

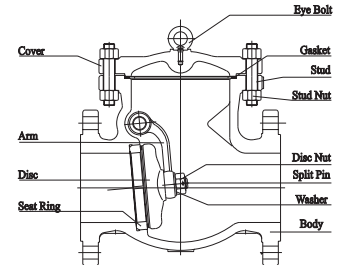
GLT CHECK VALVE

Check Valve Application

Swing check valves are designed to close quickly and automatically with positive shut off in either horizontal or vertical (flow up) pipe runs. Inherently, swing check valves have a low pressure drop and are best suitable for velocity applications. Our closure design allows our swing check valve to close completely even and remain closed with no flow when installed in a horizontal pipe run.

Manufacturing Standards

General Design	API 600 (Swing Check Valves)
	API 594 (Wafer Check Valves)
	API 602 (Forged Steel Valves)
Pressure Rating	ASME / ANSI B16.34
Face to Face	ASME / ANSI B16.10
Flange Dimensions	ASME / ANSI B16.5
Butt-weld End	ASME / ANSI B16.25
Inspection and Test	API 6D / API 598



Body and Cover Connection

Standard body-bonnet joints of gate valves are connected by studs and nuts and are machined as follows:

PRESSURE CLASS	JOINT DESIGN	GASKET TYPE
150 & 300	Male-female	Spiral wound metal with Graphite
600	Male-female/Ring type joint	Spiral wound/Ring joint metal
900 & Above	Ring type joint	Ring joint metal

Disc

Each disc's seating surface is precision ground and mated to the seat ring for insurance of a positive shut off. The disc is secured to the hinge arm with the disc nut and pinned to prevent disengagement during service.

Seat Ring

Seat rings are designed to greatly reduce and/or prevent any turbulence and avoid damages due to the corrosion. Seat rings for gate valves are typically made from forged steel.

End Connections

Our standard end connection produce valves with:

- Flange end type with Raised Face (RF), Flat Face (FF) or Ring Type Joint (RTJ) that conform to ANSI B16.5.
- Butt-welding ends (BW) that conform to ANSI B16.25.
- Threaded ends (NPT) that conform to ANSI B1.20.1
- socket weld ends that conform to ANSI B16.11
- All face-to-face/end-to-end dimensions conform to ANSI B16.10.

Other special end connections are supplied according to customer's requirements.

Standard Parts & Material

PART NAME	WCB Series	304 Series	316 Series	Cr-Mo(V) Series	LCB, LCC Series
Body & Cover Disc Arm	A216-WCB	A351-CF8 A351-CF3	A351-CF8M A351-CF3M	A217-WC5 A217-C9 A217-C5	A352-LCB A352-LCC
Seat Ring	A105 / A182-F6a	A182-F304 A182-F304L	A182-F316 A182-F316L	A182-F6a	A182-F6a
Sealing Material	Cr13 / Cr13 304 / 304 HF / 304 HF / HF 316 / 316 HF / 316 HF / Monel	304 / 304 HF / 304	316 / 316 HF / 316	HF / Cr13 HF / HF	316 / 316 HF / Monel HF / 316
Backseat	A182-F6a	A182-F304 A182-F304L	A182-F316 A182-F316L	A182-F6a	A182-F6a
Stud	A193-B7	A320-B8	A193-B8	A193-B7	A193-B7
Nut	A194-2H	A194-8	A194-8M	A194-2H	A194-2H
Gasket	Spiral Wound + Graphite / Ring Joint Metal				

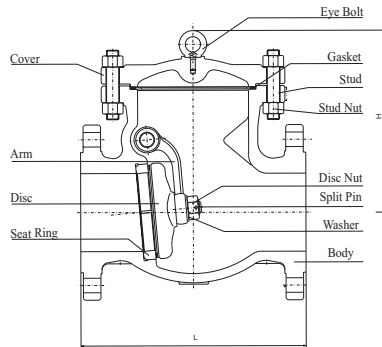
NOTE: Other valve material composition are available on special request

GLT CAST STEEL SWING CHECK VALVE

CLASS 600 SWING CHECK VALVE

Designed to API 600

Cast Steel Swing Check Valves, Bolted cover, Horizontal or vertical lines.



Standard Parts & Material - Fig. 3A1C6

PARTS	MATERIALS
Body	A216 WCB
Cover	A216 WCB
Disc	A216 WCB + Cr13
Seat Ring	A105 + Cr13 / STL
Hinge Arm	A216 WCB
Hinge Pin	A182-F6a
Disc Nut	A194-2H
Gasket	Ring Joint Metal
Cover Bolt	A193-B7
Cover Nut	A194-2H

NOTE: Other valve material composition are available

Dimensions

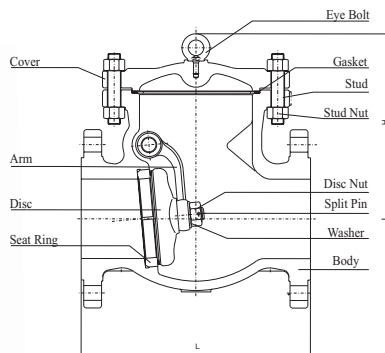
Valve Size			2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"
			50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm	350mm	400mm
Face to Face (L)	RF	mm	292	330	356	432	508	559	660	787	838	889	991
	RTJ	mm	295	333	359	435	511	562	663	790	841	892	994
	BW	mm	292	330	356	432	508	559	660	787	838	889	991
Valve Center to Top (H)		mm	180	195	220	255	280	315	355	415	450	555	600
Approximate Weight		kg	32	42	58	110	178	215	380	610	870	940	1350

Working Pressure: Carbon Steel - 1480 p.s.i. @ 100°F / 38°C

CLASS 900 SWING CHECK VALVE

Designed to API 600

Cast steel swing check valve, Bolted cover, Horizontal or vertical lines.



Standard Parts & Material - Fig. 3A1C9

PARTS	MATERIALS
Body	A216 WCB
Cover	A216 WCB
Disc	A216 WCB + Cr13
Seat Ring	A105 + Cr13 / STL
Hinge Arm	A216 WCB
Hinge Pin	A182-F6a
Disc Nut	A194-2H
Gasket	Ring Joint Metal
Cover Bolt	A193-B7
Cover Nut	A194-2H

NOTE: Other valve material composition are available

Dimensions

Valve Size			2"	3"	4"	6"	8"	10"
			50mm	80mm	100mm	150mm	200mm	250mm
Face to Face (L)	RF	mm	368	381	457	610	737	838
	RTJ	mm	371	384	460	613	740	841
	BW	mm	368	381	457	610	737	838
Valve Center to Top (H)		mm	260	290	340	440	520	620
Approximate Weight		kg	60	82	140	265	470	720

Working Pressure: Carbon Steel - 2220 p.s.i. @ 100°F / 38°C