

Stainless and High Alloy Steel Valves

JIS 5K/10K/20K, ASME Class 150/300/600/900/1500,
Gate, Globe and Check Valves





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Standard Product Range of KITZ Stainless and High Alloy Steel Valves (Series A, HA and C)

Series	Valve Type	Nominal Pressure	Design Standard		End Connection	Shell Material	Product Code
			P-T Rating	Wall Thickness			
A	Gate	Class 150	ASME B16.34	ASME B16.34	ASME RF-flanged	CF8 (CF8M)	150UMA(M)
		Class 300					300UMA(M)
		Class 600					600UMA(M)
		10K	JIS B2220	ASME B16.34 Class 150	JIS RF-flanged	SCS13A (SCS14A)	10UMA(M)(T)
		20K		ASME B16.34 Class 300			20UMA(M)
	Globe	Class 150	ASME B16.34	ASME B16.34	ASME RF-flanged	CF8 (CF8M)	150UPA(M)
		Class 300					300UPA(M)
		Class 600					600UPA(M)
		10K	JIS B2220	ASME B16.34 Class 150	JIS RF-flanged	SCS13A (SCS14A)	10UPA(M)(T)**
		20K		ASME B16.34 Class 300			20UPA(M)
	Soft seated globe	10K		ASME B16.34 Class 150			10UPDA(M)
	Bellows seal globe	Class 150	ASME B16.34	ASME B16.34	ASME RF-flanged	CF8 (CF8M)	150UPAW(M)
		Class 300					300UPAW(M)
		10K	JIS B2220	ASME B16.34 Class 150	JIS RF-flanged	SCS13A (SCS14A)	10UPAW(M)
		20K		ASME B16.34 Class 300			20UPAW(M)
	Swing check	Class 150	ASME B16.34	ASME B16.34	ASME RF-flanged	CF8 (CF8M)	150UOA(M)
		Class 300					300UOA(M)
		Class 600					600UOA(M)
		10K	JIS B2220	ASME B16.34 Class 150	JIS RF-flanged	SCS13A (SCS14A)	10UOA(M)(T)
		20K		ASME B16.34 Class 300			20UOA(M)
Lift check	Class 150	ASME B16.34	ASME B16.34	ASME RF-flanged	CF8 (CF8M)	150UNA(M)	
	Class 300					300UNA(M)	
	10K	JIS B2220	ASME B16.34 Class 150	JIS RF-flanged	SCS13A (SCS14A)	10UNA(M)(T)	
	20K		ASME B16.34 Class 300			20UNA(M)	
Strainer	10K		ASME B16.34 Class 150			10UYA(M)	
HA	Gate	Class 150	ASME B16.34	API 603	ASME RF-flanged	CF8M	150UMHAM
		Class 300					300UMHAM
C	Gate	Class 150	ASME B16.34	API 600t	ASME RF-flanged	CF8 (CF8M)	150UMC(M)
		Class 300					300UMC(M)
		Class 600					600UMC(M)
		Class 900					900UMC(M)
		Class 1500					1500UMC(M)
	Globe	Class 150					150UPC(M)
		Class 300					300UPC(M)
		Class 600					600UPC(M)
		Class 1500					1500UPC(M)
		Swing check					Class 150
	Class 300						300UOC(M)
	Class 600						600UOC(M)
	Class 900						900UOC(M)
	Class 1500						1500UOC(M)

* Product codes suffixed (T) stands for the valves provided with ceramic filled PTFE gaskets and PTFE packings
 ** 10UPAT, 10UPAMT: Size range is 1/2 to 8.

Standard Product Range of KITZ Stainless and High Alloy Steel Valves (Series B, D and AJ)

Series	Valve Type	Nominal Pressure	Design Standard		End Connection	Shell Material	
			P-T Rating	Wall Thickness			
B	Gate	10K	KITZ Std.	KITZ Std.	Threaded	SCS13A (SCS14A)	
		Type 200			Flanged		
	Globe	5K	KITZ Std.	KITZ Std.	Flanged	SCS13A	
		10K			Threaded		SCS13A(SCS14A)
					Flanged	SCS13A	
		Type 200			Threaded	SCS13A(SCS14A)	
	Soft seated globe	10K	KITZ Std.	KITZ Std.	Threaded	SCS13A (SCS14A)	
	Swing check	10K	KITZ Std.	KITZ Std.	Flanged		
					Threaded		
	Lift check	10K	KITZ Std.	KITZ Std.	Flanged	CF8M	
	Strainer	10K			KITZ Std.	KITZ Std.	Threaded
			20K	Flanged			SCS13A (SCS14A)
	D	Gate	Class 150	ASME B16.34	ASME B16.34	AK: Threaded AW: Socket welded	
			Class 300				
Class 600							
Globe		Class 150					
		Class 300					
Swing check		Class 150					
	Class 300						
AJ	Gate	Class 150	ASME B16.34	ASME B16.34	ASME RF-flanged	CF8 (CF8M)	
		Class 300					
		10K	JIS B2220	ASME B16.34 Class 150	JIS RF-flanged	SCS13A (SCS14A)	
				ASME B16.34 Class 300			
	Globe	Class 150	ASME B16.34	ASME B16.34	ASME RF-flanged	CF8 (CF8M)	
		Class 300					
		10K	JIS B2220	ASME B16.34 Class 150	JIS RF-flanged	SCS13A (SCS14A)	
				ASME B16.34 Class 300			
	Swing check	Class 150	ASME B16.34	ASME B16.34	ASME RF-flanged	CF8 (CF8M)	
		Class 300					
		10K	JIS B2220	ASME B16.34 Class 150	JIS RF-flanged	SCS13A (SCS14A)	
				ASME B16.34 Class 300			
Lift check	Class 150	ASME B16.34	ASME B16.34	ASME RF-flanged	CF8 (CF8M)		
	Class 300						
	10K	JIS B2220	ASME B16.34 Class 150	JIS RF-flanged	SCS13A (SCS14A)		
			ASME B16.34 Class 300				

* UEBM: Size range is 1 to 3.

Product Coding (Except for Series B)

AK-150 U M A M 4

1 2 3 4 5 6 7

1 End Connection

None: RF-flanged with smooth finished gasket face

AK : Threaded ends to ASME B1.20.1 NPT
AW : Socket welding ends to ASME B16.11

2 Nominal Pressure

Code	Nominal Pressure	Code	Nominal Pressure
5	JIS 5K	300	ASME Class 300
10	JIS 10K	600	ASME Class 600
20	JIS 20K	900	ASME Class 900
150	ASME Class 150	1500	ASME Class 1500

Nominal Size Code	A B	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	Page
		8	10	15	20	25	32	40	50	65	80	100	125	150	
UEL(M)				●	●	●	●	●	●						40
UE(M)										●	●	●			40
UEB(M)				●	●	●	●	●	●	●	●				40
AKUELM				●	●	●	●	●	●						41
AKUEM										●	●	●			41
UAB			●	●	●	●	●	●	●						41
UCL	●		●	●	●	●	●	●	●						42
UJ(M)			●	●	●	●	●	●	●	●	●				42
UCB			●	●	●	●	●	●	●						42
UJB(M)			●	●	●	●	●	●	●	●	●				43
AKUCLM	●		●	●	●	●	●	●	●						43
AKUJM			●	●	●	●	●	●	●	●	●				43
UD(M)			●	●	●	●	●	●	●						44
UDB(M)				●	●	●	●	●	●	●	●				44
UO(M)				●	●	●	●	●	●	●	●				44
UOB(M)				●	●	●	●	●	●	●	●				45
AKUOM				●	●	●	●	●	●	●	●				45
UN			●	●	●	●	●	●	●						45
UYB(M)			●	●	●	●	●	●	●						46
UY(M)	●		●	●	●	●	●	●	●	●	●				46
AK/AW150UMM(O)				●	●	●		●	●						47
AK/AW300UMM(O)				●	●	●		●	●						47
AK/AW600UMM(O)				●	●	●		●	●						47
AK/AW150UPM(O)				●	●	●		●	●						48
AK/AW300UPM(O)				●	●	●		●	●						48
AK/AW150UOM(O)				●	●	●		●	●						49
AK/AW300UOM(O)				●	●	●		●	●						49
150UMAJ(M)				●	●	●		●	●		●	●		●	50
300UMAJ(M)				●	●	●		●	●		●	●		●	50
10UMAJ(M)				●	●	●		●	●		●	●		●	51
20UMAJ(M)				●	●	●		●	●		●	●		●	51
150UPAJ(M)				●	●	●		●	●		●	●			52
300UPAJ(M)				●	●	●		●	●		●	●			52
10UPAJ(M)				●	●	●		●	●		●	●			53
20UPAJ(M)				●	●	●		●	●		●	●			53
150UOAJ(M)									●		●	●		●	54
300UOAJ(M)									●		●	●		●	54
10UOAJ(M)									●		●	●		●	55
20UOAJ(M)									●		●	●		●	55
150UNAJ(M)				●	●	●		●							56
300UNAJ(M)				●	●	●		●							56
10UNAJ(M)				●	●	●		●							57
20UNAJ(M)				●	●	●		●							57

3 Product Identification

U: Identification code for stainless and high alloy steel valves in general.

4 Valve Type

- M : Gate valves
- P : Globe valves
- PD : Soft seated globe valves
- O : Swing check valves
- N : Lift check valves
- Y : Y-pattern strainers

5 Valve Design

- Code: Series
- A : Series A
- HA : Series HA
- C : Series C
- None: Series D
- AJ : Series A, Jacketed
- AW : Series A, Bellows seal

6 Shell Material

- None: CF8 (304)
- M : CF8M (316)
- O : CF3M (316L)
- V : CF3 (304L)
- CB : CF8C (321)
- CG : CG8M (317)
- CK : CK20 (310)
- SD : Super duplex stainless steel (SDPV-K1)
- CN : CN7M (Alloy 20)
- HB : N-12MV (Hastelloy B)
- HC : CW-12MW (Hastelloy C)

7 Nominal Valve Size

JIS flanged : in mm base
Others : in inches base

KITZ Stainless 및 High Alloy Steel Valves의 내식성

KITZ 스테인리스 강(Stainless Steel) 및 고 합금강(High Alloy Steel) 밸브는 일본 밸브 산업에서 가장 큰 KITZ Corporation의 주요 라인을 구성하며 화학(Chemical), 석유화학(Petrochemical), 식·음료(Food and beverage), 펄프 및 제지(Pulp and paper), 제약(Pharmaceutical) 등 전세계를 통틀어 산업용 공장에 다방면으로 사용됩니다.

KITZ 스테인리스 및 고 합금강 밸브는 부식성 산업분야(Corrosive Industrial)에 필요한 중요한 서비스 조건을 충족하는 모든 품질요소를 사용하며 ASTM, ASME, API, BS, JIS 및 국제적으로 승인된 규범을 엄격하게 따르기 위해서 디자인, 제조, 그리고 검수과정을 거칩니다.

KITZ 스테인리스 및 고 합금강 밸브는 탁월한 내식성(Corrosion resistance)과 신뢰성(Reliability)을 특징으로 하며, 저렴한 가격과 긴 사용수명을 제공합니다. KITZ Corporation은 ISO 9001에 인증받은 밸브제조사로서, 스테인리스 및 고 합금강 밸브의 본고지인 야마나시 나가사카 공장에서 채택된 최신기술 노하우와 독창적으로 통합된 생산 시스템의 조합을 통해 높은 수준의 제품 표준화를 달성했습니다.

KITZ 나가사카 공장은 전자제어식 철강주조공장(Steel Foundries), Multi-station Transfer Machining System, 최첨단 테스트 및 검수설비가 모두 결합되어, 세계시장에 출시되는 모든 밸브제품의 품질과 신뢰성을 보장합니다.



KITZ Nagasaka Plant, Japan



KITZ Corporation of Taiwan



KITZ Corporation of Kunshan

밸브재질로 사용되는 Austenitic 스테인레스 강의 특징

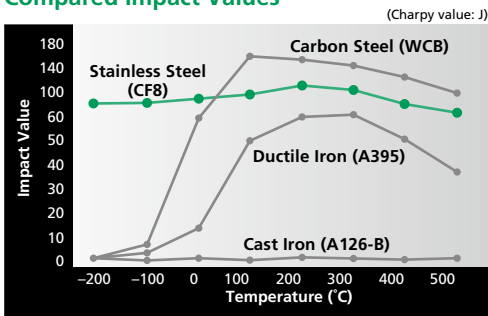
스테인리스 강은 화학물질에 따라 세가지 범주로 나뉘며 13% Chromium(크롬)을 포함한 Martensitic Stainless Steel(마텐자이트 강), 18% Chromium을 포함한 Ferritic Stainless Steel(페라이트 강) 그리고 18% Chromium과 8% Nicke(니켈)을 포함한 Austenitic Stainless Steel(오스테나이트 강) 입니다. 이 세가지 중, 고압에 잘 견디는 특징을 가진 Austenitic Stainless Steel은 밸브의 Shell(본체)과 Trim에 잘 쓰이는 재료입니다. Martensitic Stainless Steel은 주로 탄소강 밸브(Carbon Steel Valve)의 재료로 사용됩니다. 아래 표를 보면 Stainless Steel의 각 특징이 잘 비교되어 있습니다.

Features of Stainless Steel by Types

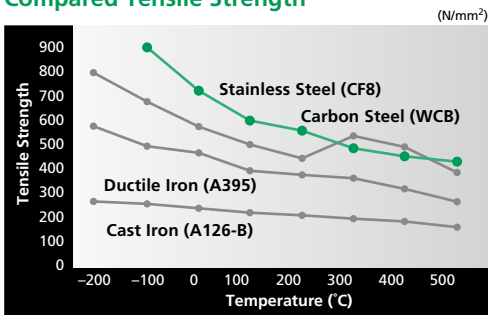
Types	Martensitic	Ferritic	Austenitic
Typical Material	AISI 410	AISI 430	ASTM CF8M/F316
Magnetization	Yes		No
Hardening by heat treatment	Yes	No	
Hardening by machining	Same as soft steel		Less
Corrosion and acid resistance	Good		Excellent
Impact resistance and elongation	Good		Excellent
Weldability	Poor	Fair	Good
Lowest service temperature	-29°C	-10°C	-269°C

아래에 나와있는 대로, Austenitic Stainless Steel은 영하의 온도에서 우수한 충격값(Impact Value)을 가지고 있으며, 초저온을 이용한 시설에 독점적으로 사용되고 있습니다. 또한 탄소강(Carbon Steel)과 비교했을때 우수한 내열성을 가지고 있습니다. 항장력(Tensile Strength)은 다른 밸브들 보다 우수하며, 다양한 온도에서 사용했을 때, 파괴 인장 하중(Destructive Tensile Load)에 대한 저항력은 비교할 수 없이 높습니다. 일반적으로 부식성이 있는 유체들은 Austenitic Stainless Steel의 기계적 성분에 영향을 미칠 수 없습니다.

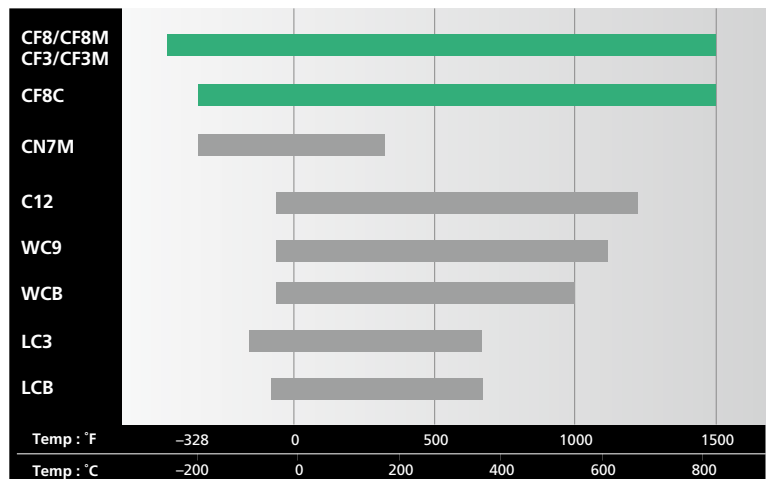
Compared Impact Values



Compared Tensile Strength



Steel Castings: Maximum Working Temperature Range



해당 데이터는 일반 강철 주물에 대한 ASTM 규격을 반영하며, 도관 압력을 포함하는 매우 까다로운 조건에 사용되는 해당 재질로 만들어진 밸브에 반드시 필요는 없습니다.

반면에, Austenitic Stainless Steel은 접촉하는 물체의 품질에 어떠한 영향을 미치지 않는 연강(Mild Metal)으로 알려져 있습니다. 유체가 Austenitic Stainless Steel 배관을 흐를때 오염되지 않습니다. 이러한 장점이 Austenitic Stainless Steel을 식음료 및 제약관련 분야에서 중요한 유체를 다루는 매개체로 만들었습니다. 게다가 Austenitic Stainless Steel CBM 또는 F316은 해수의 침식에 강하며 탈염(Disalinarion)공장이나 대저담사 설비 및 해양 건축물 등에 사용됩니다.

Material Reference Chart

● 각 밸브 부품의 실제 재질은 조립 도면을 참조하십시오.

Classification	KITZ Codes	Main Ingredients	Shell Material Code	Standards				Standards	
				Castings				Bar or Forgings	
				ASTM	DIN(W.-Nr.)	UNS-No.	JIS	ASTM	DIN(W.-Nr.)
Iron Based Alloy	Martensitic Stainless Steel								
	CA6NM	13Cr-4Ni-0.8Mo		A743 CA6NM	1.4313	J91540	SCS6	A276 S41500	1.4313
	Austenitic Stainless Steel								
	SCS13	18Cr-8Ni		A351 CF8	1.4308	J92600	SCS13A	A276 304	1.4301
	SCS19	18Cr-8Ni-LC(1)	V	A351 CF3	1.4306	J92500	SCS19A	A276 304L	1.4306
	SCS14	18Cr-9Ni-2Mo	M	A351 CF8M	1.4408	J92900	SCS14A	A276 316	1.4401
	SCS16	18Cr-9Ni-2Mo-LC(1)	O	A351 CF3M	1.4404	J92800	SCS16A	A276 316L	1.4404
	SCS21	18Cr-10Ni-Nb	CB	A351 CF8C	1.4552	J92710	SCS21	A276 347	1.4550
	CG8M	18Cr-12Ni-3.5Mo	CG	A351 CG8M	—	J93000	—	A276 317	1.4449
	CG3M	18Cr-12Ni-3.5Mo-LC(1)	CG	A351 CG3M	—	J92999	—	A276 317L	1.4438
	KSN1	18Cr-13Ni-4.5Si	SN	—	—	—	—	—	—
	CN7M	21Cr-29Ni-2.5Mo-3.5Cu	CN	A351 CN7M	1.4536	J95150	SCS23	B473 N08020	2.4660
	CN3MCu	21Cr-29Ni-2.7Mo-3.2Cu-LC(1)	(-)*	A990 CN3MCu	—	—		—	—
	CK20	25Cr-20Ni	CK	A351 CK20	—	J94202	SCS18	A276 310S	1.4845
	K800	33Ni-20Cr-45Fe-Nb	CT	A351 CT15C	1.4859	N28820	—	B408 N08800	1.4876
	Super Austenitic Stainless Steel								
	SASV-Z1	21Cr-24Ni-6.5Mo-N	SA	A351 CN3MN	—	—	—	B690 N08367	—
	SASV-Z2	25Cr-24Ni-6.5Mo-N	SA	A351 CN3MN mod.	—	—	—	—	—
	SASV-Z3	20Cr-18Ni-6.5Mo-N-Cu	SA	A351 CK3MCuN	—	J93254	—	A312 S31254	—
	Duplex Stainless Steel								
	KDPV22	22Cr-5Ni-3Mo-N	4A	A995 Gr. 4A CD3MN	—	J92205	—	A790 S32205	1.4462
	KDPV25	25Cr-5Ni-Mo-Cu	1B	A995 Gr. 1B CD4MCuN	—	J93372	—	—	—
	Super Duplex Stainless Steel								
	SDPV-K1	25Cr-7Ni-3Mo-N	SD	—	—	—	SCS10	A790 S32750	1.4460
	SDPV-K3	25Cr-7Ni-3Mo-Cu-N-W	SD	A995 Gr. 6A CD3MWCuN	1.4468	J93380	—	A790 S32760	1.4460
	SDPV-K4	25Cr-7Ni-4Mo-N	SD	A995 Gr. 5A CE3MW	—	J93404	—	A790 S32750	—
Ni-Cu Alloy									
M-35-1	67Ni-30Cu	NC	A494 M-35-1	2.4365	N24135	NCuC	B163 N04400	2.4360	
Ni-Cr Alloy									
K600	78Ni-15Cr-5Fe	CY	A494 CY-40	2.4816	N06040	NCrFC	B166 N06600	2.4817	
Ni-Mo Alloy									
HB-K1	67Ni-28Mo-5Fe	HB	A494 N-12MV	2.4882	N30012	NMC	B335 N10001	2.4819	
HB-K2	68Ni-31Mo-1Fe	HB	A494 N-7M	2.4617	N30007	—	B335 N10665	2.4856	
Ni-Cr-Mo Alloy									
HC-K1	58Ni-16Cr-16Mo-6Fe-4W	HC	A494 CW-12MW	2.4686	N30002	NMCrC	B574 N10276	2.4819	
HC-K2	58Ni-21Cr-14Mo-4Fe-3W	HC	A494 CX2MW	9.4602	N26022	—	B574 N06022	2.4602	
K625	65Ni-22Cr-9Mo-3.5Nb	CW	A494 CW-6MC	2.4856	N26625	—	B446 N06625	2.4856	
K825	43Ni-22Cr-3Mo-30Fe-Nb	CU	A494 CU5MCuC	2.4858	N08826	—	B425 N08825	2.4858	
Nickel									
CZ-100	97Ni	CZ	A494 CZ-100	—	N02100	—	B160 N02200	2.4068	

※ (1)C < 0.03 mass%

		Characteristics	Typical Application	Equivalent		
UNS-No.	JIS					
S41500	—	Ni(Nickel) 및 Mo(Molybdenum)를 사용하는 기타 Martensitic 스테인리스 강 보다 부식 저항성과 용접성이 뛰어납니다.	유정(Oil Well) 및 정유산업(Oil Refining)	—		
S30400	SUS304	질산, 인산, 유기산에 대한 부식 저항성이 우수하지만 황산에 대한 내성은 낮습니다.	펄프 및 제지공장, 화학 처리 공정시설, 해수 시설	—		
S30403	SUS304L	CF8 보다 입자간 부식(Intergranular Corrosion) 저항성이 높습니다.		—		
S31600	SUS316	CF8 보다 Pitting 부식 저항성이 높습니다.		—		
S31603	SUS316L	CF8 보다 입자간 부식(Intergranular Corrosion) 저항성이 높습니다.		—		
S34700	SUS347	Nb(Niobium)으로 안정화된 Carbide 성분이 포함된 CF8보다 입자간 부식(Intergranular Corrosion) 저항성이 높습니다.		—		
S31700	SUS317	CF8M 보다 Pitting과 균열(Crevice)부식 저항성이 뛰어납니다.		—		
S31703	SUS317L		—			
—	—	높은 농도의 질산이나 발열질산(Fuming Nitric) 환경에 대한 부식 저항성이 우수합니다.		NAR-SN-1		
N08020	—	60℃ 이하의 온도에서 황산의 농도가 높은 환경에 대한 부식 저항성이 우수하고 희석된 고온의 산화물에도 부식저항성이 우수합니다.		—		
—	—			—		
S31008	SUS310S	고온 산화성(Oxidizability) 및 알칼리성(Akalinity)이 높은 환경에서 사용됩니다.		—		
N08800	NCF800	고온에서도 우수한 기계적 강도와 안정화 및 구조화(Caburizing)에 대한 저항성이 높아 장기 사용될 수 있습니다. 또한 습도가 높은 환경에서도 우수한 부식 저항성이 확보됩니다.		Incoloy alloy 800		
N08367	SUS836L	모든 Austenitic 스테인리스 강 중에서 산성과 알칼리성에 대한 저항성이 가장 높고 해수(Seawater)와 같은 염화물에서도 균열(Crevice) 부식 저항성이 높습니다.		AL-6XN		
—	—			—		
S31254	—			254SMO		
S32205	SUS329J3L	중간농도의 염화물을 사용하는 환경에서도 응력 부식 균열(SCC : Stress Corrosion Cracking) 저항성과 Pitting 부식 저항성이 우수합니다. 또한 황산과 인산이 희석된 환경에서도 부식 저항성이 우수합니다.		SAF 2205		
—	—			DP3N		
S32750	SUS329J4L	Austenitic 스테인리스 강 보다 응력 부식 균열 저항성이 우수하고 Ferritic 스테인리스 강 보다 용접성이 뛰어나며 기계적특성이 우수한 CF3M보다 산화, Pitting, 균열(Crevice) 부식 저항성이 높습니다.		—		
S32760	—			DP3W, SAF 2507		
S32750	—			—		
N04400	—	환원환경(Reducing Environment : 산소가 없는 환원상태의 환경)에서 부식저항성이 우수하며 국부 부식(Local Corrosion) 및 응력 부식 균열 저항성은 없습니다.	염화알칼리 또는 끓는 산을 다루는 화학중정 및 정유시설	Monel alloy 400		
N06600	NCF600	정수(Pure Water), 알칼리 및 고온의 산화환경에 대한 부식 저항성이 우수합니다. 또한 염화이온(Cl ions)에 대한 응력 부식 균열에 대한 저항성도 뛰어납니다.	화학공정 및 음식 가공시설	Inconel alloy 600		
N10001	NM1B	끓는점까지의 모든 농도의 염산에 대한 저항성과 황산(최대 60%), 인산, 구리 염화물과 같은 환원 염화물(Reducing Chloride)에 대한 저항성이 있으며 고온에 내성이 있으나 산화성이 높은 환경에서는 적합하지 않습니다.	염산, 황산, 인산, 아세트산, 염화수소 가스를 다루는 공정시설 및 고온과 고농도의 염화물 공정시설	Hastelloy alloy B		
N10665	NM2B			Hastelloy alloy B2		
(N10276, N10002)	NMCRB	습식 염소 가스(Wet Chloride Gas)와 이산화염소(Chlorine Dioxide)와 같은 산화환경 및 환원환경에 대한 저항성이 우수하며 유기산(Organic Acid)과 해수와 같은 염화물에 대한 저항성 또한 뛰어납니다.	신화산, 포름산, 무수화물 아세트산 및 담수처리, 불소처리용 화학공정 시설 배연 탈황 장비에 가장 적합함	Hastelloy alloy C276		
N06022	—			Hastelloy alloy C22		
N06625	NCF625			수산화 나트륨(Sodium Hydroxide) 및 수산화칼륨(Potassium Hydroxide)과 같은 알칼리 수산화물과 용접 알칼리(Fused Alkali)에 대한 내식성이 우수합니다.	화학 처리 공정	Inconel alloy 625
N08825	NCF825			황산과 인산에 대한 부식저항성이 우수하며 응력 부식 균열 및 틈새(Crevice) 부식에 대한 내성도 뛰어납니다.	화학 처리 공정	Incoloy alloy 825
N02200	—	수산화 나트륨(Sodium Hydroxide) 및 수산화칼륨(Potassium Hydroxide)과 같은 알칼리 수산화물과 용접 알칼리(Fused Alkali)에 대한 내식성이 우수합니다.	화학 처리 공정	Alloy 200		

Note: 상위에 열거된 재료들은 벨브 Shell에 사용이 가능합니다. 기타 부품의 재료에 관련된 내용은 KITZ Corporation으로 문의하여 주십시오.
 SDPV와 SASV는 KITZ의 대표적인 제품입니다. (Other trademarks: SandvikAB for SAF 2205/SAF 2507, SPECIAL METALS for Inco/Monel, Haynes for Hastelloy)
 Allegheny Ludlum for AL-6XN, Avesta for 254SMO, SUMITOMO METALS for DP3W/NAR.

일반적인 설계 사양

Series	Normal Pressure	Pressure-temperature Ratings*	Face to Face Dimensions	End Connection Dimensions	Wall Thickness
A	10K	JIS B2220	JIS B2002	JIS B2220 10K flanged	ASME B16.34 Class 150
	20K			JIS B2220 20K flanged	ASME B16.34 Class 300
	Class 150/300/600	ASME B16.34	ASME B16.10	ASME B16.5 flanged	ASME B16.34
HA	Class 150/300	ASME B16.34	ASME B16.10	ASME B16.5 flanged	API 603
C	Class 150/300/600/900/1500	ASME B16.34	ASME B16.10	ASME B16.5 flanged	API 600
B	5K	0.5 MPa 150°C	JIS B2011 KITZ Std.	JIS B0203 threaded	JIS B2011 KITZ Std.
	10K	1.0 MPa 180°C		JIS B2220 5K 10K flanged	
	20K	2.0 MPa 180°C		ASME B1.20.1 threaded	
	Type 200	KITZ Std.		ASME B1.20.1 threaded ASME B16.11 socket welded	
D	Class 150/300/600	ASME B16.34	KITZ Std.	ASME B1.20.1 threaded ASME B16.11 socket welded	ASME B16.34
AJ	10K	JIS B2220	KITZ Std.	JIS B2220 10K flanged	ASME B16.34 Class 150
	20K			JIS B2220 20K flanged	ASME B16.34 Class 300
	Class 150/300	ASME B16.34	ASME B16.5 flanged	ASME B16.34	

*실제 압력-온도 등급은 선택되는 밸브의 Gland packing과 Gasket의 재질에 따라 달라집니다.

Bonnet 및 Gasket 재질

하위 Gasket 재질들은 등급(Class Rating)과 서비스 조건에 따라서 KITZ사의 스테인리스 및 고 합금강 밸브의 Body/Bonnet Flange Gasket의 재질로 사용 가능 합니다. 주문서 작성시 Gasket의 재질도 명시해 주십시오.

Series	Class	Material	Maximum Service Temperature
A, D	10K, 20K, 150, 300	Ceramics PTFE	200°C
		Stainless Foil Inserted Flexible Graphite	400°C
	600	PTFE Spiral Wound	300°C
		Flexible Graphite Spiral Wound	450°C
HA	150	Ceramics PTFE	200°C
		Stainless Foil Inserted Flexible Graphite	400°C
	300	PTFE Spiral Wound	260°C
		Flexible Graphite Spiral Wound	450°C
C	150	Ceramics PTFE	200°C
		Stainless Foil Inserted Flexible Graphite	400°C
	300	PTFE Spiral Wound	300°C
		Non-Asbestos Spiral Wound	450°C
		Flexible Graphite Spiral Wound	450°C
		Stainless Steel (Ring Joint)	500°C
B	5K, 10K	Reinforced PTFE	180°C
AJ	10K, 150 20K, 300	Flexible Graphite	400°C

Note: KITZ의 Low Emission Service 밸브에 사용되는 Bonnet Gasket에 대한 내용은 15 페이지를 참조하십시오.

Gland Packing 재질

사용조건이나 소비자의 요구사항에 따라 KITZ사의 스테인리스 및 고 합금강 밸브에 사용되는 Packing의 재질 선택이 가능하며 아래 표에 열거 되어있습니다. 주문서 작성시 Packing의 재질도 명시에 주십시오.

Series	Class	Material	Maximum Service Temperature
A, D	10K, 20K 150, 300, 600	Flexible Graphite + PTFE Braided Packing	300°C
		PTFE Cup & Cone	150°C
		Flexible Graphite	500°C
		Carbon Core + PTFE Braided Packing	260°C
HA	150, 300	Flexible Graphite	500°C
		Carbon Core + PTFE Braided Packing	260°C
C	150, 300	Flexible Graphite + PTFE Braided Packing	300°C
		Flexible Graphite	500°C
	600, 900, 1500	Flexible Graphite	500°C
B	5K, 10K, Type200	Plastic Graphite Packing	180°C
AJ	10K, 150 20K, 300	Flexible Graphite + PTFE Braided Packing	300°C

Note: KITZ의 Low Emission Service 밸브에 사용되는 Bonnet Gasket에 대한 내용은 15 페이지를 참조하십시오. *산화 대기(Oxidizing Atmosphere)의 경우 455°C (850°F)입니다.

위 표에서 나타나지않은 Gasket과 Gland packing에 대한 선택적 요구사항은 KITZ Corporation 또는 현지 대리점에 문의해주시길 바랍니다.

Disc 구조

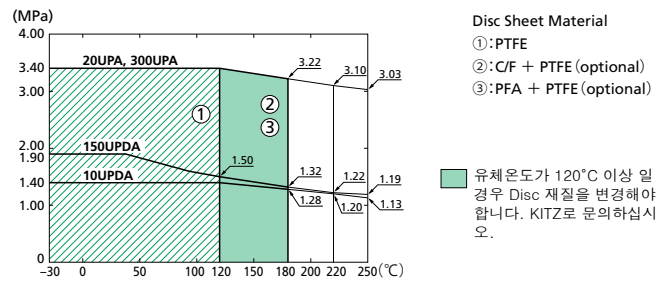
Series	Nominal Pressure	Solid Wedge	Flexible Wedge
A	10K/20K, Class 150/300/600	—	All sizes
HA	Class 150/300	—	All sizes
C	Class 150/300	4 and smaller	6 and larger
	Class 600	1½ and smaller	2 and larger
B	Class 900/1500	—	All sizes
	5K/10K/20K, Type 200	All sizes	—
D	Class 150/300/600	—	All sizes
AJ	10K/20K, Class 150/300	—	All sizes

Series B의 압력-온도 등급 (KITZ 표준)

Temperature	MPa		
	W 120°C below	G1 150°C below	G2 180°C below
5K	0.7	0.5	—
10K	1.4	1.1	1.0
20K	2.0	1.2	1.0

W: Static water without pressure variation
 G1, G2: Steam, air, non-flammable gas and oil (lubricant and machining oil)
 Note: Actual pressure-temperature rating in service depends on the materials of gland packing and gasket chosen for valves.

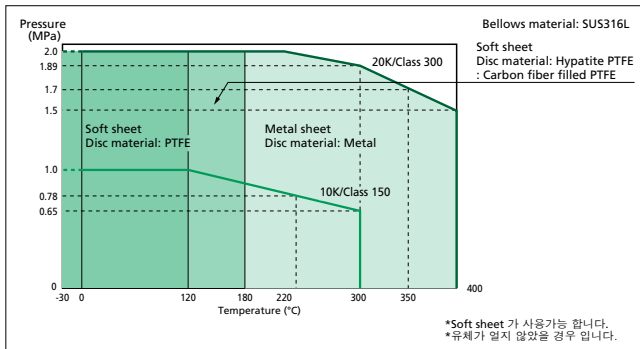
A series Disc를 사용하는 Globe 밸브의 압력-온도 등급



Bellows Seal Globe Valves의 사용범위

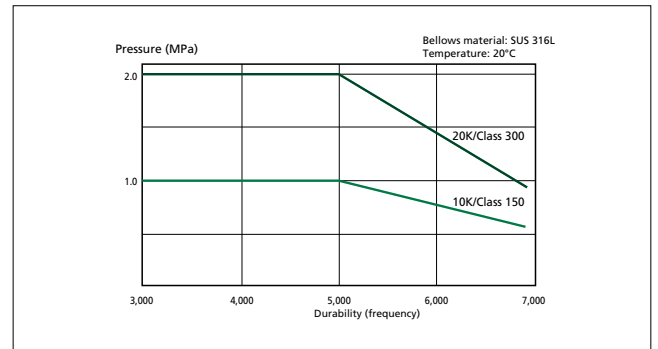
● 압력-온도 등급

밸브 Body는 JIS B2220 / ASME B16.34의 기준에 명시된 압력과 온도를 준수하기 위하여 디자인 되지만, 압력과 Bellows(벨로우즈)의 내구성 또한 고려되어야 합니다. 만일 아래의 사용범위 압력을 넘어선 환경에서 밸브를 사용중일 경우, 자사로 연락 바랍니다. 이 기준은 유체상태에 따라 사용이 불가능 할수도 있습니다.



● 압력과 사용 지속시간 간의 관계

Bellows 밸브 내구성 실험을 통해 얻은 하위 표의 결과는 반복되는 개폐 내구성을 나타냅니다. 장기간의 제품사용을 원하시면 자사로 연락 바랍니다. (MSS SP 117의 기준을 따름)



Pressure-temperature Ratings ASME B16.34-2009 Series A, Series HA, Series C, Series E, Series S

Class		150																				
Service Temperature		CF8 [SCS13A]			CF8M [SCS14A]			CF3M-CF3 [SCS16A-SCS19A]			CF8C [SCS21]			CK20 [SCS18]			CN7M [SCS23]			SDPV** SASV**		
°C	°F	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1
-29 to 38	-20.2 to 100.4	19.0	275.6	1.90	19.0	275.6	1.90	15.9	230.6	1.59	19.0	275.6	1.90	17.8	258.2	1.78	15.9	230.6	1.59	20.0	290.1	2.00
50	122	18.3	265.4	1.83	18.4	266.9	1.84	15.3	221.9	1.53	18.7	271.2	1.87	17.0	246.6	1.70	15.4	223.4	1.54	19.5	282.8	1.95
100	212	15.7	227.7	1.57	16.2	235.0	1.62	13.3	192.9	1.33	17.4	252.4	1.74	14.4	208.9	1.44	13.5	195.8	1.35	17.7	256.7	1.77
150	302	14.2	206.0	1.42	14.8	214.7	1.48	12.0	174.0	1.20	15.8	229.2	1.58	13.4	194.4	1.34	12.3	178.4	1.23	15.8	229.2	1.58
200	392	13.2	191.4	1.32	13.7	198.7	1.37	11.2	162.4	1.12	13.8	200.2	1.38	12.9	187.1	1.29	11.3	163.9	1.13	13.8	200.2	1.38
250	482	12.1	175.5	1.21	12.1	175.5	1.21	10.5	152.3	1.05	12.1	175.5	1.21	12.1	175.5	1.21	10.4	150.8	1.04	12.1	175.5	1.21
300	572	10.2	147.9	1.02	10.2	147.9	1.02	10.0	145.0	1.00	10.2	147.9	1.02	10.2	147.9	1.02	9.7	140.7	0.97	10.2	147.9	1.02
325	617	9.3	134.9	0.93	9.3	134.9	0.93	9.3	134.9	0.93	9.3	134.9	0.93	9.3	134.9	0.93	9.3	134.9	0.93	9.3	134.9	0.93
350	662	8.4	121.8	0.84	8.4	121.8	0.84	8.4	121.8	0.84	8.4	121.8	0.84	8.4	121.8	0.84				8.4	121.8	0.84
375	707	7.4	107.3	0.74	7.4	107.3	0.74	7.4	107.3	0.74	7.4	107.3	0.74	7.4	107.3	0.74				7.4	107.3	0.74
400	752	6.5	94.3	0.65	6.5	94.3	0.65	6.5	94.3	0.65	6.5	94.3	0.65	6.5	94.3	0.65				6.5	94.3	0.65
425	797	5.5	79.8	0.55	5.5	79.8	0.55	5.5	79.8	0.55	5.5	79.8	0.55	5.5	79.8	0.55						
450	842	4.6	66.7	0.46	4.6	66.7	0.46	4.6	66.7	0.46	4.6	66.7	0.46	4.6	66.7	0.46						
475	887	3.7	53.7	0.37	3.7	53.7	0.37				3.7	53.7	0.37	3.7	53.7	0.37						
500	932	2.8	40.6	0.28	2.8	40.6	0.28				2.8	40.6	0.28	2.8	40.6	0.28						
538	1000.4	1.4	20.3	0.14	1.4	20.3	0.14				1.4	20.3	0.14	1.4	20.3	0.14						
550	1022	1.4*2	20.3	0.14	1.4*2	20.3	0.14				1.4*2	20.3	0.14	1.4*2	20.3	0.14						
575	1067	1.4*2	20.3	0.14	1.4*2	20.3	0.14				1.4*2	20.3	0.14	1.4*2	20.3	0.14						
600	1112	1.4*2	20.3	0.14	1.4*2	20.3	0.14				1.4*2	20.3	0.14	1.4*2	20.3	0.14						
625	1157	1.4*2	20.3	0.14	1.4*2	20.3	0.14				1.4*2	20.3	0.14	1.4*2	20.3	0.14						
650	1202	1.4*2	20.3	0.14	1.4*2	20.3	0.14				1.4*2	20.3	0.14	1.4*2	20.3	0.14						
675	1247	1.4*2	20.3	0.14	1.4*2	20.3	0.14				1.4*2	20.3	0.14	1.4*2	20.3	0.14						
700	1292	1.4*2	20.3	0.14	1.4*2	20.3	0.14				1.4*2	20.3	0.14	1.4*2	20.3	0.14						
725	1337	1.4*2	20.3	0.14	1.4*2	20.3	0.14				1.4*2	20.3	0.14	1.4*2	20.3	0.14						
750	1382	1.4*2	20.3	0.14	1.4*2	20.3	0.14				1.4*2	20.3	0.14	1.4*2	20.3	0.14						
775	1427	1.4*2	20.3	0.14	1.4*2	20.3	0.14				1.4*2	20.3	0.14	1.2*2	17.4	0.12						
800	1472	1.2*2	17.4	0.12	1.2*2	17.4	0.12				1.2*2	17.4	0.12	0.9*2	13.1	0.09						
816	1500.8	1.0*2	14.5	0.10	1.0*2	14.5	0.10				1.0*2	14.5	0.10	0.7*2	10.2	0.07						

*1: 각 열에 나타나는 psi/MPa 수치는 계산된 값입니다.
 *2: Welding End Valve에만 적용 가능 합니다. Flanged end Valve의 등급은 538°C (1000.4°F)이 끝입니다.
 *3: SDPV는 25Cr-7Ni-4Mo-N 주물에 비교할만한 KITZ Super Duplex 스테인리스 강에 등록된 트레이드 마크입니다. 등급은 300°C (572°F)가 끝입니다.
 *4: SASV는 21Cr-25Ni-6.5Mo-N 주물에 비교할만한 KITZ Super Austenite 스테인리스 강에 등록된 트레이드 마크입니다.

Class		300																				
Service Temperature		CF8 [SCS13A]			CF8M [SCS14A]			CF3M-CF3 [SCS16A-SCS19A]			CF8C [SCS21]			CK20 [SCS18]			CN7M [SCS23]			SDPV** SASV**		
°C	°F	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1
-29 to 38	-20.2 to 100.4	49.6	719.4	4.96	49.6	719.4	4.96	41.4	600.5	4.14	49.6	719.4	4.96	46.3	671.5	4.63	41.4	600.5	4.14	51.7	749.8	5.17
50	122	47.8	693.3	4.78	48.1	697.6	4.81	40.0	580.2	4.00	48.8	707.8	4.88	44.5	645.4	4.45	40.1	581.6	4.01	51.7	749.8	5.17
100	212	40.9	593.2	4.09	42.2	612.1	4.22	34.8	504.7	3.48	45.3	657.0	4.53	37.5	543.9	3.75	35.3	512.0	3.53	50.7	590.3	4.07
150	302	37.0	536.6	3.70	38.5	558.4	3.85	31.4	455.4	3.14	42.5	616.4	4.25	34.9	506.2	3.49	32.0	464.1	3.20	45.9	665.7	4.59
200	392	34.5	500.4	3.45	35.7	517.8	3.57	29.2	423.5	2.92	39.9	578.7	3.99	33.5	485.9	3.35	29.4	426.4	2.94	42.7	619.3	4.27
250	482	32.5	471.4	3.25	33.4	484.4	3.34	27.5	398.9	2.75	37.8	548.2	3.78	32.6	472.8	3.26	27.2	394.5	2.72	40.5	587.4	4.05
300	572	30.9	448.2	3.09	31.6	458.3	3.16	26.1	378.5	2.61	36.1	523.6	3.61	31.7	459.8	3.17	25.4	368.4	2.54	38.9	564.2	3.89
325	617	30.2	438.0	3.02	30.9	448.2	3.09	25.5	369.8	2.55	35.4	513.4	3.54	31.2	452.5	3.12	24.4	353.9	2.44	38.2	554.0	3.82
350	662	29.6	429.3	2.96	30.3	439.5	3.03	25.1	364.0	2.51	34.8	504.7	3.48	30.6	443.8	3.06				37.6	545.3	3.76
375	707	29.0	420.6	2.90	29.9	433.7	2.99	24.8	359.7	2.48	34.2	496.0	3.42	29.8	432.2	2.98				37.4	542.4	3.74
400	752	28.4	411.9	2.84	29.4	426.4	2.94	24.3	352.4	2.43	33.9	491.7	3.39	29.1	422.1	2.91				36.5	529.4	3.65
425	797	28.0	406.1	2.80	29.1	422.1	2.91	23.9	346.6	2.39	33.6	487.3	3.36	28.3	410.5	2.83						
450*2	842*2	27.4	397.4	2.74	28.8	417.7	2.88	23.4	339.4	2.34	33.5	485.9	3.35	27.6	400.3	2.76						
475	887	26.9	390.2	2.69	28.7	416.3	2.87				31.7	459.8	3.17	26.7	387.3	2.67						
500	932	26.5	384.4	2.65	28.2	409.0	2.82				28.2	409.0	2.82	25.8	374.2	2.58						
538	1000.4	24.4	353.9	2.44	25.2	365.5	2.52				25.2	365.5	2.52	23.3	337.9	2.33						
550	1022	23.6	342.3	2.36	25.0	362.6	2.50				25.0	362.6	2.50	22.9	332.1	2.29						
575	1067	20.8	301.7	2.08	24.0	348.1	2.40				24.0	348.1	2.40	21.7	314.7	2.17						
600	1112	16.9	245.1	1.69	19.9	288.6	1.99				21.6	313.3	2.16	19.4	281.4	1.94						
625	1157	13.8	200.2	1.38	15.8	229.2	1.58				18.3	265.4	1.83	16.8	243.7	1.68						
650	1202	11.3	163.9	1.13	12.7	184.2	1.27				14.1	204.5	1.41	14.1	204.5	1.41						
675	1247	9.3	134.9	0.93	10.3	149.4	1.03				12.4	179.8	1.24	11.5	166.8	1.15						
700	1292	8.0	116.0	0.80	8.4	121.8	0.84				10.1	146.5	1.01	8.8	127.6	0.88						
725	1337	6.8	98.6	0.68	7.0	101.5	0.70				7.9	114.6	0.79	6.3	91.4	0.63						
750	1382	5.8	84.1	0.58	5.9	85.6	0.59				5.9	85.6										

Class			600																			
Service Temperature		CF8 [SCS13A]			CF8M [SCS14A]			CF3M-CF3 [SCS16A-SCS19A]			CF8C [SCS21]			CK20 [SCS18]			CN7M [SCS23]			SDPV*3 SASV*4		
°C	°F	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1
-29 to 38	-20.2 to 100.4	99.3	1440.2	9.93	99.3	1440.2	9.93	82.7	1199.5	8.27	99.3	1440.2	9.93	92.7	1344.5	9.27	82.7	1199.5	8.27	103.4	1499.7	10.34
50	122	95.6	1386.6	9.56	96.2	1395.3	9.62	80.0	1160.3	8.00	97.5	1414.1	9.75	89.0	1290.8	8.90	80.3	1164.7	8.03	103.4	1499.7	10.34
100	212	81.7	1185.0	8.17	84.4	1224.1	8.44	69.6	1009.5	6.96	90.6	1314.0	9.06	75.1	1089.2	7.51	70.6	1024.0	7.06	101.3	1469.2	10.13
150	302	74.0	1073.3	7.40	77.0	1116.8	7.70	62.8	910.8	6.28	84.9	1231.4	8.49	69.8	1012.4	6.98	64.1	929.7	6.41	91.9	1332.9	9.19
200	392	69.0	1000.8	6.90	71.3	1034.1	7.13	58.3	845.6	5.83	79.9	1158.9	7.99	67.1	973.2	6.71	58.7	851.4	5.87	85.3	1237.2	8.53
250	482	65.0	942.7	6.50	66.8	968.9	6.68	54.9	796.3	5.49	75.6	1096.5	7.56	65.2	945.6	6.52	54.4	789.0	5.44	80.9	1173.4	8.09
300	572	61.8	896.3	6.18	63.2	916.6	6.32	52.1	755.6	5.21	72.2	1047.2	7.22	63.4	919.5	6.34	50.8	736.8	5.08	77.7	1126.9	7.77
325	617	60.4	876.0	6.04	61.8	896.3	6.18	51.0	739.7	5.10	70.7	1025.4	7.07	62.4	905.0	6.24	48.8	707.8	4.88	76.3	1106.6	7.63
350	662	59.3	860.1	5.93	60.7	880.4	6.07	50.1	726.6	5.01	69.5	1008.0	6.95	61.2	887.6	6.12				75.3	1092.1	7.53
375	707	58.1	842.7	5.81	59.8	867.3	5.98	49.5	717.9	4.95	68.4	992.1	6.84	59.7	865.9	5.97				74.7	1083.4	7.47
400	752	56.9	825.3	5.69	58.9	854.3	5.89	48.6	704.9	4.86	67.8	983.4	6.78	58.2	844.1	5.82				73.3	1063.1	7.33
425	797	56.0	812.2	5.60	58.3	845.6	5.83	47.7	691.8	4.77	67.2	974.7	6.72	56.7	822.4	5.67						
450*2	842*2	54.8	794.8	5.48	57.7	836.9	5.77	46.8	678.8	4.68	66.9	970.3	6.69	55.2	800.6	5.52						
475	887	53.9	781.8	5.39	57.3	831.1	5.73				63.4	919.5	6.34	53.5	776.0	5.35						
500	932	53.0	768.7	5.30	56.5	819.5	5.65				56.5	819.5	5.65	51.7	749.8	5.17						
538	1000.4	48.9	709.2	4.89	50.0	725.2	5.00				50.0	725.2	5.00	46.6	675.9	4.66						
550	1022	47.1	683.1	4.71	49.8	722.3	4.98				49.8	722.3	4.98	45.9	665.7	4.59						
575	1067	41.7	604.8	4.17	47.9	694.7	4.79				47.9	694.7	4.79	43.3	628.0	4.33						
600	1112	33.8	490.2	3.38	39.8	577.3	3.98				42.9	622.2	4.29	38.8	562.7	3.88						
625	1157	27.6	400.3	2.76	31.6	458.3	3.16				36.6	530.8	3.66	33.7	488.8	3.37						
650	1202	22.5	326.3	2.25	25.3	366.9	2.53				28.1	407.6	2.81	28.1	407.6	2.81						
675	1247	18.7	271.2	1.87	20.6	298.8	2.06				25.2	365.5	2.52	23.0	333.6	2.30						
700	1292	16.1	233.5	1.61	16.8	243.7	1.68				20.0	290.1	2.00	17.5	253.8	1.75						
725	1337	13.5	195.8	1.35	14.0	203.1	1.40				15.4	223.4	1.54	12.7	184.2	1.27						
750	1382	11.6	168.2	1.16	11.7	169.7	1.17				11.7	169.7	1.17	8.9	129.1	0.89						
775	1427	9.0	130.5	0.90	9.0	130.5	0.90				9.0	130.5	0.90	6.3	91.4	0.63						
800	1472	7.0	101.5	0.70	7.0	101.5	0.70				7.0	101.5	0.70	4.6	66.7	0.46						
816	1500.8	5.9	85.6	0.59	5.9	85.6	0.59				5.9	85.6	0.59	3.8	55.1	0.38						

*1: 각 열에 나타나는 psi/MPa 수치는 계산된 값입니다.
 *2: 450°C (842°F)를 넘어선 온도는 허용 불가능 합니다.
 *3: SDPV는 25Cr-7Ni-4Mo-N 주물에 비교할만한 KITZ Super Duplex 스테인리스 강에 등록된 트레이드 마크 입니다. 등급은 300°C (572°F)가 끝입니다.
 *4: SASV는 21Cr-25Ni-6.5Mo-N 주물에 비교할만한 KITZ Super Austenite 스테인리스 강에 등록된 트레이드 마크 입니다.

Class			900																			
Service Temperature		CF8 [SCS13A]			CF8M [SCS14A]			CF3M-CF3 [SCS16A-SCS19A]			CF8C [SCS21]			CK20 [SCS18]			CN7M [SCS23]			SDPV*3 SASV*4		
°C	°F	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1	bar	psi*1	MPa*1
-29 to 38	-20.2 to 100.4	148.9	2159.6	14.89	148.9	2159.6	14.89	124.1	1799.9	12.41	148.9	2159.6	14.89	139.0	2016.0	13.90	124.1	1799.9	12.41	155.1	2249.5	15.51
50	122	143.5	2081.3	14.35	144.3	2092.9	14.43	120.1	1741.9	12.01	146.3	2121.9	14.63	133.4	1934.8	13.34	120.4	1746.3	12.04	155.1	2249.5	15.51
100	212	122.6	1778.2	12.26	126.6	1836.2	12.66	104.4	1514.2	10.44	135.9	1971.1	13.59	112.6	1633.1	11.26	105.9	1535.9	10.59	152.0	2204.6	15.20
150	302	111.0	1609.9	11.10	115.5	1675.2	11.55	94.2	1366.3	9.42	127.4	1847.8	12.74	104.7	1518.5	10.47	96.1	1393.8	9.61	137.8	1998.6	13.78
200	392	103.4	1499.7	10.34	107.0	1551.9	10.70	87.5	1269.1	8.75	119.8	1737.6	11.98	100.6	1459.1	10.06	88.1	1277.8	8.81	128.0	1856.5	12.80
250	482	97.5	1414.1	9.75	100.1	1451.8	10.01	82.4	1195.1	8.24	113.4	1644.7	11.34	97.8	1418.5	9.78	81.7	1185.0	8.17	121.4	1760.8	12.14
300	572	92.7	1344.5	9.27	94.9	1376.4	9.49	78.2	1134.2	7.82	108.3	1570.8	10.83	95.2	1380.8	9.52	76.1	1103.7	7.61	116.6	1691.1	11.66
325	617	90.7	1315.5	9.07	92.7	1344.5	9.27	76.4	1108.1	7.64	106.1	1538.9	10.61	93.6	1357.6	9.36	73.3	1063.1	7.33	114.5	1660.7	11.45
350	662	88.9	1289.4	8.89	91.0	1319.8	9.10	75.2	1090.7	7.52	104.3	1512.7	10.43	91.7	1330.0	9.17				112.9	1637.5	11.29
375	707	87.1	1263.3	8.71	89.6	1299.5	8.96	74.3	1077.6	7.43	102.6	1488.1	10.26	89.5	1298.1	8.95				112.1	1625.9	11.21
400	752	85.3	1237.2	8.53	88.3	1280.7	8.83	72.9	1057.3	7.29	101.7	1475.0	10.17	87.3	1266.2	8.73				109.8	1592.5	10.98
425	797	84.0	1218.3	8.40	87.4	1267.6	8.74	71.6	1038.5	7.16	100.8	1462.0	10.08	85.0	1232.8	8.50						
450*2	842*2	82.2	1192.2	8.22	86.5	1254.6	8.65	70.2	1018.2	7.02	100.4	1456.2	10.04	82.8	1200.9	8.28						
475	887	80.8	1171.9	8.08	86.0	1247.3	8.60				95.1	1379.3	9.51	80.2	1163.2	8.02						
500	932	79.5	1153.1	7.95	84.7	1228.5	8.47				84.7	1228.5	8.47	77.5	1124.0	7.75						
538	1000.4	73.3	1063.1	7.33	75.2	1090.7	7.52				75.2	1090.7	7.52	70.0	1015.3	7.00						
550	1022	70.7	1025.4	7.07	74.8	1084.9	7.48				74.8	1084.9	7.48	68.8	997.9	6.88						
575	1067	62.5	906.5	6.25	71.8	1041.4	7.18				71.8	1041.4	7.18	65.0	942.7	6.50						
600	1112	50.6	733.9	5.06	59.7	865.9	5.97				64.2	931.1	6.42	58.2	844.1	5.82						
625	1157	41.4	600.5	4.14	47.4	687.5	4.74				54.9	796.3	5.49	50.5	732.4	5.05						
650	1202	33.8	490.2	3.38	38.0	551.1	3.80				42.5	616.4	4.25	42.2	612.1	4.22						
675	1247	28.0	406.1	2.80	31.0	449.6	3.10				37.6	545.3	3.76	34.6	501.8	3.46						
700	1292	24.1	349.5	2.41	25.1	364.0	2.51				29.8	432.2	2.98	26.3	381.4	2.63						
725	1337	20.3	294.4	2.03	21.0	304.6	2.10				23.2	336.5	2.32	19.0	275.6	1.90						
750	1382	17.3	250.9	1.73	17.6	255.3	1.76				17.6	255.3	1.76	13.4	194.4	1.34						
775	1427	13.7	198.7	1.37	13.7	198.7	1.37				13.7	198.7	1.37	9.4	136.3	0.94						
800	1472	10.5	152.3	1.05	10.5	152.3	1.05				10.5	152.3	1.05	6.9	100.1	0.69						
816	1500.8	8.6	124.7	0.86	8.6	124.7	0.86				8.6	124.7	0.86	5.7	82.7	0.57						

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 *3: SDPV는 25Cr-7Ni-4Mo-N 주물에 비교할만한 KITZ Super Duplex 스테인리스 강에 등록된 트레이드 마크 입니다. 등급은 300°C (572°F)가 끝입니다.
 *4: SASV는 21Cr-25Ni-6.5Mo-N 주물에 비교할만한 KITZ Super Austenite 스테인리스 강에 등록된 트레이드 마크 입니다.

Class		1500																				
Service Temperature		CF8** [SCS13A]			CF8M** [SCS14A]			CF3M-CF3** [SCS16A-SCS19A]			CF8C** [SCS21]			CK20** [SCS18]			CN7M [SCS23]			SDPV** SASV**		
°C	°F	bar	psi	MPa	bar	psi*	MPa*	bar	psi*	MPa*	bar	psi*	MPa*	bar	psi*	MPa*	bar	psi*	MPa*	bar	psi*	MPa*
-29 to 38	-20.2 to 100.4	248.2	3599.8	24.82	248.2	3599.8	24.82	206.8	2999.4	20.68	248.2	3599.8	24.82	231.7	3360.5	23.17	206.8	2999.4	20.68	258.6	3750.7	25.86
50	122	239.1	3467.9	23.91	240.6	3489.6	24.06	200.1	2902.2	20.01	243.8	3536.0	24.38	222.4	3225.6	22.24	200.7	2910.9	20.07	258.6	3750.7	25.86
100	212	204.3	2963.1	20.43	211.0	3060.3	21.1	173.9	2522.2	17.39	226.5	3285.1	22.65	187.7	2722.4	18.77	176.5	2559.9	17.65	253.3	3673.8	25.33
150	302	185.0	2683.2	18.50	192.5	2792.0	19.25	157.0	2277.1	15.7	212.4	3080.6	21.24	174.4	2529.5	17.44	160.2	2323.5	16.02	229.6	3330.1	22.96
200	392	172.4	2500.5	17.24	178.3	2586.0	17.83	145.8	2114.7	14.58	199.7	2896.4	19.97	167.7	2432.3	16.77	146.8	2129.2	14.68	213.3	3093.7	21.33
250	482	162.4	2355.4	16.24	166.9	2420.7	16.69	137.3	1991.4	13.73	189.1	2742.7	18.91	163.1	2365.6	16.31	136.1	1974.0	13.61	202.3	2934.1	20.23
300	572	154.6	2242.3	15.46	158.1	2293.1	15.81	130.3	1889.8	13.03	180.4	2616.5	18.04	158.6	2300.3	15.86	126.9	1840.5	12.69	194.3	2818.1	19.43
325	617	151.1	2191.5	15.11	154.4	2239.4	15.44	127.4	1847.8	12.74	176.8	2564.3	17.68	156.1	2264.0	15.61	122.1	1770.9	12.21	190.8	2767.3	19.08
350	662	148.1	2148.0	14.81	151.6	2198.8	15.16	125.4	1818.8	12.54	173.8	2520.8	17.38	152.9	2217.6	15.29				188.2	2729.6	18.82
375	707	145.2	2106.0	14.52	149.4	2166.9	14.94	123.8	1795.6	12.38	171.0	2480.1	17.1	149.2	2164.0	14.92				186.8	2709.3	18.68
400	752	142.2	2062.4	14.22	147.2	2135.0	14.72	121.5	1762.2	12.15	169.5	2458.4	16.95	145.5	2110.3	14.55				183.1	2655.6	18.31
425	797	140.0	2030.5	14.00	145.7	2113.2	14.57	119.3	1730.3	11.93	168.1	2438.1	16.81	141.7	2055.2	14.17						
450	842	137.0	1987.0	13.70	144.2	2091.4	14.42	117.1	1698.4	11.71	167.3	2426.5	16.73	138.0	2001.5	13.8						
475	887	134.7	1953.7	13.47	143.4	2079.8	14.34				158.2	2294.5	15.82	133.7	1939.2	13.37						
500	932	132.4	1920.3	13.24	140.9	2043.6	14.09				140.9	2043.6	14.09	129.2	1873.9	12.92						
538	1000.4	122.1	1770.9	12.21	125.5	1820.2	12.55				125.5	1820.2	12.55	116.6	1691.1	11.66						
550	1022	117.8	1708.5	11.78	124.9	1811.5	12.49				124.9	1811.5	12.49	114.7	1663.6	11.47						
575	1067	104.2	1511.3	10.42	119.7	1736.1	11.97				119.7	1736.1	11.97	108.3	1570.8	10.83						
600	1112	84.4	1224.1	8.44	99.5	1443.1	9.95				107.0	1551.9	10.7	97.1	1408.3	9.71						
625	1157	68.9	999.3	6.89	79.1	1147.3	7.91				91.2	1322.7	9.12	84.1	1219.8	8.41						
650	1202	56.3	816.6	5.63	63.3	918.1	6.33				70.7	1025.4	7.07	70.4	1021.1	7.04						
675	1247	46.7	677.3	4.67	51.6	748.4	5.16				62.7	909.4	6.27	57.6	835.4	5.76						
700	1292	40.1	581.6	4.01	41.9	607.7	4.19				49.7	720.8	4.97	43.8	635.3	4.38						
725	1337	33.8	490.2	3.38	34.9	506.2	3.49				38.6	559.8	3.86	31.7	459.8	3.17						
750	1382	28.9	419.2	2.89	29.3	425.0	2.93				29.6	429.3	2.96	22.3	323.4	2.23						
775	1427	22.8	330.7	2.28	22.8	330.7	2.28				22.8	330.7	2.28	15.7	227.7	1.57						
800	1472	17.4	252.4	1.74	17.4	252.4	1.74				17.4	252.4	1.74	11.4	165.3	1.14						
816	1500.8	14.1	204.5	1.41	14.1	204.5	1.41				14.1	204.5	1.41	9.5	137.8	0.95						

*1: 각 열에 나타나는 psi/MPa 수치는 계산된 값입니다.

*2: Flanged End Valve 등급은 538°C (1000°F)가 끝입니다.

*3: 425°C를 넘어선 온도는 허용 불가능 합니다.

*4: SDPV는 25Cr-7Ni-4Mo-N 주물에 비교할만한 KITZ Super Duplex 스테인리스 강에 등록된 트레이드 마크입니다. 등급은 300°C (572°F)가 끝입니다.

*5: SASV는 21Cr-25Ni-6.5Mo-N 주물에 비교할만한 KITZ Super Austenite 스테인리스 강에 등록된 트레이드 마크입니다.

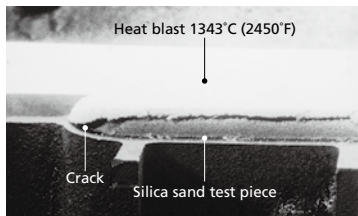
Valve Closure Test Pressures

Series	B (KITZ Std.)		
	Hydrostatic		Air
	Shell	Seat	Seat
5K	1.05	0.7	0.6
10K	2.10	1.4	
20K	3.00	2.0	

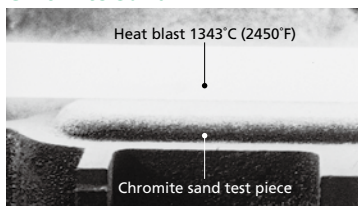
Note: Check 밸브의 시험 압력은 JIS B2003을 따릅니다.

스테인리스 강 밸브 주조에 사용되는 모래주틀(Sand Molds)

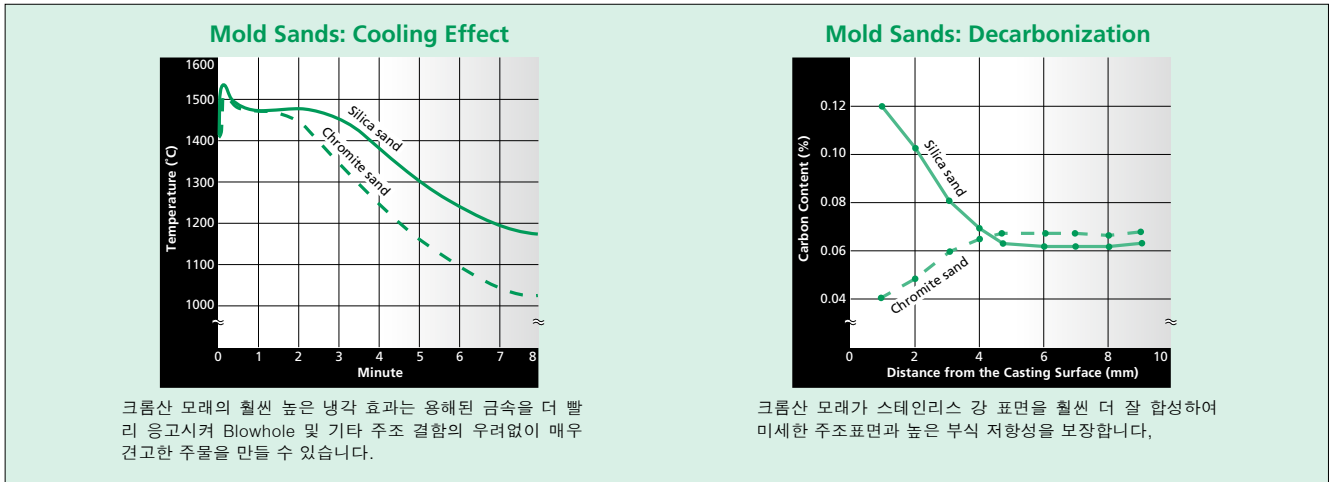
Silica Sand



Chromite Sand



타 경쟁사들과 달리 KITZ Corporation의 나가사키 스테인리스 및 고 합금강 제조공장에서는 100% 규사(Silica Sand)로 만들어진 주물틀(Casting Mold)보다는 크롬산모래(Chromite Sand)와 규사를 혼합하여 만든 주물틀을 사용합니다. 크롬산 모래의 비중은 규사의 두배이며, 주물을 만드는 동안 1.5MPa (210psi)의 표면압력을 가하면 주조공형이 견고하고 단단해지며 균일한 구조를 높은 정밀도로 구현할 수 있습니다.



KITZ 저방출 서비스(Low Emission Service) 밸브

미국의 경우, 1990 청정환경법(The Federal Clean Air Act)이 극적으로 개정되어 공장장비에서 비산배출(Fugitive Emission) 또는 유독가스 및 화학물질의 누출 수준을 95% 감소시키는 새로운 환경보호 정책을 실현했습니다. 1994년 4월에 공포된 새로운 법은 환경보호국이 지정한 유독가스를 취급하는 모든 공장에서 500ppm을 초과하는 누출이 있는지 모니터링 해야하고, 파손이 있는 부분은 즉각 수리 조치가 취해졌습니다. 캘리포니아는 1997년 이후 북 캘리포니아 지역의 환경오염을 99% 감소시키기 위해 100ppm의 최대 누출량만을 허용하는 방법으로 연방법보다 강화하였습니다.

KITZ사의 저 배출 밸브(Low Emission Valve)는 수년의 시행착오 끝에 만들어진 결과이며, 최대 100ppm의 허용누출량을 충족시키기 위하여 설계되고 제조, 공정되었으며 검수되었습니다. 해당 사양은 KITZ Class 150, 300, 600 그리고 스테인리스 및 고 합금강 밸브의 A와 C시리즈이며 북미에서 사용가능한 표준 사양 입니다. 표준밸브를 저배출 성능으로 향상시키기 위한 주요 설계사항은 아래와 같습니다.

Gland packing

- A 시리즈 : PTFE 또는 Flexible Graphite Packing중 선택
 - (1) Spinned Carbon Core와 함께 딸은 PTFE 섬유 패킹
 - (2) Class 300과 600의 경우 4개의 Dieformed Flexible Graphite ring과 순수 탄소 Spacer Bush로 만들어진 2개의 딸은 모양의 Flexible Graphite wiper ring으로 구성된 KITZ기준 제품인 "SEALEVER"
- HA 시리즈
 - (1) Spinned Carbon Core와 함께 딸은 PTFE 섬유 패킹
 - (2) Class 300과 600의 경우 4개의 Dieformed Flexible Graphite ring과 순수 탄소 Spacer Bush로 만들어진 2개의 딸은 모양의 Flexible Graphite wiper ring으로 구성된 KITZ기준 제품인 "SEALEVER"
- C 시리즈: Class 300과 600의 경우 KITZ의 "SEALEVER" Graphite Packing은 순수 탄소 Spacer Bush가 포함되어 있습니다,

*US Patent No.5522603 & 5573253. Other patents registered or pending worldwide.

Bonnet gaskets and check valve cover gaskets

- A 시리즈: PTFE 또는 Flexible Graphite Gasket중 선택
 - (1) Class 150: 강화된 PTFE, Class 300: Inner Ring과 함께 나선형 Wound를 채운 PTFE, Class 600: 나선형 Wound를 채운 PTFE
 - (2) Class 150: 침투 방지 장벽으로 디자인된 Flexible Graphite Sheet에 삽입되는 S/S
Class 300: Inner Ring과 함께 나선형 Wound를 채운 PTFE / Class600: 나선형 Wound를 채운 PTFE
- HA 시리즈: Choice of PTFE or flexible graphite gasket.
 - (1) Class 150: 강화된 PTFE / Class 300: Inner Ring과 함께 나선형 Wound를 채운 PTFE
 - (2) Class 150: 침투 방지 장벽으로 디자인된 Flexible Graphite Sheet에 삽입되는 S/S, 물결모양의 Metal Flexible Graphite (6B 이상)
Class 300: Inner Ring이 포함된 Spiral Wound Flexible Graphite
- Series C:
 - Class 150: Low Emission Service를 위한 스테인리스 강 Insert와 침투 방지 장벽이 있는 Flexible Graphite Sheet
 - Class 300: 스테인리스 강 Inner Ring이 포함된 Spiral Wound(Flexible Graphite Filler와 스테인리스 강 Hoop)
 - Class 600: Ring joint metal gasket

Diametrical interface clearance

- 20 to 32 mils (0.5 to 0.8 mm): Stem to gland
- 20 to 32 mils (0.5 to 0.8 mm): Stem to bonnet bushing (Series C)
- 16 to 28 mils (0.4 to 0.7 mm): Stem to backseat (Series A, HA)
- 4 to 12 mils (0.1 to 0.3 mm): Gland to stuffing box

Stem

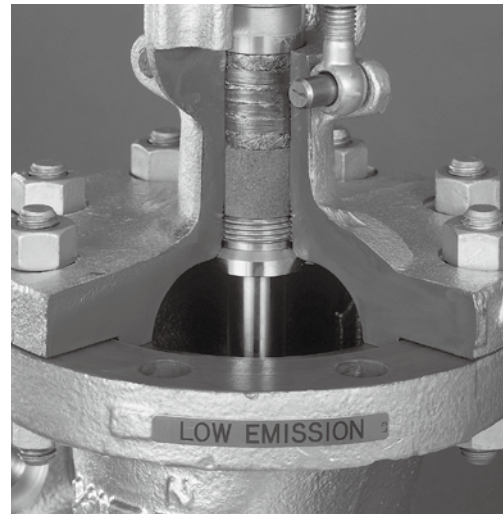
16~32 RMS의 표면 마감입니다. 직선성(Straightness)과 곡선성(Roundness)은 KITZ의 설계와 제조 기준에 따라 정확하게 조정됩니다.

Stuffing box

최대 125 RMS의 표면 마감입니다. 원통도(Cylindricity)와 수직도(Verticality)는 KITZ의 설계와 제조 기준에 따라 정확하게 조정됩니다.

Product identification

주황색으로 “LOW EMISSION”이라고 적힌 스테인리스 강 ID플레이트는 Bonnet Flange에 용접합니다.



KITZ Corporation의 검수 및 품질보증 정책

KITZ사의 스테인리스 및 합금강 밸브의 모든 부품들은 API 598 또는 BS 6755에 따라 100% 압력테스트를 실시합니다. 요구에 따라 제조사의 재질테스트 결과와 검수 인증서를 제공할 수도 있습니다. 서비스가 제공된 이후 12개월의 보증기간이 유효하지만 KITZ Corporation 자사 공장에서 출하 후 18개월이 지난 제품에 대해서는 유효하지 않습니다.

KITZ Corporation에서 실시하는 다양한 테스트와 검수는 아래와 같습니다. 별도의 규정이 없는 한, KITZ사의 모든 스테인리스 및 합금강 밸브는 하위 테스트 및 검수방법과 평가기준에 준거합니다.

Test/Inspection Item	Method	Evaluation
Chemical composition analysis		Relevant ASTM Stds.
Mechanical property test	ASTM A370	Relevant ASTM Stds.
Pressure tests	API 598 or BS 6755 Part 1	API 598
Radiographic inspection	ASTM E186/280/446	ASME B16.34
Wet magnetic particle inspection	ASTM E709	
Liquid penetrant inspection	ASTM E165	
Low temperature impact test	ASTM E23	ASTM A352
Dimensional inspection		Relevant Valve Stds.
Visual inspection		MSS SP-55
Emission test*	EPA Method 21 and KITZ Std.	KITZ Std.

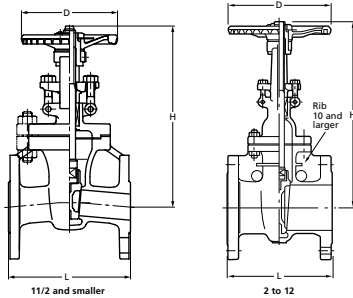
*Low emission service valves에 적용 가능합니다.

Class 150 GATE VALVE

Pressure-Temperature Rating: ASME B16.34

150UMA

150UMAM



Materials

Parts	150UMA	150UMAM
Body	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc	CF8	CF8M
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke sleeve	Ductile Ni-resist	
Yoke*	Ductile iron	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Bonnet bolt/nut	B8/8	
Grease nipple**	Stainless steel	
Name plate	Aluminum	

*Size 10" 이상의 경우 Yoke는 Bonnet에서 분리됩니다.
 **Size 10" 이상의 경우입니다.
 Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 • 모든 크기에 Flexible Wedge가 적용됩니다.

Items

Face to face dimensions	ASME B16.10 Class 150
End flange dimensions	ASME B16.5 Class 150
Wall thickness	ASME B16.34 Class 150

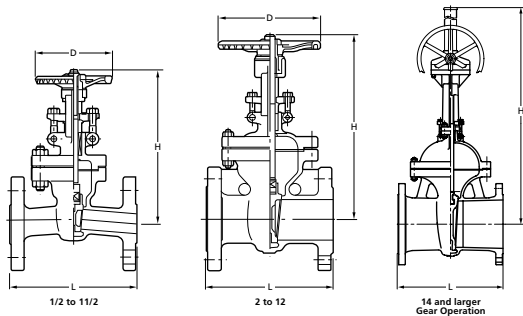
Nominal Size	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	
	15	20	25	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	
L	in.	4.25	4.61	5.00	6.50	7.00	7.50	8.00	9.00	10.0	10.5	11.5	13.0	14.0	15.00	16.00	17.00	18.00	20.00
	mm	108	117	127	165	178	190	203	229	254	267	292	330	356	381	406	432	457	508
H (open)	in.	7.91	8.31	8.82	11.2	13.2	14.7	17.5	20.6	23.9	28.0	36.4	44.3	52.6	58.50	66.54	74.41	82.68	96.85
	mm	201	211	224	284	336	374	444	523	606	711	924	1126	1336	1486	1690	1890	2100	2460
D	in.	3.54	3.54	3.94	5.51	6.30	7.09	7.87	8.86	9.84	9.84	11.8	13.8	15.8	17.72	23.62	23.62	26.77	29.92
	mm	90	90	100	140	160	180	200	225	250	250	300	350	400	450	600	600	680	760

Class 300 GATE VALVE

Pressure-Temperature Rating: ASME B16.34

300UMA

300UMAM



Materials

Parts	300UMA	300UMAM
Body	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc	CF8	CF8M
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke*	Ductile iron	
Yoke sleeve	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Grease nipple**	Stainless steel	
Name plate	Aluminum	

*Size 10" 이상의 경우 Yoke는 Bonnet에서 분리됩니다.
 **Size 10" 이상의 경우입니다.
 Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 • 모든 크기에 Flexible Wedge가 적용됩니다.

Items

Face to face dimensions	ASME B16.10 Class 300
End flange dimensions	ASME B16.5 Class 300
Wall thickness	ASME B16.34 Class 300

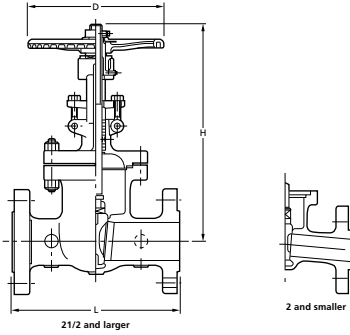
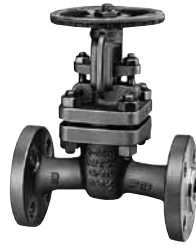
Nominal Size	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	
	15	20	25	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	
L	in.	5.51	5.98	6.50	7.48	8.50	9.49	11.1	12.0	15.0	15.9	16.5	18.0	19.8	30.00	33.00	36.00	39.00	45
	mm	140	152	165	190	216	241	283	305	381	403	419	457	502	762	838	914	991	1143
H (open)	in.	8.23	8.66	9.41	11.6	14.0	15.9	18.6	22.1	24.7	29.7	38.1	46.3	54.3	62.60	71.26	77.95	86.22	101.57
	mm	209	220	239	294	355	404	472	560	626	753	968	1177	1378	1590	1810	1980	2190	2580
D	in.	3.94	3.94	3.94	5.51	7.09	7.09	8.86	9.84	11.8	13.8	15.8	17.7	19.7	23.62	23.62	26.77	29.92	35.83
	mm	100	100	100	140	180	180	225	250	300	350	400	450	500	600	600	680	760	910

Class 600 GATE VALVE

Pressure-Temperature Rating: ASME B16.34

600UMA

600UMAM



Materials

Parts	600UMA	600UMAM
Body	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc*	CF8	CF8M
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke**	Stainless steel	
Yoke sleeve	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Grease nipple***	Stainless steel	
Thrust bearing****	Bearing steel	
Bushing***	Carbon	Carbon
Name plate	Aluminum	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 **Size 8"이상의 경우 Yoke는 Bonnet에서 분리됩니다.
 Size 2" 이상의 경우입니다. *Size 16"이상의 경우입니다.
 Note: 모든 크기에 Flexible Wedge가 적용됩니다.

Items	
Face to face dimensions	ASME B16.10 Class 600
End flange dimensions	ASME B16.5 Class 600
Wall thickness	ASME B16.34 Class 600

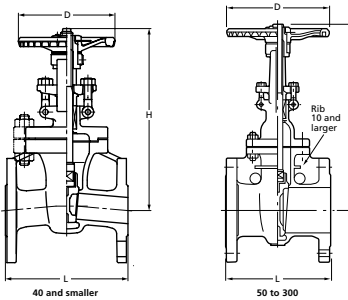
Nominal Size	1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	10	12	
	15	20	25	40	50	65	80	100	150	200	250	300	
L	in.	6.50	7.48	8.50	9.49	11.5	13.0	14.0	17.0	22.0	26.0	31.0	33.0
	mm	165	190	216	241	292	330	356	432	559	660	787	838
H (open)	in.	8.27	8.82	9.88	13.1	17.8	19.0	21.5	26.6	35.6	44.4	52.3	59.9
	mm	210	224	251	333	451	482	545	676	904	1128	1329	1521
D	in.	3.94	3.94	5.51	7.09	7.87	8.86	9.84	13.8	17.7	19.7	23.6	26.8
	mm	100	100	140	180	200	225	250	350	450	500	600	680

10K GATE VALVE

Pressure-Temperature Rating: JIS B2220

10UMA(T)

10UMAM(T)



Materials

Parts	10UMA(T)*	10UMAM(T)*
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	304SS	316SS
Disc	SCS13A	SCS14A
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke sleeve	Ductile Ni-resist	
Yoke**	Ductile iron	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Bonnet bolt/nut	B8/8	
Grease nipple***	Stainless steel	
Name plate	Aluminum	

*(T) Sufficing stands for the provision of ceramic filled PTFE gaskets
 **Size 250A 이상의 경우 Yoke는 Bonnet에서 분리됩니다.
 ***Size 250A 이상의 경우입니다.
 Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 • 모든 크기에 Flexible Wedge가 적용됩니다.

Items	
Face to face dimensions	ASME B16.10 Class 150
End flange dimensions	JIS B2220 10K
Wall thickness	ASME B16.34 Class 150

Nominal Size	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	
	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	
L	in.	4.25	4.61	5.00	5.51	6.50	7.01	7.48	7.99	9.02	10.0	10.5	11.5	13.0	14.0	15.00	16.00	17.00	18.00	20.00
	mm	108	117	127	140	165	178	190	203	229	254	267	292	330	356	381	406	432	457	508
H (open)	in.	7.91	8.31	8.82	9.45	11.2	13.2	14.7	17.5	20.6	23.9	28.0	36.4	44.3	52.6	58.50	66.54	74.41	82.68	96.85
	mm	201	211	224	240	284	336	374	444	523	606	711	924	1126	1336	1491	1692	1891	2102	2463
D	in.	3.54	3.54	3.94	3.94	5.51	6.30	7.09	7.87	8.86	9.84	9.84	11.8	13.8	15.8	17.72	23.62	23.62	26.77	29.92
	mm	90	90	100	100	140	160	180	200	225	250	250	300	350	400	450	600	600	680	760

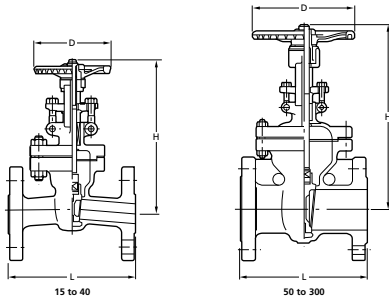
20K

GATE VALVE

Pressure-Temperature Rating: JIS B2220

20UMA

20UMAM



Materials

Parts	20UMA	20UMAM
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	304SS	316SS
Disc	SCS13A	SCS14A
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke*	Ductile iron	
Yoke sleeve	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Grease nipple**	Stainless steel	
Name plate	Aluminum	

*Size 250A 이상의 경우 Yoke는 Bonnet에서 분리됩니다.

**Size 250A 이상의 경우입니다.

Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

• 모든 크기에 Flexible Wedge가 적용됩니다.

Items

Face to face dimensions	ASME B16.10 Class 300
End flange dimensions	JIS B2220 20K
Wall thickness	ASME B16.34 Class 300

Nominal Size	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	
	15	20	25	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	
L	in.	5.51	5.98	6.50	7.48	8.50	9.49	11.1	12.0	15.0	15.9	16.5	18.0	19.8	30.00	33.00	36.00	39.00	45.00
	mm	140	152	165	190	216	241	283	305	381	403	419	457	502	762	838	914	991	1143
H (open)	in.	8.2	8.7	9.4	11.6	14.0	15.9	18.6	22.0	24.6	29.6	38.1	46.3	54.3	62.60	71.26	77.95	86.22	101.57
	mm	209	220	239	294	355	404	472	560	626	753	968	1177	1378	1590	1810	1980	2190	2580
D	in.	3.9	3.9	3.9	5.5	7.1	7.1	8.9	9.8	11.8	13.8	15.8	17.7	19.7	23.62	23.62	26.77	29.92	35.83
	mm	100	100	100	140	180	180	225	250	300	350	400	450	500	600	600	680	760	910

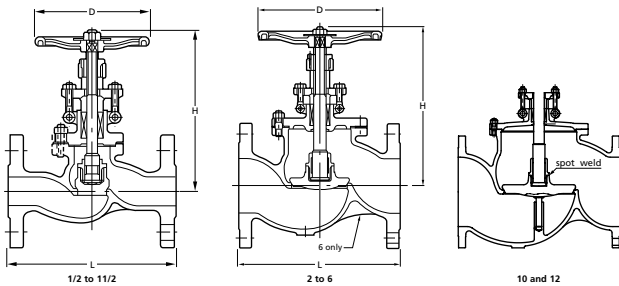
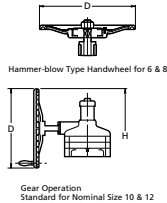
Class 150

GLOBE VALVE

Pressure-Temperature Rating: ASME B16.34

150UPA

150UPAM



Materials

Parts	150UPA	150UPAM
Body	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc	1/2 to 2	304SS
	2 1/2 to 12	CF8
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke bush	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Bonnet bolt/nut	B8/8	
Name plate	Aluminum	

Note: Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다. Hammer-blow type handwheel Size 6"와 8"의 경우입니다.

Items

Face to face dimensions	ASME B16.10 Class 150
End flange dimensions	ASME B16.5 Class 150
Wall thickness	ASME B16.34 Class 150

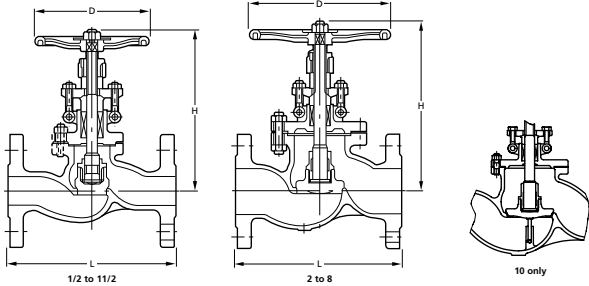
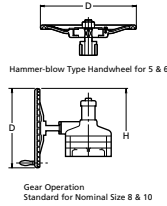
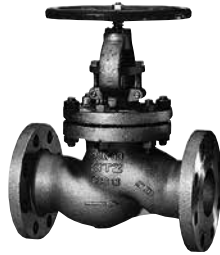
Nominal Size	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10	12
	15	20	25	40	50	65	80	100	125	150	200	250	300
L	in.	4.25	4.61	5.00	6.50	7.99	8.50	9.49	11.5	14.0	16.0	19.5	24.5
	mm	108	117	127	165	203	216	241	292	356	406	495	622
H (open)	in.	6.54	6.61	6.81	7.99	9.21	9.72	11.5	12.8	15.0	17.8	21.9	36.3
	mm	166	168	173	203	234	247	292	324	381	452	556	923
D	in.	3.54	3.54	3.94	5.51	6.30	7.09	7.87	8.86	9.84	13.8	15.8	19.7
	mm	90	90	100	140	160	180	200	225	250	350	400	500

Class 300 GLOBE VALVE

Pressure-Temperature Rating: ASME B16.34

300UPA

300UPAM



Nominal Size	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10
	15	20	25	40	50	65	80	100	125	150	200	250
L	in.	5.99	7.01	7.99	9.02	10.5	11.5	12.5	14.0	15.8	17.5	24.5
	mm	152	178	203	229	267	292	318	356	400	444	622
H (open)	in.	7.24	7.17	7.28	9.21	11.3	11.6	13.4	15.6	19.4	22.2	41.3
	mm	184	182	185	234	286	295	341	396	492	563	1048
D	in.	3.94	3.94	3.94	6.30	7.09	7.87	9.84	11.8	13.8	15.8	23.6
	mm	100	100	100	160	180	200	250	300	350	400	600

Materials

Parts	300UPA	300UPAM
Body	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc	1/2 to 1 1/2 2 to 10	304SS CF8 CF8M
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke bush	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Name plate	Aluminum	

Note: Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다. Hammer-blow type handwheel Size 5"와 6"의 경우입니다.

Items

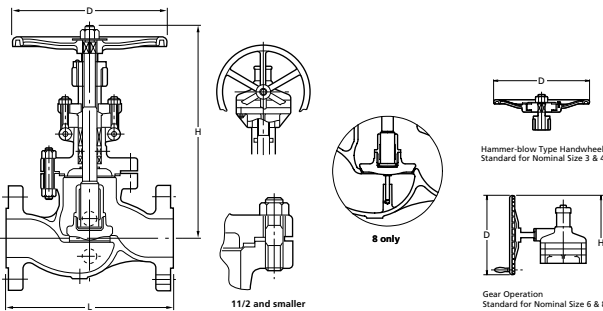
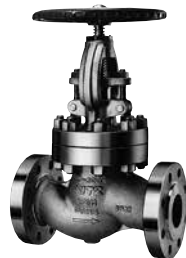
Face to face dimensions	ASME B16.10 Class 300
End flange dimensions	ASME B16.5 Class 300
Wall thickness	ASME B16.34 Class 300

Class 600 GLOBE VALVE

Pressure-Temperature Rating: ASME B16.34

600UPA

600UPAM



Nominal Size	1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	6*	8	8*
	15	20	25	40	50	65	80	100	150	150	200	200
L	in.	6.50	7.48	8.50	9.49	11.5	13.0	14.0	17.0	22.0	26.0	26.0
	mm	165	190	216	241	292	330	356	432	559	660	660
H (open)	in.	8.35	8.23	9.65	11.1	14.7	16.2	19.3	23.0	39.6	46.1	34.5
	mm	212	209	245	282	373	411	491	584	1006	742	875
D	in.	4.72	4.72	6.30	7.87	8.86	9.84	13.8	15.8	19.7	23.6	23.6
	mm	120	120	160	200	225	250	350	400	500	600	600

Materials

Parts	600UPA	600UPAM
Body	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc*	1/2 to 1 1/2 2 to 8	304SS CF8 CF8M
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke bush	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Bonnet bolt/nut	B8/8	
Bushing**	Carbon	Carbon
Gland bolt pin	Stainless steel	
Name plate	Aluminum	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다. **Size 2" 이상의 경우입니다. Hammer-blow type handwheel Size 3"와 4"의 경우입니다.

Items

Face to face dimensions	ASME B16.10 Class 600
End flange dimensions	ASME B16.5 Class 600
Wall thickness	ASME B16.34 Class 600

*Hammer-blow type handwheel을 공칭 압력(Nominal Pressure)보다 낮은 최대 서비스 압력에서 사용하는것은 가능합니다.

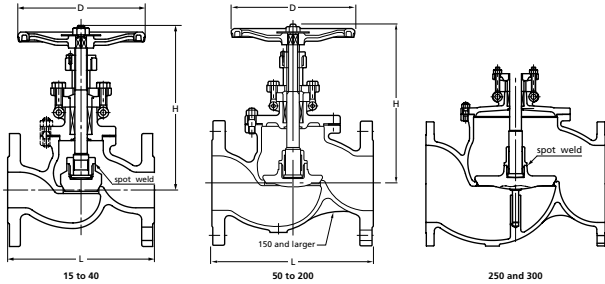
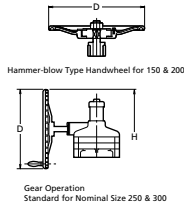
10K

GLOBE VALVE

Pressure-Temperature Rating: JIS B2220

10UPA(T)

10UPAM(T)



Materials

Parts	10UPA(T)*	10UPAM(T)*
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	304SS	316SS
Disc	1/2 to 2 2 1/2 to 12	304SS 316SS
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke bush	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Bonnet bolt/nut	B8/8	
Name plate	Aluminum	

*접미사 (T)는 Ceramic filled PTFE gaskets의 제공을 나타냅니다.
 Note: Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 Hammer-blow type handwheel Size 150A와 200A의 경우입니다.

Items	
Face to face dimensions	ASME B16.10
End flange dimensions	JIS B2220
Wall thickness	ASME B16.34 Class 150

Nominal Size	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	
	15	20	25	32	40	50	65	80	100	125	150	200	250	300	
L	in.	4.25	4.61	5.00	5.51	6.50	7.99	8.50	9.49	11.5	14.0	16.0	19.5	24.5	27.5
	mm	108	117	127	140	165	203	216	241	292	356	406	495	622	698
H (open)	in.	6.54	6.61	6.81	7.52	7.99	9.21	9.72	11.5	12.8	15.0	17.8	21.9	36.3	39.9
	mm	166	168	173	191	203	234	247	292	324	381	452	556	923	1013
D	in.	3.54	3.54	3.94	4.72	5.51	6.30	7.09	7.87	8.86	9.84	13.8	15.8	19.7	19.7
	mm	90	90	100	120	140	160	180	200	225	250	350	400	500	500

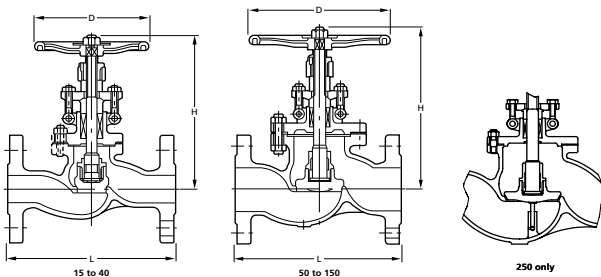
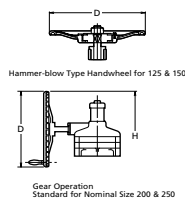
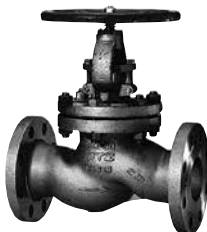
20K

GLOBE VALVE

Pressure-Temperature Rating: JIS B2220

20UPA

20UPAM



Materials

Parts	20UPA	20UPAM
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	304SS	316SS
Disc	1/2 to 1 1/2 2 to 10	304SS 316SS
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke bush	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Name plate	Aluminum	

Note: Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 Hammer-blow type handwheel Size 125A와 150A의 경우입니다.

Items	
Face to face dimensions	ASME B16.10 Class 300
End flange dimensions	JIS B2220 20K
Wall thickness	ASME B16.34 Class 300

Nominal Size	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10	
	15	20	25	40	50	65	80	100	125	150	200	250	
L	in.	5.98	7.01	7.99	9.02	10.5	11.5	12.5	14.0	15.8	17.5	22.0	24.5
	mm	152	178	203	229	267	292	318	356	400	444	559	622
H (open)	in.	7.24	7.17	7.28	9.21	11.3	11.6	13.4	15.6	19.4	22.2	34.4	41.3
	mm	184	182	185	234	286	295	341	396	492	563	874	1048
D	in.	3.94	3.94	3.94	6.30	7.09	7.87	9.84	11.8	13.8	15.8	19.7	23.6
	mm	100	100	100	160	180	200	250	300	350	400	500	600

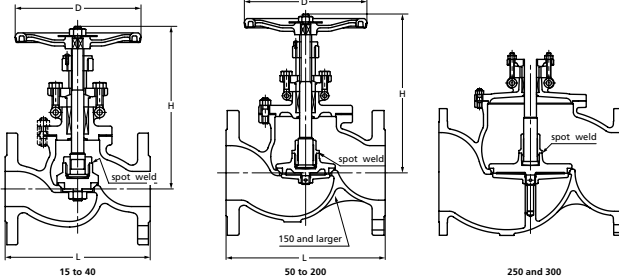
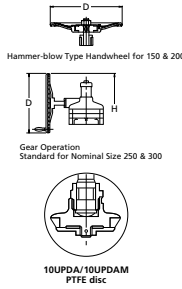
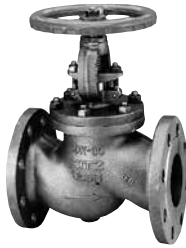
10K

SOFT SEATED GLOBE VALVE

Pressure-Temperature Rating: JIS B2220

10UPDA

10UPDAM



Materials

Parts	10UPDA	10UPDAM
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	304SS	316SS
Disc	PTFE	PTFE
Disc holder	304SS	316SS
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke bush	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Bonnet bolt/nut	B8/8	
Name plate	Aluminum	

Note: Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다. Hammer-blow type handwheel Size 150A와 200A의 경우입니다.

Items

Face to face dimensions	ASME B16.10 Class 150
End flange dimensions	JIS B2220 10K
Wall thickness	ASME B16.34 Class 150

Nominal Size	Nominal Size														
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	
L	in.	4.25	4.61	5.00	5.51	6.50	7.99	8.50	9.49	11.5	14.0	16.0	19.5	24.5	27.5
	mm	108	117	127	140	165	203	216	241	292	356	406	495	622	698
H (open)	in.	6.54	6.61	6.81	7.52	7.99	9.21	9.72	11.5	12.8	15.0	17.8	21.9	36.3	39.9
	mm	166	168	173	191	203	234	247	292	324	381	452	556	923	1013
D	in.	3.54	3.54	3.94	4.72	5.51	6.30	7.09	7.87	8.86	9.84	13.8	15.8	19.7	19.7
	mm	90	90	100	120	140	160	180	200	225	250	350	400	500	500

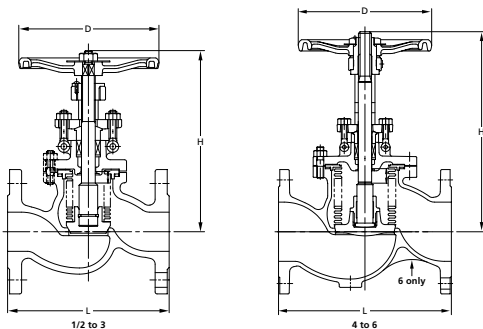
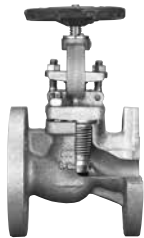
Class 150

BELLOWS SEAL GLOBE VALVE

Pressure-Temperature Rating: ASME B16.34

150UPAW

150UPAWM



Materials

Parts	150UPAW	150UPAWM
Body	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	
Disc	316SS or CF8M*	
Gland	304SS	
Gland packing	Flexible graphite	
Handwheel	Ductile iron	
Name plate	Aluminum	
Gasket	Flexible graphite	
Packing washer	304SS	
Bellows holder	316SS	
Bellows	316LSS	
Bonnet bolt/nut	B8/8	
Gland bolt/nut	Stainless steel	
Yoke sleeve	Ductile Ni-resist	

*Soft seat가 가능합니다.

Items

Face to face dimensions	ASME B16.10 Class 150
End flange dimensions	ASME B16.5 Class 150
Wall thickness	ASME B16.34 Class 150

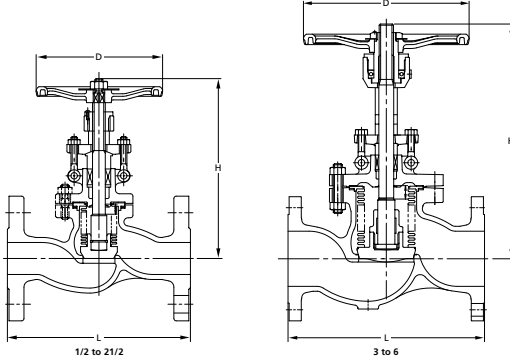
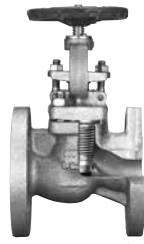
Nominal Size	Nominal Size										
	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	
L	in.	4.25	4.61	5.00	6.50	7.99	8.50	9.49	11.5	14.0	16.0
	mm	108	117	127	165	203	216	241	292	356	406
H (open)	in.	6.54	6.54	6.65	7.91	9.09	9.61	11.1	14.3	16.7	19.0
	mm	166	166	169	201	231	244	283	363	425	482
D	in.	3.54	3.54	3.94	5.51	6.30	7.09	7.87	8.86	9.84	13.8
	mm	90	90	100	140	160	180	200	225	250	350

Class 300 BELLOWS SEAL GLOBE VALVE

Pressure-Temperature Rating: ASME B16.34

300UPAW

300UPAWM



Materials

Parts	300UPAW	300UPAWM
Body	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	
Disc	316SS or CF8M*	
Gland	304SS	
Gland packing	Flexible graphite	
Handwheel	Ductile iron	
Name plate	Aluminum	
Gasket	Flexible graphite	
Packing washer	304SS	
Bellows holder	316SS	
Bellows	316LSS	
Bonnet bolt/nut	B8/8	
Gland bolt/nut	Stainless steel	
Yoke sleeve**	Ductile Ni-resist	

*Soft seat가 가능합니다.
**Size 3" 이상입니다.

Items

Face to face dimensions	ASME B16.10 Class 300
End flange dimensions	ASME B16.5 Class 300
Wall thickness	ASME B16.34 Class 300

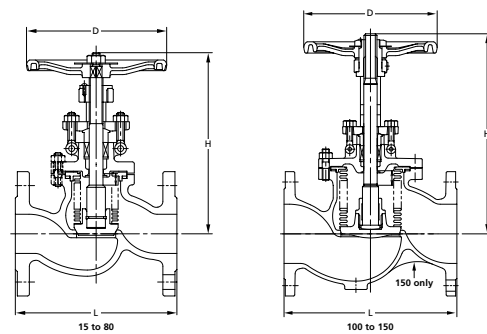
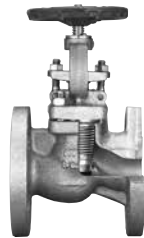
Nominal Size											
	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	
L	in.	5.99	7.01	7.99	9.02	10.5	11.5	12.5	14.0	15.8	17.5
	mm	152	178	203	229	267	292	318	356	400	444
H (open)	in.	7.24	7.24	7.28	9.21	11.3	11.5	15.8	17.8	21.2	23.9
	mm	184	184	185	234	287	293	402	453	538	606
D	in.	3.94	3.94	3.94	6.30	7.09	7.87	9.84	11.8	13.8	15.8
	mm	100	100	100	160	180	200	250	300	350	400

10K BELLOWS SEAL GLOBE VALVE

Pressure-Temperature Rating: JIS B2220

10UPAW

10UPAWM



Materials

Parts	10UPAW	10UPAWM
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	304SS	
Disc	316SS or SCS14A*	
Gland	304SS	
Gland packing	Flexible graphite	
Handwheel	Ductile iron	
Name plate	Aluminum	
Gasket	Flexible graphite	
Packing washer	304SS	
Bellows holder	316SS	
Bellows	316LSS	
Bonnet bolt/nut	B8/8	
Gland bolt/nut	Stainless steel	
Yoke sleeve**	Ductile Ni-resist	

*Soft seat가 가능합니다.
**Size 100A 이상입니다.

Items

Face to face dimensions Class 150	ASME B16.10 Class 150
End flange dimensions 10K	JIS B2220 10K
Wall thickness Class 150	ASME B16.34 Class 150

Nominal Size											
	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	
L	in.	4.25	4.61	5.00	6.50	7.99	8.50	9.49	11.5	14.0	16.0
	mm	108	117	127	165	203	216	241	292	356	406
H (open)	in.	6.54	6.54	6.65	7.91	9.09	9.61	11.1	14.3	16.7	19.0
	mm	166	166	169	201	231	244	283	363	425	482
D	in.	3.54	3.54	3.94	5.51	6.30	7.09	7.87	8.86	9.84	13.8
	mm	90	90	100	140	160	180	200	225	250	350

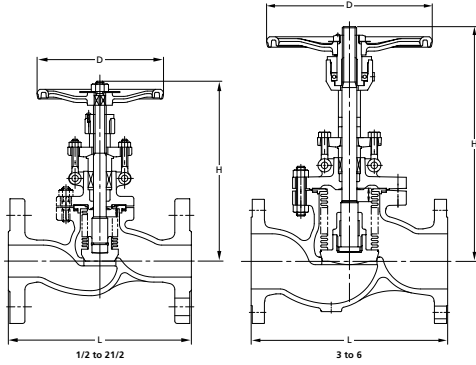
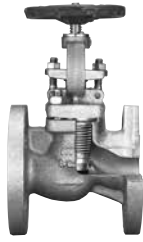
20K

BELLOWS SEAL GLOBE VALVE

Pressure-Temperature Rating: JIS B2220

20UPAW

20UPAWM



Materials

Parts	20UPAW	20UPAWM
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	304SS	
Disc	316SS or SCS14A*	
Gland	304SS	
Gland packing	Flexible graphite	
Handwheel	Ductile iron	
Name plate	Aluminum	
Gasket	Flexible graphite	
Packing washer	304SS	
Bellows holder	316SS	
Bellows	316LSS	
Bonnet bolt/nut	B8/8	
Gland bolt/nut	Stainless steel	
Yoke sleeve**	Ductile Ni-resist	

*Soft seat가 가능합니다.

**Size 80A 이상입니다.

Items

Face to face dimensions	ASME B16.10 Class 300
End flange dimensions	JIS B2220 20K
Wall thickness	ASME B16.34 Class 300

Nominal Size	1/2		3/4		1		1 1/2		2		2 1/2		3		4		5		6		
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	
L	in.	5.98	7.01	7.99	9.02	10.5	11.5	12.5	14.0	15.8	17.5										
	mm	152	178	203	229	267	292	318	356	400	444										
H (open)	in.	7.24	7.24	7.28	9.21	11.3	11.5	15.8	17.8	21.2	23.9										
	mm	184	184	185	234	287	293	402	453	538	606										
D	in.	3.94	3.94	3.94	6.30	7.09	7.87	9.84	11.8	13.8	15.8										
	mm	100	100	100	160	180	200	250	300	350	400										

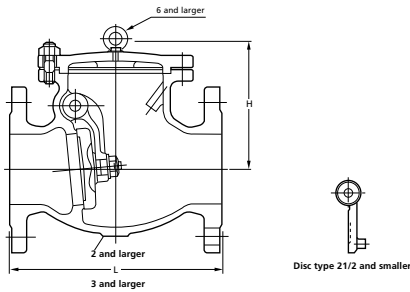
Class 150

SWING CHECK VALVE

Pressure-Temperature Rating: ASME B16.34

150UOA

150UOAM



Materials

Parts	150UOA	150UOAM
Body	CF8	CF8M
Cover	CF8	CF8M
Disc	CF8	CF8M
Disc nut*	304SS	316SS
Gasket	Refer to Page 10	
Hinge pin	304SS	316SS
Plug	304SS	316SS
Arm*	CF8	CF8M
Washer*	316SS, 316LSS (3 to 6)	
Cover bolt/nut	B8/8	
Split pin*	316LSS	
Name plate	Aluminum	

*Size 3" 이상입니다.

Note: Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items

Face to face dimensions	ASME B16.10 Class 150
End flange dimensions	ASME B16.5 Class 150
Wall thickness	ASME B16.34 Class 150

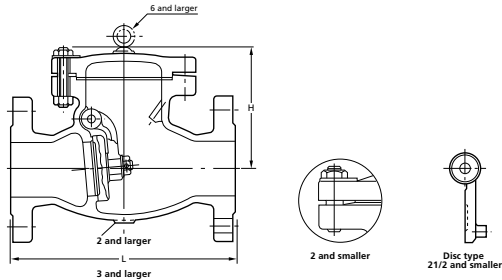
Nominal Size	1 1/2		2		2 1/2		3		4		5		6		8		10		12		14		16		
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	
L	in.	6.50	7.99	8.50	9.49	11.5	13.0	14.0	19.5	24.5	27.5	31.0	34.0												
	mm	165	203	216	241	292	330	356	495	622	698	787	864												
H	in.	4.37	4.76	5.28	5.83	6.38	7.56	8.54	10.4	11.3	12.4	14.3	16.0												
	mm	111	121	134	148	162	192	217	264	287	315	363	407												

Class 300 SWING CHECK VALVE

Pressure-Temperature Rating: ASME B16.34

300UOA

300UOAM



Materials

Parts	300UOA	300UOAM
Body	CF8	CF8M
Cover	CF8	CF8M
Disc	CF8	CF8M
Gasket	Refer to Page 10	
Disc nut*	304SS	316LSS
Hinge pin	304SS	316SS
Plug	304SS	316SS
Arm*	CF8	CF8M
Washer*	316SS, 316LSS (3 to 6)	
Cover bolt/nut	B8/8	
Split pin	316LSS	
Name plate	Aluminum	

*Size 3" 이상입니다.
Note: Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items

Face to face dimensions	ASME B16.10 Class 300
End flange dimensions	ASME B16.5 Class 300
Wall thickness	ASME B16.34 Class 300

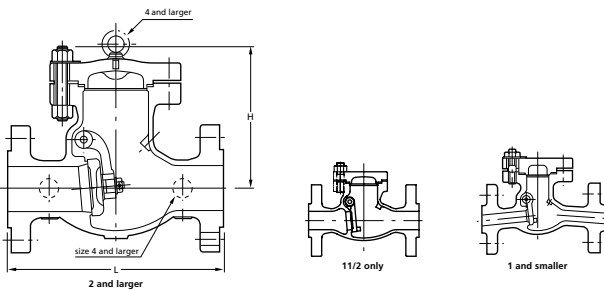
Nominal Size		1 1/2	2	2 1/2	3	4	5	6	8	10	12
			40	50	65	80	100	125	150	200	250
L	in.	9.49	10.5	11.5	12.5	14.0	15.8	17.5	21.0	24.5	28.0
	mm	241	267	292	318	356	400	444	533	622	711
H	in.	4.76	5.63	6.42	7.01	7.91	9.09	10.2	11.5	14.0	14.7
	mm	121	143	163	178	201	231	259	292	356	373

Class 600 SWING CHECK VALVE

Pressure-Temperature Rating: ASME B16.34

600UOA

600UOAM



Materials

Parts	600UOA	600UOAM
Body	CF8	CF8M
Cover	CF8	CF8M
Disc	CF8	CF8M
Gasket	Refer to Page 10	
Disc nut*	304SS	316LSS
Hinge pin	304SS	316SS
Plug	304SS	316SS
Arm*	CF8	CF8M
Washer*	316SS, 316LSS (2 to 4)	316SS, 316LSS (3 to 6)
Cover bolt/nut	B8/8	
Split pin*	316LSS	
Name plate	Aluminum	

*Size 2" 이상입니다.
Note: Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items

Face to face dimensions	ASME B16.10 Class 600
End flange dimensions	ASME B16.5 Class 600
Wall thickness	ASME B16.34 Class 600

Nominal Size		1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	10	12
			15	20	25	40	50	65	80	100	150	200	250
L	in.	6.50	7.48	8.50	9.49	11.5	13.0	14.0	17.0	22.0	26.0	31.0	33.0
	mm	165	190	216	241	292	330	356	432	559	660	787	838
H	in.	3.54	3.78	4.29	4.96	7.95	8.39	9.41	11.0	13.4	16.3	16.9	18.8
	mm	90	96	109	126	202	213	239	279	339	414	430	477

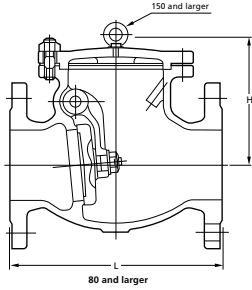
10K

SWING CHECK VALVE

Pressure-Temperature Rating: JIS B2220

10UOA(T)

10UOAM(T)



Materials

Parts	10UOA(T)*	10UOAM(T)*
Body	SCS13A	SCS14A
Cover	SCS13A	SCS14A
Disc	SCS13A	SCS14A
Disc nut**	304SS	316LSS
Gasket	Refer to Page 10	
Hinge pin	304SS	316SS
Plug	304SS	316SS
Arm**	SCS13A	SCS14A
Washer**	316SS, 316LSS (3 to 6)	
Cover bolt/nut	B8/8	
Split pin	316LSS	
Name plate	Aluminum	

*접미사 (T)는 Ceramic filled PTFE gaskets의 제공을 나타냅니다.
 **Size 80A 이상입니다.
 Note: Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items

Face to face dimensions	ASME B16.10 Class 150
End flange dimensions	JIS B2220 10K
Wall thickness	ASME B16.34 Class 150

Nominal Size	1½	2	2½	3	4	5	6	8	10	12	14	16	18	20	24
	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L	in.	6.50	7.99	8.50	9.49	11.5	13.0	14.0	19.5	24.5	27.5	31.0	34.0	38.50	51.00
	mm	165	203	216	241	292	330	356	495	622	698	787	864	978	1295
H	in.	4.37	4.76	5.28	5.83	6.38	7.56	8.54	10.39	11.3	12.4	14.3	16.0	19.88	23.43
	mm	111	121	134	148	162	192	217	264	287	315	363	407	509	594

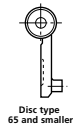
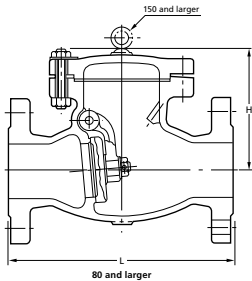
20K

SWING CHECK VALVE

Pressure-Temperature Rating: JIS B2220

20UOA

20UOAM



Materials

Parts	20UOA	20UOAM
Body	SCS13A	SCS14A
Cover	SCS13A	SCS14A
Disc	SCS13A	SCS14A
Gasket	Refer to Page 10	
Disc nut*	304SS	316LSS
Hinge pin	304SS	316SS
Plug	304SS	316SS
Arm*	SCS13A	SCS14A
Washer*	316SS, 316LSS (3 to 6)	
Cover bolt/nut	B8/8	
Split pin	316LSS	
Name plate	Aluminum	

*Size 80A 이상입니다.
 Note: Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items

Face to face dimensions	ASME B16.10 Class 300
End flange dimensions	JIS B2220 20K
Wall thickness	ASME B16.34 Class 300

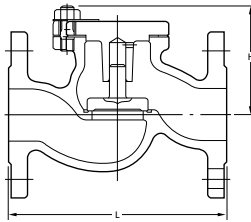
Nominal Size	1½	2	2½	3	4	5	6	8	10	12	16	18
	40	50	65	80	100	125	150	200	250	300	400	450
L	in.	9.49	10.5	11.5	12.5	14.0	15.8	17.5	21.0	24.5	28.0	33.00
	mm	241	267	292	318	356	400	444	533	622	711	838
H	in.	4.76	5.63	6.42	7.01	7.91	9.09	10.2	11.5	14.0	14.7	23.03
	mm	121	143	163	178	201	231	259	292	356	373	585

Class 150 LIFT CHECK VALVE

Pressure-Temperature Rating: ASME B16.34

150UNA

150UNAM



Materials

Parts	150UNA	150UNAM
Body	CF8	CF8M
Cover	CF8	CF8M
Disc	304SS	316SS
Gasket	Refer to Page 10	
Cover bolt/nut	B8/8	
Name plate	Aluminum	

Note: Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items	
Face to face dimensions	ASME B16.10 Class 150
End flange dimensions	ASME B16.5 Class 150
Wall thickness	ASME B16.34 Class 150

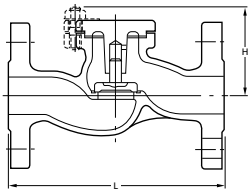
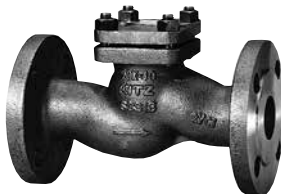
Nominal Size		1/2	3/4	1	1 1/2
		15	20	25	40
L	in.	4.25	4.61	5.00	6.50
	mm	108	117	127	165
H	in.	2.91	2.99	2.99	3.39
	mm	74	76	76	86

Class 300 LIFT CHECK VALVE

Pressure-Temperature Rating: ASME B16.34

300UNA

300UNAM



Materials

Parts	300UNA	300UNAM
Body	CF8	CF8M
Cover	CF8	CF8M
Disc	304SS	316SS
Gasket	Refer to Page 10	
Cover bolt/nut	B8/8	
Name plate	Aluminum	

Note: Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items	
Face to face dimensions	ASME B16.10 Class 300
End flange dimensions	ASME B16.5 Class 300
Wall thickness	ASME B16.34 Class 300

Nominal Size		1/2	3/4	1	1 1/2
		15	20	25	40
L	in.	5.98	7.01	7.99	9.02
	mm	152	178	203	229
H	in.	3.15	3.07	3.11	3.82
	mm	80	78	79	97

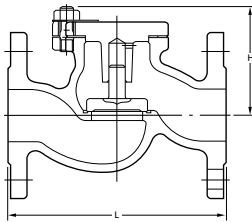
10K

LIFT CHECK VALVE

Pressure-Temperature Rating: JIS B2220

10UNA(T)

10UNAM(T)



Materials

Parts	10UNA(T)*	10UNAM(T)*
Body	SCS13A	SCS14A
Cover	SCS13A	SCS14A
Disc	304SS	316SS
Gasket	Refer to Page 10	
Cover bolt/nut	B8/8	
Name plate	Aluminum	

*접미사 (T)는 Ceramic filled PTFE gaskets의 제공을 나타냅니다.
Note: Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items

Face to face dimensions	ASME B16.10 Class 150
End flange dimensions	JIS B2220 10K
Wall thickness	ASME B16.34 Class 150

Nominal Size	1/2		3/4		1		1 1/4		1 1/2	
		15	20	25	32	40				
L	in.	4.25	4.61	5.00	5.51	6.50				
	mm	108	117	127	140	165				
H	in.	2.91	2.99	2.99	3.31	3.39				
	mm	74	76	76	84	86				

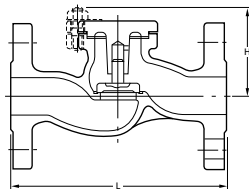
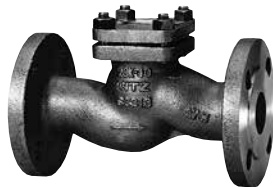
20K

LIFT CHECK VALVE

Pressure-Temperature Rating: JIS B2220

20UNA

20UNAM



Materials

Parts	20UNA	20UNAM
Body	SCS13A	SCS14A
Cover	SCS13A	SCS14A
Disc	304SS	316SS
Gasket	Refer to Page 10	
Cover bolt/nut	B8/8	
Name plate	Aluminum	

Note: Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items

Face to face dimensions	ASME B16.10 Class 300
End flange dimensions	JIS B2220 20K
Wall thickness	ASME B16.34 Class 300

Nominal Size	1/2		3/4		1		1 1/2	
		15	20	25	40			
L	in.	5.98	7.01	7.99	9.02			
	mm	152	178	203	229			
H	in.	3.15	3.07	3.11	3.82			
	mm	80	78	79	97			

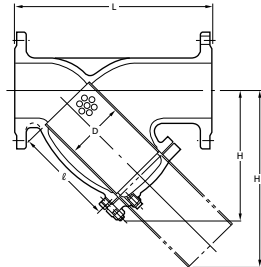
10K

Y-PATTERN STRAINER

Pressure-Temperature Rating: JIS B2220

10UYA

10UYAM



Materials

Parts	10UYA	10UYAM
Body	SCS13A	SCS14A
Cover	SCS13A	SCS14A
Gasket	Refer to Page 10	
Screen	304SS	316SS

Note: * Screen은 Punched Stainless Steel Plate로 강화된40-mesh Stainless Wire net 입니다.
 * 수치는 Size 250A 이상입니다. 10UYA(M)

Items	
End flange dimensions	JIS B2220 10K · ASME B16.5
Wall thickness	KITZ Std.

Nominal Size		2½	3	4	5	6	8	10	12
		65	80	100	125	150	200	250	300
L	in.	10.6	11.4	13.8	15.4	17.3	21.3	29.9	34.3
	mm	270	290	350	390	440	540	760	870
H	in.	6.30	7.76	9.17	10.5	12.6	15.0	21.2	25.0
	mm	160	197	233	267	320	380	538	635
H1	in.	8.46	10.4	12.6	15.1	17.8	21.9	28.5	34.3
	mm	215	263	320	383	452	555	725	870
D	in.	2.83	3.39	4.33	5.39	6.38	8.35	10.6	12.6
	mm	72	86	110	137	162	212	270	320
ø	in.	4.72	5.91	7.09	8.46	10.0	12.2	15.8	18.9
	mm	120	150	180	215	255	310	400	480

Memo

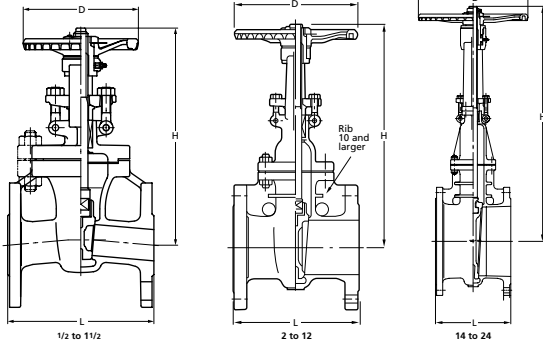
Large grid area for notes.

Class 150

GATE VALVE

Pressure-Temperature Rating: ASME B16.34

150UMHAM



Materials

Parts	150UMHAM
Body	CF8M
Bonnet	CF8M
Stem	316
Disc	CF8M
Gland	316
Gland flange	CF8
Gland packing	Refer to Page 10
Gasket	Refer to Page 10
Yoke sleeve	Ductile Ni-resist
Yoke*	CF8
Handwheel	Ductile iron
Gland bolt/nut	B8/8
Bonnet bolt/nut	B8/8
Grease nipple	Stainless steel
Name plate	Aluminum

*Size 10" 이상의 경우 Yoke는 Bonnet에서 분리됩니다.
 Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 • 모든 크기에 Flexible Wedge가 적용됩니다.

Items

Face to face dimensions	ASME B16.10 Class 150
End flange dimensions	ASME B16.5 Class 150
Wall thickness	API 603 Class 150

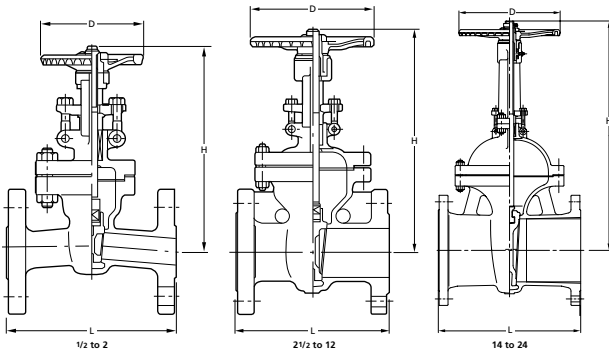
Nominal Size	1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	
	15	20	25	40	50	65	80	100	150	200	250	300	350	400	450	500	600	
L	in.	4.25	4.61	5.00	6.50	7.01	7.48	7.99	9.02	10.5	11.5	13.0	14.0	15.0	16.0	17.0	18.0	20.0
	mm	108	117	127	165	176	190	203	229	267	292	330	356	381	406	432	457	508
H (open)	in.	8.50	8.66	9.09	10.9	13.2	14.7	17.4	20.6	28.0	36.4	44.3	52.3	58.7	66.6	74.4	82.8	97.8
	mm	216	220	231	277	335	373	443	522	710	924	1125	1328	1491	1692	1889	2102	2484
D	in.	3.94	3.94	3.94	5.51	6.30	7.09	7.87	8.86	9.84	11.8	13.8	15.8	17.7	23.6	23.6	26.8	29.9
	mm	100	100	100	140	160	180	200	225	250	300	350	400	450	600	600	680	760

Class 300

GATE VALVE

Pressure-Temperature Rating: ASME B16.34

300UMHAM



Materials

Parts	300UMHAM
Body	CF8M
Bonnet	CF8M
Stem	316SS
Disc	CF8M
Gland	316SS
Gland flange	CF8
Gland packing	Refer to Page 10
Gasket	Refer to Page 10
Yoke sleeve	Ductile Ni-resist
Yoke**	Stainless steel
Handwheel	Ductile Iron
Gland bolt/nut	Stainless steel
Bonnet bolt/nut	B8/8
Grease nipple	Stainless steel
Name plate	Aluminum

*Size 10" 이상의 경우 Yoke는 Bonnet에서 분리됩니다.
 Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 • 모든 크기에 Flexible Wedge가 적용됩니다.

Items

Face to face dimensions	ASME B16.10 Class 300
End flange dimensions	ASME B16.5 Class 300
Wall thickness	API 603 Class 300

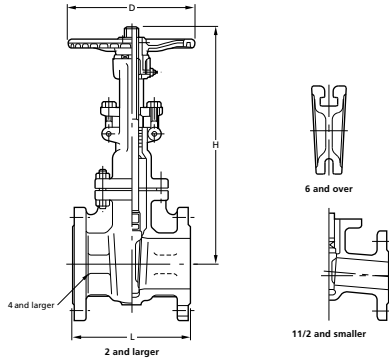
Nominal Size	1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	
	15	20	25	40	50	65	80	100	150	200	250	300	350	400	450	500	600	
L	in.	5.51	5.98	6.50	7.48	8.50	9.49	11.1	12.0	15.8	16.5	18.0	19.8	30.0	33.0	36.0	39.0	45.0
	mm	140	152	165	190	216	241	283	305	403	419	457	502	762	838	914	991	1143
H (open)	in.	8.15	8.54	10.6	12.8	14.0	15.9	18.6	22.1	29.7	38.1	46.3	54.3	62.6	68.9	76.0	84.3	99.6
	mm	207	217	270	325	356	405	472	560	753	968	1177	1378	1590	1750	1930	2140	2530
D	in.	3.94	3.94	6.30	7.09	7.09	7.09	8.86	9.84	13.8	15.8	17.7	19.7	23.6	23.6	26.8	29.9	35.8
	mm	100	100	160	180	180	180	225	250	350	400	450	500	600	600	680	760	910

Class 150 GATE VALVE

Pressure-Temperature Rating: ASME B16.34

150UMC

150UMCM



Materials

Parts	150UMC	150UMCM
Body*	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc*	CF8	CF8M
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke**	Stainless steel	
Yoke sleeve	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Grease nipple	Stainless steel	
Name plate	Aluminum	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 **Size 14" 이상의 경우 Yoke는 Bonnet에서 분리됩니다.
 Note: • Size 2" 이상의 경우 옵션으로 재생가능한 Seat(Renewable Seat)가 사용가능 합니다.
 • Size 4"이하의 경우 Solid Wedge가 가능합니다.
 • 모든 크기에 Flexible Wedge가 적용됩니다.

Items	
Face to face dimensions	ASME B16.10 Class 150
End flange dimensions	ASME B16.5 Class 150
Wall thickness	API 600 Class 150

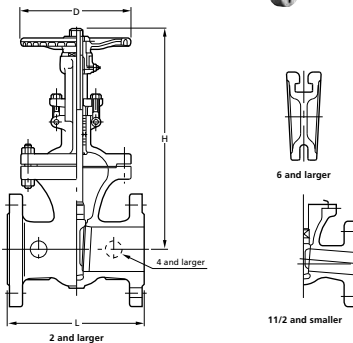
Nominal Size		1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24
		15	20	25	40	50	65	80	100	150	200	250	300	350	400	450	500	600
L	in.	4.25	4.61	5.00	6.50	7.01	7.48	7.99	9.02	10.5	11.5	13.0	14.0	15.0	16.0	17.0	18.0	20.0
	mm	108	117	127	165	178	190	203	229	267	292	330	356	381	406	432	457	508
H (open)	in.	8.58	9.09	10.8	13.5	15.3	17.1	20.0	23.2	30.0	37.8	45.8	53.9	60.0	66.9	74.6	83.5	99.0
	mm	218	231	273	342	389	435	507	590	762	960	1164	1370	1523	1700	1895	2120	2515
D	in.	3.54	3.94	4.72	6.30	7.87	7.87	9.84	9.84	11.8	13.8	15.8	17.7	19.7	23.6	23.6	26.8	29.9
	mm	90	100	120	160	200	200	250	250	300	350	400	450	500	600	600	680	760

Class 300 GATE VALVE

Pressure-Temperature Rating: ASME B16.34

300UMC

300UMCM



Materials

Parts	300UMC	300UMCM
Body*	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc*	CF8	CF8M
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke**	Stainless steel	
Yoke sleeve	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Bonnet bolt/nut	B8/8	
Name plate	Aluminum	
Grease nipple	Stainless steel	
Collar	Stainless steel	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 **Size 12" 이상의 경우 Yoke는 Bonnet에서 분리됩니다.
 Note: • Size 2" 이상의 경우 옵션으로 재생가능한 Seat(Renewable Seat)가 사용가능 합니다.
 • Size 4" 이하의 경우 Solid Wedge가 가능합니다.
 • 모든 크기에 Flexible Wedge가 적용됩니다.

Items	
Face to face dimensions	ASME B16.10 Class 300
End flange dimensions	ASME B16.5 Class 300
Wall thickness	API 600 Class 300

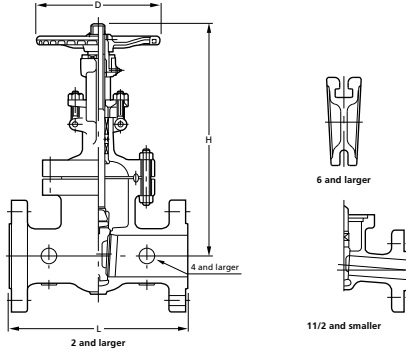
Nominal Size		1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24
		15	20	25	40	50	65	80	100	150	200	250	300	350	400	450	500	600
L	in.	5.51	5.98	6.50	7.48	8.50	9.49	11.1	12.0	15.9	16.5	18.0	19.8	30.0	33.0	36.0	39.0	45.0
	mm	140	152	165	190	216	241	283	305	403	419	457	502	762	838	914	991	1143
H (open)	in.	8.94	9.84	12.2	14.9	16.4	17.9	20.8	24.2	31.4	40.2	48.1	56.8	62.0	68.7	76.6	84.8	101
	mm	227	250	310	378	416	455	528	615	798	1020	1222	1442	1575	1745	1945	2155	2555
D	in.	3.94	3.94	4.72	7.87	7.87	7.87	9.84	9.84	13.8	15.8	17.7	19.7	23.6	23.6	26.8	29.9	35.8
	mm	100	100	120	200	200	200	250	250	350	400	450	500	600	600	680	760	910

Class 600 GATE VALVE

Pressure-Temperature Rating: ASME B16.34

600UMC

600UMCM



Materials

Parts	600UMC	600UMCM
Body*	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc*	CF8	CF8M
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke**	Stainless steel	
Yoke sleeve	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Grease nipple	Stainless steel	
Name plate	Aluminum	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 **Size 8 이상의 경우 Yoke는 Bonnet에서 분리됩니다.
 Note: • Size 2" 이상의 경우 옵션으로 재생가능한 Seat(Renewable Seat)가 사용가능 합니다.
 • Size 1 1/2" 이하의 경우 Solid Wedge가 가능합니다.
 • 모든 크기에 Flexible Wedge가 적용됩니다.

Items	
Face to face dimensions	ASME B16.10 Class 600
End flange dimensions	ASME B16.5 Class 600
Wall thickness	API 600 Class 600

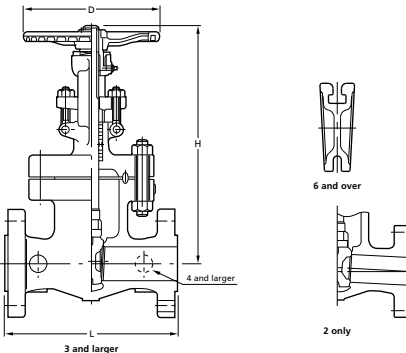
Nominal Size	Nominal Size											
	1/2	3/4	1	1 1/2	2	3	4	6	8	10	12	
L	in.	6.50	7.48	8.50	9.49	11.5	14.0	17.0	22.0	26.0	31.0	33.0
	mm	165	190	216	241	292	356	432	559	660	787	838
H (open)	in.	10.4	10.7	13.1	15.6	18.7	22.4	27.5	35.6	42.8	50.4	59.1
	mm	263	271	332	396	475	570	698	903	1087	1280	1500
D	in.	3.94	5.51	6.30	7.87	7.87	9.84	11.8	17.7	19.7	23.6	26.8
	mm	100	140	160	200	200	250	300	450	500	600	680

Class 900 GATE VALVE

Pressure-Temperature Rating: ASME B16.34

900UMC

900UMCM



Materials

Parts	900UMC	900UMCM
Body*	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc*	CF8	CF8M
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke**	Stainless steel	
Yoke sleeve	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Grease nipple	Stainless steel	
Name plate	Stainless steel	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 **Size 6이상의 경우 Yoke는 Bonnet에서 분리됩니다.
 *Note: • 모든 일체형 Seat
 • 모든 Flexible Wedge

Items	
Face to face dimensions	ASME B16.10 Class 900
End flange dimensions	ASME B16.5 Class 900
Wall thickness	API 600 Class 900

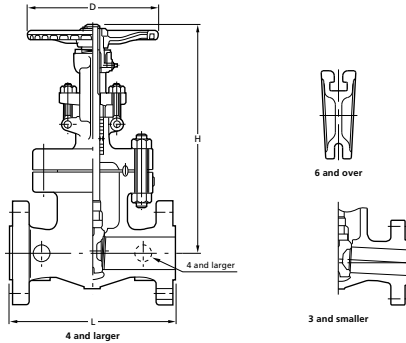
Nominal Size	Nominal Size							
	2	3	4	6	8	10	12	
L	in.	14.5	15.0	18.0	24.0	29.0	38.0	
	mm	368	381	457	610	737	965	
H (open)	in.	20.6	24.4	27.7	36.1	43.6	60.2	
	mm	523	620	704	916	1107	1528	
D	in.	9.84	13.8	13.8	19.7	23.6	29.9	
	mm	250	350	350	500	600	760	

Class 1500 GATE VALVE

Pressure-Temperature Rating: ASME B16.34

1500UMC

1500UMCM



Materials

Parts	1500UMC	1500UMCM
Body*	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc*	CF8	CF8M
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke**	Stainless steel	
Yoke sleeve	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Grease nipple	Stainless steel	
Name plate	Stainless steel	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 **Size 6" 이상의 경우 Yoke는 Bonnet에서 분리됩니다.

*Note: 모든 일체형 Seat
 ● 모든 Flexible Wedge

Items	
Face to face dimensions	ASME B16.10 Class 1500
End flange dimensions	ASME B16.5 Class 1500
Wall thickness	API 600 Class 1500

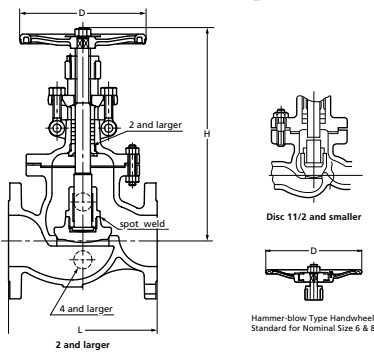
Nominal Size	2		2½		3		4		6		8		10		12	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
L	in.	14.5	16.5	18.5	21.5	27.8	32.8	39.0	44.5							
	mm	368	419	470	546	705	832	991	1130							
H (open)	in.	22.1	24.9	27.0	30.4	42.4	50.2	59.6	66.9							
	mm	561	633	686	772	1078	1276	1513	1698							
D	in.	9.84	11.8	13.8	15.8	23.6	26.8	35.8	35.8							
	mm	250	300	350	400	600	680	910	910							

Class 150 GLOBE VALVE

Pressure-Temperature Rating: ASME B16.34

150UPC

150UPCM



Materials

Parts	150UPC	150UPCM
Body*	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc*	CF8/304SS	CF8M/316SS
Lock nut	CF8/304SS	CF8M/316SS
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke bush	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Name plate	Aluminum	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 Note: Size 2" 이상의 경우 옵션으로 재생가능한 Seat(Renewable Seat)가 사용가능합니다. Hammer-blow type handwheel Size 6" 와 8"의 경우입니다.

Items	
Face to face dimensions	ASME B16.10 Class 150
End flange dimensions	ASME B16.5 Class 150
Wall thickness	API 600 Class 150

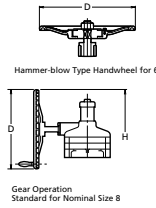
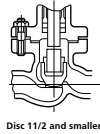
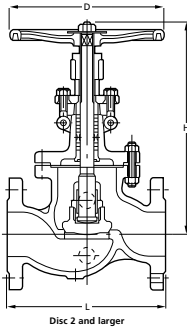
Nominal Size	½		¾		1		1½		2		2½		3		4		6		8	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
L	in.	4.25	4.61	5.00	6.50	7.99	8.50	9.49	11.5	16.0	19.5									
	mm	108	117	127	165	203	216	241	292	406	495									
H (open)	in.	7.72	7.95	9.17	10.8	12.9	14.1	15.4	18.0	19.9	24.1									
	mm	196	202	233	273	328	359	390	456	506	613									
D	in.	3.54	3.94	4.72	6.30	7.87	8.86	9.84	9.84	13.8	15.8									
	mm	90	100	120	160	200	225	250	250	350	400									

Class 300 GLOBE VALVE

Pressure-Temperature Rating: ASME B16.34

300UPC

300UPCM



Gear Operation Standard for Nominal Size 8

Materials

Parts	300UPC	300UPCM
Body*	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc*	CF8/304SS	CF8M/316SS
Gland	316SS	
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke bush	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Name plate	Aluminum	
Collar	Stainless steel	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 Note: Size 2" 이상의 경우 옵션으로 재생가능한 Seat(Renewable Seat)가 사용가능 합니다.
 Size 8"의 경우 Gear Operation 입니다.
 Hammer-blow type handwheel Size 6"의 경우입니다.

Items

Face to face dimensions	ASME B16.10 Class 300
End flange dimensions	ASME B16.5 Class 300
Wall thickness	API 600 Class 300

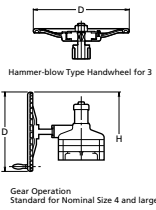
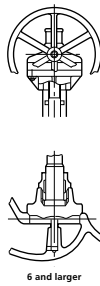
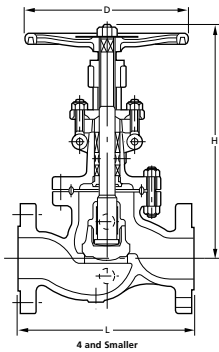
Nominal Size	1/2		3/4		1		1 1/2		2		2 1/2		3		4		6		8		
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	
L	in.	5.98	7.01	7.99	9.02	10.5	11.5	12.5	14.0	17.5	22.0										
	mm	152	178	203	229	267	292	318	356	444	559										
H (open)	in.	8.66	8.74	10.2	11.9	13.9	15.8	17.3	20.0	26.7	41.9										
	mm	220	222	259	302	352	400	440	509	677	1064										
D	in.	3.94	3.94	5.51	7.09	7.87	9.84	9.84	13.8	17.7	19.7										
	mm	100	100	140	180	200	250	250	350	450	500										

Class 600 GLOBE VALVE

Pressure-Temperature Rating: ASME B16.34

600UPC

600UPCM



Gear Operation Standard for Nominal Size 4 and larger

Materials

Parts	600UPC	600UPCM
Body*	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc	304SS/CF8	316SS/CF8M
Gland	316SS	
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke bush	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Name plate	Aluminum	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 Note: Size 2" 이상의 경우 옵션으로 재생가능한 Seat(Renewable Seat)가 사용가능 합니다.
 Size 4"~8"의 경우 Gear Operation 입니다.
 Hammer-blow type handwheel Size 3"의 경우입니다.

Items

Face to face dimensions	ASME B16.10 Class 600
End flange dimensions	ASME B16.5 Class 600
Wall thickness	API 600 Class 600

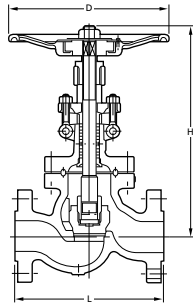
Nominal Size	1/2		3/4		1		1 1/2		2		3		4		6		8			
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
L	in.	6.50	7.48	8.50	9.49	11.5	14.0	17.0	22.0	26.0										
	mm	165	190	216	241	292	356	432	559	660										
H (open)	in.	11.0	10.8	11.4	13.4	16.3	20.8	37.3	40.6	48.5										
	mm	280	275	290	340	413	529	947	1031	1232										
D	in.	5.51	5.51	6.30	7.87	9.84	13.8	19.7	19.7	23.6										
	mm	140	140	160	200	250	350	500	500	600										

Class 1500 GLOBE VALVE

Pressure-Temperature Rating: ASME B16.34

1500UPC

1500UPCM



Nominal Size		2
		50
L	in.	14.5
	mm	368
H (open)	in.	21.5
	mm	546
D	in.	13.8
	mm	350

Materials

Parts	1500UPC	1500UPCM
Body*	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc*	CF8	CF8M
Lock nut	CF8	CF8M
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke bush	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Yoke	Stainless steel	
Name plate	Stainless steel	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Note: 모든 일체형 Seat

Hammer-blow type handwheel

Items	
Face to face dimensions	ASME B16.10 Class 1500
End flange dimensions	ASME B16.5 Class 1500
Wall thickness	API 600 Class 1500

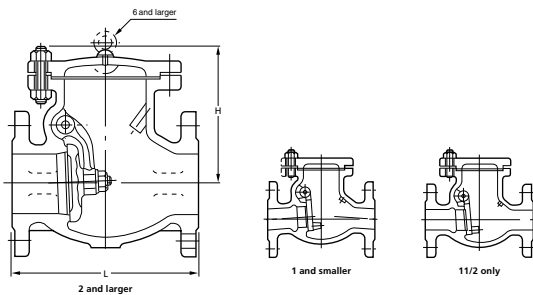
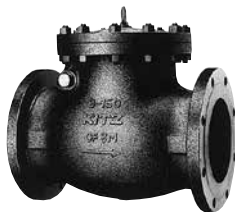
Class 150 SWING CHECK VALVE

Pressure-Temperature Rating: ASME B16.34

150UOC

150UOCM

150UOCHM*1



Materials

Parts	150UOC	150UOCM
Body*	CF8	CF8M
Cover	CF8	CF8M
Disc*	CF8	CF8M/316SS
Gasket	Refer to Page 10	
Disc nut**	304SS	316SS
Hinge pin	304SS	316SS
Plug	304SS	316SS
Arm**	CF8	CF8M
Washer**	304SS	316SS, 316LSS (3 to 6)
Cover bolt/nut	B8/8	
Split pin**	304SS	316LSS
Name plate	Aluminum	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

**Size 2" 이상의 경우입니다.

Note: Size 2" 이상의 경우 옵션으로 재생가능한 Seat(Renewable Seat)가 사용가능 합니다.

Items	
Face to face dimensions	ASME B16.10 Class 150
End flange dimensions	ASME B16.5 Class 150
Wall thickness	API 600 Class 150

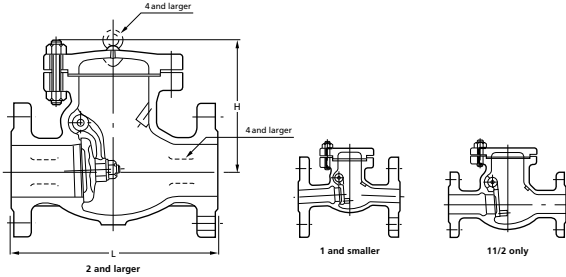
Nominal Size		1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24
		15	20	25	40	50	65	80	100	150	200	250	300	350	400	450	500	600
L	in.	4.25	4.61	5.00	6.50	7.99	8.50	9.49	11.5	14.0	19.5	24.5	27.5	31.0	34.0	38.5	38.5	51.0
	mm	108	117	127	165	203	216	241	292	356	495	622	698	787	864	978	978	1295
H	in.	3.11	3.31	3.90	4.45	6.26	6.46	7.44	8.07	9.96	11.1	13.6	15.2	15.6	16.9	18.3	19.7	22.8
	mm	79	84	99	113	159	164	189	205	253	281	345	385	396	428	465	500	580

*1 API594 type B with internal hinge pin design can be available. Please ask product range.

Class 300 SWING CHECK VALVE

Pressure-Temperature Rating: ASME B16.34

- 300UOC
- 300UOCM
- 300UOCHM*1



Materials

Parts	300UOC	300UOCM
Body*	CF8	CF8M
Cover	CF8	CF8M
Disc*	CF8	CF8M/316SS
Gasket	Refer to Page 10	
Disc nut**	304SS	316SS
Hinge pin	304SS	316SS
Plug	304SS	316SS
Arm**	CF8	CF8M
Washer**	304SS	316SS, 316LSS (3 to 6)
Cover bolt/nut	B8/8	
Split pin**	304SS	316LSS
Name plate	Aluminum	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 **Size 2" 이상의 경우입니다.
 Note: Size 2" 이상의 경우 옵션으로 재생가능한 Seat(Renewable Seat)가 사용가능 합니다.

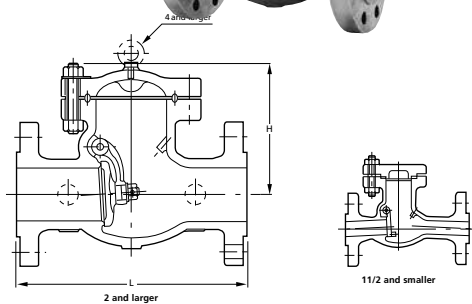
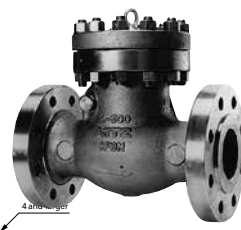
Items	
Face to face dimensions	ASME B16.10 Class 300
End flange dimensions	ASME B16.5 Class 300
Wall thickness	API 600 Class 300

Nominal Size	1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	
	15	20	25	40	50	65	80	100	150	200	250	300	350	400	450	500	600	
L	in.	5.51	5.98	8.50	9.49	10.5	11.5	12.5	14.0	17.5	21.0	24.5	28.0	33.0	34.0	38.5	40.0	53.0
	mm	140	152	216	241	267	292	318	356	444	533	622	711	838	864	978	1016	1346
H	in.	3.19	3.31	3.98	4.65	6.50	7.48	8.07	8.86	10.7	13.0	14.2	16.0	18.9	20.8	21.9	24.3	28.8
	mm	81	84	101	118	165	190	205	225	272	330	360	406	480	527	555	618	732

Class 600 SWING CHECK VALVE

Pressure-Temperature Rating: ASME B16.34

- 600UOC
- 600UOCM
- 600UOCHM*1



Materials

Parts	600UOC	600UOCM
Body*	CF8	CF8M
Cover	CF8	CF8M
Disc*	CF8	CF8M
Disc nut**	304SS	316SS
Gasket	Refer to Page 10	
Hinge pin**	304SS	316SS
Arm	CF8	CF8M
Cover bolt/nut	B8/8	
Plug	304SS	316SS
Name plate	Aluminum	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 **Size 2" 이상의 경우입니다.
 Note: Size 2" 이상의 경우 옵션으로 재생가능한 Seat(Renewable Seat)가 사용가능 합니다.

Items	
Face to face dimensions	ASME B16.10 Class 600
End flange dimensions	ASME B16.5 Class 600
Wall thickness	API 600 Class 600

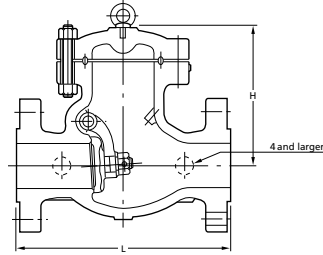
Nominal Size	1	1 1/2	2	3	4	6	8	10	12
	25	40	50	80	100	150	200	250	300
L	in.	8.50	9.49	11.5	14.0	17.0	22.0	31.0	33.0
	mm	216	241	292	356	432	559	787	838
H	in.	5.59	6.77	7.60	8.66	10.1	12.4	16.3	18.2
	mm	142	172	193	220	256	316	415	462

*1 내장 Hinge Pin 디자인의 API594 type B가 가능합니다.
 제품 범위에 대해 문의하여 주십시오.

Class 900 SWING CHECK VALVE

Pressure-Temperature Rating: ASME B16.34

- 900UOC
- 900UOCM
- 900UOCHM*1



Materials

Parts	900UOC	900UOCM
Body*	CF8	CF8M
Cover	CF8	CF8M
Disc	CF8	CF8M
Disc nut	304SS	316SS
Gasket	Refer to Page 10	
Hinge pin	304SS	316SS
Arm	CF8	CF8M
Cover bolt/nut	B8/8	
Plug	304SS	316SS
Name plate	Stainless steel	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
Note: 모든 일체형 Seat

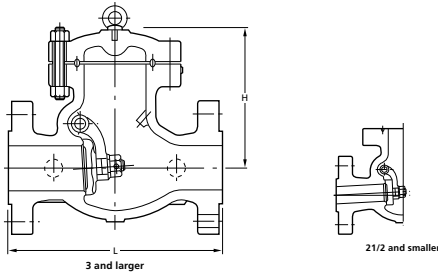
Items	
Face to face dimensions	ASME B16.10 Class 900
End flange dimensions	ASME B16.5 Class 900
Wall thickness	API 600 Class 900

Nominal Size	3		4		6		8	
	in.	mm	in.	mm	in.	mm	in.	mm
L	in.	15.0	18.0	24.0	29.0			
	mm	381	457	610	737			
H	in.	11.5	13.6	17.5	20.7			
	mm	292	346	444	526			

Class 1500 SWING CHECK VALVE

Pressure-Temperature Rating: ASME B16.34

- 1500UOC
- 1500UOCM
- 1500UOCHM*1



Materials

Parts	1500UOC	1500UOCM
Body*	CF8	CF8M
Cover	CF8	CF8M
Disc*	CF8	CF8M
Disc nut	304SS	316SS
Gasket	Refer to Page 10	
Hinge pin	304SS	316SS
Arm	CF8	CF8M
Cover bolt/nut	B8/8	
Plug	304SS	316SS
Name plate	Stainless steel	

*Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
Note: 모든 일체형 Seat

Items	
Face to face dimensions	ASME B16.10 Class 1500
End flange dimensions	ASME B16.5 Class 1500
Wall thickness	API 600 Class 1500

Nominal Size	2		2 1/2		3		4		6	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
L	in.	14.5	16.5	18.5	21.5	27.8				
	mm	368	419	470	546	705				
H	in.	11.4	12.4	13.7	15.4	20.3				
	mm	290	316	347	391	515				

*1 내장 Hinge Pin 디자인의 API594 type B가 가능합니다.
제품 범위에 대해 문의하여 주십시오.

Memo

A large grid of dotted lines for taking notes, covering most of the page.

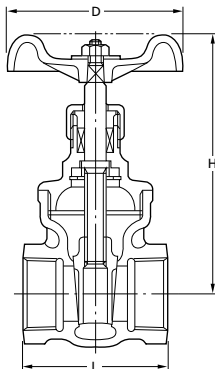
10K

GATE VALVE

Pressure-Temperature Rating: 1.0 MPa: 180°C

UEL

UELM



Parts	UEL	UELM
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	304SS	316SS
Disc	SCS13A	SCS14A
Gland	304SS	316SS
Gland packing	Refer to Page 10	
Packing nut	Stainless steel	
Handwheel	Zinc Diecast (15 & 20) / Aluminum Diecast (25 to 50)	
Name plate	Aluminum	

Face to face dimensions: KITZ Std.
End thread dimensions: JIS B0203
Wall thickness: KITZ Std.

Nominal Size	Unit: mm					
	1/2	3/4	1	1 1/4	1 1/2	2
L	15	20	25	32	40	50
H	96	101	112	123	150	167
D	70	70	80	80	100	100

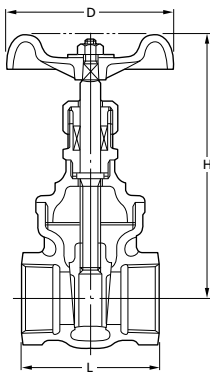
10K

GATE VALVE

Pressure-Temperature Rating: 1.0 MPa: 180°C

UE

UEM



Parts	UE	UEM
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	304SS	316SS
Disc	SCS13A	SCS14A
Gland	304SS	316SS
Gland packing	Refer to Page 10	
Packing nut	Stainless steel	
Handwheel	Aluminum Diecast (65 & 80) / Ductile iron (100)	
Name plate	Aluminum	

Face to face dimensions: JIS B2011
End thread dimensions: JIS B0203
Wall thickness: KITZ Std.

Nominal Size	Unit: mm		
	2 1/2	3	4
L	65	80	100
H	115	130	155
D	248	275	315
	135	155	200

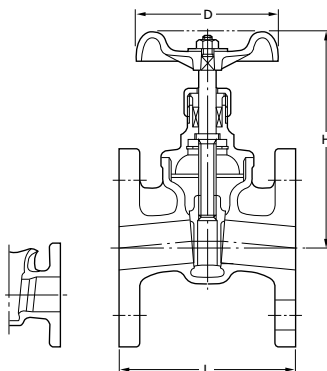
10K

GATE VALVE

Pressure-Temperature Rating: 1.0 MPa: 180°C

UEB

UEBM



65 and larger

50 and smaller



Parts	UEB	UEBM
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	304SS	316SS
Disc	SCS13A	SCS14A
Gland	304SS	316SS
Gland packing	Refer to Page 10	
Packing nut	Stainless steel	
Handwheel	Zinc Diecast (15 & 20) / Aluminum Diecast (25 to 80)	
Snap ring	316SS	
Name plate	Aluminum	

Face to face dimensions: JIS B2011* *Size 1/2" 와 3/4" 에 대한 KITZ 표준
End flange dimensions: JIS B2220** **Flange 두께 제외
Wall thickness: KITZ Std.

Nominal Size	Unit: mm							
	1/2*	3/4*	1	1 1/4	1 1/2	2	2 1/2	3
L	15	20	25	32	40	50	65	80
H	85	95	100	110	125	140	170	190
D	99	105	116	128	170	188	248	275
	70	70	80	80	100	100	135	155

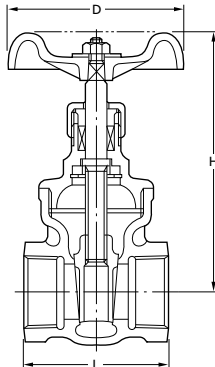
*UEB only

Type 200

GATE VALVE

Pressure-Temperature Rating: 1.0 MPa: 180°C

AKUELM



Parts	AKUELM
Body	CF8M
Bonnet	CF8M
Stem	316SS
Disc	CF8M
Gland	316SS
Gland packing	Refer to Page 10
Packing nut	Stainless steel
Handwheel	Zinc Diecast (1/2 & 3/4) / Aluminum Diecast (1 to 2)
Name plate	Aluminum

Face to face dimensions: KITZ Std.
End thread dimensions: ASME B1.20.1
Wall thickness: KITZ Std.

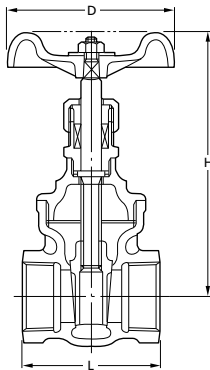
Nominal Size	Unit: mm					
	1/2	3/4	1	1 1/4	1 1/2	2
L	54	58	65	74	78	87
H	96	101	112	123	150	167
D	70	70	80	80	100	100

Type 200

GATE VALVE

Pressure-Temperature Rating: 1.0 MPa: 180°C

AKUEM



Parts	AKUEM
Body	CF8M
Bonnet	CF8M
Stem	316SS
Disc	CF8M
Gland	316SS
Gland packing	Refer to Page 10
Packing nut	304SS
Handwheel	Aluminum Diecast (2 1/2 & 3) / Ductile iron (4)
Name plate	Aluminum

Face to face dimensions: KITZ Std.
End thread dimensions: ASME B1.20.1
Wall thickness: KITZ Std.

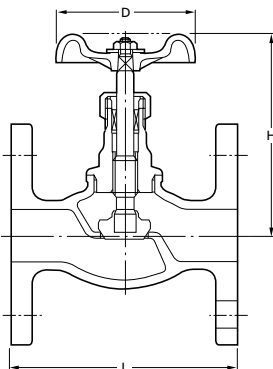
Nominal Size	Unit: mm		
	2 1/2	3	4
L	115	130	155
H	248	275	315
D	135	155	200

5K

GLOBE VALVE

Pressure-Temperature Rating: 0.5 MPa: 150°C

UAB



Parts	UAB
Body	SCS13A
Bonnet	SCS13A
Stem	304SS
Disc	304SS
Gland	304SS
Gland packing	Refer to Page 10
Packing nut	304SS
Handwheel	Zinc Diecast (10 to 20) / Aluminum Diecast (25 to 50)
Name plate	Aluminum

Face to face dimensions: KITZ Std. *Flange 두께 제외
End flange dimensions: JIS B2220*
Wall thickness: KITZ Std.

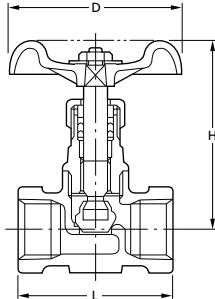
Nominal Size	Unit: mm						
	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	73	85	95	108	120	135	155
H	106	106	108	119	142	155	186
D	70	70	70	80	90	90	115

5K

GLOBE VALVE

Pressure-Temperature Rating: 1.0 MPa: 180°C

UCL



Parts	UCL
Body	SCS13A
Bonnet	SCS13A
Stem	304SS
Disc	304SS
Gland	304SS
Gland packing	Refer to Page 10
Packing nut	SCS13A
Handwheel	Zinc Diecast (8 to 25) / Aluminum Diecast (32 to 50)
Name plate	Aluminum

Face to face dimensions: KITZ Std.
End thread dimensions: JIS B0203
Wall thickness: KITZ Std.

Nominal Size	Unit: mm							
	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	44	48	52	60	72	80	90	100
H	68	68	68	93	100	122	138	153
D	55	55	55	60	70	80	90	100

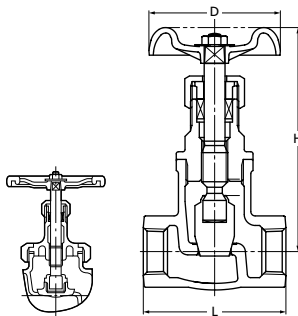
10K

GLOBE VALVE

Pressure-Temperature Rating: 1.0 MPa: 180°C

UJ

UJM



65 and larger

50 and smaller

Face to face dimensions: JIS B2011, KITZ Std.
End thread dimensions: JIS B0203
Wall thickness: KITZ Std.



Parts	UJ	UJM
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	304SS	316SS
Disc	304SS	316SS
Gland	304SS	316SS
Lock nut	304SS	316SS
Gland packing	Refer to Page 10	
Packing nut	304SS	
Handwheel	Zinc Diecast (10 to 20)/Aluminum Diecast (25 to 50) Ductile iron 80	
Bonnet ring*	Stainless steel	
Gasket*	Asbestos-free sheet	
Packing washer	316SS (10 to 50)	
Name plate	Aluminum	

*Size 2 1/2" 이상

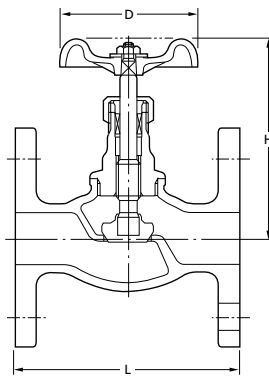
Nominal Size	Unit: mm								
	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
L	55	65	80	90	105	120	140	180	200
H	109	111	112	142	150	171	189	253	280
D	60	60	70	90	90	100	115	180	225

10K

GLOBE VALVE

Pressure-Temperature Rating: 1.0 MPa: 180°C

UCB



Parts	UCB
Body	SCS13A
Bonnet	SCS13A
Stem	304SS
Disc	304SS
Gland	304SS
Gland packing	Refer to Page 10
Packing nut	304SS
Handwheel	Zinc Diecast (10 to 20) / Aluminum Diecast (25 to 50)
Name plate	Aluminum

Face to face dimensions: KITZ Std. *Flange 두께 제외
End flange dimensions: JIS B2220*
Wall thickness: KITZ Std.

Nominal Size	Unit: mm						
	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	73	85	95	108	120	135	155
H	106	106	108	119	142	155	186
D	70	70	70	80	90	90	115

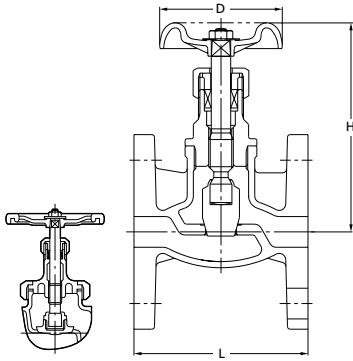
10K

GLOBE VALVE

Pressure-Temperature Rating: 1.0 MPa: 180°C

UJB

UJBM



65 and larger

50 and smaller



Face to face dimensions: JIS B2011
End flange dimensions: JIS B2220*
Wall thickness: KITZ Std.

*Flange 두께 제외

Parts	UJB	UJBM
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	304SS	316SS
Disc	304SS	316SS
Gland	304SS	316SS
Gland packing	Refer to Page 10	
Packing nut	304SS	
Handwheel	Zinc Diecast (10 to 20) / Aluminum Diecast (25 to 50) / Ductile iron (65 & 80)	
Bonnet ring*	Stainless steel	
Gasket*	Asbestos-free	
Packing washer	316SS (10 to 50)	
Name plate	Aluminum	

*Size 2 1/2" 이상

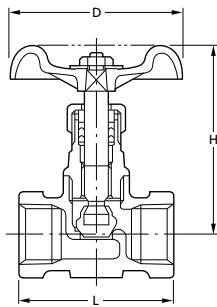
Nominal Size	Unit: mm								
	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
L	85	85	95	110	130	150	180	210	240
H	109	111	112	142	150	171	189	253	280
D	60	60	70	90	90	100	115	180	225

Type 200

GLOBE VALVE

Pressure-Temperature Rating: 1.0 MPa: 180°C

AKUCLM



Parts	AKUCLM
Body	CF8M
Bonnet	CF8M
Stem	316SS
Disc	316SS
Gland	316SS
Gland packing	Refer to Page 10
Packing nut	CF8
Handwheel	Zinc Diecast (1/4 to 1) / Aluminum Diecast (1 1/4 to 2)
Name plate	Aluminum

Face to face dimensions: KITZ Std.
End thread dimensions: ASME B1.20.1
Wall thickness: KITZ Std.

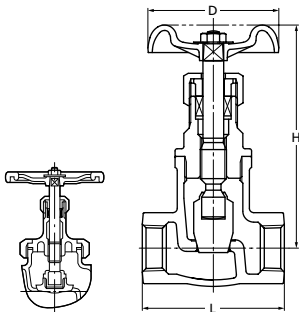
Nominal Size	Unit: mm								
	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
L	44	48	52	60	72	80	90	100	
H	68	68	68	93	100	122	138	153	
D	55	55	55	60	70	80	90	100	

Type 200

GLOBE VALVE

Pressure-Temperature Rating: 1.0 MPa: 180°C

AKUJM



2 1/2 and larger

2 and smaller



Parts	AKUJM
Body	CF8M
Bonnet	CF8M
Stem	316SS
Disc	316SS
Gland	316SS
Gland packing	Refer to Page 10
Packing nut	304SS
Handwheel	Zinc Diecast (3/8 to 3/4) Aluminum Diecast (1 to 2) Ductile iron (2 1/2 to 3)
Bonnet ring*	Stainless steel
Gasket*	Asbestos-free sheet
Packing washer	316SS
Name plate	Aluminum

*Size 2 1/2 이상

Face to face dimensions: KITZ Std.
End thread dimensions: ASME B1.20.1
Wall thickness: KITZ Std.

Nominal Size	Unit: mm								
	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
L	55	65	80	90	105	120	140	180	200
H	109	111	112	142	150	171	189	253	280
D	60	60	70	90	90	100	115	180	225

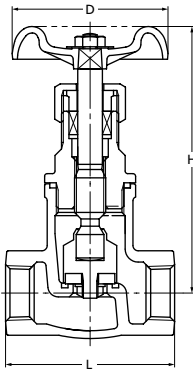
10K

GLOBE VALVE with PTFE DISC

Pressure-Temperature Rating: 1.0 MPa: 180°C

UD

UDM



Face to face dimensions: JIS B2011
End thread dimensions: JIS B0203
Wall thickness: KITZ Std.

Parts	UD	UDM
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	304SS	316SS
Disc	PTFE	
Disc holder	304SS	316SS
Gland	304SS	316SS
Gland packing	Refer to Page 10	
Packing nut	304SS	
Handwheel	Zinc Diecast (10 to 20) / Aluminum Diecast (25 to 50)	
Gasket	PTFE	
Packing washer	316SS	
Name plate	Aluminum	

Nominal Size	Unit: mm						
	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	55	65	80	90	105	120	140
H	109	112	113	143	150	171	189
D	60	60	70	90	90	100	115

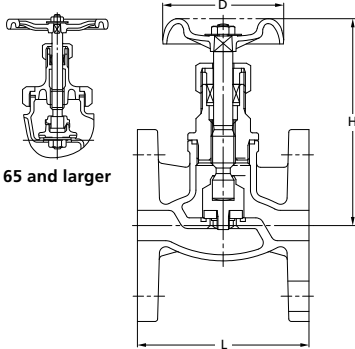
10K

GLOBE VALVE with PTFE DISC

Pressure-Temperature Rating: 1.0 MPa: 180°C

UDB

UDBM



65 and larger



Face to face dimensions: JIS B2011
End flange dimensions: JIS B2220*
Wall thickness: KITZ Std.

Parts	UDB	UDBM
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	304SS	316SS
Disc	PTFE	
Disc holder	304SS	316SS
Gland	304SS	316SS
Gland packing	Refer to Page 10	
Packing nut	304SS	
Handwheel	Zinc Diecast (15 & 20) / Aluminum Diecast (25 to 50) / Ductile iron (65 & 80)	
Bonnet ring*	Stainless steel	
Gasket*	PTFE	
Packing washer	316SS	
Name plate	Aluminum	

*Size 65 이상

*Flange 두께 제외

Nominal Size	Unit: mm							
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
L	85	95	110	130	150	180	210	240
H	112	113	143	150	171	189	252	277
D	60	70	90	90	100	115	180	225

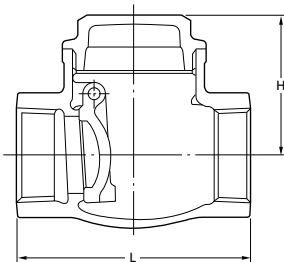
10K

SWING CHECK VALVE

Pressure-Temperature Rating: 1.0 MPa: 180°C

UO

UOM



Face to face dimensions: JIS B2011*
End thread dimensions: JIS B0203
Wall thickness: KITZ Std.

*Size 65A 와 80A에 대한 KITZ 표준

Parts	UO	UOM
Body	SCS13A	SCS14A
Cap	304SS	316SS
Disc	SCS13A	SCS14A
Hinge pin	304SS	316SS
Plug	304SS	316SS

Nominal Size	Unit: mm							
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
L	65	80	90	105	120	140	180	200
H	45	55	61	71	72	81	93	104

10K

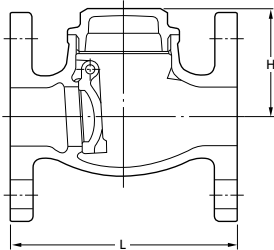
SWING CHECK VALVE

Pressure-Temperature Rating: 1.0 MPa: 180°C

UOB

UOBM

Parts	UOB	UOBM
Body	SCS13A	SCS14A
Cap	304SS	316SS
Disc	SCS13A	SCS14A
Hinge pin	304SS	316SS
Plug	304SS	316SS



Face to face dimensions: JIS B2002 *Flange 두께 제외
 End flange dimensions: JIS B2220*
 Wall thickness: KITZ Std.

Nominal Size	Unit: mm							
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
L	85	95	110	130	150	180	210	240
H	45	55	61	71	72	81	93	104

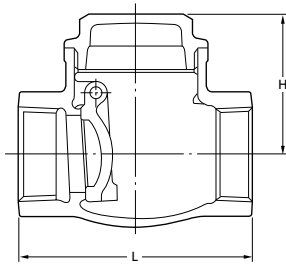
TYPE 200

SWING CHECK VALVE

Pressure-Temperature Rating: 1.0 MPa: 180°C

AKUOM

Parts	AKUOM
Body	CF8M
Cap	316SS
Disc	CF8M
Hinge pin	316SS
Plug	316SS



Face to face dimensions: KITZ Std.
 End thread dimensions: ASME B1.20.1
 Wall thickness: KITZ Std.

Nominal Size	Unit: mm							
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
L	65	80	90	105	120	140	180	200
H	45	55	61	71	72	81	93	104

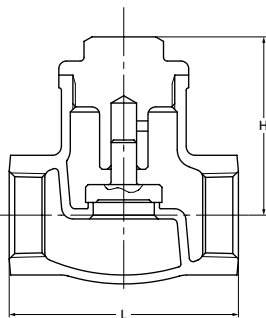
10K

LIFT CHECK VALVE

Pressure-Temperature Rating: 1.0 MPa: 180°C

UN

Parts	UN
Body	SCS13A
Cap	304SS
Disc	304SS



Face to face dimensions: JIS B2011
 End thread dimensions: JIS B0203
 Wall thickness: KITZ Std.

Nominal Size	Unit: mm						
	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	55	65	80	90	105	120	140
H	50	53	54	62	66	76	85

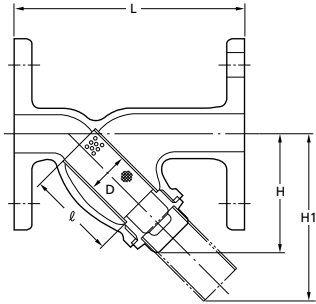
10K

Y-PATTERN STRAINER

Pressure-Temperature Rating: 1.0 MPa: 180°C

UYB

UYBM



Parts	UYB	UYBM
Body	SCS13A	SCS14A
Cover	304SS	316SS
Gasket	Reinforced PTFE	
Screen	304SS	316SS

Face to face dimensions: KITZ Std. *Flange 두께 제외
 End flange dimensions: JIS B2220*
 Wall thickness: KITZ Std.

Nominal Size	Unit: mm						
	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	110	120	130	150	170	190	220
H	50	58	66	78	93	104	122
H1	67	80	91	109	132	145	174
D	15	18	23	30	39	46	58
l	36	43	48	58	69	75	90

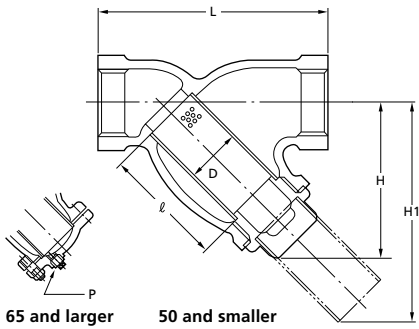
20K

Y-PATTERN STRAINER

Pressure-Temperature Rating: 2.0 MPa: 180°C

UY

UYM



Parts	UY	UYM
Body	SCS13A	SCS14A
Cover	304SS	316SS
Gasket	Reinforced PTFE	
Screen	304SS	316SS
Cover bolt/nut*	B8/8	
Plug*	304SS	316SS

*Size 65A 이상
 Note: Screen 은 SUS304/316으로 강화된 40-mesh stainless wire net입니다.

Face to face dimensions: KITZ Std.
 End thread dimensions: JIS B0203
 Wall thickness: KITZ Std.

Nominal Size	Unit: mm									
	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
L	65	70	85	100	115	135	150	180	220	250
H	50	50	60	65	77	90	100	115	150	193
H1	67	68	80	90	107	128	140	165	215	267
D	15	15	18	23	30	39	46	58	72	86
l	36	36	43	48	58	69	75	90	120	150
P	—	—	—	—	—	—	—	—	Rc1/2	Rc1/2

CLASS 150 GATE VALVE

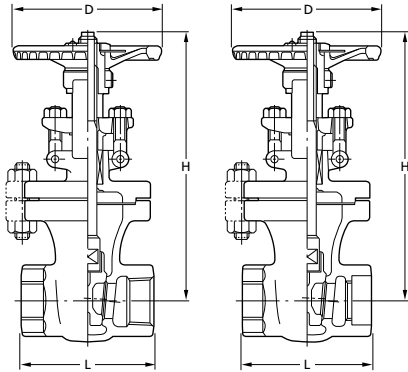
Pressure-Temperature Rating: ASME B16.34

AK150UMM

• Threaded ends

AW150UMM

• Socket welding ends



• Threaded ends

• Socket welding ends



Parts	Material	Parts	Material
Body	CF3M	Handwheel	Ductile iron
Bonnet	CF8M	Gasket	Refer to Page 10
Stem	316SS	Bonnet bolt/nut	B8/8
Disc	CF8M	Gland bolt/nut	Stainless steel
Gland	316SS	Yoke sleeve	Ductile Ni-resist
Gland packing	Refer to Page 10	Name plate	Aluminum
Gland flange	Stainless steel		

End to end: KITZ Std.
 Connecting threads: ASME B1.20.1
 Connecting sockets: ASME B16.11
 Wall thickness: ASME B16.34 Class 150

Nominal Size	AK150UMM					AW150UMM					
	1/2	3/4	1	1 1/2	2	1/2	3/4	1	1 1/2	2	
L	in.	2.76	2.99	3.50	4.49	4.76	2.64	2.87	3.39	4.37	4.65
	mm	70	76	89	114	121	67	73	86	111	118
H (open)	in.	7.76	8.03	8.66	10.9	13.2	7.76	8.03	8.66	10.9	13.2
	mm	197	204	220	276	336	197	204	220	276	336
D	in.	3.54	3.54	3.94	5.51	6.30	3.54	3.54	3.94	5.51	6.30
	mm	90	90	100	140	160	90	90	100	140	160

CLASS 300 GATE VALVE

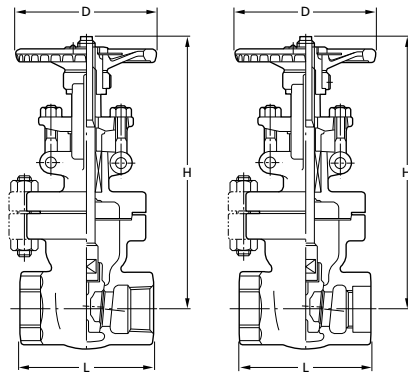
Pressure-Temperature Rating: ASME B16.34

AK300UMM

• Threaded ends

AW300UMM

• Socket welding ends



• Threaded ends

• Socket welding ends



Parts	Material	Parts	Material
Body	CF3M	Handwheel	Ductile iron
Bonnet	CF8M	Gasket	Refer to Page 10
Stem	316SS	Bonnet bolt/nut	B8/8
Disc	CF8M	Gland bolt/nut	Stainless steel
Gland	316SS	Yoke sleeve	Ductile Ni-resist
Gland packing	Refer to Page 10	Name plate	Aluminum
Gland flange	Stainless steel		

Note: 모든 크기에 Flexible Wedge가 가능합니다.

End to end: KITZ Std.
 Connecting threads: ASME B1.20.1
 Connecting sockets: ASME B16.11
 Wall thickness: ASME B16.34 Class 300

Nominal Size	AK300UMM					AW300UMM					
	1/2	3/4	1	1 1/2	2	1/2	3/4	1	1 1/2	2	
L	in.	2.99	3.27	3.74	5.00	5.75	2.87	3.15	3.62	4.88	5.63
	mm	76	83	95	127	146	73	80	92	124	143
H (open)	in.	7.95	8.35	9.06	11.2	14.0	7.95	8.35	9.06	11.2	14.0
	mm	202	212	230	285	355	202	212	230	285	355
D	in.	3.94	3.94	3.94	5.51	7.09	3.94	3.94	3.94	5.51	7.09
	mm	100	100	100	140	180	100	100	100	140	180

CLASS 600 GATE VALVE

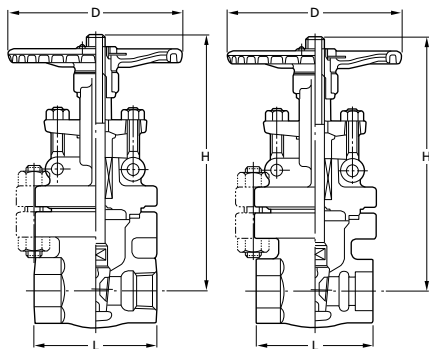
Pressure-Temperature Rating: ASME B16.34

AK600UMM

• Threaded ends

AW600UMM

• Socket welding ends



• Threaded ends

• Socket welding ends



Parts	Material	Parts	Material
Body	CF3M	Handwheel	Ductile iron
Bonnet	CF8M	Gasket	Refer to Page 10
Stem	316SS	Bonnet bolt/nut	B8/8
Disc	CF8M	Gland bolt/nut	Stainless steel
Gland	316SS	Yoke sleeve	Ductile Ni-resist
Gland packing	Refer to Page 10	Name plate	Aluminum
Gland flange	Stainless steel		

Note: 모든 크기에 Flexible Wedge가 가능합니다.

End to end: KITZ Std.
 Connecting threads: ASME B1.20.1
 Connecting sockets: ASME B16.11
 Wall thickness: ASME B16.34 Class 600

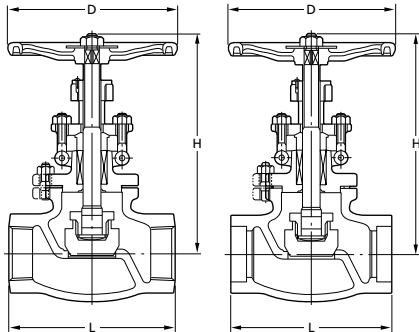
Nominal Size	AK600UMM					AW600UMM					
	1/2	3/4	1	1 1/2	2	1/2	3/4	1	1 1/2	2	
L	in.	2.99	3.27	3.74	5.00	5.75	2.87	3.15	3.62	4.88	5.63
	mm	76	83	95	127	146	73	80	92	124	143
H (open)	in.	7.91	8.46	9.45	12.8	15.2	7.91	8.46	9.45	12.8	15.2
	mm	201	215	240	325	385	201	215	240	325	385
D	in.	3.94	3.94	5.51	7.09	7.87	3.94	3.94	5.51	7.09	7.87
	mm	100	100	140	180	200	100	100	140	180	200

CLASS 150 GLOBE VALVE

Pressure-Temperature Rating: ASME B16.34

AK150UPM • Threaded ends

AW150UPM • Socket welding ends



• Threaded ends • Socket welding ends



Parts	Material	Parts	Material
Body	CF3M	Gasket	Refer to Page 10
Bonnet	CF8M	Gland flange	Stainless steel
Stem	316SS	Bonnet bolt/nut	B8/8
Disc	316SS	Gland bolt/nut	Stainless steel
Gland	316SS	Yoke bush	Ductile Ni-resist
Gland packing	Refer to Page 10	Name plate	Aluminum
Handwheel	Ductile iron		

End flange dimensions: KITZ Std.
 Connecting threads: ASME B1.20.1
 Connecting sockets: ASME B16.11
 Wall thickness: ASME B16.34 Class 150

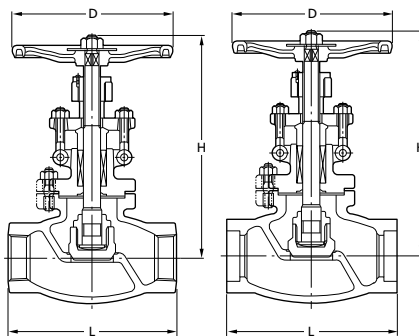
Nominal Size	AK150UPM					AW150UPM					
	1/2	3/4	1	1 1/2	2	1/2	3/4	1	1 1/2	2	
L	in.	3.39	3.74	4.25	5.51	6.50	3.27	3.62	4.13	5.39	6.38
	mm	86	95	108	140	165	83	92	105	137	162
H (open)	in.	6.46	6.54	6.65	7.80	8.98	6.46	6.54	6.65	7.80	8.98
	mm	164	166	169	198	228	164	166	169	198	228
D	in.	3.54	3.54	3.94	5.51	6.30	3.54	3.54	3.94	5.51	6.30
	mm	90	90	100	140	160	90	90	100	140	160

CLASS 300 GLOBE VALVE

Pressure-Temperature Rating: ASME B16.34

AK300UPM • Threaded ends

AW300UPM • Socket welding ends



• Threaded ends • Socket welding ends

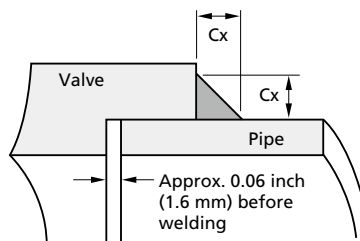


Parts	Material	Parts	Material
Body	CF3M	Handwheel	Ductile iron
Bonnet	CF8M	Gasket	Refer to Page 10
Stem	316SS	Bonnet bolt/nut	B8/8
Disc	316SS (1/2 to 1 1/2) / CF8M (2)	Gland bolt/nut	Stainless steel
Gland	316SS	Yoke bush	Ductile Ni-resist
Gland packing	Refer to Page 10	Name plate	Aluminum
Gland flange	Stainless steel		

End flange dimensions: KITZ Std.
 Connecting threads: ASME B1.20.1
 Connecting sockets: ASME B16.11
 Wall thickness: ASME B16.34 Class 300

Nominal Size	AK300UPM					AW300UPM					
	1/2	3/4	1	1 1/2	2	1/2	3/4	1	1 1/2	2	
L	in.	3.74	4.25	5.00	6.50	7.48	3.62	4.13	4.88	6.38	7.36
	mm	95	108	127	165	190	92	105	124	162	187
H (open)	in.	7.24	7.17	7.28	9.17	11.38	7.24	7.17	7.28	9.17	11.4
	mm	184	182	185	233	289	184	182	185	233	289
D	in.	3.94	3.94	3.94	6.30	7.09	3.94	3.94	3.94	6.30	7.09
	mm	100	100	100	160	180	100	100	100	160	180

Welding Dimensions Required for Socket Welding Valves



Minimum Leg of Fillet Weld. Cx

(from ASME B16.11)

Unit: inches (mm)

Sch. No.	1/2	3/4	1	1 1/2	2
5S/10S	0.125 (3.2)				
40			0.145 (3.7)	0.159 (4.0)	0.168 (4.3)
80	0.161 (4.0)	0.168 (4.3)	0.196 (5.0)	0.218 (5.6)	0.238 (6.1)
160	0.205 (5.3)	0.239 (6.1)	0.273 (7.0)	0.307 (7.8)	0.375 (9.6)

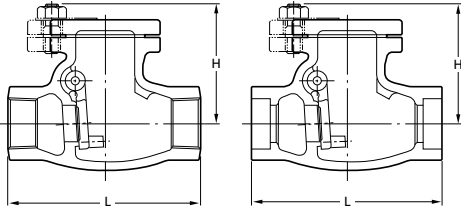
CLASS 150 SWING CHECK VALVE

Pressure-Temperature Rating: ASME B16.34

AK150UOM • Threaded ends

AW150UOM • Socket welding ends

Parts	Material	Parts	Material
Body	CF3M	Plug	316SS
Cover	CF8M	Gasket	Refer to Page 10
Disc	CF8M	Cover bolt/nut	B8/8
Hinge pin	316SS	Name plate	Aluminum



End to end: KITZ Std.
 Connecting threads: ASME B1.20.1
 Connecting sockets: ASME B16.11
 Wall thickness: ASME B16.34 Class 150

• Threaded ends

• socket welding ends

Nominal Size	AK150UOM					AW150UOM					
	1/2	3/4	1	1 1/2	2	1/2	3/4	1	1 1/2	2	
L	in.	3.74	3.74	5.00	5.98	6.50	3.62	3.62	4.88	5.87	6.38
	mm	95	95	127	152	165	92	92	124	149	162
H	in.	2.95	3.15	3.35	4.21	4.53	2.95	3.15	3.35	4.21	4.53
	mm	75	80	85	107	115	75	80	85	107	115

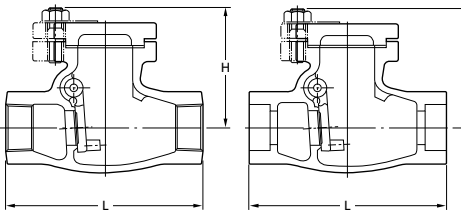
CLASS 300 SWING CHECK VALVE

Pressure-Temperature Rating: ASME B16.34

AK300UOM • Threaded ends

AW300UOM • Socket welding ends

Parts	Material	Parts	Material
Body	CF3M	Plug	316SS
Cover	CF8M	Gasket	Refer to Page 10
Disc	CF8M	Cover bolt/nut	B8/8
Hinge pin	316SS	Name plate	Aluminum



End to end: KITZ Std.
 Connecting threads: ASME B1.20.1
 Connecting sockets: ASME B16.11
 Wall thickness: ASME B16.34 Class 300

• Threaded ends

• socket welding ends

Nominal Size	AK300UOM					AW300UOM					
	1/2	3/4	1	1 1/2	2	1/2	3/4	1	1 1/2	2	
L	in.	4.49	5.00	5.51	5.98	6.50	4.37	4.88	5.39	5.87	6.38
	mm	114	127	140	152	165	111	124	137	149	162
H	in.	3.19	3.43	3.58	4.61	5.47	3.19	3.43	3.58	4.61	5.47
	mm	81	87	91	117	139	81	87	91	117	139

Socket Welding Joints 설치시 주의사항

용접 하기 전, 소켓(Socket)의 밑부분을 배관과 반대방향으로 돌 때, Fillet Welds(필릿용접)의 균열현상을 막기 위하여 배관을 0.06인치(1.6mm)정도 소켓 밑부분과 떨어트려 놓아야 합니다.

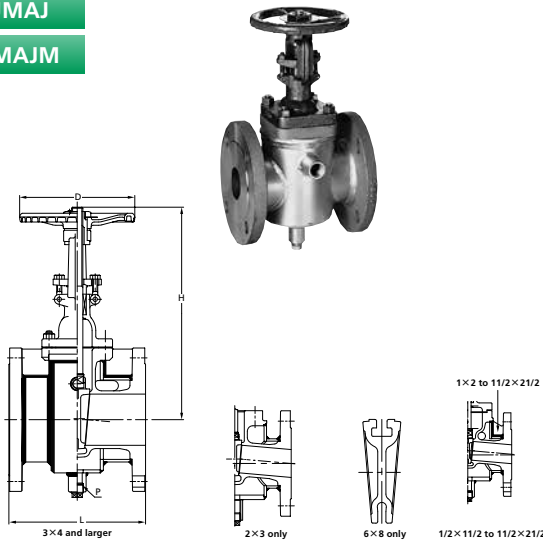
밸브 Disc를 약간 개방한 상태에서 용접이 진행되어야 하고, 밸브가 과열되는것을 예방하기 위하여 용접될 부분과 알맞은 크기와 모양을 가진 용접재(막대 또는 전선)를 사용하여야 합니다.

CLASS 150 FULL JACKETED GATE VALVE

Pressure-Temperature Rating: ASME B16.34

150UMAJ

150UMAJM



Materials

Parts	150UMAJ	150UMAJM
Body	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc	CF8	CF8M
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke sleeve	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Name plate	Aluminum	
Jacket*	Carbon steel	

*서비스 온도에 따라 재질이 변경됩니다.
 Note: * Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 * 모든 크기에 Flexible Wedge가 적용됩니다.

Items	
Face to face dimensions	KITZ Std.
End flange dimensions	ASME B16.5 Class 150
Wall thickness	ASME B16.34 Class 150

Nominal Size		1/2x1 1/2	3/4x1 1/2	1x2	1 1/2x2 1/2	2x3	3x4	4x6	6x8
		15x40	20x40	25x50	40x65	50x80	80x100	100x150	150x200
L	in.	6.50	6.50	6.97	7.36	7.99	9.02	10.5	11.5
	mm	165	165	177	187	203	229	267	292
H (open)	in.	8.03	8.43	9.17	11.3	13.2	17.5	20.6	28.0
	mm	204	214	233	286	336	444	523	710
D	in.	3.94	3.94	3.94	5.51	6.30	7.87	8.86	9.84
	mm	100	100	100	140	160	200	225	250
P		Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc3/4	Rc3/4

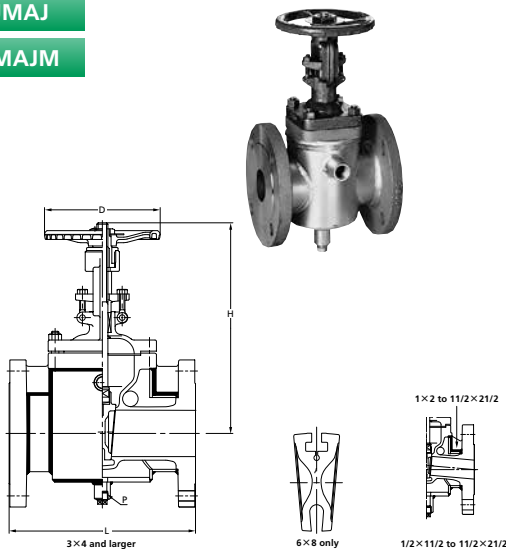
*공칭크기(Nominal Size)는 [밸브 공칭크기]와 [Flange 공칭 크기] 로 표시됩니다.

CLASS 300 FULL JACKETED GATE VALVE

Pressure-Temperature Rating: ASME B16.34

300UMAJ

300UMAJM



Materials

Parts	300UMAJ	300UMAJM
Body	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc	CF8	CF8M
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke sleeve	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Name plate	Aluminum	
Jacket*	Carbon steel	

*서비스 온도에 따라 재질이 변경됩니다.
 *Note: * Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 * 모든 크기에 Flexible Wedge가 적용됩니다.

Items	
Face to face dimensions	KITZ Std.
End flange dimensions	ASME B16.5 Class 300
Wall thickness	ASME B16.34 Class 300

Nominal Size		1/2x1 1/2	3/4x1 1/2	1x2	1 1/2x2 1/2	2x3	3x4	4x6	6x8
		15x40	20x40	25x50	40x65	50x80	80x100	100x150	150x200
L	in.	7.01	7.01	7.48	7.99	11.1	12.0	15.9	18.0
	mm	178	178	190	203	283	305	403	457
H (open)	in.	7.83	8.39	9.13	11.1	13.9	18.5	22.1	29.7
	mm	199	213	232	283	353	470	560	753
D	in.	3.94	3.94	3.94	5.51	7.09	8.86	9.84	13.8
	mm	100	100	100	140	180	225	250	350
P		Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc3/4	Rc3/4

*공칭크기(Nominal Size)는 [밸브 공칭크기]와 [Flange 공칭 크기] 로 표시됩니다.

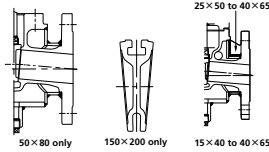
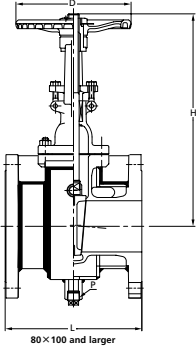
10K

FULL JACKETED GATE VALVE

Pressure-Temperature Rating: JIS B2220

10UMAJ

10UMAJM



Materials

Parts	10UMAJ	10UMAJM
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	304SS	316SS
Disc	SCS13A	SCS14A
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke sleeve	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Name plate	Aluminum	
Jacket*	Carbon steel	

*서비스 온도에 따라 재질이 변경됩니다.
 Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 • 모든 크기에 Flexible Wedge가 적용됩니다.

Items	
Face to face dimensions	KITZ Std.
End flange dimensions	JIS B2220 10K
Wall thickness	ASME B16.34 Class 150

Unit: mm

Nominal Size	1/2×1 1/2	3/4×1 1/2	1×2	1 1/2×2 1/2	2×3	3×4	4×6	6×8
	15×40	20×40	25×50	40×65	50×80	80×100	100×150	150×200
L	169	169	177	188	201	217	260	279
H (open)	204	214	233	286	336	444	523	710
D	100	100	100	140	160	200	225	250
P	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc3/4	Rc3/4

*공칭크기(Nominal Size)는 [밸브 공칭크기]와 [Flange 공칭 크기]로 표시됩니다.

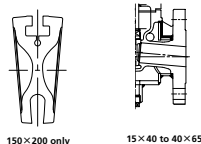
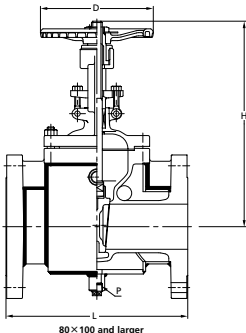
20K

FULL JACKETED GATE VALVE

Pressure-Temperature Rating: JIS B2220

20UMAJ

20UMAJM



Materials

Parts	20UMAJ	20UMAJM
Body	SCS13A	SCS14A
Bonnet	SCS13A	SCS14A
Stem	SUS304	SUS316
Disc	SCS13A	SCS14A
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke sleeve	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Name plate	Aluminum	
Jacket*	Carbon steel	

*서비스 온도에 따라 재질이 변경됩니다.
 Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.
 • 모든 크기에 Flexible Wedge가 적용됩니다.

Items	
Face to face dimensions	KITZ Std.
End flange dimensions	JIS B2220 20K
Wall thickness	ASME B16.34 Class 300

Unit: mm

Nominal Size	1/2×1 1/2	3/4×1 1/2	1×2	1 1/2×2 1/2	2×3	3×4	4×6	6×8
	15×40	20×40	25×50	40×65	50×80	80×100	100×150	150×200
L	173	173	181	192	270	289	386	434
H (open)	209	220	239	294	353	470	560	753
D	100	100	100	140	180	225	250	350
P	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc3/4	Rc3/4

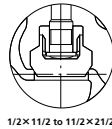
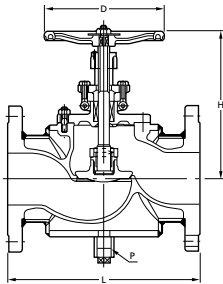
*공칭크기(Nominal Size)는 [밸브 공칭크기]와 [Flange 공칭 크기]로 표시됩니다.

CLASS 150 JACKETED GLOBE VALVE

Pressure-Temperature Rating:
ASME B16.34

150UPAJ

150UPAJM



Materials

Parts	150UPAJ	150UPAJM
Body	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc	1/2x11/2 to 2x3	304SS
	3x4 & 4x6	CF8
Lock nut	1/2x11/2 to 11/2x21/2	304SS
	2x3 to 4x6	CF8
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke bush	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Name plate	Aluminum	
Jacket*	Carbon steel	

*서비스 온도에 따라 재질이 변경됩니다.

*Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items	
Face to face dimensions	KITZ Std.
End flange dimensions	ASME B16.5 Class 150
Wall thickness	ASME B16.34 Class 150

Nominal Size	1/2 x 1 1/2		3/4 x 1 1/2		1 x 2		1 1/2 x 2 1/2		2 x 3		3 x 4		4 x 6	
	15 x 40		20 x 40		25 x 50		40 x 65		50 x 80		80 x 100		100 x 150	
L	in.	5.98	5.98	7.48	8.39	9.49	11.5	14.0						
	mm	152	152	190	213	241	292	356						
H (open)	in.	7.32	7.32	7.36	9.29	9.33	11.5	12.8						
	mm	186	186	187	236	237	293	326						
D	in.	3.94	3.94	3.94	6.30	6.30	7.87	8.86						
	mm	100	100	100	160	160	200	225						
P		Rc 1/2	Rc 1/2	Rc 1/2	Rc 1/2	Rc 1/2	Rc 1/2	Rc 3/4						

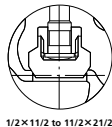
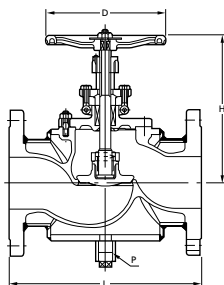
*공칭크기(Nominal Size)는 [밸브 공칭크기]와 [Flange 공칭 크기]로 표시됩니다.

CLASS 300 JACKETED GLOBE VALVE

Pressure-Temperature Rating:
ASME B16.34

300UPAJ

300UPAJM



Materials

Parts	300UPAJ	300UPAJM
Body	CF8	CF8M
Bonnet	CF8	CF8M
Stem	304SS	316SS
Disc	1/2x11/2 to 2x3	304SS
	3x4 & 4x6	CF8
Lock nut	1/2x11/2 to 11/2x21/2	304SS
	2x3 to 4x6	CF8
Gland	304SS	316SS
Gland flange	Stainless steel	
Gland packing	Refer to Page 10	
Gasket	Refer to Page 10	
Yoke bush	Ductile Ni-resist	
Handwheel	Ductile iron	
Gland bolt/nut	Stainless steel	
Gland bolt pin	Stainless steel	
Bonnet bolt/nut	B8/8	
Name plate	Aluminum	
Jacket*	Carbon steel	

*서비스 온도에 따라 재질이 변경됩니다.

*Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items	
Face to face dimensions	KITZ Std.
End flange dimensions	ASME B16.5 Class 300
Wall thickness	ASME B16.34 Class 300

Nominal Size	1/2 x 1 1/2		3/4 x 1 1/2		1 x 2		1 1/2 x 2 1/2		2 x 3		3 x 4		4 x 6	
	15 x 40		20 x 40		25 x 50		40 x 65		50 x 80		80 x 100		100 x 150	
L	in.	6.50	6.50	7.99	9.02	10.5	12.5	14.0						
	mm	165	165	203	229	267	318	356						
H (open)	in.	7.32	7.32	7.36	9.29	11.4	13.5	15.7						
	mm	186	186	187	236	289	343	398						
D	in.	3.94	3.94	3.94	6.30	7.09	9.84	11.8						
	mm	100	100	100	160	180	250	300						
P		Rc 1/2	Rc 1/2	Rc 1/2	Rc 1/2	Rc 1/2	Rc 1/2	Rc 3/4						

*공칭크기(Nominal Size)는 [밸브 공칭크기]와 [Flange 공칭 크기]로 표시됩니다.

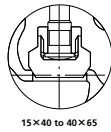
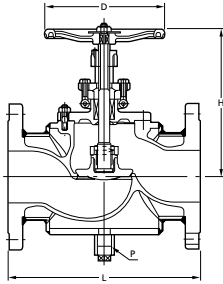
10K

JACKETED GLOBE VALVE

Pressure-Temperature Rating: JIS B2220

10UPAJ

10UPAJM



Materials

Parts	10UPAJ	10UPAJM	
Body	SCS13A	SCS14A	
Bonnet	SCS13A	SCS14A	
Stem	304SS	316SS	
Disc	15x40 to 50x80	304SS	316SS
	80x100 & 100x150	SCS13A	SCS14A
Lock nut	15x40 to 40x65	304SS	316SS
	80x100 to 100x150	SCS13A	SCS14A
Gland	304SS	316SS	
Gland flange	Stainless steel		
Gland packing	Refer to Page 10		
Gasket	Refer to Page 10		
Yoke bush	Ductile Ni-resist		
Handwheel	Ductile iron		
Gland bolt/nut	Stainless steel		
Gland bolt pin	Stainless steel		
Bonnet bolt/nut	B8/8		
Name plate	Aluminum		
Jacket*	Carbon steel		

*서비스 온도에 따라 재질이 변경됩니다.

*Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items

Face to face dimensions	KITZ Std.
End flange dimensions	JIS B2220 10K
Wall thickness	ASME B16.34 Class 150

Unit: mm

Nominal Size	1/2x1 1/2	3/4x1 1/2	1x2	1 1/2x2 1/2	2x3	3x4	4x6
	15x40	20x40	25x50	40x65	50x80	80x100	100x150
L	156	156	190	214	239	280	349
H (open)	186	186	187	236	237	293	326
D	100	100	100	160	160	200	225
P	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc3/4

*공칭크기(Nominal Size)는 [밸브 공칭크기]와 [Flange 공칭 크기]로 표시됩니다.

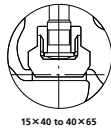
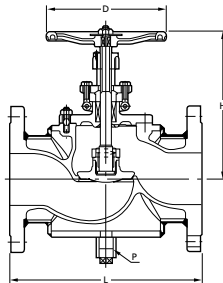
20K

JACKETED GLOBE VALVE

Pressure-Temperature Rating: JIS B2220

20UPAJ

20UPAJM



Materials

Parts	20UPAJ	20UPAJM	
Body	SCS13A	SCS14A	
Bonnet	SCS13A	SCS14A	
Stem	304SS	316SS	
Disc	15x40 to 40x65	304SS (1/2 to 1 1/2)	316SS (1/2 to 1 1/2)
	50x80 to 100x150	SCS13A (2 to 4)	SCS14A (2 to 4)
Lock nut	15x40 to 40x65	304SS	316SS
	50x80 to 100x150	SCS13A	SCS14A
Gland	304SS	316SS	
Gland flange	Stainless steel		
Gland packing	Refer to Page 10		
Gasket	Refer to Page 10		
Yoke bush	Ductile Ni-resist		
Handwheel	Ductile iron		
Gland bolt/nut	Stainless steel		
Gland bolt pin	Stainless steel		
Bonnet bolt/nut	B8/8		
Name plate	Aluminum		
Jacket*	Carbon steel		

*서비스 온도에 따라 재질이 변경됩니다.

*Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items

Face to face dimensions	KITZ Std.
End flange dimensions	JIS B2220 20K
Wall thickness	ASME B16.34 Class 300

Unit: mm

Nominal Size	1/2x1 1/2	3/4x1 1/2	1x2	1 1/2x2 1/2	2x3	3x4	4x6
	15x40	20x40	25x50	40x65	50x80	80x100	100x150
L	160	160	194	218	254	302	339
H (open)	186	186	187	236	289	343	398
D	100	100	100	160	180	250	300
P	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc3/4

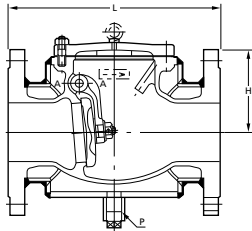
*공칭크기(Nominal Size)는 [밸브 공칭크기]와 [Flange 공칭 크기]로 표시됩니다.

CLASS 150 JACKETED SWING CHECK VALVE

Pressure-Temperature Rating:
ASME B16.34

150UOAJ

150UOAJM



Materials

Parts	150UOAJ	150UOAJM
Body	CF8	CF8M
Cover	CF8	CF8M
Disc	CF8	CF8M
Gasket	Refer to Page 10	
Hinge pin	304SS	316SS
Plug	304SS	316SS
Cover bolt/nut	B8/8	
Split pin	316LSS	
Jacket*	Carbon steel	

*서비스 온도에 따라 재질이 변경됩니다.

*Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items

Face to face dimensions	KITZ Std.
End flange dimensions	ASME B16.5 Class 150
Wall thickness	ASME B16.34 Class 150

Nominal Size	2×3		3×4		4×6		6×8	
	50×80		80×100		100×150		150×200	
L	in.	9.49	11.5		14.0		16.0	
	mm	241	292		356		406	
H	in.	4.92	5.98		6.65		8.62	
	mm	125	152		169		219	
P	Rc1/2		Rc1/2		Rc3/4		Rc3/4	

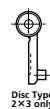
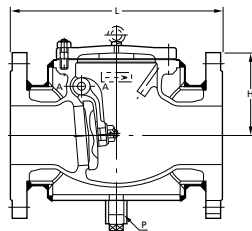
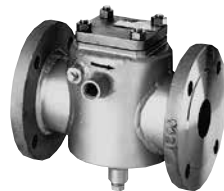
*공칭크기(Nominal Size) 는 [밸브 공칭크기]와 [Flange 공칭 크기] 로 표시됩니다.

CLASS 300 JACKETED SWING CHECK VALVE

Pressure-Temperature Rating:
ASME B16.34

300UOAJ

300UOAJM



Materials

Parts	300UOAJ	300UOAJM
Body	CF8	CF8M
Cover	CF8	CF8M
Disc	CF8	CF8M
Gasket	Refer to Page 10	
Hinge pin	304SS	316SS
Plug	304SS	316SS
Cover bolt/nut	B8/8	
Split pin	316LSS	
Jacket*	Carbon steel	

*서비스 온도에 따라 재질이 변경됩니다.

*Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items

Face to face dimensions	KITZ Std.
End flange dimensions	ASME B16.5 Class 300
Wall thickness	ASME B16.34 Class 300

Nominal Size	2×3		3×4		4×6		6×8	
	50×80		80×100		100×150		150×200	
L	in.	10.5	13.0		15.7		17.5	
	mm	267	330		400		444	
H	in.	5.91	7.05		7.99		10.3	
	mm	150	179		203		262	
P	Rc1/2		Rc1/2		Rc3/4		Rc3/4	

*공칭크기(Nominal Size) 는 [밸브 공칭크기]와 [Flange 공칭 크기] 로 표시됩니다.

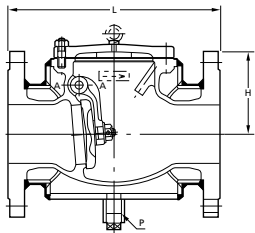
10K

JACKETED SWING CHECK VALVE

Pressure-Temperature Rating: JIS B2220

10UOAJ

10UOAJM



Materials

Parts	10UOAJ	10UOAJM
Body	SCS13A	SCS14A
Cover	SCS13A	SCS14A
Disc	SCS13A	SCS14A
Gasket	Refer to Page 10	
Hinge pin	304SS	316SS
Plug	304SS	316SS
Cover bolt/nut	B8/8	
Split pin	316LSS	
Jacket*	Carbon steel	

*서비스 온도에 따라 재질이 변경됩니다.
*Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items

Face to face dimensions	KITZ Std.
End flange dimensions	JIS B2220 10K
Wall thickness	ASME B16.34 Class 150

Unit: mm

Nominal Size	2×3	3×4	4×6	6×8
	50×80	80×100	100×150	150×200
L	239	280	349	393
H	125	152	169	219
P	Rc1/2	Rc1/2	Rc3/4	Rc3/4

*공칭크기(Nominal Size)는 [밸브 공칭크기]와 [Flange 공칭 크기]로 표시됩니다.

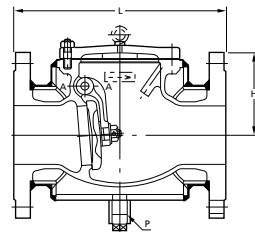
20K

JACKETED SWING CHECK VALVE

Pressure-Temperature Rating: JIS B2220

20UOAJ

20UOAJM



Materials

Parts	20UOAJ	20UOAJM
Body	SCS13A	SCS14A
Cover	SCS13A	SCS14A
Disc	SCS13A	SCS14A
Gasket	Refer to Page 10	
Hinge pin	304SS	316SS
Plug	304SS	316SS
Cover bolt/nut	B8/8	
Split pin	316LSS	
Jacket*	Carbon steel	

*서비스 온도에 따라 재질이 변경됩니다.
*Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items

Face to face dimensions	KITZ Std.
End flange dimensions	JIS B2220 20K
Wall thickness	ASME B16.34 Class 300

Unit: mm

Nominal Size	2×3	3×4	4×6	6×8
	50×80	80×100	100×150	150×200
L	254	314	383	421
H	150	179	203	262
P	Rc1/2	Rc1/2	Rc3/4	Rc3/4

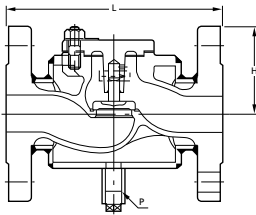
*공칭크기(Nominal Size)는 [밸브 공칭크기]와 [Flange 공칭 크기]로 표시됩니다.

CLASS 150 JACKETED LIFT CHECK VALVE

Pressure-Temperature Rating:
ASME B16.34

150UNAJ

150UNAJM



Materials

Parts	150UNAJ	150UNAJM
Body	CF8	CF8M
Cover	CF8	CF8M
Disc	304SS	316SS
Gasket	Refer to Page 10	
Cover bolt/nut	B8/8	
Jacket*	Carbon steel	

*서비스 온도에 따라 재질이 변경됩니다.

*Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items

Face to face dimensions	KITZ Std.
End flange dimensions	ASME B16.5 Class 150
Wall thickness	ASME B16.34 Class 150

Nominal Size	1/2×1 1/2		3/4×1 1/2		1×2		1 1/2×2 1/2	
	15×40		20×40		25×50		40×65	
L	in.	5.98	5.98	7.48	8.39			
	mm	152	152	190	213			
H	in.	3.07	2.99	3.03	4.02			
	mm	78	76	77	102			
P	Rc 1/2		Rc 1/2		Rc 1/2		Rc 1/2	

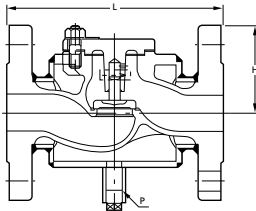
*공칭크기(Nominal Size)는 [밸브 공칭크기]와 [Flange 공칭 크기]로 표시됩니다.

CLASS 300 JACKETED LIFT CHECK VALVE

Pressure-Temperature Rating:
ASME B16.34

300UNAJ

300UNAJM



Materials

Parts	300UNAJ	300UNAJM
Body	CF8	CF8M
Cover	CF8	CF8M
Disc	304SS	316SS
Gasket	Refer to Page 10	
Cover bolt/nut	B8/8	
Jacket*	Carbon steel	

*서비스 온도에 따라 재질이 변경됩니다.

*Note: • Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items

Face to face dimensions	KITZ Std.
End flange dimensions	ASME B16.5 Class 300
Wall thickness	ASME B16.34 Class 300

Nominal Size	1/2×1 1/2		3/4×1 1/2		1×2		1 1/2×2 1/2	
	15×40		20×40		25×50		40×65	
L	in.	6.50	6.50	7.99	9.02			
	mm	165	165	203	229			
H	in.	3.07	2.99	3.03	4.02			
	mm	78	76	77	102			
P	Rc 1/2		Rc 1/2		Rc 1/2		Rc 1/2	

*공칭크기(Nominal Size)는 [밸브 공칭크기]와 [Flange 공칭 크기]로 표시됩니다.

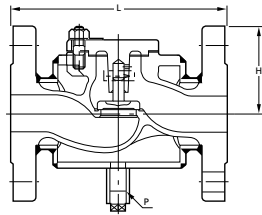
10K

JACKETED LIFT CHECK VALVE

Pressure-Temperature Rating: JIS B2220

10UNAJ

10UNAJM



Materials

Parts	10UNAJ	10UNAJM
Body	SCS13A	SCS14A
Cover	SCS13A	SCS14A
Disc	304SS	316SS
Gasket	Refer to Page 10	
Cover bolt/nut	B8/8	
Jacket*	Carbon steel	

*서비스 온도에 따라 재질이 변경됩니다.
*Note: * Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items	
Face to face dimensions	KITZ Std.
End flange dimensions	JIS B2220 10K
Wall thickness	ASME B16.34 Class 150

Unit: mm

Nominal Size	1/2×1 1/2	3/4×1 1/2	1×2	1 1/2×2 1/2
	15×40	20×40	25×50	40×65
L	156	156	190	214
H	78	76	77	102
P	Rc1/2	Rc1/2	Rc1/2	Rc1/2

*공칭크기(Nominal Size)는 [밸브 공칭크기]와 [Flange 공칭 크기]로 표시됩니다.

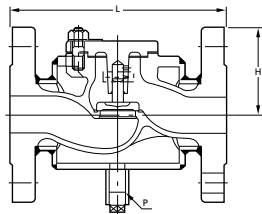
20K

JACKETED LIFT CHECK VALVE

Pressure-Temperature Rating: JIS B2220

20UNAJ

20UNAJM



Materials

Parts	20UNAJ	20UNAJM
Body	SCS13A	SCS14A
Cover	SCS13A	SCS14A
Disc	304SS	316SS
Gasket	Refer to Page 10	
Cover bolt/nut	B8/8	
Jacket*	Carbon steel	

*서비스 온도에 따라 재질이 변경됩니다.
*Note: * Body Seat 및/또는 Disc Seat는 옵션으로 Hard-faced가 가능합니다.

Items	
Face to face dimensions	KITZ Std.
End flange dimensions	JIS B2220 20K
Wall thickness	ASME B16.34 Class 300

Unit: mm

Nominal Size	1/2×1 1/2	3/4×1 1/2	1×2	1 1/2×2 1/2
	15×40	20×40	25×50	40×65
L	160	160	194	218
H	78	76	77	102
P	Rc1/2	Rc1/2	Rc1/2	Rc1/2

*공칭크기(Nominal Size)는 [밸브 공칭크기]와 [Flange 공칭 크기]로 표시됩니다.

취급시 주의사항

1. 밸브를 설치 하기 전 :

밸브를 설치하기 전, 최대 압력과 최고온도를 포함한 조건을 만족하는 적절한 밸브를 준비하여야 합니다. 모래나 찌꺼기(Scale)등 외부물질이 배관속에 남아 있을 수도 있으니 밸브를 시운전할 동안 발생할 Seat 표면 손상을 막기위하여 반드시 필터나 스트레이너(Strainer)를 사용하여 잔재물을 제거해야 합니다.

2. 밸브 설치 :

밸브를 설치할 때, 배관속 용접 잔해물 조각,찌꺼기 및 모래등 오염물질을 제거 해야 합니다. Flange End Valve 설치를 위해서 Flange의 볼트를 별모양으로 교대로 조입니다. Flange에 배관 압력 등 이상외부압력이 가해지는 부분에 지지대(Supporter)나 적절한 보호대(Protective Measure)를 설치합니다.

밸브 Body/Bonnet의 볼트장착 상태를 점검하고 이동 및 보관중 발생할수있는 잠금장치의 응력완화(Stress Relaxation)를 확인합니다.

밸브를 작동하기 전, Stem과 Yoke Sleeve에 윤활제를 도포합니다. KITZ밸브가 배송 될 때, 조립시에만 용이할 정도의 소량의 윤활제만 도포되어있다는 점을 참조하십시오.

소켓 용접 작업시에는 카탈로그 48, 49 페이지를 참조하십시오.

3. Gland 다시 조이기 :

밸브를 사용하는 동안 Gland 에서 누수가 감지된다면, 그 즉시 Gland를 다시 조여야 합니다. 밸브 손잡이를 돌리면서 누수가 멈출 때 까지 Gland를 천천히 조입니다. 이 과정 후에도 밸브작동토크(Valve Operating Torque)가 상당히 증가한다면, 밸브 보수관리 시 Packing Ring을 교체하는것을 추천합니다.

4. Packing Ring 교체 :

밸브 보수작업 중, Packing Ring을 교체하는것이 좋으나, 라인압력(Line Pressure)이 대기압의 수준으로 감소되는 경우가 아닌, 밸브가 작동 중 가압상태라면 교체하지 말아야 합니다. KITZ사의 스테인리스 강 밸브(Series A, HA, AJ, C 그리고 D)는 Backseat 또는 Bonnet Bush와 함께 제공됩니다. 만약 Gland를 다시 조임에도 불구하고 누수가 멈추지 않는다면, 밸브를 완전히 연 상태로 작동시키면서 Backseat의 Sealing기능을 이용하여 Packing Ring을 덧대거나 교체하여야 합니다.

Backseat의 Sealing 기능은 녹이나 내부에 끼어있는 이물질에 의해 제기능을 못할 때도 있습니다. 따라서 Packing Ring을 덧대거나 교체시에는 Backseat이 적절한 기능을 하기위해 반드시 이물질이 없는지 확인해야 합니다. 밸브의 가압상태가 지나칠 시, Packing Ring을 교체하는 행위는 위험할 수 있습니다. 이러한 경우, 응급 해결책으로 Packing Chamber의 상부에 새로운 Ring을 덧대거나 교체하여야 합니다.

Packing Ring을 교체하기 위하여, Gland Bolt를 먼저 제거하고 Packing Ring을 제거합니다. Packing Chamber와 Stem을 깨끗이 닦습니다. 모든 슬라이딩 부품(Sliding parts :미끄러지는 부분)의 상태를 확인한 후, 조심스럽게 새로운 Packing Ring을 설치합니다. 새로 설치할 Packing Ring을 가볍게 몇번 누른 후, Gland와 대등하게 조입니다.

KITZ Protect Warranty

모든 KITZ 스테인리스 강 및 고합금 강 밸브는 서비스 제공 후 12개월동안 보증이 가능하며, KITZ 작동 설명서에 따라 밸브를 적절하게 취급하는 경우 KITZ Corporation 공장에서 출고 후 18개월까지 보증이 가능합니다.

DISCLAIMER

- KITZ는 KITTZ가 책임지지 않는 자연재해, 사고 또는 화재의 결과, 제 3자의 행위, 고의적인 행위, 고객의 비정상적인 상태에서 의 오용 및 사용에 대해 어떠한 책임도 지지 않습니다.
- KITZ는 해당 카탈로그 및 작동 설명서에 명시된 주의사항을 무시하여 일어난 손상 또는 설치 및 사용 사양 범위를 벗어나서 일어난 손상에 대해서는 책임지지 않습니다.
- KITZ는 KITZ에 위탁하지 않은 제품 개조 또는 다른 기기로부터 적용되는 부하에 따른 사용에 대해 어떠한 책임도 지 않습니다.

Memo

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Memo

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CAUTION

Pressure-temperature ratings and other performance data published in this catalog have been developed from our design calculation, in-house testing, field reports provided by our customers and/or published official standards or specifications. They are good only to cover typical applications as a general guideline to users of KITZ products introduced in this catalog.

For any specific application, users are kindly requested to contact KITZ Corporation for technical advice, or to carry out their own study and evaluation for proving the suitability of these products to such an application. Failure to follow this request could result in property damage and/or personal injury, for which we shall not be liable.

While this catalog has been compiled with the utmost care, we assume no responsibility for errors, impropriety, or inadequacy. Any information provided in this catalog is subject to from-time-to-time change without notice for error rectification, product discontinuation, design modification, new product introduction, or any other cause that KITZ Corporation considers necessary. This edition cancels all previous issues.

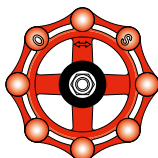
Read the instruction manual carefully before use.

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Further, there may be cases where an export license issued by the government of the United States or other country will be required under the applicable export-related laws and ordinances in such relevant countries.

The contract shall become effective subject to the fact that a relevant export license is obtained from the Japanese Government.



*A chrysanthemum-handle is a symbol of KITZ,
the brand of valve reliability*

ISO 9001 certified since 1989

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