

KITZ[®]

STAINLESS STEEL AND HIGH ALLOY STEEL VALVES

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

**GATE
GLOBE
CHECK**



Fugitive Emissions 3

Quality Standards 3

Cryogenic Valves 3

Valve Options 3

Figure Number Construction 4

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 Valves 9

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

Cross Reference Chart10

General Terms and Conditions11

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 • 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	516	934	1,210	POA	POA	POA	½
¾	550	1,033	1,312	POA	POA	POA	¾
1	679	1,239	1,612	POA	POA	POA	1
1½	942	1,916	2,312	POA	POA	POA	1½
2	1,122	2,317	4,133	POA	POA	POA	2
2½	1,785	3,751	12,210	POA	POA	POA	2½
3	1,785	3,751	12,210	POA	POA	POA	3
4	2,561	5,364	18,735	POA	POA	POA	4
6	4,570	9,669	31,411	POA	POA	POA	6
8	8,685	14,611	57,820	POA	POA	POA	8
10	14,434	27,134	87,861	POA	POA	POA	10
12	21,706	38,520	111,122	POA	POA	POA	12
14	32,688	73,292	-	POA	POA	-	14
16	43,226	90,027	-	POA	POA	-	16
18	51,572	104,849	-	POA	POA	-	16
20	68,378	144,921	-	POA	POA	-	20
24	112,998	215,752	-	POA	POA	-	24

* "H" designation indicates full compliance with API 603.

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	525	1,002	1,256	POA	POA	POA	½
¾	577	1,116	1,333	POA	POA	POA	¾
1	718	1,344	1,741	POA	POA	POA	1
1½	1,069	2,266	2,408	POA	POA	POA	1½
2	1,300	2,720	4,817	POA	POA	POA	2
2½	2,823	4,213	11,804	POA	POA	POA	2½
3	2,823	4,213	11,804	POA	POA	POA	3
4	3,312	6,866	20,722	POA	POA	POA	4
6	5,823	11,646	32,527	POA	POA	POA	6
8	12,153	18,888	-	POA	POA	-	8
10	20,624	37,131	-	POA	POA	-	10
12	28,296	-	-	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	515	1,064	POA	POA	½
¾	544	1,175	POA	POA	¾
1	710	1,407	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	-	-	1,298	-	-	POA	½
¾	-	-	1,405	-	-	POA	¾
1	-	-	1,754	-	-	POA	1
1½	1,020	1,934	2,198	POA	POA	POA	1½
2	1,231	2,295	4,666	POA	POA	POA	2
2½	1,951	3,695	10,815	POA	POA	POA	2½
3	1,951	3,695	10,815	POA	POA	POA	3
4	2,949	5,603	17,242	POA	POA	POA	4
6	5,274	11,105	30,137	POA	POA	POA	6
8	10,382	18,627	59,700	POA	POA	POA	8
10	17,324	30,590	68,351	POA	POA	POA	10
12	25,768	43,428	-	POA	POA	-	12
14	35,970	63,023	-	POA	POA	-	14
16	49,333	95,639	-	POA	POA	-	16
18	59,274	-	-	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	1,357	1,647	-	-	-	1/2
3/4	1,387	1,941	-	-	-	3/4
1	1,590	2,045	2,837	-	-	1
1 1/2	2,064	2,912	4,518	-	-	1 1/2
2	3,307	4,415	7,094	POA	POA	2
2 1/2	-	-	-	-	POA	2 1/2
3	5,327	7,361	13,691	POA	POA	3
4	6,824	10,639	21,929	POA	POA	4
6	10,974	19,404	41,382	POA	POA	6
8	18,201	29,310	68,251	POA	POA	8
10	26,564	44,097	101,707	POA	-	10
12	38,608	59,484	134,693	POA	-	12
14	48,179	102,041	-	-	-	14
16	61,626	122,116	-	-	-	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	1,198	1,662	-	-	-	1/2
3/4	1,329	1,953	-	-	-	3/4
1	1,506	1,981	2,723	-	-	1
1 1/2	1,915	2,871	4,357	-	-	1 1/2
2	3,199	4,036	7,160	-	POA	2
2 1/2	-	-	-	-	-	2 1/2
3	5,085	7,094	14,833	POA	POA	3
4	7,494	10,372	24,191	POA	POA	4
6	12,647	19,538	40,636	POA	POA	6
8	21,096	34,757	64,139	POA	POA	8
10	35,594	56,224	-	-	-	10
12	51,393	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	604	1,224	-	-	-	½
¾	677	1,351	-	-	-	¾
1	962	1,618	2,237	-	-	1
1½	2,229	2,481	3,560	-	-	1½
2	2,677	3,229	5,345	-	POA	2
2½	-	-	-	-	POA	2½
3	4,034	5,708	11,900	POA	POA	3
4	6,021	7,763	19,685	POA	POA	4
6	9,701	14,855	35,172	POA	POA	6
8	16,327	22,751	65,672	POA	POA	8
10	24,824	34,980	84,755	-	-	10
12	33,391	60,688	123,005	-	-	12
14	45,872	78,850	-	-	-	14
16	68,049	106,525	-	-	-	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	-	170	-	⅜
½	170	187	177	½
¾	204	224	187	¾
1	248	273	239	1
1¼	343	377	294	1¼
1½	343	553	447	1½
2	498	692	760	2
2½	1,091*	1,386	843	2½
3	1,427*	1,951	1,098	3
4	2,383*	-	-	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	395	471	611	POA	POA	POA	½
¾	466	544	733	POA	POA	POA	¾
1	528	621	849	POA	POA	POA	1
1½	782	1,023	1,741	POA	POA	POA	1½
2	897	1,244	2,159	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	466	544	POA	POA	½
¾	511	584	POA	POA	¾
1	597	715	POA	POA	1
1½	916	1,084	POA	POA	1½
2	1,154	1,430	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	AW300UCN	Socketweld
½	443	530	POA	POA	½
¾	495	574	POA	POA	¾
1	544	628	POA	POA	1
1½	843	969	POA	POA	1½
2	1,030	1,187	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.



KITZ CORPORATION OF AMERICA

10750 Corporate Drive

Stafford, Texas 77477 U.S.A.

Tel (281) 491-7333 • Toll Free 800-772-0073

Fax (281) 491-9402 • www.kitz.com