



GATE VALVE

FEATURES

- » Sap Cast Steel Gate Valves have been designed to meet the requirements of API 600 / BS 1414 / API 603 / API 6D / ASME B 16.34
- » Face to Face and End to End dimensions conform to ASME B 16.10 / BS 2080 / DIN
- » End flange dimensions conform to ASME B 16.5 / API 605 / BS 3293 / DIN
- » Butt weld end dimensions conform to ASME B 16.25
- » The stem nut design allows for the removal of the hand-wheel while keeping the Stem and Gate in a fixed position.
- » Anti-frictional Ball bearings are provided in higher sizes and classes.
- » The strength of Stem to Gate connection is stronger than the strength of the Stem at the root of the operating thread
- » Outside screw and yoke construction
- » All the valves provided with backseat arrangement
- » Bi-directional shut-off
- » The gland is of self aligning two piece type
- » Deep stuffing box
- » Body ports are streamlined, permitting unobstructed flow, reduces turbulence, results in lower pressure drop & lower erosion
- » The Seat-rings are cylindrical bottom seated type having ample cross section for strength are provided with welded in and threaded Seat-rings will be supplied on request. In case of SS valves the Seat-rings are integral to Body
- » The Body to Bonnet joint is flat in ASME 150# valves, a male and female joint is used in 300# & 600# and ring joint is used in higher classes
- » Valves meet the requirements of fugitive emission

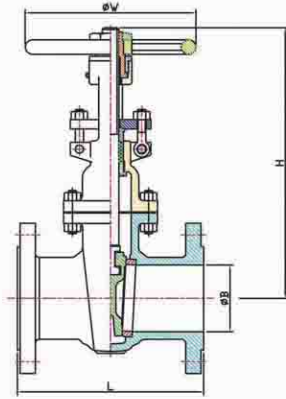


OPTIONS

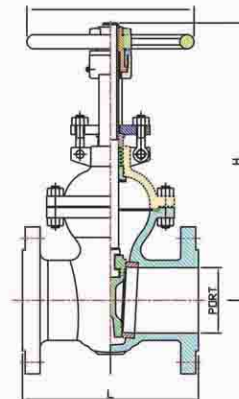
- » Solid, flexible, split wedge, double disc and parallel Slide Gate configurations available
- » For low temperature and cryogenic services (cold box and non-cold box applications) extended bonnet as per BS 6364 available
- » Locking arrangement
- » Gear, Electrical, Hydraulic or Pneumatic actuator available



GATE VALVES



GATE VALVE 150 CLASS



GATE VALVE 300 CLASS

MATERIALS

Part Name	Material Option
Body	ASTM A 216 WCB / A 217 WC6 / A 217 WC9 / A 217 C5 / A 217 C12 / A 351 CF8 / A 351 CF8M / A 351 CF3 / A 351 CF3M / A 352 LCB
Bonnet	ASTM A 216 WCB / A 217 WC6 / A 217 WC9 / A 217 C5 / A 217 C12 / A 351 CF8 / A 351 CF8M / A 351 CF3 / A 351 CF3M / A 352 LCB
Wedge@	ASTM A 216 WCB / A 217 WC6 / A 217 WC9 / A 217 C5 / A 217 C12 / A 351 CF8 / A 351 CF8M / A 351 CF3 / A 351 CF3M / A 352 LCB
Stem	ASTM A 276 410 / A 276 304 / A 276 304L / A 276 316L
Seat Rings@	ASTM A 216 WCB / A 217 WC6 / A 217 WC9 / A 217 C5 / A 217 C12 / A 351 CF8 / A 351 CF8M / A 351 CF3 / A 351 CF3M / A 352 LCB
Back Seat Bushing	ASTM A 276 410 / A 276 304 / A 276 304L / A 276 316L
Gland	ASTM A 276 410 / A 276 304 / A 276 304L / A 276 316L
Gland Flange	Carbon Steel / Stainless Steel
Stem Nut	ASTM A 439 Gr.D2 / Al. Bronze
Lock Nut	Carbon Steel / SS 304
Gland Packing	Graphite Asbestos / Graphoil / PTFE
Bonnet Gasket	Corrugated Soft Iron / Corrugated SS / Spiral Wound SS 304 with Asbestos or Graphoil / Octagonal Ring
Gland Eye - Bolt & Nut	Carbon Steel / Stainless Steel
Cross Bolts & Nuts	Carbon Steel / Stainless Steel
Hand Wheel	Carbon Steel
Hand Wheel Nut	Carbon Steel
Grease Nipple	Carbon Steel
Grub Screw	Carbon Steel
Studs / Bolts	ASTM A 193 B7 / A 193 B7M / A 193 BBM / A 320 L7
Nut	ASTM A 194 2H / A 194 8 / A 194 8M / A 194 4 / 7

Gate Valve 150 Class

Size DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050
L-RF	178	191	203	228	254	267	292	330	355	381	406	432	457	508	559	609	609	660	711	812	860
**L1-BW	216	241	282	304	381	403	419	457	501	571	609	660	711	812	863	914	914	965	1016*	1066*	1143
H (approx)	425	435	535	600	705	800	1010	1250	1385	1575	1825	1950	2080	2425	2750	2825	3175	3473	3600	4100	4500
ØW	200	200	250	250	280	300	350	450	500	350*	350*	350*	400*	400*	450*	450*	500*	500*	500*	500*	550*
Wt kg	22	29	37	56	78	84	138	210	310	450	565	740	927	1125	1425	1550	1950	2200	3050	3265	4250

Gate Valve 300 Class

Size DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750
L-RF, LI- BW	0216	241	282	305	381	403	419	457	502	762	838	914	990	1143.	1244	1346	1397
H(approx)	430	475	535	605	715	845	1075	1260	1425	1585	1845	1995	2175	2650	2850	3050	3270
ØW	200	200	250	300	300	350	450	500	500	350*	400*	450*	450*	500*	500*	500*	550*
Wt (approx) kg	28	40	53	80	125	152	245	360	532	725	950	1350	1648	2350	2900	3400	4100

