

KITZ®

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

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.
½	573	1,038	1,344	POA	POA	POA	½
¾	611	1,148	1,457	POA	POA	POA	¾
1	755	1,376	1,791	POA	POA	POA	1
1½	1,046	2,129	2,568	POA	POA	POA	1½
2	1,247	2,574	4,592	POA	POA	POA	2
2½	1,983	4,167	13,567	POA	POA	POA	2½
3	1,983	4,167	13,567	POA	POA	POA	3
4	2,846	5,961	20,816	POA	POA	POA	4
6	5,078	10,743	34,901	POA	POA	POA	6
8	9,650	16,234	64,244	POA	POA	POA	8
10	16,038	30,149	97,623	POA	POA	POA	10
12	24,117	42,800	123,469	POA	POA	POA	12
14	36,320	81,436	-	POA	POA	-	14
16	48,028	100,030	-	POA	POA	-	16
18	57,302	116,499	-	POA	POA	-	18
20	75,975	161,023	-	POA	POA	-	20
24	125,554	239,725	-	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.
½	583	1,113	1,395	POA	POA	POA	½
¾	641	1,240	1,481	POA	POA	POA	¾
1	798	1,494	1,934	POA	POA	POA	1
1½	1,188	2,517	2,676	POA	POA	POA	1½
2	1,444	3,022	5,352	POA	POA	POA	2
2½	3,137	4,681	13,115	POA	POA	POA	2½
3	3,137	4,681	13,115	POA	POA	POA	3
4	3,680	7,629	23,024	POA	POA	POA	4
6	6,470	12,940	36,141	POA	POA	POA	6
8	13,503	20,986	-	POA	POA	-	8
10	22,915	41,256	-	POA	POA	-	10
12	31,440	-	-	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.
½	572	1,182	POA	POA	½
¾	605	1,306	POA	POA	¾
1	789	1,563	POA	POA	1

*Lift check (½" - 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.
½	-	-	1,443	-	-	POA	½
¾	-	-	1,561	-	-	POA	¾
1	-	-	1,949	-	-	POA	1
1½	1,133	2,149	2,443	POA	POA	POA	1½
2	1,368	2,550	5,184	POA	POA	POA	2
2½	2,168	4,106	12,017	POA	POA	POA	2½
3	2,168	4,106	12,017	POA	POA	POA	3
4	3,277	6,226	19,157	POA	POA	POA	4
6	5,860	12,339	33,486	POA	POA	POA	6
8	11,536	20,697	66,334	POA	POA	POA	8
10	19,248	33,988	75,946	POA	POA	POA	10
12	28,631	48,253	-	POA	POA	-	12
14	39,967	70,026	-	POA	POA	-	14
16	54,814	106,266	-	POA	POA	-	16
18	65,860	-	-	POA	-	-	18

**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	1,508	1,830	-	-	-	1/2
3/4	1,542	2,157	-	-	-	3/4
1	1,767	2,272	3,153	-	-	1
1 1/2	2,294	3,236	5,019	-	-	1 1/2
2	3,674	4,906	7,882	POA	POA	2
2 1/2	-	-	-	-	POA	2 1/2
3	5,919	8,179	15,213	POA	POA	3
4	7,583	11,821	24,365	POA	POA	4
6	12,194	21,560	45,980	POA	POA	6
8	20,224	32,566	75,834	POA	POA	8
10	29,515	48,997	113,008	POA	-	10
12	42,898	66,093	149,659	POA	-	12
14	53,532	113,379	-	-	-	14
16	68,473	135,685	-	-	-	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	1,332	1,847	-	-	-	1/2
3/4	1,477	2,170	-	-	-	3/4
1	1,674	2,201	3,026	-	-	1
1 1/2	2,128	3,190	4,842	-	-	1 1/2
2	3,554	4,484	7,955	-	POA	2
2 1/2	-	-	-	-	-	2 1/2
3	5,650	7,882	16,481	POA	POA	3
4	8,326	11,525	26,879	POA	POA	4
6	14,052	21,709	45,151	POA	POA	6
8	23,441	38,619	71,265	POA	POA	8
10	39,549	62,471	-	-	-	10
12	57,103	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.
½	671	1,360	-	-	-	½
¾	752	1,501	-	-	-	¾
1	1,069	1,797	2,485	-	-	1
1½	2,477	2,756	3,956	-	-	1½
2	2,975	3,588	5,939	-	POA	2
2½	-	-	-	-	POA	2½
3	4,482	6,343	13,222	POA	POA	3
4	6,690	8,626	21,872	POA	POA	4
6	10,779	16,505	39,080	POA	POA	6
8	18,142	25,279	72,969	POA	POA	8
10	27,582	38,867	94,172	-	-	10
12	37,101	67,432	136,672	-	-	12
14	50,969	87,611	-	-	-	14
16	75,610	118,361	-	-	-	16
18	POA	POA	-	-	-	18
20	POA	POA	-	-	-	20

**THREADED
 GATE, GLOBE & CHECK VALVES**

KITZ STANDARD

200 WOG

Body Material	CF8M (316)			Body Material
Figure No.	AKUELM	AKUJM	AKUOM	Figure No.
⅜	-	189	-	⅜
½	189	207	197	½
¾	227	249	207	¾
1	276	303	265	1
1¼	381	419	326	1¼
1½	381	614	497	1½
2	553	768	845	2
2½	1,212*	1,540	936	2½
3	1,586*	2,168	1,220	3
4	2,648*	-	-	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
½	439	523	679	POA	POA	POA	½
¾	517	605	814	POA	POA	POA	¾
1	587	690	944	POA	POA	POA	1
1½	869	1,137	1,934	POA	POA	POA	1½
2	996	1,383	2,399	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
½	517	605	POA	POA	½
¾	568	648	POA	POA	¾
1	663	794	POA	POA	1
1½	1,018	1,204	POA	POA	1½
2	1,282	1,588	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	AK150UCN	AK300UCN	Threaded
Fig.No. S/W	AW150UOM	AW300UOM	AW150UCN	AW300UOC	Socketweld
½	492	588	POA	POA	½
¾	550	638	POA	POA	¾
1	605	698	POA	POA	1
1½	936	1,077	POA	POA	1½
2	1,144	1,319	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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