



STAINLESS STEEL AND HIGH ALLOY STEEL VALVES

**Class 150/300/600/900/1500
and
200 WOG**

GATE
GLOBE
CHECK



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Figure Number Construction4

A-Series Flanged Gate Valves5-6

Items	Standards
Shell wall thickness and general valve design specifications	ASME B16.34
Pressure - Temperature rating	ASME B16.34
Face-toFace Dimensions	ASME B16.10
End Flange Dimensions	ASME B16.5

C-Series Flanged Gate Valves7-8

Items	Standards
Shell wall thickness and general valve design specifications	API 600/ISO 10434
Pressure - Temperature rating	ASME B16.34
Face-toFace Dimensions	ASME B16.10
End Flange Dimensions	ASME B16.5

D-Series Flanged Gate Valves9

Items	Standards
Shell wall thickness and general valve design specifications	ASME B16.34
Pressure - Temperature rating	ASME B16.34
End-to-End Dimensions*	KITZ Standard
End Connection - Threaded	ASME B1.20.1
End Connection - Socket Weld	ASME B16.11

*No industry standard for Threaded or Socket Weld

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KITZ CERTIFICATIONS

FUGITIVE EMISSIONS

KITZ A, C, D and HA Series meet Federal EPA Regulations for Low Fugitive Emission Service. Please consult KCA or your regional manager for detailed information.

9001 ISO CERTIFICATION

KITZ Corporation's manufacturing plants have been registered and certified by Bureau Veritas Quality International, which has assessed and found KITZ Quality Management System to be in accordance with the requirements of the quality standards and scope of supply detailed below.

QUALITY STANDARDS

EN-29001, ISO-9001, BS5750: Part 1, and JIS Z9901

CRYOGENIC VALVES

Available from KITZ are Cryogenic Valves to meet low temperature applications. Please contact KCA or your regional manager for detailed information.

VALVE OPTIONS

- Bevel Gear Operations
- 2" Square Operation Nut
- Nace Preparation
- RTJ
- X-Ray
- Liquid Dye Penetrant
- Positive Material identification P(.M.I.)
- Special Gasket and Packing Materials
- Drill, Tap & Plug
- O² Service Preparation
- Vacuum Service Preparation
- By-Pass

STAINLESS/HIGH ALLOY MULTI-TURN FIGURE NUMBER CONSTRUCTION CHART FOR GATE/GLOBE/CHECK

1
2
150
U
M
A
M
8
9
10
4
11

1 - OPERATOR

NoneHand Wheel on gates and globes
 GGear Operator*
 EElectric motor operator

2 - END CONNECTION

NoneRF-flanged ends with 125-250 RMS (Standard)
 KRT-flanged with 125-500 RMS
 RRTJ flanged
 AKNPT threaded per ASME B1.20.1
 AWSocket weld per ASME B16.11
 AK/AWNPT by socket weld
 WButt weld (Schedule TBA)

3 - ASME/ANSI PRESSURE CLASS

150ASME Class 150
 300ASME Class 300
 600ASME Class 600
 900ASME Class 900
 1500ASME Class 1500

4 - SHELL MATERIAL

UStainless/High Alloy

5 - VALVE TYPE

MGate
 PT-Globe
 OSwing Check
 NLift Check
 PDSoft Seated T-globe
 PWBellows Seal T-globe

6 - SERIES/GENERAL DESIGN

AA Series/ASME B16.34 Design
 CC Series/API 600 Design
 NoneD Series/ASME B16.34 Design
 HAHA Series/API 603 Design

KITZ Stainless and High Alloy Series A, C and D are optionally available with flexible graphite packing and gaskets. PTFE is standard.

KITZ HA Series is optionally available with PTFE Packing and Gaskets.

7 - BODY MATERIAL DESIGNATION/STANDARD

NoneA351 CF8/304
 MA351 CF8M/316
 VA351 CF3/304L
 OA351 CF3M/316L
 CGA351 CG8M/317
 GMA351 CG3M/317L
 CBA351 CF8C/347
 CNA351 CN7M/Alloy 20
 3MA990 CN3MCu/Alloy 20 (Special)
 CKA351 CK20/310
 CAA743 CA15/410
 Z1A351 CN3MN
 1BA995 1A (CD4MCuN) / UNS J93372
 4AA995 4A (CD3MN) / UNS J92205
 5AA995 5A (CE3MN) / UNS J93404
 6AA995 6A (CD3MWCuN) / UNS J93380
 HBA494 N-12MV/Hastelloy B
 7MA494 N-7M/Hastelloy B-2
 HCA494 CW-12MW/Hastelloy C276
 6MA494 CW-6M/Hastelloy (Special)
 CXA494 CX2MW/Hastelloy C22
 2MA990 CW-2M/Hastelloy C4 (Special)
 NNA494 35-1/Monel 400
 CZA494 CZ100/Nickel 200
 CYA494 CY40/Inconel 600
 CWA494 CW-6MC/Inconel 625
 CTA351 CT15C/Incoloy 800
 CUA494 CU5MCuC/Incoloy 825

8 - TRIM MATERIAL

NoneEqual to body material
 BHard faced body seats
 DHard faced disc/plug
 YHard faced seats and disc/plug

9 - PACKING AND GASKET*

NoneKITZ standard for Teflon-based seals
 -GRFKITZ standard for Graphite-based seals
 GAPI 603 Graphite-based seals
 TAPI 603 PTFE-based seals

10 - SPECIAL/OTHER/"QUALIFIED"

-QSpecial requirements apply; see full description.
 -BSTBare stem*

11 - VALVE SIZE

Size specified in inches.

***For bare stem with a mounting pad, include both the "G-" prefix and the "-BST" suffix.**

GATE VALVES

ASME B16.34/API 603* • RFF • OS&Y

BOLTED BONNET • FLEXIBLE ONE-PIECE WEDGE • PTFE* SEALS

CLASS 150 - 300 - 600

Body Material	CF8M (316)			CN7M (A20)			Body Material
Figure No.	150UMHAM*	300UMHAM*	600UMAM	150UMHACN	300UMHACN	600UMACN	Figure No.
1/2	659	1,194	1,546	POA	POA	POA	1/2
3/4	703	1,320	1,676	POA	POA	POA	3/4
1	868	1,582	2,060	POA	POA	POA	1
1 1/2	1,203	2,448	2,953	POA	POA	POA	1 1/2
2	1,434	2,960	5,281	POA	POA	POA	2
2 1/2	2,280	4,792	15,602	POA	POA	POA	2 1/2
3	2,280	4,792	15,602	POA	POA	POA	3
4	3,273	6,855	23,938	POA	POA	POA	4
6	5,840	12,354	40,136	POA	POA	POA	6
8	11,098	18,669	73,881	POA	POA	POA	8
10	18,444	34,671	112,266	POA	POA	POA	10
12	27,735	49,220	141,989	POA	POA	POA	12
14	41,768	93,651	-	POA	POA	-	14
16	55,232	115,035	-	POA	POA	-	16
18	65,897	133,974	-	POA	POA	-	16
20	87,371	185,176	-	POA	POA	-	20
24	144,387	275,684	-	POA	POA	-	24

* "H" designation indicates full compliance with API 603, with Graphite Seals.

GLOBE VALVES

ASME B16.34 • RFF • OS&Y BOLTED BONNET • PTFE SEALS

CLASS 150 - 300 - 600

Body Material	CF8M (316)			CN7M (A20)			Body Material
Figure No.	150UPAM	300UPAM	600UPAM	150UPACN	300UPACN	600UPACN	Figure No.
1/2	670	1,280	1,604	POA	POA	POA	1/2
3/4	737	1,426	1,703	POA	POA	POA	3/4
1	918	1,718	2,224	POA	POA	POA	1
1 1/2	1,366	2,895	3,077	POA	POA	POA	1 1/2
2	1,661	3,475	6,155	POA	POA	POA	2
2 1/2	3,608	5,383	15,082	POA	POA	POA	2 1/2
3	3,608	5,383	15,082	POA	POA	POA	3
4	4,232	8,773	26,478	POA	POA	POA	4
6	7,441	14,881	41,562	POA	POA	POA	6
8	15,528	24,134	-	POA	POA	-	8
10	26,352	47,444	-	POA	POA	-	10
12	36,156	-	-	POA	-	-	12

LIFT CHECK VALVES

ASME B16.34 • RFF • BOLTED CAP R-PTFE SEAL

CLASS 150 - 300

Body Material	CF8M (316)		CN7M (A20)		Body Material
Figure No.	150UNAM*	300UNAM	150UNACN*	300UNACN*	Figure No.
1/2	658	1,359	POA	POA	1/2
3/4	696	1,502	POA	POA	3/4
1	907	1,797	POA	POA	1

*Lift check (1/2" - 1" only). For swing check in these sizes, must use C-Series.

SWING CHECK VALVES

ASME B16.34 • RFF • BOLTED CAP R-PTFE SEAL

CLASS 150 - 300 - 600

Body Material	CF8M (316)			CN7M (A20)			Body Material
Figure No.	150UOAM*	300UOAM	600UOAM	150UOACN*	300UOACN*	600UOACN	Figure No.
1/2	-	-	1,659	-	-	POA	1/2
3/4	-	-	1,795	-	-	POA	3/4
1	-	-	2,241	-	-	POA	1
1 1/2	1,303	2,471	2,809	POA	POA	POA	1 1/2
2	1,573	2,933	5,962	POA	POA	POA	2
2 1/2	2,493	4,722	13,820	POA	POA	POA	2 1/2
3	2,493	4,722	13,820	POA	POA	POA	3
4	3,769	7,160	22,031	POA	POA	POA	4
6	6,739	14,190	38,509	POA	POA	POA	6
8	13,266	23,802	76,284	POA	POA	POA	8
10	22,135	39,086	87,338	POA	POA	POA	10
12	32,926	55,491	-	POA	POA	-	12
14	45,962	80,530	-	POA	POA	-	14
16	63,036	122,206	-	POA	POA	-	16
18	75,739	-	-	POA	-	-	18

GATE VALVES

**ASME B16.34 • RFF • OS&Y • API 600 • BOLTED BONNET FLEXIBLE
ONE-PIECE WEDGE • PTFE SEALS • INTEGRAL SEAT**

CLASS 150 - 1500

Body Material	CF8M (316)					Body Material
Figure No.	150UMCM	300UMCM	600UMCM	900UMCM	1500UMCM	Figure No.
1/2	1,734	2,105	-	-	-	1/2
3/4	1,773	2,481	-	-	-	3/4
1	2,032	2,613	3,626	-	-	1
1 1/2	2,638	3,721	5,772	-	-	1 1/2
2	4,225	5,642	9,064	POA	POA	2
2 1/2	-	-	-	-	POA	2 1/2
3	6,807	9,406	17,495	POA	POA	3
4	8,720	13,594	28,020	POA	POA	4
6	14,023	24,794	52,877	POA	POA	6
8	23,258	37,451	87,209	POA	POA	8
10	33,942	56,347	129,959	POA	-	10
12	49,333	76,007	172,108	POA	-	12
14	61,562	130,386	-	-	-	14
16	78,744	156,038	-	-	-	16
18	POA	POA	-	-	-	18
20	POA	-	-	-	-	20

GLOBE VALVES

**ASME B16.34 • RFF • OS&Y
BOLTED BONNET • PTFE SEALS • INTEGRAL SEAT**

CLASS 150 - 1500

Body Material	CF8M (316)					Body Material
Figure No.	150UPCM	300UPCM	600UPCM	900UPCM	1500UPCM	Figure No.
1/2	1,532	2,124	-	-	-	1/2
3/4	1,699	2,496	-	-	-	3/4
1	1,925	2,531	3,480	-	-	1
1 1/2	2,447	3,669	5,568	-	-	1 1/2
2	4,087	5,157	9,148	-	POA	2
2 1/2	-	-	-	-	-	2 1/2
3	6,498	9,064	18,953	POA	POA	3
4	9,575	13,254	30,911	POA	POA	4
6	16,160	24,965	51,924	POA	POA	6
8	26,957	44,412	81,955	POA	POA	8
10	45,481	71,842	-	-	-	10
12	65,668	POA	-	-	-	12

SWING CHECK VALVES
ASME B16.34 • RFF • OS&Y • BOLTED CAP
FLEXIBLE ONE-PIECE WEDGE • PTFE SEALS • INTEGRAL SEAT

CLASS 150 - 1500

Body Material	CF8M (316)					Body Material
Figure No.	150UOCM	300UOCM	600UOCM	900UOCM	1500UOCM	Figure No.
1/2	772	1,564	-	-	-	1/2
3/4	865	1,726	-	-	-	3/4
1	1,229	2,067	2,858	-	-	1
1 1/2	2,849	3,169	4,549	-	-	1 1/2
2	3,421	4,126	6,830	-	POA	2
2 1/2	-	-	-	-	POA	2 1/2
3	5,154	7,294	15,205	POA	POA	3
4	7,694	9,920	25,153	POA	POA	4
6	12,396	18,981	44,942	POA	POA	6
8	20,863	29,071	83,914	POA	POA	8
10	31,719	44,697	108,298	-	-	10
12	42,666	77,547	157,173	-	-	12
14	58,614	100,753	-	-	-	14
16	86,952	136,115	-	-	-	16
18	POA	-	-	-	-	18
20	POA	-	-	-	-	20

B-SERIES

THREADED
GATE, GLOBE & CHECK VALVES
KITZ STANDARD

200 WOG

Body Material	CF8M (316)			Body Material
Figure No.	AKUELM	AKUJM	AKUOM	Figure No.
1/8	-	217	-	1/8
1/2	217	238	227	1/2
3/4	261	286	238	3/4
1	317	348	305	1
1 1/4	438	482	375	1 1/4
1 1/2	438	706	572	1 1/2
2	636	883	972	2
2 1/2	1394*	1,771	1076	2 1/2
3	1824*	2,493	1,403	3
4	3045*	-	-	4

*Figure Number AKUEM

GATE VALVES

ASME B16.34 • RFF • OS&Y

BOLTED BONNET • PTFE SEALS • INTEGRAL SEAT

CLASS 150 - 300 - 600 / Threaded & Socketweld

Body Material	CF8M (316)			CN7M (A20)			Body Material
Fig.No. Thrd	AK150UMM	AK300UMM	AK600UMM	AK150UMCN	AK300UMCN	AK600UMCN	Threaded
Fig.No. S/W	AW150UMM	AW300UMM	AW600UMM	AW150UMCN	AW300UMCN	AW600UMCN	Socketweld
1/2	505	601	781	POA	POA	POA	1/2
3/4	595	696	936	POA	POA	POA	3/4
1	675	794	1086	POA	POA	POA	1
1 1/2	999	1,308	2,224	POA	POA	POA	1 1/2
2	1145	1,590	2,759	POA	POA	POA	2

GLOBE VALVES

ASME B16.34 • RFF • OS&Y

BOLTED BONNET • PTFE SEALS • INTEGRAL SEAT

CLASS 150 - 300 / Threaded & Socketweld

Body Material	CF8M (316)		CN7M (A20)		Body Material
Fig.No. Thrd	AK150UPM	AK300UPM	AK150UPCN	AK300UPCN	Threaded
Fig.No. S/W	AW150UPM	AW300UPM	AW150UPCN	AW300UPCN	Socketweld
1/2	595	696	POA	POA	1/2
3/4	653	745	POA	POA	3/4
1	762	913	POA	POA	1
1 1/2	1,171	1,385	POA	POA	1 1/2
2	1,474	1,826	POA	POA	2

CHECK VALVES

ASME B16.34 • RFF • OS&Y

BOLTED BONNET • PTFE SEALS • INTEGRAL SEAT

CLASS 150 - 300 / Threaded & Socketweld

Body Material	CF3M (316L)		CN7M (A20)		Body Material
MATERIAL	AK150UOM	AK300UOM	AK150UOCN	AK300UOCN	Threaded
Fig.No. S/W	AW150UOM	AW300UOM	AW150UOCN	AW300UOC	Socketweld
1/2	566	676	POA	POA	1/2
3/4	633	734	POA	POA	3/4
1	696	803	POA	POA	1
1 1/2	1076	1,239	POA	POA	1 1/2
2	1,316	1,517	POA	POA	2

CROSS REFERENCE CHART

	KITZ	ALOYCO	LADISH	POWELL	VELAN
Class 150	AK150UMM	110	3270	2494	
	AK150UPM	310	7270	2474	
	AK150UOM	370	5270	2341	
	150UMAM	117	8272	2495	F-0064C-13
	150UPAM	317	7272	2629	F-0074C-13
	150UOAM	377	5272	2342	F0114C-13
Class 300	AK300UMM	2201A	8653	2466	
	AK300UPM	2310A	7350	2446	
	AK300UOM	2370	5370	2345	
	300UMAM	2117	8375	2467	F1064C-13
	300UPAM	2317	7372	2447	F-1074C-13
	300UOAM	2377	5372	2346	F-1114C-13
Class 600	AK600UMM	4210A	8663	1972	
	600UMAM	4217A	8675	1973	

This chart should be used as a general guide for converting valve figure numbers of various manufacturers to the corresponding Kitz valve figure number.

A direct comparison solely by part number is not practical since each manufacturer may have some minor differences in the type of bonnet, disc, body or seat mounting construction. These variations do not affect operation of the valve and will allow for interchangeability between valves of various manufacturers.

GENERAL TERMS AND CONDITIONS

ACCEPTANCE

All quotations are for acceptance within 30 days from date of quotation unless extended in writing. In the event a purchase order is placed after this time, the Seller's company reserves the right to requote prices of all valves offered. All orders and contracts are subject to credit approval and acceptance by KITZ.

FREIGHT

All materials will be shipped F.O.B. point of shipment - no freight allowance unless otherwise stated and agreed upon with the Buyer.

PRICES

There will be added to all prices quoted any sales, excise, or similar tax which Seller may be required to collect on or in connection with the sale. Seller reserves the right to cancel any order in the event that selling prices shall be established by Federal, State or other governmental regulation with respect to the products covered by the order which shall be lower than the prices specified in the order.

ESCALATION TERMS

Prices shown in this price schedule reflect the costs in effect at the time of publication. These prices will remain firm on all products with a quoted delivery of twenty six (26) weeks or less. On products with a quoted delivery of more than 26 weeks, the Seller has a right to price and invoice at the applicable price sheet in effect at the time of shipment. In no event will the invoiced price be less than price originally quoted.

DEFERRED SHIPMENTS

If for any reason the Buyer desires to delay shipments more than 30 days after manufacturing or to place a hold or to stop the order during the manufacturing cycle, the Seller's company reserves the right to consider the order cancelled and to invoke cancellation charges.

CREDIT TERMS

As quoted. Overdue balances will be subject to 1½% service charge per month on such indebtedness.

DELIVERIES

Shipments made to the Buyer shall at all times be subject to the approval of Seller's Credit Department. All schedules of shipments are estimated as closely as possible and Seller will use its best effort to ship within the time schedule but does not guarantee to do so. Seller shall not be liable for any direct, indirect, or consequential damage or loss caused by delay in delivery, regardless of the cause of delay. Items offered from stock are subject to prior sale.

RETURNS

No returns are allowed without prior arrangements made with the Seller. Product considered for return must be in new, resalable condition and of current design.

WARRANTY

Seller will replace without charge or refund the purchase price of products manufactured by Seller which prove to be defective in material or workmanship, provided in each case that the product is properly installed and is used in the service for which Seller recommends it and that written claim, specifying the alleged defect, is presented to the Seller within one year from the date of shipment. Seller shall in no event be responsible for claims of A) labor, expenses, or other damages occasioned by defective parts or products or for B) consequential or secondary damages. **The Warranty stated in this paragraph is in lieu of all other warranties, either expressed or implied. With respect to warranties, this paragraph states Buyer's exclusive remedy and Seller's exclusive liability.**

DESIGN

Because of a policy of continuous product improvement, Seller reserves the right to change design, materials or specifications without notice. There will be a charge for modifying an order after it has been entered when such change or modification results in additional engineering or clerical work for either KITZ or its suppliers.

NOTE

KITZ reserves the right to correct any obvious clerical errors in quotations, invoices and other contracts.



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