

STANDARD MATERIAL SPECIFICATION

GATE VALVE - API 602 / ASME B16.34

No.	ASTM Designation Parts	A105N	A350		A182					A182					
			LF2	LF3	F304/L	F316/L	F321	F347	F51	F5	F9	F11	F22	F91	
1	Body	A105N	LF2	LF3	F304/L	F316/L	F321	F347	F51	F5	F9	F11	F22	F91	
2	Seat Ring	A276-410+STL		A276-316+STL			A276	A276	UNS	A276-410+STL					
		A105	LF2				-321	-347	S31803	F5	F9	F11	F22	F91	
		+STL*	+STL*			+STL	+STL	+STL	+STL*	+STL*	+STL*	+STL*	+STL*	+STL*	
3	Wedge	A217-CA15 A276-410*		A351-CF8M+STL A276-316+STL*			A276	A276	UNS	A217-CA15 A276-410+STL*					
						-321	-347	S31803							
						+STL	+STL	+STL							
4	Stem	A276-410		A276-304	A276	A276	A276	UNS	A276-410						
				A276-316*	-316	-321	-347	S31803							
5	Gasket	304 Spiral Wound Graphite			316 SWG	321 SWG	347 SWG	Duplex SWG	304 Spiral Wound Graphite						
6	Bonnet	A105N	LF2	LF3	F304/L	F316/L	F321	F347	F51	F5	F9	F11	F22	F91	
7	Bonnet Bolt	A193-B7	A320-L7		A193-B8				A193-B16						
8	Gland Packing	Graphoil													
10	Gland	316 Stainless Steel													
11	Gland Flange	A105		A182-F304 A105*					A105						
12	Gland Nut	A194-2H		A194-8 A194-2H*					A194-2H						
13	Gland Bolt	A193-B6 A193-B7*		A193-B8 A193-B7*					A193-B6 A193-B7*						
14	Yoke Sleeve	A582-416 High Tension Brass*													
15	Handwheel	A47													
16	Name Plate	Aluminium			304 Stainless Steel					Aluminium					
17	Handwheel Nut	A563-A													
20	Yoke	A105													

STL : Stellite 6 faced

SWG : Spiral Wound Graphite

A182-F304/L : Dual Certificate Material for A182-F304 & A182-F304L

A182-F316/L : Dual Certificate Material for A182-F316 & A182-F316L

DUPLEX : Duplex Stainless Steel

* ASME CLASS 1500 and Above

* Other materials also available on request

STANDARD MATERIAL SPECIFICATION

GLOBE VALVE - ASME B16.34 / BS 5352

No.	ASTM Designation Parts	A105N	A350		A182					A182					
			LF2	LF3	F304/L	F316/L	F321	F347	F51	F5	F9	F11	F22	F91	
1	Body	A105N	LF2	LF3	F304/L	F316/L	F321	F347	F51	F5	F9	F11	F22	F91	
2	Seat	Integral Hardfaced Stellite 6													
3	Disc	A217-CA15 A276-410+STL*	A351-CF8M+STL A276-316+STL*			A276 -321 +STL	A276 -347 +STL	UNS S31803 +STL	A217-CA15 A276-410+STL*						
4	Stem	A276-410	A276-304 A276-316*		A276 -316	A276 -321	A276 -347	UNS S31803	A276-410						
5	Gasket	304 Spiral Wound Graphite				316 SWG	321 SWG	347 SWG	Duplex SWG	304 Spiral Wound Graphite					
6	Bonnet	A105N	LF2	LF3	F304/L	F316/L	F321	F347	F51	F5	F9	F11	F22	F91	
7	Bonnet Bolt	A193-B7	A320-L7		A193-B8				A193-B16						
8	Gland Packing	Graphoil													
9	Packing Ring	A276-410		A276-316					A276-410						
10	Gland	316 Stainless Steel													
11	Gland Flange	A105		A182-F304 A105*					A105						
12	Gland Nut	A194-2H		A194-8 A194-2H*					A194-2H						
13	Gland Bolt	A193-B6 A193-B7*		A193-B8 A193-B7*					A193-B6 A193-B7*						
14	Yoke Bush	A582-416 High Tension Brass*													
15	Handwheel	A47													
16	Name Plate	Aluminium			304 Stainless Steel					Aluminium					
17	Handwheel Nut	A194-2H													
20	Yoke	A105													
39	Disc Pad	316 Stainless Steel													

STL : Stellite 6 faced

SWG : Spiral Wound Graphite

A182-F304/L : Dual Certificate Material for A182-F304 & A182-F304L

A182-F316/L : Dual Certificate Material for A182-F316 & A182-F316L

DUPLEX : Duplex Stainless Steel

* ASME CLASS 1500 and Above

* Other materials also available on request

STANDARD MATERIAL SPECIFICATION

PISTON CHECK VALVE - ASME B16.34 / BS 5352

No.	ASTM Designation Parts	A105N	A350		A182					A182				
			LF2	LF3	F304/L	F316/L	F321	F347	F51	F5	F9	F11	F22	F91
1	Body	A105N	LF2	LF3	F304/L	F316/L	F321	F347	F51	F5	F9	F11	F22	F91
2	Seat	Integral Hardfaced Stellite 6												
3	Disc	A276-410	A276-316+STL		A276 -321 +STL	A276 -347 +STL	UNS S31803 +STL	A276-410						
4	Spring	A276-316					Inconel X-750			A276-316				
5	Gasket	304 Spiral Wound Graphite				316 SWG	321 SWG	347 SWG	Duplex SWG	304 Spiral Wound Graphite				
6	Cover	A105N	LF2	LF3	F304/L	F316/L	F321	F347	F51	F5	F9	F11	F22	F91
7	Cover Bolt	A193-B7	A320-L7		A193-B8					A193-B16				
16	Name Plate	Aluminium			304 Stainless Steel					Aluminium				

SWING CHECK VALVE - ASME B16.34 / BS 5352

No.	ASTM Designation Parts	A105N	A350		A182					A182				
			LF2	LF3	F304/L	F316/L	F321	F347	F51	F5	F9	F11	F22	F91
1	Body	A105N	LF2	LF3	F304/L	F316/L	F321	F347	F51	F5	F9	F11	F22	F91
2	Seat Ring	A276-410+STL	A276-316+STL		A276 -321 +STL	A276 -347 +STL	UNS S31803 +STL	A276-410+STL						
3	Disc	A276-410	A276-316+STL		A276 -321 +STL	A276 -347 +STL	UNS S31803 +STL	A276-410						
4	Hinge	A351-CF8M												
5	Gasket	304 Spiral Wound Graphite				316 SWG	321 SWG	347 SWG	Duplex SWG	304 Spiral Wound Graphite				
6	Cover	A105N	LF2	LF3	F304/L	F316/L	F321	F347	F51	F5	F9	F11	F22	F91
7	Cover Bolt	A193-B7	A320-L7		A193-B8					A193-B16				
8	Retaining Washer	316 Stainless Steel												
9	Support Pin	316 Stainless Steel												
10	Support	316 Stainless Steel												
16	Name Plate	Aluminium			304 Stainless Steel					Aluminium				

STL : Stellite 6 faced

SWG : Spiral Wound Graphite

A182-F304/L : Dual Certificate Material for A182-F304 & A182-F304L

A182-F316/L : Dual Certificate Material for A182-F316 & A182-F316L

DUPLEX : Duplex Stainless Steel

* Other materials also available on request