUATED	P6
COUNTER WEIGHT	P7
COUNTER WEIGHT WIH HYDRAULIC	P8



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THINKING OUTSIDE THE BOX WITHOUT LIMITATIONS

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