

KITZ

Ductile Iron Valves

JIS 10K/16K/20K
ASME Class 150/300



Contents

Class	Type	End Connection	Remarks	Code	mm	8	10	15	20	25	32	40	50	65	80	100	125	150	200	250	300	Page
					inch	1/4	5/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	
10K	Globe	Threaded		10SJ		●	●	●	●	●	●	●	●	●	●							6
	Globe	FF-flanged *1	PTFE disc	10SJBF			●	●	●	●	●	●	●	●	●							6
	Globe	Threaded	PTFE disc	10SP			●	●	●	●	●	●	●	●	●							7
	Globe	FF-flanged *1	PTFE disc	10SPBF			●	●	●	●	●	●	●	●	●							7
	Globe	FF-flanged *1		10SPBOF											●	●	●	●	●	●	●	8
	Globe	Threaded	PTFE disc	10SD		●	●	●	●	●	●	●	●	●	●	●						8
	Globe	FF-flanged *1	PTFE disc	10SDBF			●	●	●	●	●	●	●	●	●							9
	Globe	Threaded	LPG service	10SDL			●	●	●	●	●	●	●	●	●							9
	Globe	FF-flanged *1	LPG service	10SDLBF			●	●	●	●	●	●	●	●	●							10
	Globe	Threaded	PTFE disc	10SPD			●	●	●	●	●	●	●	●	●							10
	Globe	FF-flanged *1	PTFE disc	10SPDBF			●	●	●	●	●	●	●	●	●							11
	Globe	FF-flanged *1	PTFE disc	10SPDBOF											●	●	●	●	●	●	●	11
	Gate	Threaded		10SM			●	●	●	●	●	●	●	●	●							12
	Gate	Threaded		10SMS			●	●	●	●	●	●	●	●	●							12
	Gate	FF-flanged *1		10SMBF			●	●	●	●	●	●	●	●	●							13
	Gate	FF-flanged *1		10SMBOF										●	●	●	●	●	●	●	●	13
	Lift Check	Threaded		10SF			●	●	●	●	●	●	●	●	●							14
	Lift Check	FF-flanged *1		10SFBF			●	●	●	●	●	●	●	●	●							14
	Lift Check	Threaded		10SN			●	●	●	●	●	●	●	●	●							15
	Lift Check	FF-flanged *1		10SNBF			●	●	●	●	●	●	●	●	●							15
	Swing Check	FF-flanged *1		10SRBF								●	●	●	●	●	●	●	●	●	●	16
	Strainer	Threaded	Gas service	10FDY		●	●	●	●	●	●	●	●	●	●	●						16
	Strainer	FF-flanged *1	Gas service	10FDYBF			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	17
16K	Globe	Threaded		16SP		●	●	●	●	●	●	●	●	●	●							17
	Globe	RF-flanged		16SPB		●	●	●	●	●	●	●	●	●	●							18
	Globe	RF-flanged		16SPBO											●	●	●	●	●	●	●	18
	Gate	Threaded		16SMS		●	●	●	●	●	●	●	●	●	●							19
	Gate	RF-flanged		16SMB		●	●	●	●	●	●	●	●	●	●							19
	Gate	RF-flanged		16SMBO										●	●	●	●	●	●	●	●	20
	Lift Check	Threaded		16SF		●	●	●	●	●	●	●	●	●	●							20
	Lift Check	RF-flanged		16SFB		●	●	●	●	●	●	●	●	●	●							21
	Swing Check	RF-flanged		16SRB								●	●	●	●	●	●	●	●	●	●	21
	Strainer	Threaded		16FDY		●	●	●	●	●	●	●	●	●	●							22
	Strainer	RF-flanged		16FDYB		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	22
20K	Globe	Threaded	Hard faced	20SY		●	●	●	●	●	●	●	●	●	●							23
	Globe	RF-flanged	Hard faced	20SYB		●	●	●	●	●	●	●	●	●	●							23
	Globe	RF-flanged	Hard faced	20SYBO											●	●	●	●	●	●	●	24
	Globe	Threaded	Gas service	20SDL		●	●	●	●	●	●	●	●	●	●							24
	Globe	RF-flanged	Gas service	20SDLB		●	●	●	●	●	●	●	●	●	●							25
	Globe	RF-flanged	Gas service	20SDLBO											●	●	●	●	●	●	●	25
	Gate	Threaded		20SLS		●	●	●	●	●	●	●	●	●								26
	Gate	RF-flanged		20SLB		●	●	●	●	●	●	●	●	●								26
	Gate	RF-flanged		20SLBO										●	●	●	●	●	●	●	●	27
	Lift Check	Threaded	Hard faced	20SN		●	●	●	●	●	●	●	●	●								27
	Lift Check	RF-flanged	Hard faced	20SNB		●	●	●	●	●	●	●	●	●								28
	Lift Check	RF-flanged	Gas service	20SNDB		●	●	●	●	●	●	●	●	●								28
	Swing Check	RF-flanged		20SOB								●	●	●	●	●	●	●	●	●	●	29
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	Strainer	Threaded	Gas service	20FDY		●	●	●	●	●	●	●	●	●	●							30
	Strainer	RF-flanged	Gas service	20FDYB		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	30

*1 RF-flanged ends shall be optionally available.

Contents

Class	Type	End Connection	Remarks	Code	mm inch	8 1/4	10 5/8	15 1/2	20 3/4	25 1	32 1 1/4	40 1 1/2	50 2	65 2 1/2	80 3	100 4	125 5	150 6	200 8	250 10	300 12	350 14	Page	
150	Globe	RF-flanged		150SPB				●	●	●	●	●	●										31	
	Globe	RF-flanged		150SPBO									●	●	●	●	●	●	●	●			31	
	Globe	RF-flanged	PTFE disc	150SPDB				●	●	●	●	●	●										32	
	Gate	RF-flanged		150SMBO							●	●	●	●	●	●	●	●	●	●	●	●	32	
	Swing Check	RF-flanged		150SRB						●	●	●	●	●	●	●	●	●	●	●	●	●	33	
300	Globe	RF-flanged	Hard faced	300SYB			●	●	●	●	●	●	●											33
	Globe	RF-flanged	Hard faced	300SYBO									●	●	●	●	●	●	●	●	●	●		34
	Gate	RF-flanged		300SLBO							●	●	●	●	●	●	●	●	●	●	●	●	34	
	Swing Check	RF-flanged		300SOB							●	●	●	●	●	●	●	●	●	●	●	●	35	
10K	Ball	FF-flanged *1		10STBF							●	●	●	●	●	●	●	●	●	●	●	●	35	
	Ball	FF-flanged *1	Gas service	10STLBF							●	●	●	●	●	●	●	●	●	●	●	●	35	
	Ball	3-way 4-seat		10STB4LAF						●	●	●	●	●	●	●							36	
	Ball	3-way 4-seat		10STB4TAF						●	●	●	●	●	●								36	
	Ball	3-way 4-seat		10STR4LAF														●	●	●			36	
	Ball	3-way 4-seat		10STR4TAF														●	●	●			36	
20K	Ball	Threaded		20ST			●	●	●	●	●	●	●	●										36
	Ball	Threaded	Gas service	20STL			●	●	●	●	●	●	●	●										36
	Ball	RF-flanged	Gas service	20STLB			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		37
400	Ball	Threaded		ST		●	●	●	●	●	●	●	●	●										37
10K	Wafer Check	Wafer	Spring loaded	10SWU*2											●	●	●	●	●	●	●	●	●	38
20K	Wafer Check	Wafer	Spring loaded	20SW											●	●	●	●	●	●	●	●	●	38
	Wafer Check	Wafer	Spring loaded	20SWU											●	●	●	●	●	●	●	●	●	39

*1 RF-flanged ends shall be optionally available. *2 Size 2" to 18"

The products introduced in this catalog are all covered by the ISO 9001 Certification awarded KITZ Corporation in 1989, the earliest in the valve industry.

What is Ductile Iron ?

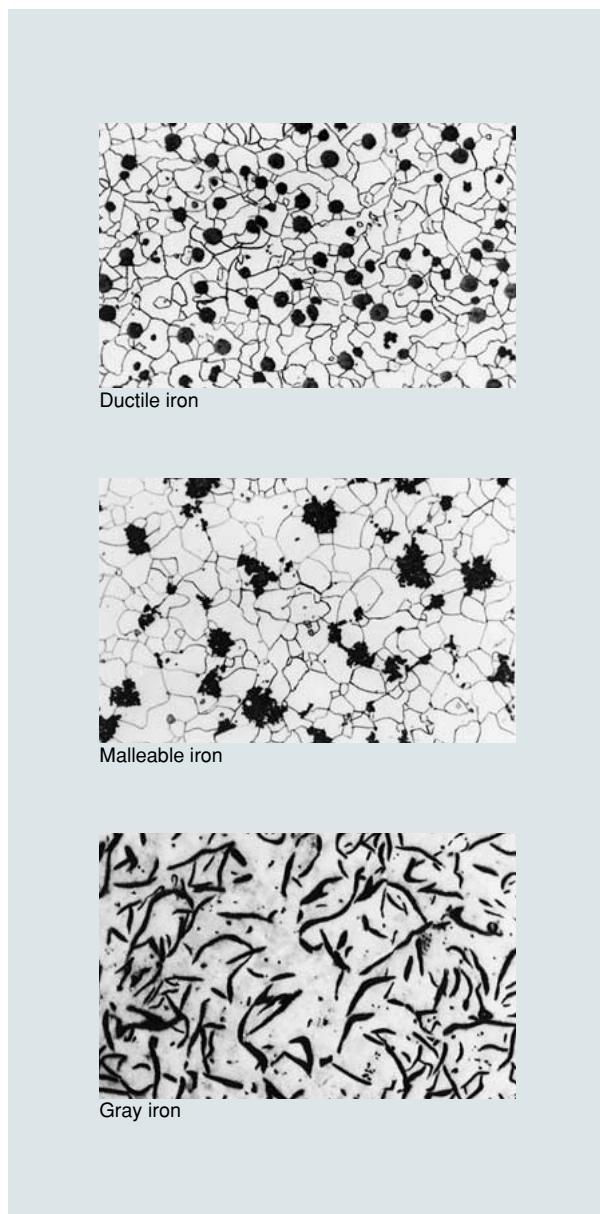
Gray iron, ductile iron and malleable iron are the three kinds of iron used for valve construction. Unlike gray iron, which has thin, flake-like molecular formations, the metallic structures of both ductile and malleable iron contain nodular graphite. (Refer to the microscopic views shown here.) This structure provides ductile and malleable iron with mechanical properties which exceed those of gray iron. It almost equals the properties of cast steel, which is an expensive material for industrial valves. Furthermore, their superior castability and machinability help to increase their suitability as a valve material.

Ductile iron outperforms malleable iron due to its better mechanical characteristics to build valve body, which is a kind of pressure containing device. For example, it has a 20% higher tensile strength and 70 to 80% better elongation. This difference comes from different formation process of nodulated graphite molecules.

KITZ ductile iron valves are made of JIS FCD-S or ASTM A395 ductile iron. The history of the introduction of ductile iron valves on the market is rather short, however, the demand is steadily increasing as a result of their economic advantage as well as the fact that their wide range of service applications is comparable with cast steel valves.

This catalog serves to provide design specifications, materials of construction and external dimensions of the following ductile iron valves and strainers manufactured by KITZ Corporation :

- JIS 10K,16K & 20K Gate, Globe & Check Valves
- JIS 10K & 20K Ball Valves
- JIS 10K, 16K & 20K Strainers
- ASME 150 & 300 Gate, Globe & Check Valves



Service Recommendation

For higher mechanical shock resistance under high or low temperature, and better tensile strength and elongation characteristics than those of ordinary gray iron valves, ductile iron valves are highly recommended for the following services, sometimes, in place of cast steel valves :

- Piping for steam supply
- Air conditioning and heating systems
- High pressure gaseous service in general
- Piping for poisonous gas service

The range of high pressure gaseous service for iron valves is specified by Ministry of Economy, Trade and Industry of Japan as follows :

Valve material	Poisonous gas*	Inflammable gas	Other gas
Ductile iron (JIS FCD-S)	2.4MPa maximum -5°C to +350°C		
Ductile iron (JIS FCD400)	not recommended	1.6MPa maximum 0°C to +250°C	
Gray iron (JIS FC200)	not recommended	0.2MPa max. 0°C to +250°C	

*Phosgene and hydrogen cyanide are excluded.

Material Specifications of JIS FCD-S

1. Chemical compositions :

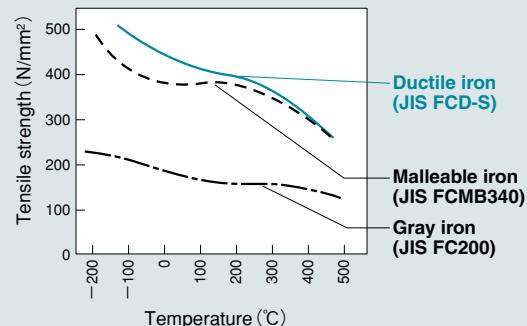
Carbon	: 3.00% minimum
Phosphor	: 0.08% maximum
Silicon	: 2.50% maximum however, 0.08% may be added for every decrease of 0.01% phosphor within the total maximum of 2.75%

2. Mechanical properties :

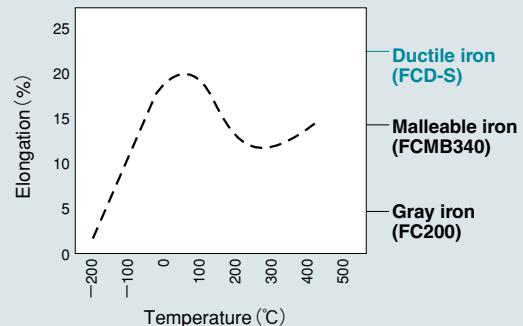
Tensile strength	: 412N/mm ² (42kgf/mm ²) minimum
Yield strength	: 275N/mm ² (28kgf/mm ²) minimum
Elongation	: 18%minimum
Brinell hardness	: 143 to 187
Charpy impact value :	
a) for ambient temperature service ;	17N·m/cm ² (1.7kgf·m/cm ²) minimum in average of 3 test pieces.
	15N·m/cm ² (1.5kgf·m/cm ²) minimum for the lowest impact value.
b) for -10°C or lower temperature service ;	15.3N·m/cm ² (1.53kgf·m/cm ²) minimum in average of 3 test pieces.
	13.3N·m/cm ² (1.33kgf·m/cm ²) minimum for the lowest impact value.

Compared Mechanical Properties of JIS Materials

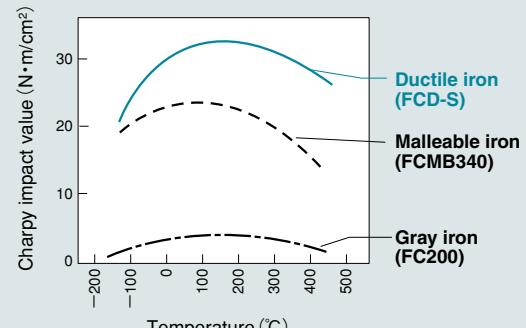
Tensile strength



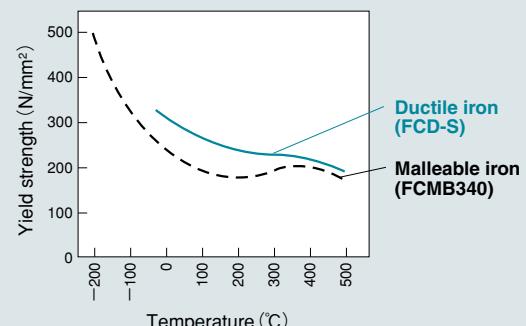
Elongation



Charpy impact value



Yield strength



Abbreviated Design Description

B.B.	Bolted bonnet
B.C.	Bolted cover (or cap)
S.B.	Screwed bonnet
S.C.	Screwed cover (or cap)
U.B.	Union bonnet
I. S.	Inside screw
O.S.Y.	Outside screw & yoke

Design Specifications

(For details, refer to the following pages)

Class	JIS 10K / 16K / 20K	ASME 150 / 300
Pressure-temperature rating	Refer to the tables on page 5	
Face-to-face dimension	JIS B 2011, B 2002 or KITZ Std.	ASME B16. 10
End-to-end dimension	JIS B 2051 or KITZ Std.	—
End flange dimension	JIS B 2239	ASME B16. 5
End thread dimension	JIS B 0203	—
Shell wall thickness	KITZ standard, unless otherwise indicated on the following pages	

Pressure-Temperature Rating

10K Commercial Valves

10SJ	10SJBF	10SM	Static water pressure at 120°C maximum	1.37MPa (14kgf/cm ²)
10SMS	10SF	10SFBF	Steam, air, gas, oil or pulsing water pressure at 220°C maximum	0.98MPa (10kgf/cm ²)
10FDY★1			Steam, air, gas, oil or pulsing water pressure at 220°C maximum	0.98MPa (10kgf/cm ²)
10SD	10SDBF		Static water pressure at 120°C maximum	1.37MPa (14kgf/cm ²)
(with PTFE disc)			Steam, air, gas, oil or pulsing water pressure at 180°C maximum	0.98MPa (10kgf/cm ²)
10SDL	10SDLBF		LPG at room temperature	0.20MPa (2kgf/cm ²)
10SN	10SNBF		Static water pressure at 120°C maximum	1.37MPa (14kgf/cm ²)
			Steam, air, gas, oil or pulsing water pressure at 220°C maximum	1.18MPa (12kgf/cm ²)

10K Valves

10SP	10SPBF	10SPBOF	Static water pressure at 120°C maximum	1.37MPa (14kgf/cm ²)
10SMBF	10SMBOF	10SRBF	Steam, air, gas, oil or pulsing water pressure at 220°C maximum	1.18MPa (12kgf/cm ²)
10FDYBF			Steam, air, gas, oil or pulsing water pressure at 300°C	0.98MPa (10kgf/cm ²)
10SPD	10SPDBF		Static water pressure at 120°C maximum	1.37MPa (14kgf/cm ²)
	10SPDBOF (with PTFE disc)		Steam, air, gas, oil or pulsing water pressure at 180°C maximum	0.98MPa (10kgf/cm ²)

16K Valves

16SP★2	16SPB★2	16SMS★2	Static water pressure at 120°C maximum	2.16MPa (22kgf/cm ²)
16SMB★2	16SF★2	16SFB★2	Steam, air, gas, oil or pulsing water pressure at 220°C maximum	1.96MPa (20kgf/cm ²)
16FDY★2	16SMBO	16SPBO	Steam, air, gas, oil or pulsing water pressure at 300°C	1.77MPa (18kgf/cm ²)
16SRB	16FDYB		Steam, air, gas, oil or pulsing water pressure at 350°C	1.57MPa (16kgf/cm ²)

20K Valves

20SY★3	20SYB★3	20YBO★3	Static water pressure at 120°C maximum	2.75MPa (28kgf/cm ²)
20SLS	20SLB	20SLBO	Steam, air, gas, oil or pulsing water pressure at 220°C maximum	2.45MPa (25kgf/cm ²)
20SN★3	20SNB★3	20SOB	Steam, air, gas, oil or pulsing water pressure at 300°C	2.26MPa (23kgf/cm ²)
20FDY	20FDYB		Steam, air, gas, oil or pulsing water pressure at 350°C	1.96MPa (20kgf/cm ²)
20SDL	20SDLB	20SDLBO	Gas at 80°C	
20SNDB	20SODB		Gas at 120°C	2.4MPa (24.5kgf/cm ²)

Class 150 Valves

150SPB	150SPBO	−5°C ~ +38°C	1.73MPa (17.6kgf/cm ²)
150SMBO	150SRB	149°C	1.48MPa (15.1kgf/cm ²)
150SPDB★4 (with PTFE disc)		260°C	1.18MPa (12kgf/cm ²)
		343°C	0.86MPa (8.8kgf/cm ²)

Pressure-temperature rating specified for API 604 Class 150 valves is applied to ASME Class 150 ductile iron valves.

Class 300 Valves

300SLBO	−5°C ~ +38°C	2.94MPa (30kgf/cm ²)
300SYB★3	149°C	2.60MPa (26.5kgf/cm ²)
300SYBO★3	260°C	2.28MPa (23.2kgf/cm ²)
300SOB	350°C	2.04MPa (20.8kgf/cm ²)

10K / 20K / Class 400 Ball Valves

10STBF	W.O.G. at 120°C maximum	1.37MPa (14kgf/cm ²)
	W.O.G. at 140°C ~ 160°C maximum depending on size	0.98MPa (10kgf/cm ²)
10STB4LAF	10STB4TAF	W.O.G. at 120°C maximum
10STR4LAF	10STR4TAF	W.O.G. at 150°C maximum
20ST	W.O.G. at 110°C maximum	2.75MPa (28kgf/cm ²)
	W.O.G. at 140°C maximum	1.96MPa (20kgf/cm ²)
ST (Class 400)	W.O.G. at room temperature	2.75MPa (28kgf/cm ²)
	Saturated steam	0.98MPa (10kgf/cm ²)
10STLBF	Gas at 80°C	1.18MPa (12kgf/cm ²)
20STL	20STLB	Gas at 80°C
		2.4MPa (24.5kgf/cm ²)

*1 200°C maximum

*2 220°C maximum

*3 Valves marked are provided with Co-Cr-W alloy hard facing on the disc and seat ring surfaces for high temperature service. Hard facing is available for other valves listed here when specified.

*4 180°C maximum

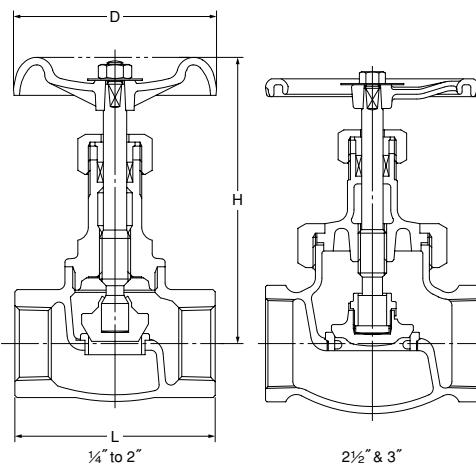
JIS 10K Globe Valve

10SJ

S.B.I.S. or U.B.I.S.



S.B.I.S. for 2" & smaller
U.B.I.S. for 2½" & 3"



E-E dimension : JIS B 2051★
End threads : JIS B 0203
*KITZ Std. for 1/4", 3/8", 2½" & 3"

120°C Static water..... 1.37MPa(14kgf/cm²)
220°C Steam, air, gas, oil..... 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51MPa (15.4kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SUS 403
Body seat ring	SUS 403 (2½" & 3: SCS 1)
Gland	SUS 403 (1/4" ~ 3/4": SUS 420J2)
Gland packing	Asbestos-free
Packing nut	FCD-S
Handwheel	FCD 450-10 (2½" & 3": FCD 400-15)
Wheel nut	SS 400
Gasket	Asbestos-free
Bonnet ring	FCD-S
Name plate	A1050P

Dimensions

Size	mm	8	10	15	20	25	32	40	50	65	80	mm
	inch	1/4	5/16	1/2	5/8	1	1 1/4	1 1/2	2	2 1/2	3	
L		50	55	65	80	90	105	120	140	180	200	
H (open)		108	108	122	125	146	160	180	198	250	280	
D		60	60	70	80	90	100	115	135	180	225	

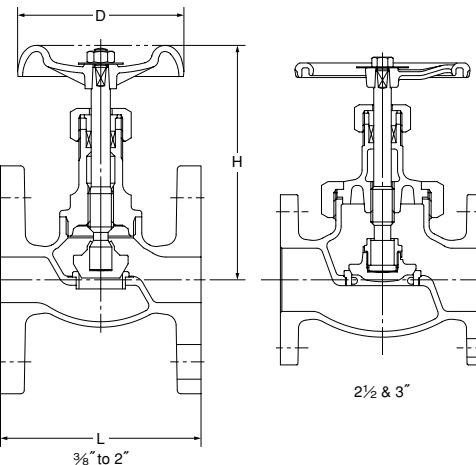
10K Globe Valve

10SJBF

S.B.I.S. or U.B.I.S.
FF-flanged



S.B.I.S. for 2" & smaller
U.B.I.S. for 2½" & 3"



F-F dimension : JIS B 2011★
End flanges : JIS B 2239 10K
*KITZ Std. for 3/8"

120°C Static water..... 1.37MPa(14kgf/cm²)
220°C Steam, air, gas, oil..... 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51MPa (15.4kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SUS 403
Body seat ring	SUS 403 (2½" & 3: SCS 1)
Gland	SUS 403 (3/8" ~ 3/4": SUS 420J2)
Gland packing	Asbestos-free
Packing nut	FCD-S
Handwheel	FCD 450-10 (2½" & 3": FCD 400-15)
Wheel nut	SS 400
Gasket	Asbestos-free
Bonnet ring	FCD-S
Name plate	A1050P

Dimensions

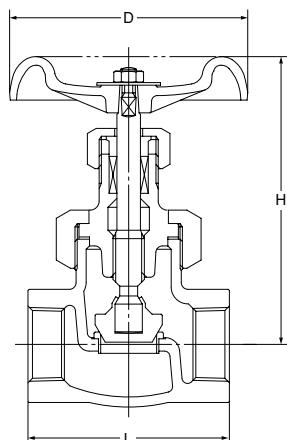
Size	mm	10	15	20	25	32	40	50	65	80	mm
	inch	3/8	1/2	5/8	1	1 1/4	1 1/2	2	2 1/2	3	
L		85	85	95	110	130	150	180	210	240	
H (open)		108	122	125	146	160	180	198	250	280	
D		60	70	80	90	100	115	135	180	225	

NOTE : For flange dimensions refer to Page 40. *RF-flanged ends shall be optionally available.

10K Globe Valve

10SP

U.B.I.S.



E-E dimension : JV 4-4★
End threads : JIS B 0203
*KITZ Std. for $\frac{3}{8}$ "

Dimensions

Size	mm						
	10	15	20	25	32	40	50
inch	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
L	64	70	80	90	110	120	140
H (open)	107	125	125	145	162	180	198
D	60	80	80	100	115	115	135

120°C Static water..... 1.37MPa(14kgf/cm²)
220°C Steam, air, gas, oil..... 1.18MPa(12kgf/cm²)
300°C Steam, air, gas, oil..... 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51MPa (15.4kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

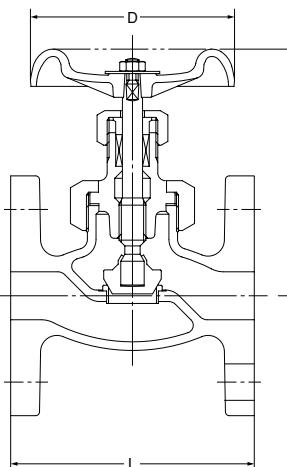
Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SUS 403
Body seat ring	SUS 403
Gland	SUS 403 ($\frac{1}{2}$ " & $\frac{3}{4}$ " : SUS 420J2)
Gland packing	Asbestos-free
Packing nut	FCD-S
Handwheel	FCD 450-10
Wheel nut	SS 400
Bonnet ring	FCD-S
Gasket	C1100P-0
Name plate	A1050P

10K Globe Valve

10SPBF

U.B.I.S.

FF-flanged



F-F dimension : JIS B 2002★
End flanges : JIS B 2239 10K
*KITZ Std. for $\frac{3}{8}$ "

Dimensions

Size	mm						
	10	15	20	25	32	40	50
inch	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
L	108	108	117	127	140	165	203
H (open)	107	125	125	145	162	180	198
D	60	80	80	100	115	115	135

120°C Static water..... 1.37MPa(14kgf/cm²)
220°C Steam, air, gas, oil..... 1.18MPa(12kgf/cm²)
300°C Steam, air, gas, oil..... 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51MPa (15.4kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

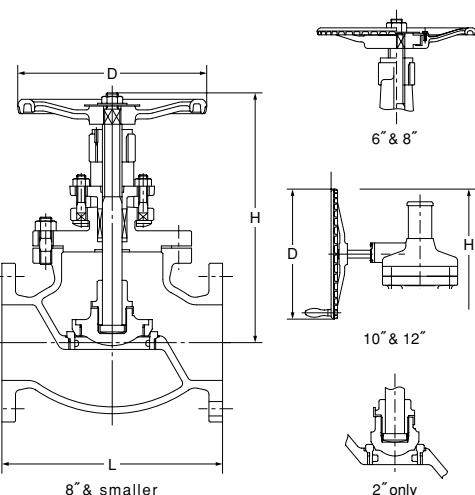
Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SUS 403
Body seat ring	SUS 403
Gland	SUS 403 ($\frac{1}{2}$ " & $\frac{3}{4}$ " : SUS 420J2)
Gland packing	Asbestos-free
Packing nut	FCD-S
Handwheel	FCD 450-10
Wheel nut	SS 400
Bonnet ring	FCD-S
Gasket	C1100P-0
Name plate	A1050P

NOTE : For flange dimensions refer to Page 40. *RF-flanged ends shall be optionally available.

10K Globe Valve

10SPBOF

 B.B.O.S.Y.
FF-flanged

 F-F dimension : JIS B 2002
End flanges : JIS B 2239 10K

Dimensions

Size	mm								
	50	65	80	100	125	150	200	250	300
inch	2	2½	3	4	5	6	8	10	12
L	203	216	241	292	356	406	495	622	698
H (open)	302	317	356	377	460	524	585	880	943
D	200	225	250	250	300	350	400	360	360

NOTE : For flange dimensions refer to Page 40. *RF-flanged ends shall be optionally available.

 120°C Static water..... 1.37MPa(14kgf/cm²)
220°C Steam, air, gas, oil..... 1.18MPa(12kgf/cm²)
300°C Steam, air, gas, oil..... 0.98MPa(10kgf/cm²)

- Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

- Bolting materials will be changed for servicing high temperature exceeding 225°C. Contact KITZ Corporation for detailed information.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51MPa (15.4kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

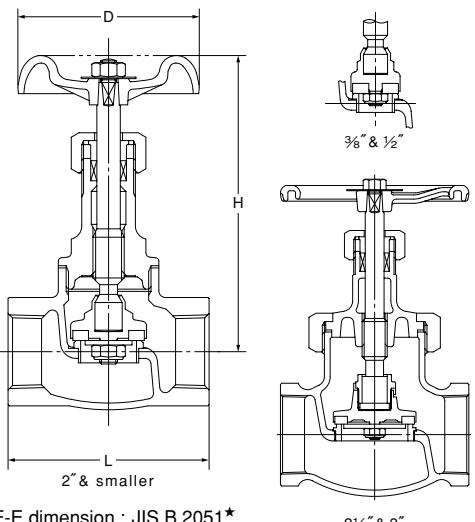
Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 403
Disc	FCD-S (2" : SUS 403)
Disc seat ring	SUS 403 (2" ~ 4" : SCS 1)
Body seat ring	SUS 403 (2" ~ 4" : SCS 1)
Lock nut	FCD-S
Gland	FCD-S
Gland packing	Asbestos-free
Handwheel	FCD 400-15
Wheel nut	SS 400
Packing washer	SUS 403
Bonnet bolt /nut	SS 400
Gland bolt /nut	SS 400
Gasket	Asbestos-free
Name plate	A1050P
Yoke bush	C6782BD

10K Globe Valve

10SD

S.B.I.S. or U.B.I.S.


 Reinforced PTFE disc
S.B.I.S. for 2" & smaller
U.B.I.S. for 2½" & 3"

 E-E dimension : JIS B 2051★
End threads : JIS B 0203
★KITZ Std. for ¼", ¾", 2½" & 3"

Dimensions

Size	mm									
	8	10	15	20	25	32	40	50	65	80
inch	¼	⅜	½	¾	1	1¼	1½	2	2½	3
L	50	55	65	80	90	105	120	140	180	200
H (open)	108	108	123	123	144	159	178	197	262	295
D	60	60	70	80	90	100	115	135	180	225

 120°C Static water..... 1.37MPa(14kgf/cm²)
180°C Steam, air, gas, oil..... 0.98MPa(10kgf/cm²)

- Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

- Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51MPa (15.4kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	Reinforced PTFE
Disc holder	SCS 1 (2½" & 3" : SUS 403)
Disc nut	SS 400
Body seat ring	SUS 403
Gland	SUS 403 (½" & ¾" : SUS 420J2)
Gland packing	Asbestos-free
Packing nut	FCD 400-15
Handwheel	FCD 450-10(2½" & 3" : FCD 400-15)
Wheel nut	SS 400
Gasket	C1100P-0 (2½" & 3" : Asbestos-free)
Name plate	A1050P

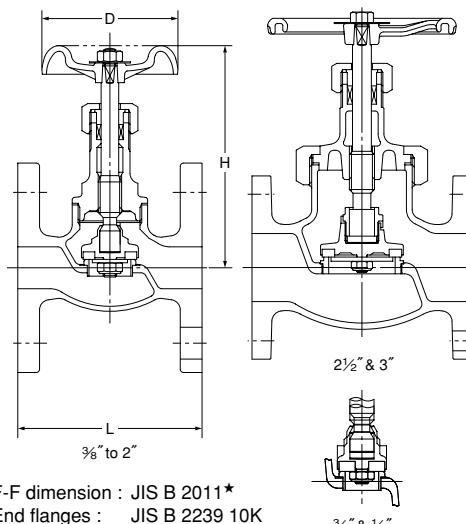
JIS 10K Globe Valve

10SDBF

S.B.I.S. or U.B.I.S.
FF-flanged



Reinforced PTFE disc
S.B.I.S. for 2" & smaller
U.B.I.S. for 2½" & 3"



120°C Static water 1.37MPa(14kgf/cm²)

180°C Steam, air, gas, oil 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51MPa (15.4kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	Reinforced PTFE
Disc holder	SUS 403
Disc nut	SS 400
Body seat ring	SUS 403 (2½" & 3": SCS 1)
Gland	SUS 403 (½" & ¾": SUS 420J2)
Gland packing	Asbestos-free
Packing nut	FCD-S
Handwheel	FCD 450-10 (2½" & 3": FCD 400-15)
Wheel nut	SS 400
Gasket	C1100P-0 (2½" & 3": Asbestos-free)
Bonnet ring	FCD-S
Name plate	A1050P

Dimensions

Size	mm	10	15	20	25	32	40	50	65	80	mm
	inch	¾	½	¾	1	1¼	1½	2	2½	3	
L		85	85	95	110	130	150	180	210	240	
H (open)		108	123	123	144	159	178	197	262	295	
D		60	70	80	90	100	115	135	180	225	

NOTE : For flange dimensions refer to Page 40. *RF-flanged ends shall be optionally available.

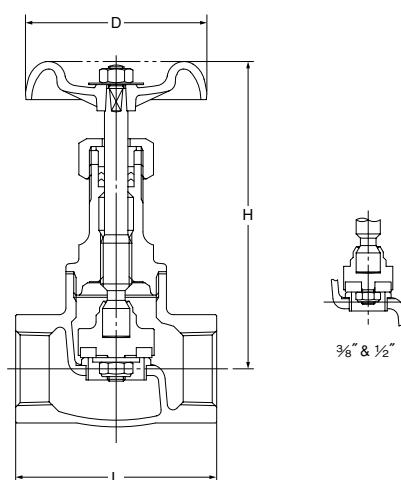
10K Globe Valve for LPG Service

10SDL

S.B.I.S.



Reinforced PTFE disc
for low pressure gas service



LPG at room temperature 0.20MPa(2kgf/cm²)

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	0.79MPa (8kgf/cm ²) [air]
Seat	0.29MPa (3kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	Reinforced PTFE
Disc holder	SCS 1
Disc nut	SS 400
Body seat ring	SUS 403
Gland	SUS 403 (¾" ~ 1": SUS 420J2)
Gland packing	NBR
Packing nut	FCD -S
Handwheel	ADC 12 (¾" ~ 1": ZDC 2)
Wheel nut	SS 400
Gasket	C1100P-0
Name plate	A1050P

Dimensions

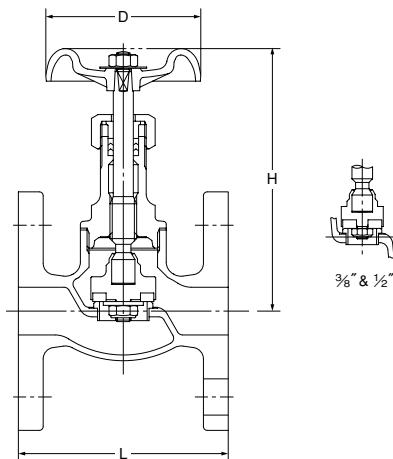
Size	mm	10	15	20	25	32	40	50	mm
	inch	¾	½	¾	1	1¼	1½	2	
L		55	65	80	90	105	120	140	
H (open)		112	122	130	149	169	187	205	
D		55	60	70	80	90	100	115	

10K Globe Valve for LPG Service

10SDLBF

S.B.I.S.

FF-flanged

Reinforced PTFE disc
for low pressure gas serviceF-F dimension : JIS B 2011★
End flanges : JIS B 2239 10K

★KITZ Std. for 3/8"

LPG at room temperature0.20MPa(2kgf/cm²)

- Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	0.79MPa (8kgf/cm ²) [air]
Seat	0.29MPa (3kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	Reinforced PTFE
Disc holder	SUS 403
Disc nut	SS 400
Body seat ring	SUS 403
Gland	SUS 403 (1/2" & 3/4": SUS 420J2)
Gland packing	NBR
Packing nut	FCD-S
Handwheel	ZDC 2 (1"~2": ADC 12)
Wheel nut	SS 400
Gasket	C1100P-0
Name plate	A1050P

Dimensions

Size	mm inch	10	15	20	25	32	40	50	mm
		3/8	1/2	3/4	1	1 1/4	1 1/2	2	
L		85	85	95	110	130	150	180	
H (open)		112	122	130	149	169	187	205	
D		55	60	70	80	90	100	115	

NOTE : For flange dimensions refer to Page 40. ※RF-flanged ends shall be optionally available.

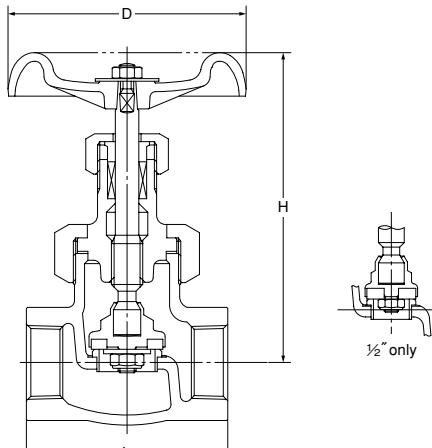
10K Globe Valve

10SPD

U.B.I.S.



Reinforced PTFE disc

E-E dimension : JV 4-4
End threads : JIS B 0203120°C Static water.....1.37MPa(14kgf/cm²)
180°C Steam, air, gas, oil.....0.98MPa(10kgf/cm²)

- Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.
- Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51MPa (15.4kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	Reinforced PTFE
Gland	SUS 403 (1/2" & 3/4": SUS 420J2)
Gland packing	Asbestos-free
Packing nut	FCD-S
Handwheel	FCD 450-10
Bonnet ring	FCD-S
Disc holder	SUS 403
Disc nut	SS 400
Gasket	C1100P-0
Body seat ring	SUS 403
Name plate	A1050P

Dimensions

Size	mm inch	15	20	25	32	40	50	mm
		1/2	3/4	1	1 1/4	1 1/2	2	
L		70	80	90	110	120	140	
H (open)		125	125	146	162	180	198	
D		80	80	100	115	115	135	

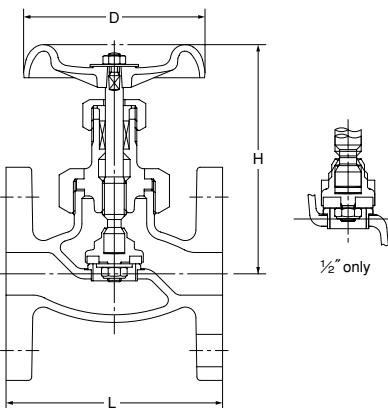
10K Globe Valve

10SPDBF

U.B.I.S.
FF-flanged



Reinforced PTFE disc



F-F dimension : JIS B 2002
End flanges : JIS B 2239 10K

120°C Static water..... 1.37MPa(14kgf/cm²)

180°C Steam, air, gas, oil.... 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51MPa (15.4kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

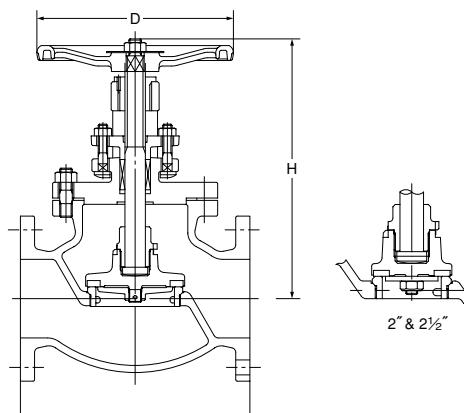
Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	Reinforced PTFE
Gland	SUS 403 (1/2" & 3/4": SUS 420J2)
Gland packing	Asbestos-free
Packing nut	FCD-S
Handwheel	FCD 450-10
Bonnet ring	FCD-S
Disc holder	SUS 403
Disc nut	SS 400
Gasket	C1100P-0
Body seat ring	SUS 403
Name plate	A1050P

Dimensions

Size	mm	15	20	25	32	40	50	mm
	inch	1/2	3/4	1	1 1/4	1 1/2	2	
L		108	117	127	140	165	203	
H (open)		123	125	146	162	180	198	
D		80	80	100	115	115	135	

NOTE : For flange dimensions refer to Page 40. *RF-flanged ends shall be optionally available.

10K Globe Valve

10SPDBOF


F-F dimension : JIS B 2002
End flanges : JIS B 2239 10K

120°C Static water..... 1.37MPa(14kgf/cm²)
180°C Steam, air, gas, oil.... 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51MPa (15.4kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 403
Disc	Reinforced PTFE
Gland	FCD-S
Gland packing	Asbestos-free
Packing nut	FCD 400-15
Handwheel	FCD 400-15
Disc holder	SUS 403
Disc nut	SCS 13 (2" & 2 1/2": SS 400)
Gasket	Asbestos-free
Body seat ring	SCS 1 (5" ~ 8": SUS 403)
Name plate	A1050P

Dimensions

Size	mm	50	65	80	100	125	150	200	mm
	inch	2	2 1/2	3	4	5	6	8	
L		203	216	241	292	356	406	495	
H(open)		302	317	356	377	460	527	600	
D		200	225	250	300	350	400		

NOTE : For flange dimensions refer to Page 40. *RF-flanged ends shall be optionally available.

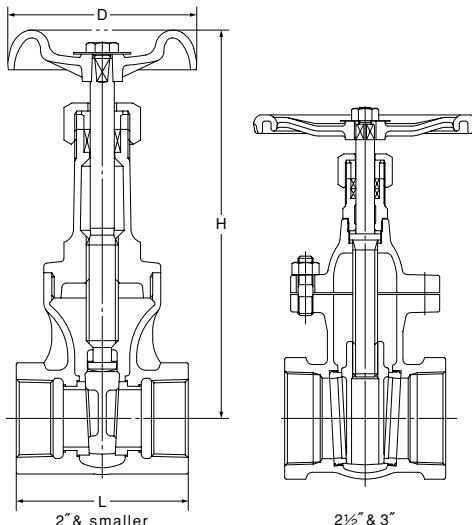
JIS 10K Gate Valve

10SM

S.B.I.S. or B.B.



S.B.I.S. for 2" & smaller
B.B. for 2½" & 3"



E-E dimension : JIS B 2051★
End threads : JIS B 0203
★KITZ Std. for 2½" & 3".

Dimensions

Size	mm							
	15 inch	20 ¾	25 1	32 1¼	40 1½	50 2	65 2½	80 3
L	60	70	75	85	95	105	130	145
H (open)	150	171	198	233	274	318	253	294
D	60	70	80	90	100	115	180	180

120°C Static water..... 1.37MPa(14kgf/cm²)

220°C Steam, air, gas, oil..... 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Employment of copper disc prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51MPa (15.4kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

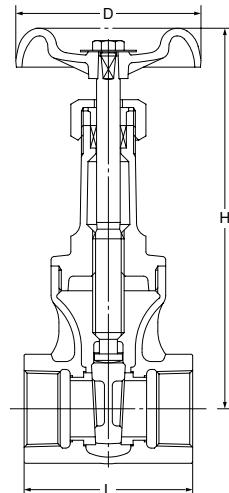
Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	CAC 406
Body seat ring	SUS 403 (2½" & 3" : SCS 1)
Gland	SUS 403 (½" & ¾" : SUS 420J2)
Gland packing	Asbestos-free
Packing nut	FCD-S
Handwheel	FCD 450-10(2½" & 3" : FCD 400-15)
Wheel nut	SS 400
Gasket	Asbestos-free
Name plate	A1050P

JIS 10K Gate Valve

10SMS

S.B.I.S.



E-E dimension : JIS B 2051
End threads : JIS B 0203

120°C Static water..... 1.37MPa(14kgf/cm²)

220°C Steam, air, gas, oil..... 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51MPa (15.4kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SCS 1
Body seat ring	SUS 403
Gland	SUS 403 (½" & ¾" : SUS 420J2)
Gland packing	Asbestos-free
Packing nut	FCD-S
Handwheel	FCD 450-10
Wheel nut	SS 400
Name plate	A1050P

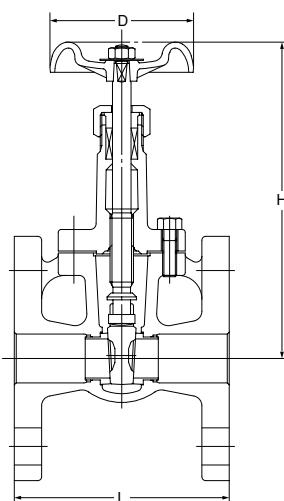
Dimensions

Size	mm					
	15 inch	20 ¾	25 1	32 1¼	40 1½	50 2
L	60	70	75	85	95	105
H (open)	150	171	198	233	274	318
D	60	70	80	90	100	115

10K Gate Valve

10SMBF

B.B.I.S.
FF-flanged



F-F dimension : JV4-4
End flanges : JIS B 2239 10K

120°C Static water..... 1.37MPa(14kgf/cm²)
220°C Steam, air, gas, oil..... 1.18MPa(12kgf/cm²)
300°C Steam, air, gas, oil..... 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51MPa (15.4kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SCS 1
Body seat ring	SUS 403
Gland	SUS 403 (1/2" ~ 1": SUS 420J2)
Gland packing	Asbestos-free
Handwheel	FCD 450-10
Bonnet bolt	S45C
Gasket	Asbestos-free
Name plate	A1050P

Dimensions

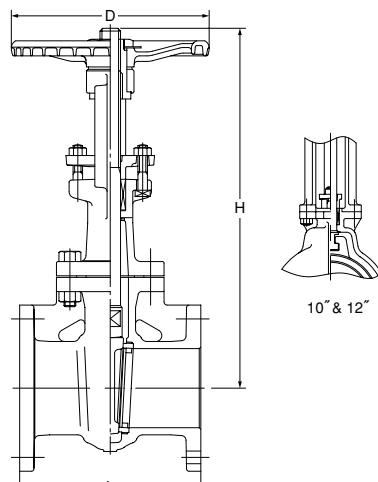
Size	mm					
	15 inch	20 3/4	25 1	32 1 1/4	40 1 1/2	50 2
L	90	100	110	120	130	140
H (open)	164	165	188	219	253	285
D	70	70	80	90	100	115

NOTE : For flange dimensions refer to Page 40. *RF-flanged ends shall be optionally available.

10K Gate Valve

10SMBOF

B.B.O.S.Y.
FF-flanged



F-F dimension : JIS B 2002
End flanges : JIS B 2239 10K

120°C Static water..... 1.37MPa(14kgf/cm²)
220°C Steam, air, gas, oil..... 1.18MPa(12kgf/cm²)
300°C Steam, air, gas, oil..... 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Bolting materials will be changed for servicing high temperature exceeding 225°C. Contact KITZ Corporation for detailed information.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51MPa (15.4kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 403
Disc	SUS 403 (1 1/2" ~ 8") SFVC2A+13Cr (10") SCPH2+13Cr (12")
Body seat ring	SUS 403 (1 1/2" ~ 3": SCS 1)
Gland	FCD-S
Gland packing	Asbestos-free
Handwheel	FCD 400-15
Wheel nut	SS 400
Bonnet bolt /nut	S 45C
Gland bolt /nut	SS 400
Yoke sleeve	C6782BE (8" ~ 12": CAC302)
Yoke (10" & 12")	FCD-S
Gasket	Asbestos-free
Name plate	A1050P

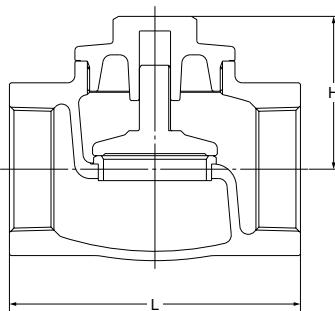
Dimensions

Size	mm									
	40 1 1/2	50 2	65 2 1/2	80 3	100 4	125 5	150 6	200 8	250 10	300 12
L	165	178	190	203	229	254	267	292	330	356
H (open)	300	352	410	479	566	667	779	993	1181	1404
D	160	200	200	250	300	300	350	400	450	

NOTE : For flange dimensions refer to Page 40. *RF-flanged ends shall be optionally available.

JIS 10K Lift Check Valve

10SF
S.C.



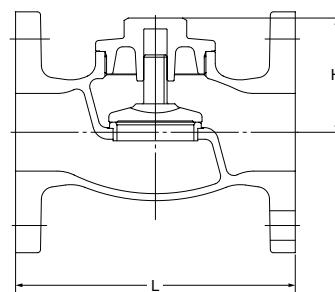
E-E dimension : JIS B 2051
End threads : JIS B 0203

Dimensions

Size	mm inch	15	20	25	32	40	50	mm
		½	¾	1	1¼	1½	2	
L		65	80	90	105	120	140	
H		39	42	48	56	65	73	

10K Lift Check Valve

10SFBF
S.C.
FF-flanged



F-F dimension : JIS B 2011
End flanges : JIS B 2239 10K

Dimensions

Size	mm inch	15	20	25	32	40	50	mm
		½	¾	1	1¼	1½	2	
L		85	95	110	130	150	180	
H		39	42	48	56	65	73	

NOTE : For flange dimensions refer to Page 40. *RF-flanged ends shall be optionally available.

120°C Static water..... 1.37MPa(14kgf/cm²)

220°C Steam, air, gas, oil..... 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51~0.50MPa (15.4~5.1kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

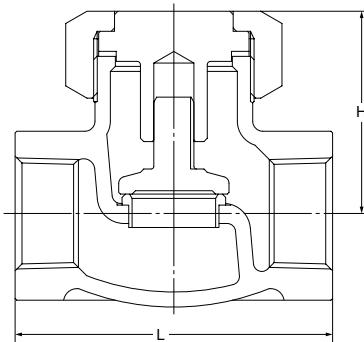
Materials

Parts	JIS material
Body	FCD-S
Cap	SUS 403
Disc	SUS 403
Body seat ring	SUS 403

10K Lift Check Valve

10SN

S.C.



E-E dimension : JV 4-4
End threads : JIS B 0203

Dimensions

Size	mm					
	15	20	25	32	40	50
inch	1/2	3/4	1	1 1/4	1 1/2	2
L	70	80	90	110	120	140
H	50	53	61	69	75	87

120°C Static water..... 1.37MPa(14kgf/cm²)220°C Steam, air, gas, oil.... 1.18MPa(12kgf/cm²)

- Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51~0.50MPa (15.4~5.1kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

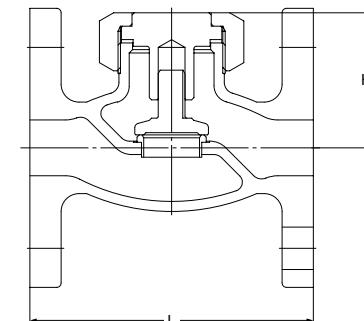
Parts	JIS material
Body	FCD-S
Cap	SCS 13A / SUS 304
Disc	SUS 403
Body seat ring	SUS 403

10K Lift Check Valve

10SNBF

U.B.

FF-flanged



F-F dimension : JIS B 2002 JV 4-4
End flanges : JIS B 2239 10K

120°C Static water..... 1.37MPa(14kgf/cm²)
220°C Steam, air, gas, oil.... 1.18MPa(12kgf/cm²)

- Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

- Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51~0.50MPa (15.4~5.1kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	SCS 13A / SUS 304
Disc	SUS 403
Bonnet ring	FCD-S
Gasket	C1100P-0
Body seat ring	SUS 403

Dimensions

Size	mm					
	15	20	25	32	40	50
inch	1/2	3/4	1	1 1/4	1 1/2	2
L	108	117	127	140	165	203
H	50	53	61	69	75	87

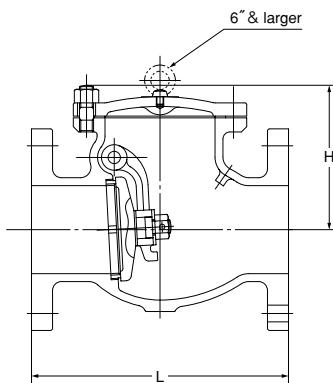
NOTE : For flange dimensions refer to Page 40. *RF-flanged ends shall be optionally available.

10K Swing Check Valve

10SRBF

B.C.

FF-flanged



F-F dimension : JIS B 2002
End flanges : JIS B 2239 10K

Dimensions

Size	mm	40	50	65	80	100	125	150	200	250	300
	inch	1½	2	2½	3	4	5	6	8	10	12
L		165	203	216	241	292	330	356	495	622	698
H		115	120	130	145	160	195	215	255	310	350

NOTE : For flange dimensions refer to Page 40. ※RF-flanged ends shall be optionally available.

120°C Static water..... 1.37MPa(14kgf/cm²)
220°C Steam, air, gas, oil..... 1.18MPa(12kgf/cm²)
300°C Steam, air, gas, oil..... 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Bolting materials will be changed for servicing high temperature exceeding 225°C. Contact KITZ Corporation for detailed information.

● A gasket will be used for sealing the plug for application to high temperature exceeding 260°C. Specify your service temperature in advance. Ensure replacement of plug gaskets on your valve maintenance.

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	1.51~0.50MPa (15.4~5.1kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Cover	FCD-S
Disc	SUS 403 (8"~12": SCPH2+13Cr)
Disc nut	SS 400 (5"~12": SUS 304)
Body seat ring	SCS 1 (5"~12": SUS 403)
Arm	SCS 13A (5"~12": SFVC2A or SCHP2)
Hinge pin	SUS 403
Split pin	SUS 304
Plug	SS 400
Washer	SS 400
Gasket	Asbestos-free
Cover bolt / nut	SS 400

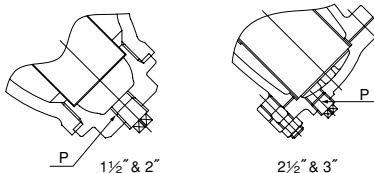
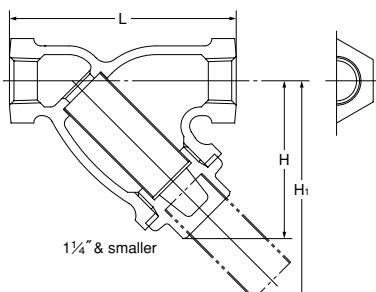
10K Strainer for Gas Service

10FDY

B.C. or S.C.



B.C. for 2½" & 3"
S.C. for 2" & smaller



E-E dimension : KITZ Std.
End threads : JIS B 0203

120°C Static water..... 1.37MPa(14kgf/cm²)
200°C Steam, air, gas, oil..... 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Employment of copper cap prohibits use of this valve for ammonia or amine chemicals.

Screen Hole Size

Valve Size	A	B
1/4" ~ 2"	1.4	2.4
2½" & 3"	1.5	2.5

Test Pressure

Body	2.06MPa(21kgf/cm ²) [hydrostatic]
------	---

Materials

Parts	JIS material
Body	FCD-S
Cap (1/4" ~ 2")	C3771BE
Cover (2½" & 3")	FCD-S
Gasket	Asbestos-free
Screen	SUS 304
Plug*	SUS 304

* 1½" & larger

Dimensions

Size	mm	8	10	15	20	25	32	40	50	65	80
	inch	1/4	5/8	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		46	46	60	65	75	90	100	115	191	215
P		—	—	—	—	—	Rc 3/8	Rc 1/2	Rc 1/4	Rc 1/4	
H1		63	63	85	95	110	130	145	170	271	311

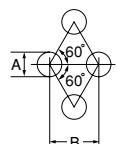
10K Strainer for Gas Service

10FDYBF

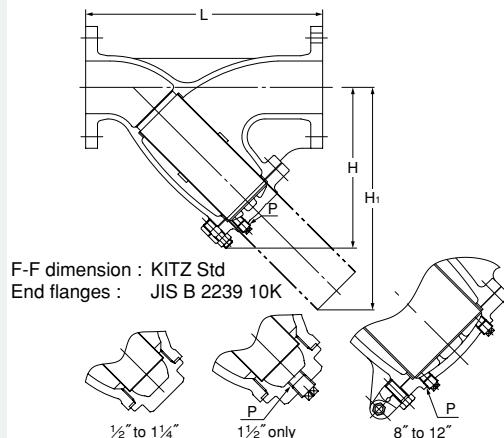
B.C. or S.C.
FF-flanged



B.C. for 2" & larger
S.C. for 1½" & smaller


Screen Hole Size

Valve Size	A	B
½" to 2"	1.4	2.4
2½" to 5"	1.5	2.5
6" & 8"	3	5
10" & 12"	5	7



F-F dimension : KITZ Std
End flanges : JIS B 2239 10K

120°C Static water..... 1.37MPa(14kgf/cm²)

220°C Steam, air, gas, oil..... 1.18MPa(12kgf/cm²)

300°C Steam, air, gas, oil..... 0.98MPa(10kgf/cm²)

(½"~1½": 260°C 1.07MPa(11kgf/cm²)
● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Employment of copper cap prohibits use of this valve for ammonia or amine chemicals.

● Bolting materials will be changed for servicing high temperature exceeding 225°C. Contact KITZ Corporation for detailed information.

● A gasket will be used for sealing the plug for application to high temperature exceeding 260°C. Specify your service temperature in advance. Ensure replacement of plug gaskets on your valve maintenance.

Test Pressure

Body	2.06MPa(21kgf/cm ²) [hydrostatic]
------	---

Materials

Parts	JIS material
Body	FCD-S
Cap (½"~1½")	C3771BE
Cover (2"~12")	FCD-S
Gasket	Asbestos-free
Screen	SUS 304
Cover bolt / nut	S 45C
Plug*	SUS 304

* 1½" & larger

Dimensions

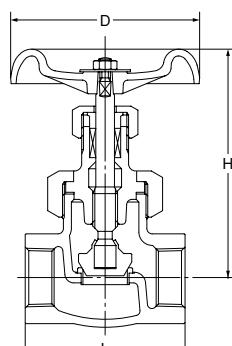
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300
	inch	½	¾	1	1¼	1½	2	2½	3	4	5	6	8	10	12
L		125	140	150	170	190	230	305	360	415	465	515	580	680	800
H		57	63	77	90	100	138	212	242	284	325	370	462	536	625
P		—	—	—	—	Rc ⅔	Rc ¼	Rc ¼	Rc ¾						
H1		82	91	114	134	146	172	290	340	391	450	502	645	757	882

NOTE : For flange dimensions refer to Page 40. *RF-flanged ends shall be optionally available.

16K Globe Valve

16SP

U.B.I.S.



E-E dimension : KITZ Std
End threads : JIS B 0203

120°C Static water..... 2.16MPa(22kgf/cm²)
220°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	3.24MPa(33kgf/cm ²) [hydrostatic]
Seat	2.38MPa(24.2kgf/cm ²) [hydrostatic]
	0.59MPa(6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SUS 403
Gland	SUS 403(½" & ¾": SUS 420J2)
Gland packing	Asbestos-free
Body seat ring	SUS 403
Handwheel	FCD 450-10
Bonnet ring	FCD-S
Gasket	C1100P-0

Dimensions

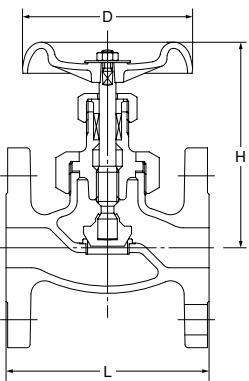
Size	mm	10	15	20	25	32	40	50
	inch	¾	½	¾	1	1¼	1½	2
L		64	70	85	95	110	125	145
H (open)		110	122	128	147	165	182	196
D		60	80	80	100	115	115	135

16K Globe Valve

16SPB

U.B.I.S.

RF-flanged



F-F dimension : JIS B 2002 JV 4-4*

End flanges : JIS B 2239 16K

*KITZ Std. for ½"

120°C Static water..... 2.16MPa(22kgf/cm²)220°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	3.24MPa (33kgf/cm ²) [hydrostatic]
Seat	2.38MPa (24.2kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SUS 403
Gland	SUS 403(½" & ¾": SUS 420J2)
Gland packing	Asbestos-free
Body seat ring	SUS 403
Handwheel	FCD 450-10
Bonnet ring	FCD-S
Gasket	C1100P-0

Dimensions

Size	mm						
	10 mm inch	15	20	25	32	40	50
10	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	108	108	117	127	140	165	203
H (open)	111	122	128	146	165	182	198
D	60	80	80	100	115	115	135

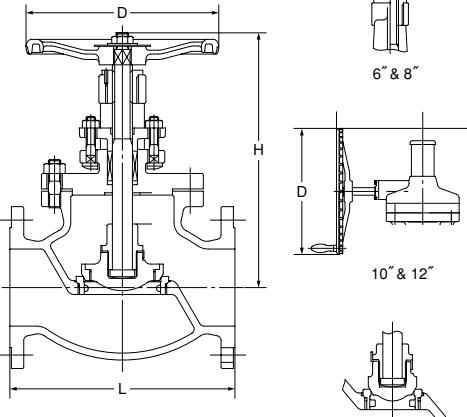
NOTE : For flange dimensions refer to Page 40.

16K Globe Valve

16SPBO

B.B.O.S.Y.

RF-flanged



F-F dimension : JIS B 2002*

End flanges : JIS B 2239 16K

*KITZ Std. for 5" & 6".

120°C Static water..... 2.16MPa(22kgf/cm²)220°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)300°C Steam, air, gas, oil..... 1.77MPa(18kgf/cm²)350°C Steam, air, gas, oil..... 1.57MPa(16kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

Test Pressure

Body	3.24MPa (33kgf/cm ²) [hydrostatic]
Seat	2.38MPa (24.2kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 403
Disc	FCD-S (2": SUS 403)
Gland	FCD-S
Gland packing	Asbestos-free
Handwheel	FCD 400-15
Gasket	Asbestos-free
Body seat ring	SCS 1 (5"~12": SUS 403)
Disc seat ring	SCS 1 (5"~12": SUS 403)
Yoke bush	C6782BD
Bonnet bolt / nut	S45C
Name plate	A1050P

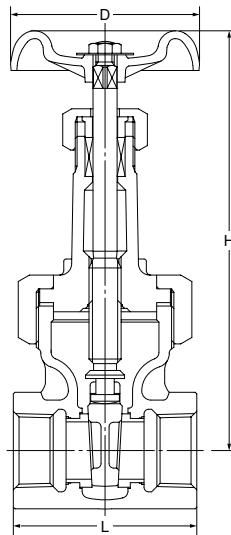
Dimensions

Size	mm								
	50 mm inch	65	80	100	125	150	200	250	300
50	2	2 1/2	3	4	5	6	8	10	12
L	203	216	241	292	356	406	495	622	698
H (open)	302	313	356	377	460	524	585	880	943
D	200	225	250	250	300	350	400	360	360

NOTE : For flange dimensions refer to Page 40.

16K Gate Valve

16SMS
U.B.I.S.



E-E dimension : JV 4-4
End threads : JIS B 0203

Dimensions

Size	mm					
	15	20	25	32	40	50
inch	1/2	3/4	1	1 1/4	1 1/2	2
L	65	75	80	90	100	110
H (open)	163	182	212	245	285	330
D	70	80	90	100	115	135

120°C Static water..... 2.16MPa(22kgf/cm²)

220°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

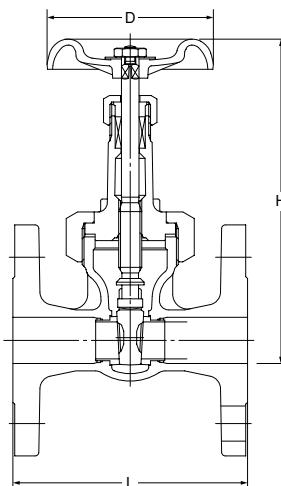
Body	3.24MPa (33kgf/cm ²) [hydrostatic]
Seat	2.38MPa (24.2kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SCS 1
Gland	SUS 403
Gland packing	Asbestos-free
Bonnet ring	FCD-S
Body seat ring	SUS 403
Gasket	C1100P-0
Handwheel	FCD 450-10
Name plate	A1050P

16K Gate Valve

16SMB
U.B.I.S.
RF-flanged



F-F dimension : JIS B2002 JV 4-4
End flanges : JIS B2239 16K

120°C Static water..... 2.16MPa(22kgf/cm²)
220°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	3.24MPa (33kgf/cm ²) [hydrostatic]
Seat	2.38MPa (24.2kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SCS 1
Gland	SUS 403 (1/2" ~ 1": SUS 420J2)
Gland packing	Asbestos-free
Handwheel	FCD 450-10
Bonnet ring	FCD-S
Gasket	C1100P-0
Body seat ring	SUS 403
Name plate	A1050P

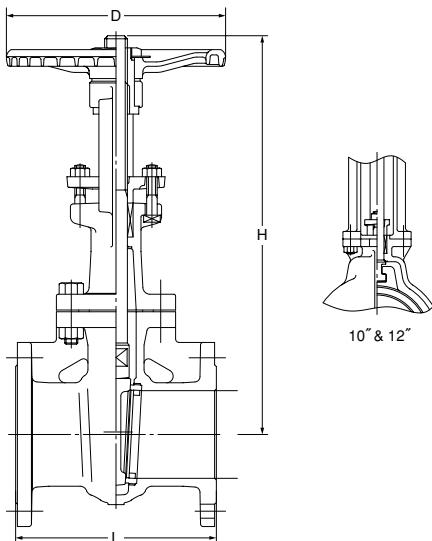
Dimensions

Size	mm					
	15	20	25	32	40	50
inch	1/2	3/4	1	1 1/4	1 1/2	2
L	108	117	127	140	165	178
H (open)	163	164	187	219	253	285
D	70	70	80	90	100	115

NOTE : For flange dimensions refer to Page 40.

16K Gate Valve

16SMBO

B.B.O.S.Y.
RF-flangedF-F dimension : JIS B 2002
End flanges : JIS B 2239 16K

Dimensions

Size	mm									
	40	50	65	80	100	125	150	200	250	300
inch	1½	2	2½	3	4	5	6	8	10	12
L	165	178	190	203	229	254	267	292	330	356
H (open)	300	352	410	479	566	667	779	993	1181	1404
D	160	200	200	250	250	300	300	350	400	450

NOTE : For flange dimensions refer to Page 40.

120°C Static water..... 2.16MPa(22kgf/cm²)
 220°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)
 300°C Steam, air, gas, oil..... 1.77MPa(18kgf/cm²)
 350°C Steam, air, gas, oil..... 1.57MPa(16kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

Test Pressure

Body	3.24MPa (33kgf/cm ²) [hydrostatic]
Seat	2.38MPa (24.2kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

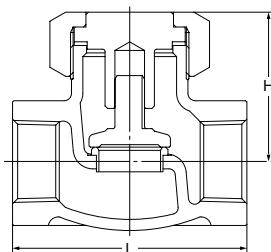
Materials

Parts	JIS material
Body / Bonnet	FCD-S
Stem	SUS 403
Disc	SUS 403 (1½"~8") SFVC2A+13Cr (10") SCPH2+13Cr (12")
Gland	FCD-S
Gland packing	Asbestos-free
Handwheel	FCD 400-15
Gasket	Asbestos-free
Body seat ring	SUS 403 (1½"~3": SCS 1)
Bonnet bolt / nut	S45C
Gland bolt / nut	SS 400
Yoke sleeve	C6782BE (8"~12": HBsC2)
Yoke	FCD-S
Name plate	A1050P

16K Lift Check Valve

16SF

U.B.

F-F dimension : KITZ Std.
End threads : JIS B 0203

120°C Static water..... 2.16MPa(22kgf/cm²)
 220°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	3.24MPa (33kgf/cm ²) [hydrostatic]
Seat	2.38~0.79MPa (24.2~8.1kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	SCS 13A / SUS 304
Disc	SUS 403 (½"~1": SCS 1)
Bonnet ring	FCD-S
Gasket	C1100P-0
Body seat ring	SUS 403

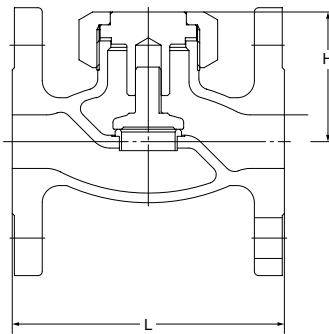
Dimensions

Size	mm					
	15	20	25	32	40	50
inch	½	¾	1	1¼	1½	2
L	70	85	95	110	125	145
H	50	53	61	69	75	87

16K Lift Check Valve

16SFB

U.B.



F-F dimension : JIS B 2002 JV 4-4

End flanges : JIS B 2239 16K

Dimensions

Size	mm	15	20	25	32	40	50	mm
	inch	1/2	5/8	1	1 1/4	1 1/2	2	
L		108	117	127	140	165	203	
H		50	53	61	69	75	87	

NOTE : For flange dimensions refer to Page 40.

120°C Static water..... 2.16MPa(22kgf/cm²)220°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	3.24MPa (33kgf/cm ²) [hydrostatic]
Seat	2.38~0.79MPa (24.2~8.1kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

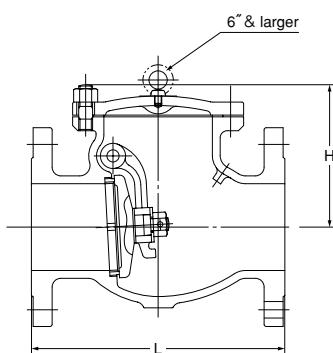
Parts	JIS material
Body	FCD-S
Bonnet	SCS 13A / SUS 304
Disc	SUS 403 (1/2"~1": SCS 1)
Bonnet ring	FCD-S
Gasket	C1100P-0
Body seat ring	SUS 403

16K Swing Check Valve

16SRB

B.C.

RF-flanged



F-F dimension : JIS B 2002

End flanges : JIS B 2239 16K

120°C Static water..... 2.16MPa(22kgf/cm²)220°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)300°C Steam, air, gas, oil..... 1.77MPa(18kgf/cm²)350°C Steam, air, gas, oil..... 1.57MPa(16kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● A gasket will be used for sealing the plug for application to high temperature exceeding 260°C. Specify your service temperature in advance. Ensure replacement of plug gaskets on your valve maintenance.

Test Pressure

Body	3.24MPa (33kgf/cm ²) [hydrostatic]
Seat	2.38~0.79MPa (24.2~8.1kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Cover	FCD-S
Disc	SUS 403 (8"~12": SCPH2+13Cr)
Body seat ring	SUS 403 (2"~4": SCS1)
Arm	SCS13A (5"~12": SFVC2A or SCPH 2)
Split pin	SUS 304
Hinge pin	SUS 403
Plug	SS 400
Washer	SS 400
Gasket	Asbestos-free
Cover bolt / nut	S45C

Dimensions

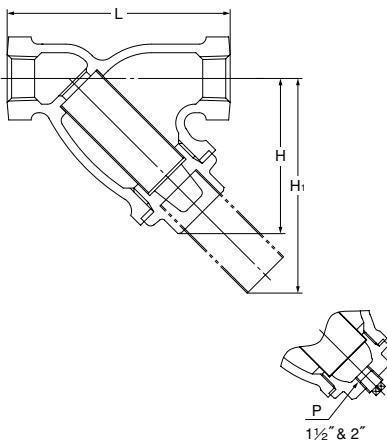
Size	mm	50	65	80	100	125	150	200	250	300	mm
	inch	2	2 1/2	3	4	5	6	8	10	12	
L		203	216	241	292	330	356	495	622	698	
H		120	135	145	165	200	220	265	320	360	

NOTE : For flange dimensions refer to Page 40.

16K Y-Pattern Strainer

16FDY

S.C.



E-E dimension : KITZ Std.
End threads : JIS B 0203

Dimensions

Size	mm	15	20	25	32	40	50	mm
	inch	½	¾	1	1¼	1½	2	
L		85	100	115	135	150	180	
H		60	65	75	90	100	115	
P		—	—	—	—	Rc⅓	Rc½	
H1		85	95	110	130	145	170	

120°C Static water..... 2.16MPa(22kgf/cm²)

220°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Employment of copper cap prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	3.24MPa (33kgf/cm ²) [hydrostatic]
------	--

Materials

Parts	JIS material
Body	FCD-S
Cap	C3771BE
Gasket	Asbestos-free
Screen	SUS 304
Plug	SUS 304

Screen Hole Size

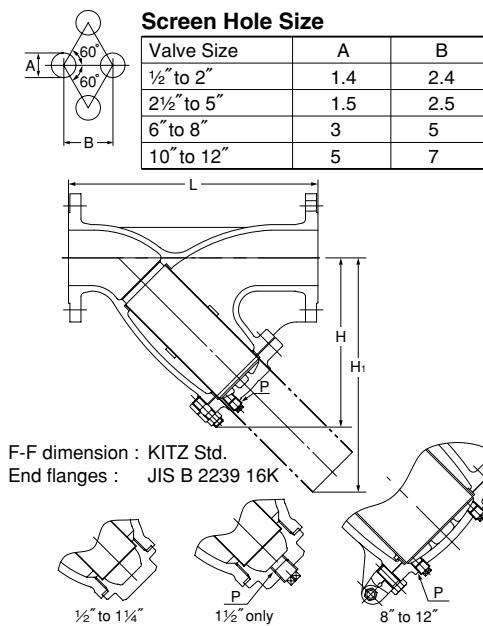
A : 1.4
B : 2.4

16K Y-Pattern Strainer

16FDYB

B.C. or S.C.
RF-flanged

B.C. for 2" & larger
S.C. for 1½" & smaller



F-F dimension : KITZ Std.
End flanges : JIS B 2239 16K

120°C Static water..... 2.16MPa(22kgf/cm²)

220°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

300°C Steam, air, gas, oil..... 1.77MPa(18kgf/cm²)

350°C Steam, air, gas, oil..... 1.57MPa(16kgf/cm²)

(½" ~ 1½" : 260°C 1.86MPa(19kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

● Employment of copper cap prohibits use of this valve for ammonia or amine chemicals.

● A gasket will be used for sealing the plug for application to high temperature exceeding 260°C. Specify your service temperature in advance. Ensure replacement of plug gaskets on your valve maintenance.

Test Pressure

Body	3.24MPa (33kgf/cm ²) [hydrostatic]
------	--

Materials

Parts	JIS material
Body	FCD-S
Cap (½" ~ 1½")	C3771BE
Cover (2" ~ 12")	FCD-S
Gasket	Asbestos-free
Screen	SUS 304
Cover bolt	S45C (8" ~ 12" : SUS 304)
Plug*	SUS 304 / S45C

* 1½" & larger

2 drain plugs will be provided for 8" & larger sizes.

Dimensions

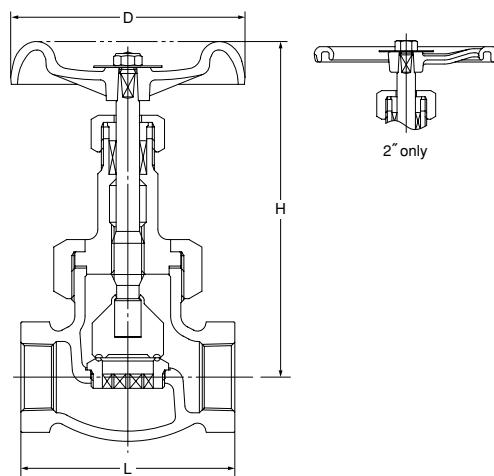
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	mm
	inch	½	¾	1	1¼	1½	2	2½	3	4	5	6	8	10	12	
L		125	140	150	170	190	250	305	360	415	465	515	580	680	800	
H		57	63	77	90	100	168	212	242	284	325	370	462	536	625	
P		—	—	—	—	Rc⅓	Rc¼	Rc¼	Rc¾							
H1		82	91	114	134	146	218	285	340	391	450	502	645	757	882	

NOTE : For flange dimensions refer to Page 40.

20K Globe Valve

20SY

U.B.I.S.



E-E dimension : KITZ Std.
End threads : JIS B 0203

Dimensions

Size	mm						
	10	15	20	25	32	40	50
inch	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	75	78	91	105	122	135	160
H (open)	136	138	157	178	202	210	239
D	70	80	100	115	135	135	180

120°C Static water..... 2.75MPa(28kgf/cm²)220°C Steam, air, gas, oil..... 2.45MPa(25kgf/cm²)300°C Steam, air, gas, oil..... 2.26MPa(23kgf/cm²)350°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

- Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

- Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	4.12MPa (42kgf/cm ²) [hydrostatic]
Seat	3.02MPa (30.8kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SUS 403 + HF*
Body seat ring	SCS13A + HF*
Gland	SUS 403 (3/8" & 1/2": SUS 420J2)
Gland packing	Asbestos-free
Packing nut	FCD-S
Handwheel	FCD 450-10 (2": FCD 400-15)
Wheel nut	SS 400
Bonnet ring	FCD-S
Gasket	C1100P-0
Name plate	A1050P

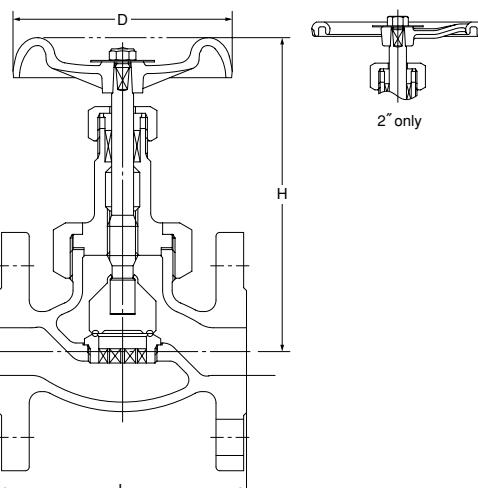
* Hard-faced with Co-Cr-W alloy

20K Globe Valve

20SYB

U.B.I.S.

RF-flanged



F-F dimension : JIS B 2002 JV 4-4*
End flanges : JIS B 2239 20K
*KITZ Std. for 3/8"

Dimensions

Size	mm						
	10	15	20	25	32	40	50
inch	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	110	110	120	130	160	180	230
H (open)	136	138	157	178	202	210	239
D	70	80	100	115	135	135	180

120°C Static water..... 2.75MPa(28kgf/cm²)220°C Steam, air, gas, oil..... 2.45MPa(25kgf/cm²)300°C Steam, air, gas, oil..... 2.26MPa(23kgf/cm²)350°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

- Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

- Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	4.12MPa (42kgf/cm ²) [hydrostatic]
Seat	3.02MPa (30.8kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SUS 403 + HF*
Body seat ring	SCS13A + HF*
Gland	SUS 403 (3/8" & 1/2": SUS 420J2)
Gland packing	Asbestos-free
Packing nut	FCD-S
Handwheel	FCD 450-10 (2": FCD 400-15)
Wheel nut	SS 400
Gasket	C1100P-0
Name plate	A1050P

* Hard-faced with Co-Cr-W alloy

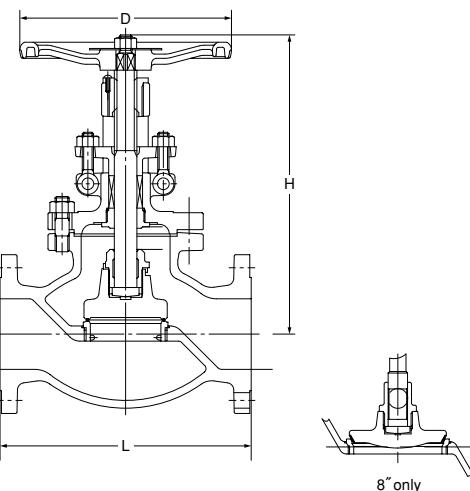
NOTE : For flange dimensions refer to Page 40.

20K Globe Valve

20SYBO

B.B.O.S.Y.

RF-flanged



F-F dimension : JIS B 2002
End flanges : JIS B 2239 20K

Dimensions

Size	mm	50	65	80	100	125	150	200	mm
	inch	2	2½	3	4	5	6	8	
L		267	292	318	356	400	444	559	
H (open)		243	347	382	457	534	593	697	
D		225	250	250	300	350	400	560	

NOTE : For flange dimensions refer to Page 40.

120°C Static water..... 2.75MPa(28kgf/cm²)
220°C Steam, air, gas, oil..... 2.45MPa(25kgf/cm²)
300°C Steam, air, gas, oil..... 2.26MPa(23kgf/cm²)
350°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable. Contact KITZ Corporation for technical advice, if valves are used as heat transfer media.

Test Pressure

Body	4.12MPa (42kgf/cm ²) [hydrostatic]
Seat	3.02MPa (30.8kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 403
Disc	SFVC2A+HF*
Lock nut	FCD-S (8": SUS 403)
Body seat ring	SFVC2A+HF* (8": SUS 403+HF*)
Gland	FCD-S
Gland packing	Asbestos-free
Handwheel	FCD 400-15
Wheel nut	SS 400
Bonnet bolt /nut	S45C
Gland bolt /nut	SS 400
Yoke bush	C6782BE
Gasket	Asbestos-free
Name plate	A1050P

* Hard-faced with Co-Cr-W alloy

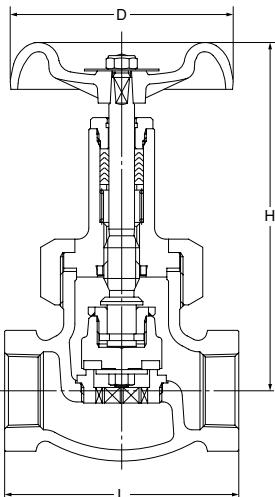
20K Globe Valve with Soft Disc for Gas Service

20SDL

U.B.I.S.



PTFE disc for gas service



E-E dimension : KITZ Std.
End threads : JIS B 0203

80°C gas..... 2.4MPa(24.5kgf/cm²)

Test Pressure

Body	3.60MPa (36.8kgf/cm ²) [hydrostatic]
Seat	2.50MPa (25.5kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Bonnet ring	FCD-S
Stem	SUS 420J2
Disc	PTFE
Gland	SUS 303
Gland packing	NBR
Handwheel	ADC 12 (¾" & ½": ZDC2)
Gasket	Asbestos-free
Body seat ring	SUS 303
Stem washer	SUS 403
Disc washer	SUS 403
Spring	SUS 304WPB

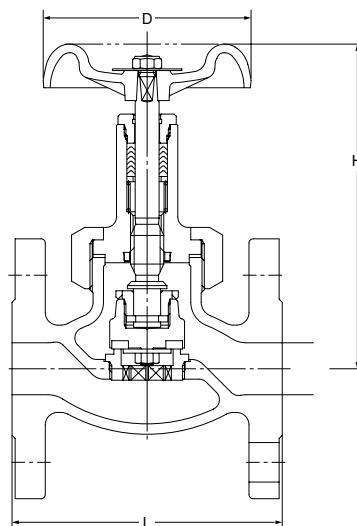
Dimensions

Size	mm	10	15	20	25	32	40	50	mm
	inch	⅓	½	¾	1	1¼	1½	2	
L		75	78	91	105	122	135	160	
H (open)		128	128	147	168	192	201	237	
D		70	70	90	100	115	135	155	

20K Globe Valve with Soft Disc for Gas Service

20SDLBU.B.I.S.
RF-flanged.

PTFE disc for gas service



F-F dimension : JIS B 2002 JV 4-4

End flanges : JIS B 2239 20K

80°C gas..... 2.4MPa(24.5kgf/cm²)**Test Pressure**

Body	3.60MPa (36.8kgf/cm ²) [hydrostatic]
Seat	2.50MPa (25.5kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	Reinforced PTFE
Gland	SUS 303
Gland packing	NBR
Handwheel	ADC 12 (1/2": ZDC2)
Gasket	Asbestos-free
Body seat ring	SUS 303
Stem washer	SUS 403
Disc washer	SUS 304
Spring	SUS 304WPB

Dimensions

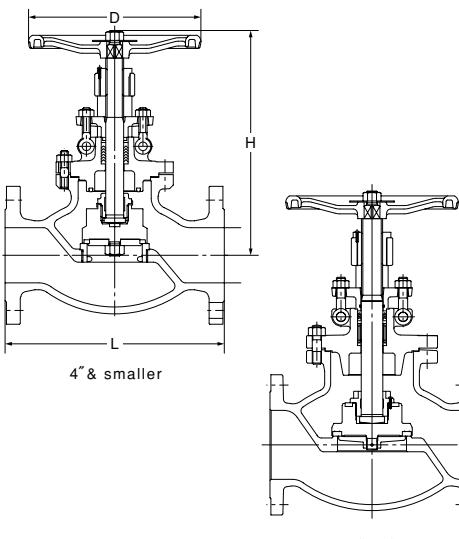
Size	mm					
	15 inch	20 3/4	25 1	32 1 1/4	40 1 1/2	50 2
L	110	120	130	160	180	230
H (open)	128	147	168	192	201	237
D	70	90	100	115	135	155

NOTE : For flange dimensions refer to Page 40.

20K Globe Valve with Soft Disc for Gas Service

20SDLBOB.B.O.S.Y.
RF-flanged

PTFE disc for gas service

F-F dimension : JIS B 2002
End flanges : JIS B 2239 20K80°C gas..... 2.4MPa(24.5kgf/cm²)**Test Pressure**

Body	3.60MPa (36.8kgf/cm ²) [hydrostatic]
Seat	2.50MPa (25.5kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 403
Disc	PTFE
Gland	FCD-S
Gland packing	NBR+PTFE
Gasket	Asbestos-free
Body seat ring*	SUS 403
Stem washer*	SKD 1
Disc washer*	SUS 403
Spring (6" & 8")	SUS 304 WPB
Bonnet bolt / nut	S45C
Handwheel	FCD 400-15

* 4" & smaller

Dimensions

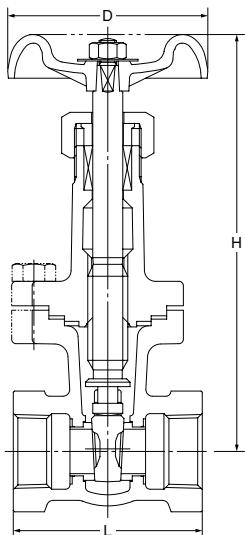
Size	mm				
	65 2 1/2	80 3	100 4	150 6	200 8
L	292	318	356	444	559
H (open)	337	351	439	600	688
D	250	250	300	400	560

NOTE : For flange dimensions refer to Page 40.

20K Gate Valve

20SLS

B.B.I.S.



E-E dimension : JV 4-4
End threads : JIS B 0203

120°C Static water..... 2.75MPa(28kgf/cm²)
220°C Steam, air, gas, oil..... 2.45MPa(25kgf/cm²)
300°C Steam, air, gas, oil..... 2.26MPa(23kgf/cm²)
350°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

Test Pressure

Body	4.12MPa (42kgf/cm ²) [hydrostatic]
Seat	3.02MPa (30.8kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SCS 1
Gland	SUS 403
Gland packing	Asbestos-free
Handwheel	FCD 450-10
Gasket	Asbestos-free
Body seat ring	SUS 403
Name plate	A1050P

Dimensions

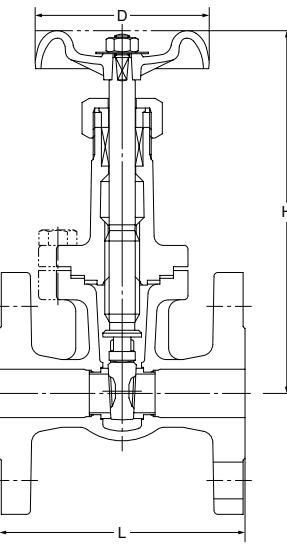
Size	mm	15	20	25	32	40	50	mm
	inch	1/2	3/4	1	1 1/4	1 1/2	2	
L		70	75	85	95	105	115	
H (open)		175	177	214	241	277	301	
D		90	90	100	115	135	135	

20K Gate Valve

20SLB

B.B.I.S.

RF-flanged



F-F dimension : JIS B 2002 JV 4-4
End flanges : JIS B 2239 20K

120°C Static water..... 2.75MPa(28kgf/cm²)
220°C Steam, air, gas, oil..... 2.45MPa(25kgf/cm²)
300°C Steam, air, gas, oil..... 2.26MPa(23kgf/cm²)
350°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

Test Pressure

Body	4.12MPa (42kgf/cm ²) [hydrostatic]
Seat	3.02MPa (30.8kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SCS 1
Body seat ring	SUS 403
Gland	SUS 403
Gland packing	Asbestos-free
Handwheel	FCD 450-10
Wheel nut	SS 400
Bonnet bolt	S45C
Gasket	Asbestos-free
Name plate	A1050P

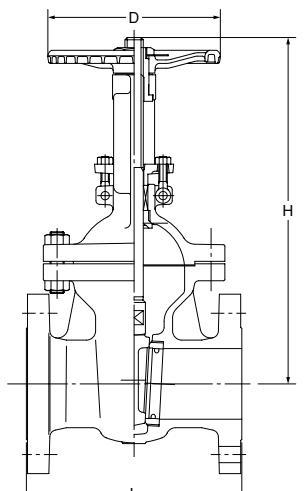
Dimensions

Size	mm	15	20	25	32	40	mm
	inch	1/2	3/4	1	1 1/4	1 1/2	
L		108	117	127	140	165	
H (open)		175	177	214	241	277	
D		90	90	100	115	135	

NOTE : For flange dimensions refer to Page 40.

20K Gate Valve

20SLBO

 B.B.O.S.Y.
RF-flanged

 F-F dimension : JIS B 2002
 End flanges: JIS B 2239 20K

120°C Static water..... 2.75MPa(28kgf/cm²)
 220°C Steam, air, gas, oil..... 2.45MPa(25kgf/cm²)
 300°C Steam, air, gas, oil..... 2.26MPa(23kgf/cm²)
 350°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

Test Pressure

Body	4.12MPa (42kgf/cm ²) [hydrostatic]
Seat	3.02MPa (30.8kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 403
Disc	SUS 403 (8"~12": SCPH2+13Cr)
Body seat ring	SUS 403 (1½": SCS 1)
Gland	FCD-S
Gland packing	Asbestos-free
Handwheel	FCD 400-15
Wheel nut	SS 400
Bonnet bolt/nut	S45C
Gland bolt/nut	SS 400
Yoke sleeve	C6782BE (6"~12": HBsC2)
Gasket	Asbestos-free
Name plate	A1050P

Dimensions

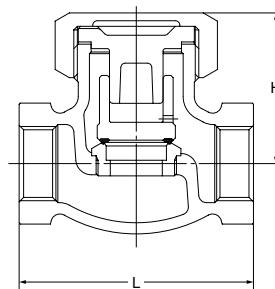
Size	mm	40	50	65	80	100	125	150	200	250	300	mm
	inch	1½	2	2½	3	4	5	6	8	10	12	
L		190	216	241	283	305	381	403	419	457	502	
H (open)		326	395	450	520	595	725	820	1070	1247	1451	
D		160	200	200	250	250	300	350	400	450	500	

NOTE : For flange dimensions refer to Page 40.

20K Lift Check Valve

20SN

U.B.


 E-E dimension : KITZ Std.
 End threads : JIS B 0203

120°C Static water..... 2.75MPa(28kgf/cm²)
 220°C Steam, air, gas, oil..... 2.45MPa(25kgf/cm²)
 300°C Steam, air, gas, oil..... 2.26MPa(23kgf/cm²)
 350°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

Test Pressure

Body	4.12MPa (42kgf/cm ²) [hydrostatic]
Seat	3.02~1.01MPa (30.8~10.3kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	SCS 1
Disc	SCS 13A+HF*
Bonnet ring	FCD-S
Gasket	Asbestos-free
Body seat ring	SCS 13A+HF*

* Hard-faced with Co-Cr-W alloy

Dimensions

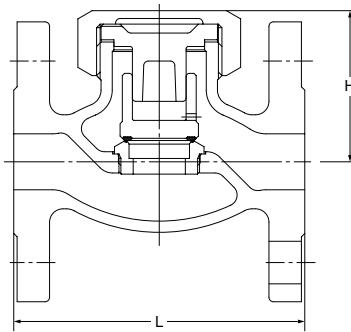
Size	mm	15	20	25	32	40	50
	inch	½	¾	1	1¼	1½	2
L		78	91	105	122	135	160
H		56	60	68	80	85	99

20K Lift Check Valve

20SNB

U.B.

RF-flanged



F-F dimension : JIS B 2002 JV 4-4
End flanges : JIS B 2239 20K

120°C Static water..... 2.75MPa(28kgf/cm²)
220°C Steam, air, gas, oil..... 2.45MPa(25kgf/cm²)
300°C Steam, air, gas, oil..... 2.26MPa(23kgf/cm²)
350°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

Test Pressure

Body	4.12MPa (42kgf/cm ²) [hydrostatic]
Seat	3.02~1.01MPa (30.8~10.3kgf/cm ²) [hydrostatic] 0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	SCS 1
Disc	SCS 13A+HF*
Bonnet ring	FCD-S
Gasket	Asbestos-free
Body seat ring	SCS 13A+HF*

* Hard-faced with Co-Cr-W alloy

Dimensions

Size	mm inch	15 1/2	20 3/4	25 1	32 1 1/4	40 1 1/2	50 2
L		110	120	130	160	180	230
H		56	60	68	80	85	99

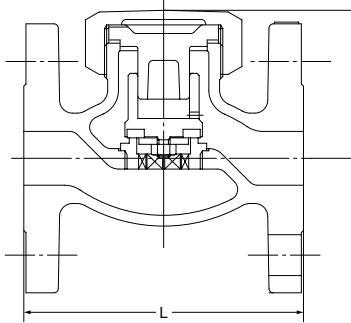
NOTE : For flange dimensions refer to Page 40.

20K Lift Check Valve for Gas Service

20SNDB

U.B.

RF-flanged



PTFE disc for gas service

F-F dimension : JIS B 2002
End flanges : JIS B 2239 20K

120°C gas..... 2.4MPa(24.5kgf/cm²)

Test Pressure

Body	3.60MPa (36.8kgf/cm ²) [hydrostatic]
Seat	2.50MPa (25.5kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	SCS 1
Bonnet ring	FCD-S
Disc	PTFE
Disc holder	SUS 304
Gasket	Asbestos-free
Body seat ring	SUS 303
Disc washer	SUS 304

Dimensions

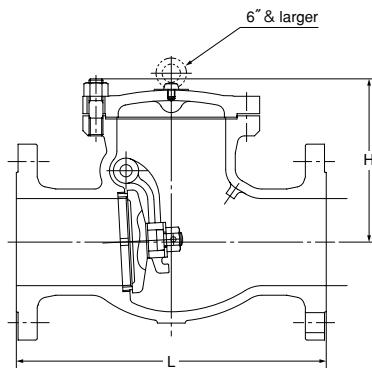
Size	mm inch	15 1/2	20 3/4	25 1	32 1 1/4	40 1 1/2	50 2
L		110	120	130	160	180	230
H		56	60	68	80	85	99

NOTE : For flange dimensions refer to Page 40.

20K Swing Check Valve

20SOB

B.C.
RF-flanged



F-F dimension : JIS B 2002
End flanges : JIS B 2239 20K

120°C Static water..... 2.75MPa(28kgf/cm²)
220°C Steam, air, gas, oil..... 2.45MPa(25kgf/cm²)
300°C Steam, air, gas, oil..... 2.26MPa(23kgf/cm²)
350°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

Test Pressure

Body	4.12MPa (42kgf/cm ²) [hydrostatic]
Seat	3.02~1.01MPa (30.8~10.3kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Cover	FCD-S
Disc	SUS 403 (8"~12": SCPH2+13Cr)
Disc nut	SS 400 (5"~12": SUS304)
Body seat ring	SUS 403 (2"~4": SCS1)
Arm	SCS13A (5"~12": SFVC2A or SCPH2)
Hinge pin	SUS 403
Split pin	SUS 304
Plug	SS 400
Washer	SS 400
Gasket	Asbestos-free
Cover bolt / nut	S45C

Dimensions

Size	mm								
	50 inch	65	80	100	125	150	200	250	300
L	267	292	318	356	400	444	533	622	711
H	135	145	160	185	220	240	275	335	370

NOTE : For flange dimensions refer to Page 40.

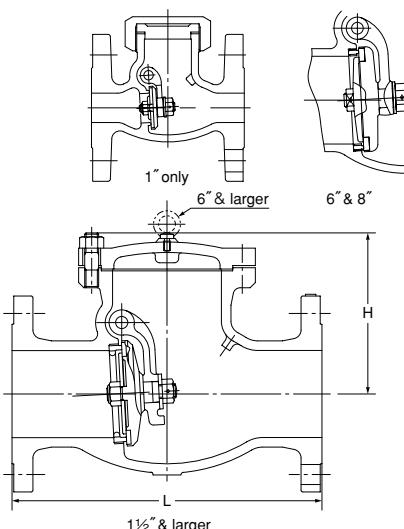
20K Swing Check Valve for Gas Service

20SODB

B.C. or U.B.
RF-flanged



PTFE disc for gas service
B.C. for 1½" & larger
U.B. for 1" only



F-F dimension : JIS B 2002
End flanges : JIS B 2239 20K

120°C gas..... 2.4MPa(24.5kgf/cm²)

Test Pressure

Body	3.60MPa (36.8kgf/cm ²) [hydrostatic]
Seat	2.50MPa (25.5kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Cap (1" only)	SFVC2A
Cover (1½"~8")	FCD-S
Disc	PTFE
Disc holder	SUS 403
Gasket	Asbestos-free
Body seat ring	SUS 403
Arm	SCS13A (6" & 8": SFVC2A or SCPH2)
Hinge pin	SUS 403
Split pin	SUS 304
Cover bolt/nut	S45C
Bushing (1"~4")	SUS 403

Dimensions

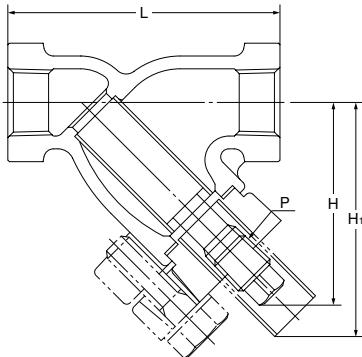
Size	mm							
	25 inch	40	50	65	80	100	150	200
L	130	241	267	292	318	356	444	533
H	78	123	135	145	160	185	240	280

NOTE : For flange dimensions refer to Page 40.

20K Strainer for Gas Service

20FDY

B.C.



E-E dimension : KITZ Std.
End threads : JIS B 0203

Dimensions

Size	mm	10	15	20	25	32	40	50	mm
	inch	1/2	3/4	3/4	1 1/4	1 1/2	2	2	
L		80	85	100	115	135	150	180	
H		65	65	70	83	120	130	152	
P		Rc1/4	Rc1/4	Rc3/8	Rc1/2	Rc3/4	Rc1	Rc1 1/4	
H1		74	74	85	102	122	134	161	

120°C Static water..... 2.75MPa(28kgf/cm²)
220°C Steam, air, gas, oil..... 2.45MPa(25kgf/cm²)
300°C Steam, air, gas, oil..... 2.26MPa(23kgf/cm²)
350°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

● A gasket will be used for sealing the plug for application to high temperature exceeding 260°C. Specify your service temperature in advance. Ensure replacement of plug gaskets on your valve maintenance.

Test Pressure

Body	4.12MPa (42kgf/cm ²) [hydrostatic]
------	--

Materials

Parts	JIS material
Body	FCD-S
Cover	FCD-S
Gasket	Asbestos-free
Screen*	SUS 304
Plug	SUS 304
Cover bolt	S45C

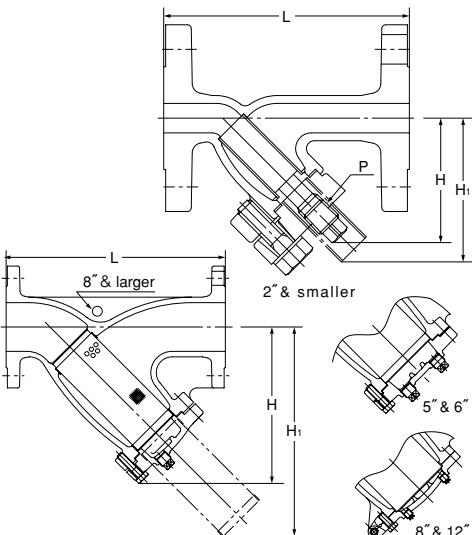
* 40mesh wire cloth (reinforced with SUS 304 punched plate)

20K Strainer for Gas Service

20FDYB

B.C.

RF-flanged



F-F dimension : KITZ Std.
End flanges : JIS B 2239 20K

120°C Static water..... 2.75MPa(28kgf/cm²)
220°C Steam, air, gas, oil..... 2.45MPa(25kgf/cm²)
300°C Steam, air, gas, oil..... 2.26MPa(23kgf/cm²)
350°C Steam, air, gas, oil..... 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

● A gasket will be used for sealing the plug for application to high temperature exceeding 260°C. Specify your service temperature in advance. Ensure replacement of plug gaskets on your valve maintenance.

Test Pressure

Body	4.12MPa (42kgf/cm ²) [hydrostatic]
------	--

Materials

Parts	JIS material
Body	FCD-S
Cover	FCD-S
Gasket	Asbestos-free
Screen*	SUS 304
Plug	SUS 304
Cover bolt	S45C

* 40mesh wire cloth (reinforced with SUS 304 punched plate)

Dimensions

Size	mm	10	15	20	25	32	40	50	65	80	100	125	150	200	250	300	mm
	inch	5/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	
L		120	125	140	160	185	200	250	305	360	415	465	515	620	760	870	
H		65	65	70	85	124	135	163	222	254	294	335	382	442	548	654	
H1		74	74	85	105	126	139	172	299	345	398	457	508	570	733	895	
P		Rc1/4	Rc1/4	Rc3/8	Rc1/2	Rc3/4	Rc1	Rc1 1/4	Rc1/2	Rc1/2	Rc3/4	Rc3/4	Rc1	Rc1	Rc1	Rc1	

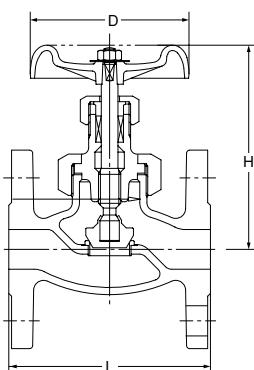
NOTE : For flange dimensions refer to Page 40.

Class 150 Globe Valve

150SPB

U.B.I.S.

RF-flanged



F-F dimension : ASME B16.10
End flanges : ASME B16.5

-5°C ~ +38°C W.O.G.	1.73MPa(17.6kgf/cm ²)
149°C W.O.G.	1.48MPa(15.1kgf/cm ²)
260°C W.O.G.	1.18MPa(12.0kgf/cm ²)
343°C W.O.G.	0.86MPa (8.8kgf/cm ²)

- Use for lubricating or hydraulic oil is acceptable.
- Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	2.75MPa (28kgf/cm ²) [hydrostatic]
Seat	1.96MPa (20kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SUS 403
Gland	SUS 403 (1/2" & 3/4" : SUS 420J2)
Gland packing	Asbestos-free
Handwheel	FCD 450-10
Gasket	C1100P-0
Body seat ring	SUS 403

Dimensions

Size	mm	15	20	25	32	40	50	mm
	inch	1/2	3/4	1	1 1/4	1 1/2	2	
L		108	117	127	140	165	203	
H(open)		122	128	146	165	179	198	
D		80	80	100	115	115	135	

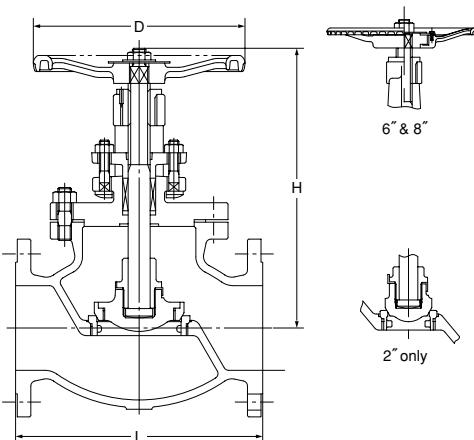
NOTE : For flange dimensions refer to Page 41.

Class 150 Globe Valve

150SPBO

B.B.O.S.Y.

RF-flanged



F-F dimension : ASME B16.10
End flanges : ASME B16.5

-5°C ~ +38°C W.O.G.	1.73MPa(17.6kgf/cm ²)
149°C W.O.G.	1.48MPa(15.1kgf/cm ²)
260°C W.O.G.	1.18MPa(12.0kgf/cm ²)
343°C W.O.G.	0.86MPa (8.8kgf/cm ²)

- Use for lubricating or hydraulic oil is acceptable.

Test Pressure

Body	2.75MPa (28kgf/cm ²) [hydrostatic]
Seat	1.96MPa (20kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 403
Disc	FCD-S (2" : SUS 403)
Gland	FCD-S
Gland packing	Asbestos-free
Handwheel	FCD 400-15
Gasket	Asbestos-free
Body seat ring	SCS 1 (5" ~ 8" : SUS 403)
Disc seat ring	SCS 1 (5" ~ 8" : SUS 403)
Yoke bush	C6782BD

Dimensions

Size	mm	50	65	80	100	125	150	200	mm
	inch	2	2 1/2	3	4	5	6	8	
L		203	216	241	292	356	406	495	
H (open)		302	317	356	377	460	524	585	
D		200	225	250	250	300	350	400	

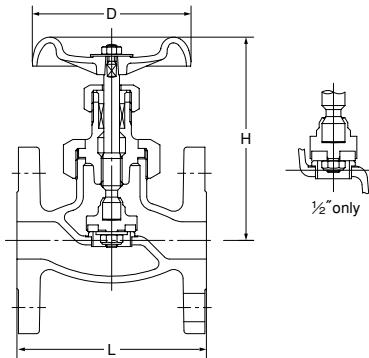
NOTE : For flange dimensions refer to Page 41.

Class 150 Globe Valve

150SPDB

U.B.I.S.

RF-flanged



F-F dimension : ASME B16.10

End flanges : ASME B16.5

—5°C ~ +38°C W.O.G. 1.73MPa(17.6kgf/cm²)
149°C W.O.G. 1.48MPa(15.1kgf/cm²)
180°C W.O.G. 1.18MPa(12.0kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	2.75MPa (28kgf/cm ²) [hydrostatic]
Seat	1.96MPa (20kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	Reinforced PTFE
Gland	SUS 403 (½" & ¾" : SUS 420J2)
Gland packing	Asbestos-free
Handwheel	FCD 450-10
Gasket	C1100P-0
Body seat ring	SUS 403

Dimensions

Size	mm					
	15 mm inch	20	25	32	40	50
L	108	117	127	140	165	203
H (open)	127	135	155	172	193	208
D	70	70	90	100	115	135

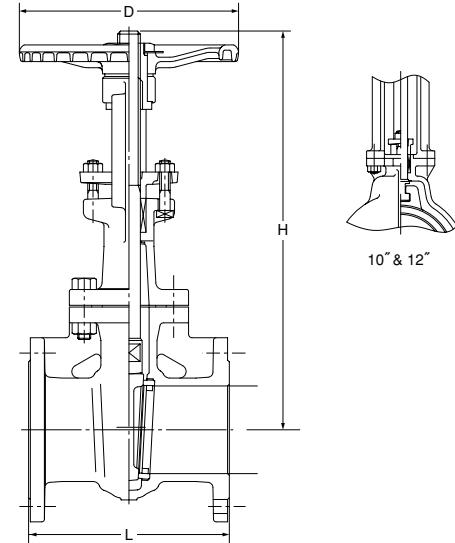
NOTE : For flange dimensions refer to Page 41.

Class 150 Gate Valve

150SMBO

B.B.O.S.Y.

RF-flanged



F-F dimension : ASME B16.10

End flanges : ASME B16.5

—5°C ~ +38°C W.O.G. 1.73MPa(17.6kgf/cm²)
149°C W.O.G. 1.48MPa(15.1kgf/cm²)
260°C W.O.G. 1.18MPa(12.0kgf/cm²)
343°C W.O.G. 0.86MPa (8.8kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

Test Pressure

Body	2.75MPa (28kgf/cm ²) [hydrostatic]
Seat	1.96MPa (20kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 403
Disc	SUS 403 (1½" ~ 8") SFVC2A+13Cr (10") SCPH2+13Cr (12")
Gland	FCD-S
Gland packing	Asbestos-free
Handwheel	FCD 400-15
Gasket	Asbestos-free
Body seat ring	SUS 403 (1½" ~ 3" : SCS 1)
Yoke sleeve	C6782BE (8" ~ 12" : CAC 302)
Yoke *	FCD-S

* Only for 10" & 12"

Dimensions

Size	mm									
	40 mm inch	50	65	80	100	125	150	200	250	300
L	165	178	190	203	229	254	267	292	330	356
H (open)	300	352	408	473	566	667	779	993	1181	1404
D	160	200	200	250	250	300	300	350	400	450

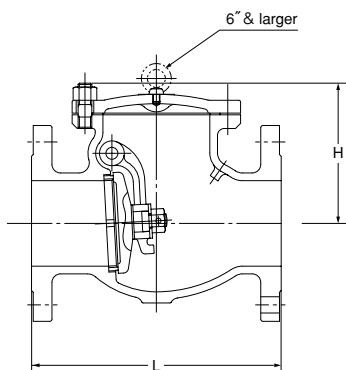
NOTE : For flange dimensions refer to Page 41.

Class 150 Swing Check Valve

150SRB

B.C.

RF-flanged



F-F dimension : ASME B16.10

End flanges : ASME B16.5

Dimensions

Size	mm									
	40	50	65	80	100	125	150	200	250	300
inch	1½	2	2½	3	4	5	6	8	10	12
L	165	203	216	241	292	330	356	495	622	698
H	115	120	130	145	165	200	220	260	320	360

NOTE : For flange dimensions refer to Page 41

-5°C ~ +38°C W.O.G. 1.73MPa(17.6kgf/cm²)149°C W.O.G. 1.48MPa(15.1kgf/cm²)260°C W.O.G. 1.18MPa(12.0kgf/cm²)343°C W.O.G. 0.86MPa (8.8kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

● Bolting materials will be changed for servicing high temperature exceeding 225°C. Contact KITZ Corporation for detailed information.

● A gasket will be used for sealing the plug for application to high temperature exceeding 260°C. Specify your service temperature in advance. Ensure replacement of plug gaskets on your valve maintenance.

Test Pressure

Body	2.75MPa (28kgf/cm ²) [hydrostatic]
Seat	1.96MPa (20kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

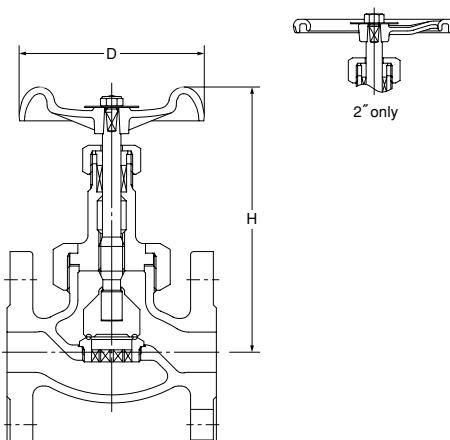
Parts	JIS material
Body	FCD-S
Cover	FCD-S
Disc	SUS 403 (8"~12": SCPH2+13Cr)
Disc nut	SS 400 (5"~12": SUS 304)
Split pin	SUS 304
Hinge pin	SUS 403
Plug	SS 400
Gasket	Asbestos-free
Body seat ring	SUS 403 (1½"~4": SCS 1)
Arm	SCS 13A (5"~12": SFVC2A)
Cover bolt / nut	SS 400

Class 300 Globe Valve

300SYB

U.B.I.S.

RF-flanged



F-F dimension : JIS B 2002 JV 4-4

End flanges : ASME B16.5

-5°C ~ +38°C W.O.G. 2.94MPa(30.0kgf/cm²)149°C W.O.G. 2.60MPa(26.5kgf/cm²)260°C W.O.G. 2.28MPa(23.2kgf/cm²)350°C W.O.G. 2.04MPa(20.8kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	4.41MPa (45kgf/cm ²) [hydrostatic]
Seat	3.24MPa (33kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SUS 403+HF*
Gland	SUS 403 (1½": SUS 420J2)
Gland packing	Asbestos-free
Handwheel	FCD 450-10 (2": FCD 400-15)
Gasket	C1100P-0
Body seat ring	SCS 13A+HF*

* Hard-faced with Co-Cr-W alloy

Dimensions

Size	mm					
	15	20	25	32	40	50
inch	½	¾	1	1¼	1½	2
L	110	120	130	160	180	230
H (open)	138	157	178	202	210	239
D	80	100	115	135	135	180

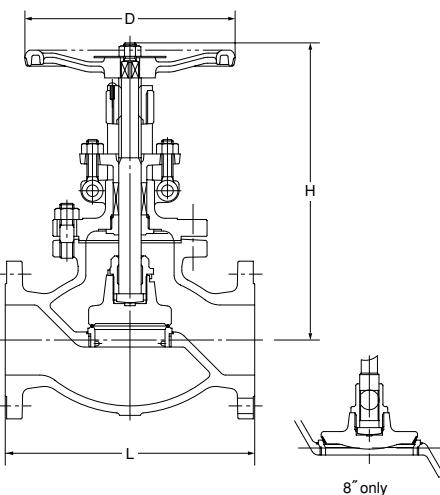
NOTE : For flange dimensions refer to Page 41

Class 300 Globe Valve

300SYBO

B.B.O.S.Y.

RF-flanged



F-F dimension : ASME B16.10

End flanges : ASME B16.5

-5°C ~ +38°C W.O.G. 2.94MPa(30.0kgf/cm²)149°C W.O.G. 2.60MPa(26.5kgf/cm²)260°C W.O.G. 2.28MPa(23.2kgf/cm²)350°C W.O.G. 2.04MPa(20.8kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

Test Pressure

Body	4.41MPa (45kgf/cm ²) [hydrostatic]
Seat	3.24MPa (33kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 403
Disc	SFVC2A +HF*
Gland	FCD-S
Gland packing	Asbestos-free
Handwheel	FCD 400-15
Gasket	Asbestos-free
Body seat ring	SFVC2A +HF*
Yoke bush	C6782BE

* Hard-faced with Co-Cr-W alloy

Dimensions

Size mm inch	50	65	80	100	125	150	200	mm
	2	2½	3	4	5	6	8	
L	267	292	318	356	400	444	559	
H (open)	243	347	382	457	534	593	697	
D	225	250	250	300	350	400	560	

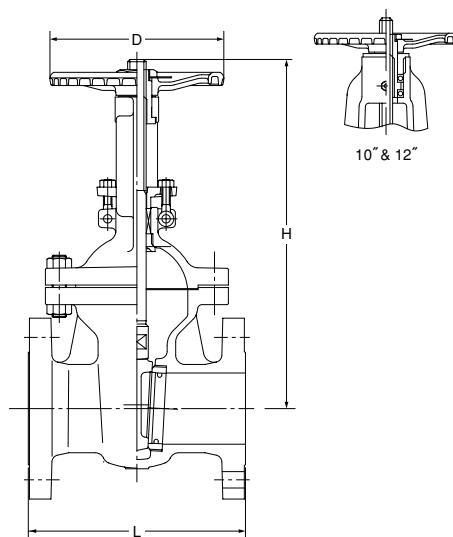
NOTE : For flange dimensions refer to Page 41.

Class 300 Gate Valve

300SLBO

B.B.O.S.Y.

RF-flanged



F-F dimension : ASME B16.10

End flanges : ASME B16.5

-5°C ~ +38°C W.O.G. 2.94MPa(30.0kgf/cm²)149°C W.O.G. 2.60MPa(26.5kgf/cm²)260°C W.O.G. 2.28MPa(23.2kgf/cm²)350°C W.O.G. 2.04MPa(20.8kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

Test Pressure

Body	4.41MPa (45kgf/cm ²) [hydrostatic]
Seat	3.24MPa (33kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Bonnet	FCD-S
Stem	SUS 403
Disc	SUS 403 (8"~12": SCPH2+13Cr)
Gland	FCD-S
Gland packing	Asbestos-free
Handwheel	FCD 400-15
Body seat ring	SUS 403
Yoke sleeve	C6782BE (6"~12": HBsC2)
Gasket	Asbestos-free
Bonnet bolt / nut	S45C

Dimensions

Size mm inch	50	65	80	100	125	150	200	250	300	mm
	2	2½	3	4	5	6	8	10	12	
L	216	241	283	305	381	403	419	457	502	
H (open)	395	450	520	595	725	820	1070	1247	1451	
D	200	200	250	300	350	400	450	500		

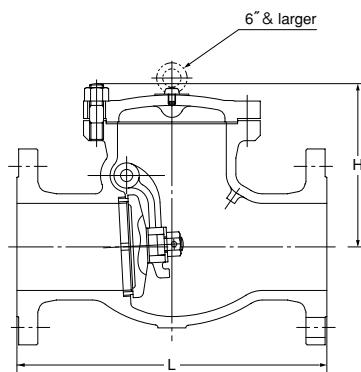
NOTE : For flange dimensions refer to Page 41.

Class 300 Swing Check Valve

300SOB

B.C.

RF-flanged



F-F dimension : ASME B16.10
End flanges : ASME B16.5

Dimensions

Size	mm									
	50	65	80	100	125	150	200	250	300	inch
L	267	292	318	356	400	444	533	622	711	
H	135	145	160	185	220	240	275	335	370	

NOTE : For flange dimensions refer to Page 41.

-5°C ~ +38°C W.O.G. 2.94MPa(30.0kgf/cm²)
149°C W.O.G. 2.60MPa(26.5kgf/cm²)
260°C W.O.G. 2.28MPa(23.2kgf/cm²)
350°C W.O.G. 2.04MPa(20.8kgf/cm²)

- Use for lubricating or hydraulic oil is acceptable.
- A gasket will be used for sealing the plug for application to high temperature exceeding 260°C. Specify your service temperature in advance. Ensure replacement of plug gaskets on your valve maintenance.

Test Pressure

Body	4.41MPa (45kgf/cm ²) [hydrostatic]
Seat	3.24MPa (33kgf/cm ²) [hydrostatic]
	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S
Cover	FCD-S
Disc	SUS 403 (8"~12" SCPH2+13Cr)
Disc nut	SS 400 (5"~12" SUS 304)
Split pin	SUS 304
Hinge pin	SUS 403
Plug	SS 400
Gasket	Asbestos-free
Body seat ring	SUS 403 (2"~4" SCS 1)
Arm	SCS13A (5"~12" SFVC2A)
Cove bolt / nut	S45C

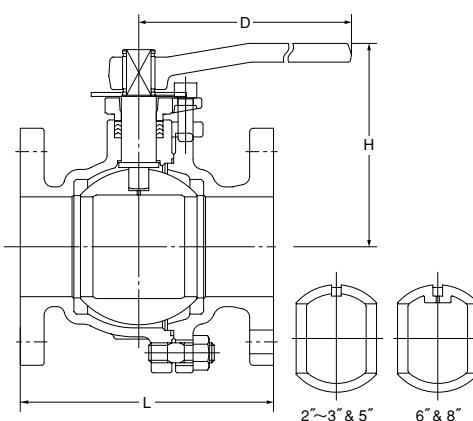
10K Ball Valve Full Bore

10STBF
10STLB (Gas service)

FF-flanged


Test Pressure

Code	10STBF	10STLB
Body	2.06MPa (21kgf/cm ²) [hydrostatic]	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	0.59MPa (6kgf/cm ²) [air]	1.28MPa (13kgf/cm ²) [air]



F-F dimension : ASME B16.10
End flanges : JIS B 2239 10K

Dimensions

Size	mm											
	15	20	25	32	40	50	65	80	100	125	150	200
inch	1/2	5/8	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8
L	108	117	127	140	165	178	190	203	229	356	394	457
H	106	109	130	135	115	120	153	162	199	219	293	352
D	130	130	160	160	230	230	400	460	460	1000	1500	

NOTE : For flange dimensions refer to Page 40. *RF-flanged ends shall be optionally available.

Maximum Service Pressure

Code	Valve size	Temperature	Pressure
10STBF	All size	120°C W.O.G.	1.37MPa (14kgf/cm ²)
	4" and smaller	160°C W.O.G.	0.98MPa (10kgf/cm ²)
	5" to 8"	140°C W.O.G.	0.98MPa (10kgf/cm ²)
10STLB	All size	80°C gas	1.18MPa (12kgf/cm ²)

● Use for lubricating or hydraulic oil is acceptable.

Materials

Parts	JIS material
Body	FCD-S
Body cap	FCD-S
Stem	SUS 403
Ball	SUS 304 / SCS 13A / SUS 304TP
Gland	FCD-S
Gland packing	PTFE
Handle	FCD 400-15
Gasket	PTFE
Packing washer	SUS 304 (1/2"~1 1/4")
Ball seat	HYPATITE PTFE*
Cap bolt / nut	SS 400*
Gland bolt	SCM 435
O ring*	NBR
Stopper	SUS 430
Name plate*	SUS 304

*1 PTFE or C/F PTFE is optionally available.

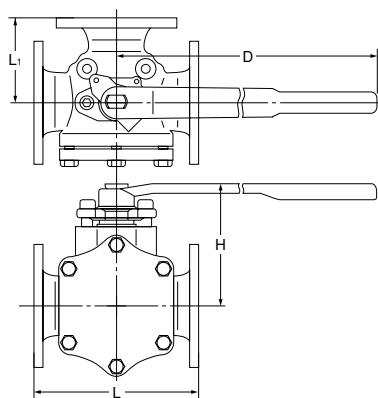
*2 Different bolt / nut material is required for service exceeding temperature range of 0~225°C. Contact KITZ Corporation for technical advice.

*3 for 10STLB only

Contact KITZ Corporation for use of valve actuators.

10K Ball Valve 3-way 4-seat

10STB4LAF (L port. Full Bore 1½"~4")
10STB4TAF (T port. Full Bore 1½"~4")
10STR4LAF (L port. Reduced Bore 5" & larger)
10STR4TAF (T port. Reduced Bore 5" & larger)



E-E dimension : KITZ Std.
End flanges : JIS B 2239

Dimensions

Size	mm							
	40	50	65	80	100	125	150	200
inch	1½	2	2½	3	4	5	6	8
L (STB)	180	200	240	260	330	—	—	—
L (STR)	—	—	—	—	—	340	400	450
L ₁ (STB)	90	100	120	130	165	—	—	—
L ₁ (STR)	—	—	—	—	—	170	200	225
H (STB)	143	152	177	190	259	—	—	—
H (STR)	—	—	—	—	—	259	281	323
D (STB)	400	400	460	460	1000	—	—	—
D (STR)	—	—	—	—	—	1000	1000	1500

NOTE : For flange dimensions refer to Page 40. ※RF-flanged ends shall be optionally available.

120°C W.O.G. 1.0MPa(10kgf/cm²)
 150°C W.O.G. 0.4MPa (4kgf/cm²)

Test Pressure

Body	2.06MPa (21kgf/cm ²) [hydrostatic]
Seat	0.59MPa (6kgf/cm ²) [air]

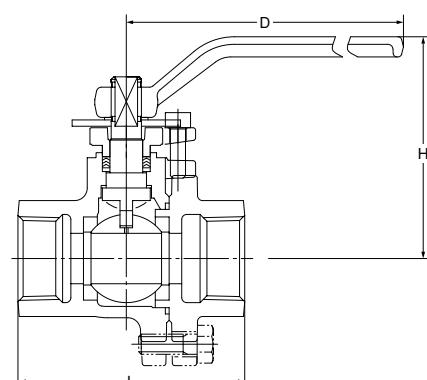
Materials

Parts	JIS material
Body	FCD-S
Body cap	FCD-S
Ball	SCS 13A
Stem	SUS 304
Ball seat	HYPATITE PTFE
Gland packing	PTFE

Gear operators may be optionally used for 6" and 8".

20K Ball Valve Reduced Bore

20ST
20STL (Gas service)



E-E dimension : KITZ Std.
End threads : JIS B 0203

Dimensions

Size	mm					
	15	20	25	32	40	50
inch	½	¾	1	1¼	1½	2
L	75	80	90	105	115	130
H	106	106	107	129	133	114
D	130	130	130	160	160	230

Maximum Service Pressure

Code	Temperature	Pressure
20ST	110°C W.O.G.	2.75MPa(28kgf/cm ²)
20STL	140°C W.O.G.	1.96MPa(20kgf/cm ²)

● Use for lubricating or hydraulic oil is acceptable.

Test Pressure

Body	20ST	4.12MPa (4.4kgf/cm ²) [hydrostatic]
	20SLT	3.60MPa (36.8kgf/cm ²) [hydrostatic]
Seat	20ST	0.59MPa (6kgf/cm ²) [air]
	20SLT	2.50MPa (25.5kgf/cm ²) [air]

Materials

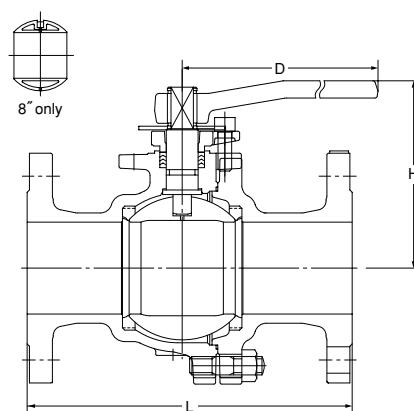
Parts	JIS material
Body	FCD-S
Body cap	FCD-S
Stem	SUS 403
Ball	SUS 304 / SCS 13A
Gland	FCD-S
Gland packing	PTFE
Gasket	PTFE
Ball seat	HYPATITE PTFE
O ring*	NBR
Gland bolt	SCM 435
Cap bolt	S45C
Handle	FCD 400-15
Name plate*	SUS 304

* for 20STL only

20K Ball Valve for Gas Service Full Bore

20STLB

RF-flanged



F-F dimension : ASME B16.10
End flanges : JIS B 2239 20K

80°C Gas 2.4MPa(24.5kgf/cm²)**Test Pressure**

Body	3.60MPa (36.8kgf/cm ²) [hydrostatic]
Seat	2.50MPa (25.5kgf/cm ²) [air]

Materials

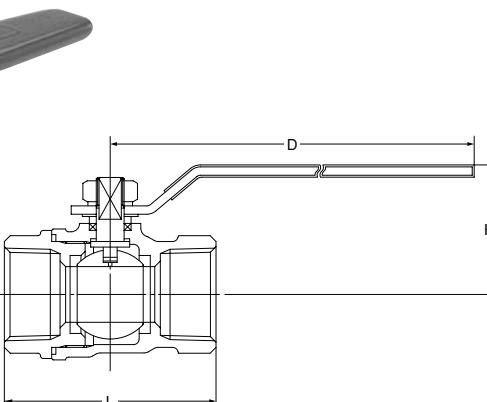
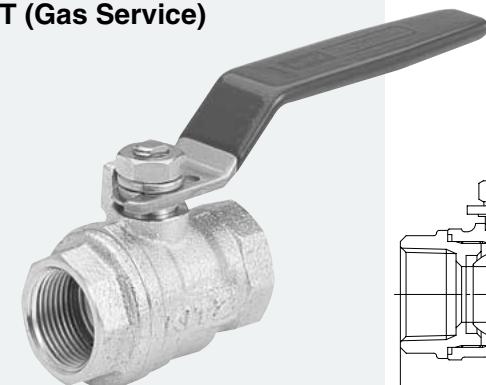
Parts	JIS material
Body	FCD-S
Body cap	FCD-S
Stem	SUS 403
Ball	SUS 304 / SCS 13A
Gland	FCD-S
Gland packing	PTFE
Gasket	PTFE
Ball seat	HYPHTITE PITFE
O-ring	NBR
Cap bolt / nut	S45C
Stopper	SUS 430
Snap ring	SK5
Handle	FCD 400-15

Dimensions

Size	mm											
	15	20	25	32	40	50	65	80	100	150	200	
inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8	
L	140	152	165	178	190	216	241	283	305	403	502	
H(open)	106	109	130	135	115	120	153	162	241	293	352	
D	130	130	160	160	230	230	400	400	750	1000	1500	

NOTE : For flange dimensions refer to Page 40.

Class 400 Ball Valve Reduced Bore

ST (Gas Service)

E-E dimension : KITZ Std.
End threads : JIS B 0203

W.O.G. at Room temp 2.75MPa(28kgf/cm²)
Saturated steam 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

Test Pressure

Body	4.12MPa (42kgf/cm ²) [hydrostatic]
Seat	0.59MPa (6kgf/cm ²) [air]

Materials

Parts	JIS material
Body	FCD-S ^{*1}
Cap	FCD-S ^{*1}
Ball	C3771BE ^{*2}
Stem	K-Metal ^{*5}
Gland packing	PTFE
Ball seat	Reinforced PTFE
Gland	C3604BD ^{*1}
Gasket	PTFE
Handle nut	SS 400 ^{*3}
Handle	SUS 430 ^{*4}

^{*1} Zinc electroplated

^{*2} Ni + Cr electroplated

^{*3} Zinc dicromate electorplated

^{*4} Plastic covering

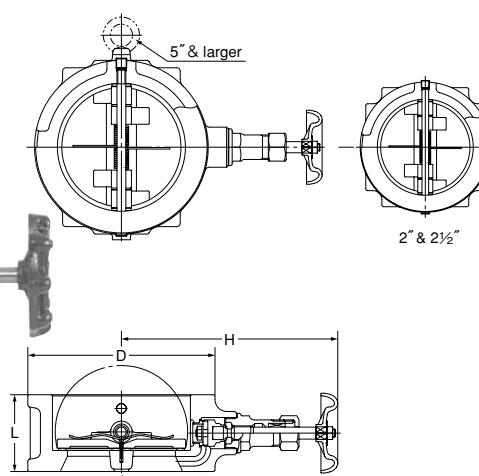
^{*5} K-Metal is special brass developed for anti-dezincification

Dimensions

Size	mm									
	8	10	15	20	25	32	40	50		
inch	1/2	3/8	1/2	3/4	1	1 1/4	1 1/2	2		
L	46	51	57	65	76	86	95	115		
H	38	38	42	49	52	57	63	68		
D	80	80	100	130	130	130	130	150		

10K Wafer Check Valve

10SWU



F-F dimension : KITZ Std.

80°C Static water 1.37MPa(14kgf/cm²)80°C W.O.G. 0.98MPa(10kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	2.06MPa(21kgf/cm ²) [hydrostatic]
Seat	1.51~0.50MPa (15.4~0.5kgf/cm ²) [hydrostatic]
	0.59MPa(6kgf/cm ²) [air]

Materials

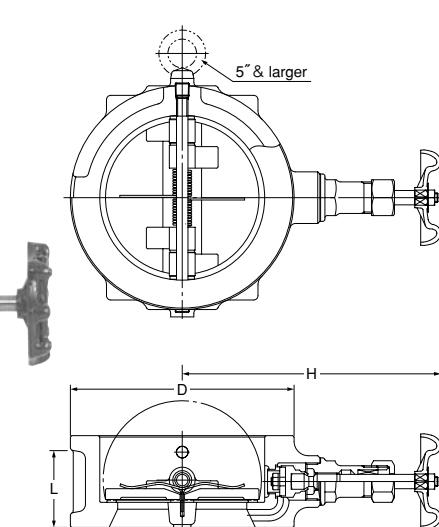
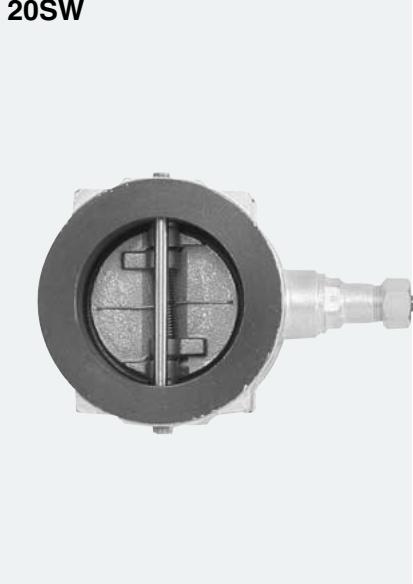
Parts	JIS material
Body	FCD-S+NBR
Bonnet	FCD-S
Stem	SUS 420J2
Disc	SCS 13A
Plug	SWCH 10R
Spring	SUS 304
Gland	SUS 403
Gland packing	Asbestos-free
Gasket	C1100P-0
Handwheel	FCD 450-10

Dimensions

Size	mm											
	50	65	80	100	125	150	200	250	300	350	400	450
inch	2	2 1/2	3	4	5	6	8	10	12	14	16	18
L	54	54	57	64	70	76	95	108	144	184	191	203
H	153	173	179	192	205	246	271	297	323	342	370	396
D	101	121	131	156	187	217	267	330	375	420	483	538

20K Wafer Check Valve

20SW



F-F dimension : KITZ Std.

80°C Static water 2.75MPa(28kgf/cm²)80°C W.O.G. 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	4.12MPa(42kgf/cm ²) [hydrostatic]
Seat	3.02~0.50MPa (30.8~0.5kgf/cm ²) [hydrostatic]
	0.59MPa(6kgf/cm ²) [air]

Materials

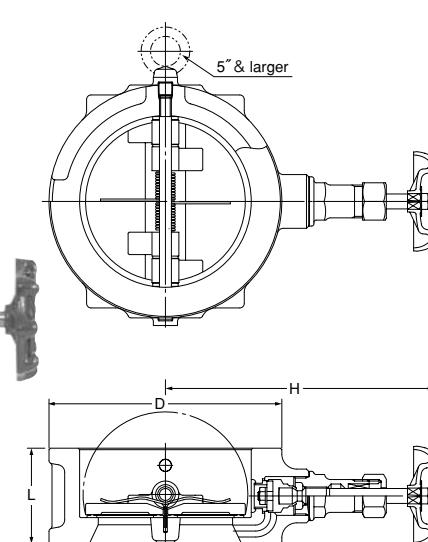
Parts	JIS material
Body	FCD-S+NBR
Bonnet	FCD-S
Stem	SUS 403
Disc	BC 6
Plug	SWCH 10R
Spring	SUS 304
Gland	SUS 403
Gland packing	Asbestos-free
Gasket	C1100P
Handwheel	FCD 450-10

Dimensions

Size	mm									
	50	65	80	100	120	150	200	250	300	
inch	2	2 1/2	3	4	5	6	8	10	12	
L	54	60	67	67	83	95	127	140	181	
H (open)	153	173	179	192	205	246	271	297	323	
D	101	121	137	162	200	235	280	353	403	

20K Wafer Check Valve

20SWU



F-F dimension : KITZ Std.

80°C Static water 2.75MPa(28kgf/cm²)

80°C W.O.G. 1.96MPa(20kgf/cm²)

● Use for lubricating or hydraulic oil is acceptable.

● Employment of copper gasket prohibits use of this valve for ammonia or amine chemicals.

Test Pressure

Body	4.12MPa(42kgf/cm ²) [hydrostatic]
Seat	3.02~0.05MPa (30.8~0.5kgf/cm ²) [hydrostatic]
	0.59MPa(6kgf/cm ²) [air]

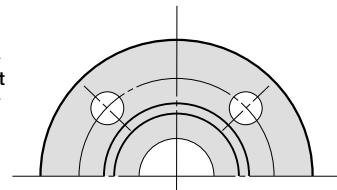
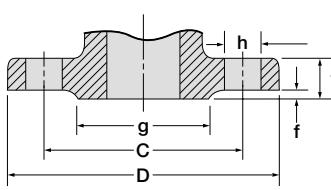
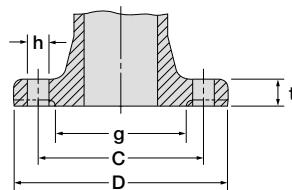
Materials

Parts	JIS material
Body	FCD-S+NBR
Bonnet	FCD-S
Stem	SUS 403
Disc	SCS 13A
Plug	SWCH 10R
Spring	SUS 304
Gland	SUS 403
Gland packing	Asbestos-free
Gasket	C1100P
Handwheel	FCD 450-10

Dimensions

Size	mm								
	50 inch	65	80	100	120	150	200	250	300
L	54	60	67	67	83	95	127	140	181
H (open)	153	173	179	192	205	246	271	297	323
D	101	121	137	162	200	235	280	353	403

Steel Pipe Flange Dimensions



f : Height of raised face

JIS 10K Steel Pipe Flange Dimensions

JIS B 2239-1996

Nominal Size		Flange Diam. (D)	Dimension of Flange Part			Bolt Holes			Bolt Size
mm	inch		Thickness (t)	Raised Height (f)	Face Diam. (g)	Circle Diam. (C)	Number	Hole Diam. (h)	
10	3/8	90	12	1	46	65	4	15	M12
15	1/2	95	12	1	51	70	4	15	M12
20	3/4	100	14	1	56	75	4	15	M12
25	1	125	14	1	67	90	4	19	M16
32	1 1/4	135	16	2	76	100	4	19	M16
40	1 1/2	140	16	2	81	105	4	19	M16
50	2	155	16	2	96	120	4	19	M16
65	2 1/2	175	18	2	116	140	4	19	M16
80	3	185	18	2	126	150	8	19	M16
100	4	210	18	2	151	175	8	19	M16
125	5	250	20	2	182	210	8	23	M20
150	6	280	22	2	212	240	8	23	M20
200	8	330	22	2	262	290	12	23	M20
250	10	400	24	2	324	355	12	25	M22
300	12	445	24	3	368	400	16	25	M22
350	14	490	26	3	413	445	16	25	M22
400	16	560	28	3	475	510	16	27	M24

JIS 16K Steel Pipe Flange Dimensions

JIS B 2239-1996

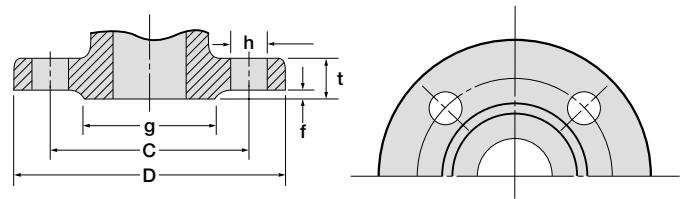
Nominal Size		Flange Diam. (D)	Dimension of Flange Part			Bolt Holes			Bolt Size
mm	inch		Thickness (t)	Raised Height (f)	Face Diam. (g)	Circle Diam. (C)	Number	Hole Diam. (h)	
10	3/8	90	12	1	46	65	4	15	M12
15	1/2	95	12	1	51	70	4	15	M12
20	3/4	100	14	1	56	75	4	15	M12
25	1	125	14	1	67	90	4	19	M16
32	1 1/4	135	16	2	76	100	4	19	M16
40	1 1/2	140	16	2	81	105	4	19	M16
50	2	155	16	2	96	120	8	19	M16
65	2 1/2	175	18	2	116	140	8	19	M16
80	3	200	20	2	132	160	8	23	M20
100	4	225	22	2	160	185	8	23	M20
125	5	270	22	2	195	225	8	25	M22
150	6	305	24	2	230	260	12	25	M22
200	8	350	26	2	275	305	12	25	M22
250	10	430	28	2	345	380	12	27	M24
300	12	480	30	3	395	430	16	27	M24
350	14	540	34	3	440	480	16	33	M30
400	16	605	38	3	495	540	16	33	M30

JIS 20K Steel Pipe Flange Dimensions

JIS B 2239-1996

Nominal Size		Flange Diam. (D)	Dimension of Flange Part			Bolt Holes			Bolt Size
mm	inch		Thickness (t)	Raised Height (f)	Face Diam. (g)	Circle Diam. (C)	Number	Hole Diam. (h)	
10	3/8	90	14	1	46	65	4	15	M12
15	1/2	95	14	1	51	70	4	15	M12
20	3/4	100	16	1	56	75	4	15	M12
25	1	125	16	1	67	90	4	19	M16
32	1 1/4	135	18	2	76	100	4	19	M16
40	1 1/2	140	18	2	81	105	4	19	M16
50	2	155	18	2	96	120	8	19	M16
65	2 1/2	175	20	2	116	140	8	19	M16
80	3	200	22	2	132	160	8	23	M20
100	4	225	24	2	160	185	8	23	M20
125	5	270	26	2	195	225	8	25	M22
150	6	305	28	2	230	260	12	25	M22
200	8	350	30	2	275	305	12	25	M22
250	10	430	34	2	345	380	12	27	M24
300	12	480	36	3	395	430	16	27	M24
350	14	540	40	3	440	480	16	33	M30
400	16	605	46	3	495	540	16	33	M30

Steel Pipe Flange Dimensions



f : Height of raised face

ASME B 16.5-1996

Class 150 Steel Pipe Flange Dimensions

Nominal Size		Flange Diam. (D)	Dimension of Flange Part			Bolt Holes			Bolt Size
mm	inch		Thickness (t)	Raised Height (f)	Face Diam. (g)	Circle Diam. (C)	Number	Hole Diam. (h)	
15	1/2	89	11	1.6	35	60.5	4	16	1/2
20	3/4	98	12.7 (11.1)	1.6	43	70.0	4	16	1/2
25	1	108	14.3 (11.1)	1.6	51	79.5	4	16	1/2
32	1 1/4	117	15.9 (12.7)	1.6	64	89.0	4	16	1/2
40	1 1/2	127	17.5 (14.3)	1.6	73	98.5	4	16	1/2
50	2	152	19.1 (15.9)	1.6	92	120.5	4	19	5/8
65	2 1/2	178	22.3 (17.5)	1.6	105	139.5	4	19	5/8
80	3	190	23.9 (19.1)	1.6	127	152.5	4	19	5/8
100	4	229	23.9	1.6	157	190.5	8	19	5/8
125	5	254	23.9	1.6	186	216.0	8	22	3/4
150	6	279	25.4	1.6	216	241.5	8	22	3/4
200	8	343	28.6	1.6	270	298.5	8	22	3/4
250	10	406	30.2	1.6	324	362.0	12	25	7/8
300	12	483	31.8	1.6	381	432.0	12	25	7/8
350	14	533	35.0	1.6	413	476.5	12	29	1
400	16	597	36.6	1.6	470	539.5	16	29	1

* Dimensions in () are for valve flanges.

Class 300 Steel Pipe Flange Dimensions

ASME B 16.5-1996

Nominal Size		Flange Diam. (D)	Dimension of Flange Part			Bolt Holes			Bolt Size
mm	inch		Thickness (t)	Raised Height (f)	Face Diam. (g)	Circle Diam. (C)	Number	Hole Diam. (h)	
15	1/2	95	14.3	1.6	35	66.5	4	16	1/2
20	3/4	117	15.9	1.6	43	82.5	4	19	5/8
25	1	124	17.5	1.6	51	89.0	4	19	5/8
32	1 1/4	133	19.1	1.6	64	98.5	4	19	5/8
40	1 1/2	156	20.7	1.6	73	114.5	4	22	3/4
50	2	165	22.3	1.6	92	127.0	8	19	5/8
65	2 1/2	190	25.4	1.6	105	149.0	8	22	3/4
80	3	210	28.6	1.6	127	168.0	8	22	3/4
100	4	254	31.8	1.6	157	200.0	8	22	3/4
125	5	279	35.0	1.6	186	235.0	8	22	3/4
150	6	318	36.6	1.6	216	270.0	12	22	3/4
200	8	381	41.3	1.6	270	330.0	12	25	7/8
250	10	444	47.7	1.6	324	387.5	16	29	1
300	12	521	50.8	1.6	381	451.0	16	32	1 1/8
350	14	584	54.0	1.6	413	514.5	20	32	1 1/8
400	16	648	57.2	1.6	470	571.5	20	35	1 1/4

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 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.

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