

Cast Iron Valves

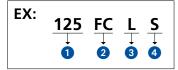
JIS 5K/10K, Class 125



STANDARD PRODUCTION RANGE

See	Valve Type	Nominal Pressure	Fig. No.	Construction (Note)	Page	
15 10K 10FCLS B.B./O.S.&Y. 4	Gate valves	JIS 5K	5FCM	B.B./O.S.&Y.	4	
JIS 10K		JIS 10K	10FCL	B.B./O.S.&Y.	4	
15 10K		JIS 10K	10FCLS	B.B./O.S.&Y.	4	
10K		JIS 10K	10FCLU	B.B./O.S.&Y.	4	
Class 125 125FCL B.B./O.S.&Y. 6		JIS 10K	10FCWI	B.B./I.S./N.R.S.	5	
Class 125 125FCLS B.B./O.S.&Y. 6		10K	10FCHI	B.B./I.S./N.R.S.	5	
Class 125 125FCWI B.B./I.S./N.R.S. 6		Class 125	125FCL	B.B./O.S.&Y.	6	
Class 125 125FCHI B.B./I.S./N.R.S. 7		Class 125	125FCLS	B.B./O.S.&Y.	6	
JIS 10K 10FCJ B.B./O.S.&Y. 8		Class 125	125FCWI	B.B./I.S./N.R.S.	6	
JIS 10K 10FCJS B.B./O.S.&Y. 8		Class 125	125FCHI	B.B./I.S./N.R.S.	7	
JIS 10K 10FCJS B.B./O.S.&Y. 8						
JIS 10K 10FCJU B.B./O.S.&Y. 8	Globe valves	JIS 10K	10FCJ	B.B./O.S.&Y.	8	
Class 125 125FCJ B.B./O.S.&Y. 8		JIS 10K	10FCJS	B.B./O.S.&Y.	8	
Class 125 125FCJS B.B./O.S.&Y. 8		JIS 10K	10FCJU	B.B./O.S.&Y.	8	
Check valves		Class 125	125FCJ	B.B./O.S.&Y.	8	
JIS 10K 10FCOS Bolted cover 9		Class 125	125FCJS	B.B./O.S.&Y.	8	
JIS 10K 10FCOS Bolted cover 9						
10K 10FCT Full bore 12	Check valves	JIS 10K	10FCO	Bolted cover	9	
Class 125 125FCO Bolted cover 9		JIS 10K	10FCOS	Bolted cover	9	
Class 125 125FCOS Bolted cover 9		JIS 10K	10FCOU	Bolted cover	9	
10K 10FWZ Wafer type 10		Class 125	125FCO	Bolted cover	9	
10K 10FCY Bolted cover 10		Class 125	125FCOS	Bolted cover	9	
Class 125 125FCY Bolted cover 11		10K	10FWZ	Wafer type	10	
Class 125 125FCY Bolted cover 11						
Tok 10FCT Full bore 12	Strainers	10K	10FCY	Bolted cover	10	
10K 10FCTB Full bore 12		Class 125	125FCY	Bolted cover	11	
10K 10FCTB Full bore 12						
10K 10FCTR Reduced bore 13 10K 10FCTB2L Full bore, 3-way 13 10K 10FCTR2L Reduced bore, 3-way 13 Class 125 125FCTB Full bore 14	Ball valves	10K	10FCT	Full bore	12	
10K 10FCTB2L Full bore, 3-way 13 10K 10FCTR2L Reduced bore, 3-way 13 Class 125 125FCTB Full bore 14		10K	10FCTB	Full bore	12	
10K 10FCTB2L Full bore, 3-way 13 10K 10FCTR2L Reduced bore, 3-way 13 Class 125 125FCTB Full bore 14		10K	10FCTR	Reduced bore	13	
10K10FCTR2LReduced bore, 3-way13Class 125125FCTBFull bore14			10FCTB2L	Full bore, 3-way	13	
Class 125 125FCTB Full bore 14			10FCTR2L		13	
			125FCTB		14	
		Class 125		Reduced bore	14	

Product Coding



- 1 Nominal pressure 125 Class 125 5 JIS 5K 10 JIS 10K
- 2 Symbol of shell material FC Cast iron
- 3 Type of valve
 L & M..... Gate valve
 WI & HI... Gate valve with indicator
 J......... Globe valve
 O...... Check valve
 Y...... Strainer
 TB Full port ball valve

2L 3-way ball valve

NOTE B.B Bolted bonnet O.S.&Y Outside screw & yoke N.R.S Non-rising stem

	c:- DN	10	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	Size DN NPS	3/8	1/2	3/4	1	11/4	1 1/2	2	21/2	3	4	5	6	8	10	12	14	16	18	20	24
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This catalog uses **MPa**, an SI unit, for indication of pressures. For readers' convenience, however, **psi** is also used for **ASME**-related products.

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.

Conditions of Fluids and Maximum Permissible Pressures

Conditio	Conditions of Fluids and Maximum Permissible Pressures Unit: MPa							
Standards	5	5K		10	К		10	OK
Nominal p	pressure	JIS B2031		JIS B2	2031		KITZ st	andard
Valve type	e	Outside screw gate valve	Outside screw gate valve	Glove valve, Sw	ing check valve	Inside screw gate valve	Valve 350 A or more	FC300 valve
Disc seat	structure	Press-fit seat	Screw seat	Screv	v seat	Press-fit seat	Screw seat	Press-fit seat
Main section		CAC406	CAC 406 13 chrome 18-8 stainless steel	CAC 406	13 chrome 18-8 stainless steel	CAC 406	CAC 406 13 chrome 18-8 stainless steel	CAC 406 13 chrome
Maximum permissible	Steady flow below 120 degrees in centigrade	0.7	1.4	1.4	-	1.4	1.0	1.0
working pressure	Oil, pulsating flow and water below 120 degrees in centigrade	0.5	1.0	1.0	-	1.0	0.9	0.9
Saturated steam*1		0.2	0.7	0.7	-	0.2	0.7	0.7
	Gas below 120 degrees in centigrade*2	0.2	0.2	0.2	-	0.2	0.2	0.2
	120 degrees in centigrade	-	-	-	1.4	-	-	-
	220 degrees in centigrade	-	-	-	1.0	-	-	-

^{*1} When the main section is made of 18-8 stainless steel and used for steam piping, it is necessary to weld hardened metal cladding on the seat surface. Please designate the same together with the steam specification.

When it is used for saturated steam at a pressure of 0.5 MPa or more, please designate accordingly.

*2 Such gases as set forth in the High Pressure Gas Safety Act shall be excluded.

0.12in

Basic Design Specifications

Nominal Pressure	JIS5K/10K	Class 125	10K
Face-to-face dimension	JIS B 2031	ASME B 16.10	KITZ Std.
End flange dimension	JIS B 2239	ASME B 16.1	JIS B 2239
Wall thickness	JIS B 2031	KITZ	Std.

Material Specifications for Grev Iron Casting

	JIS materials			
Mechanical Properties		FC200	FC250	FC300
Tensile strength (N/mm²)	min.	200	250	300
Brinell hardness (HB) max.		235	248	269
ASTM A126 Class B	Tensile stren	gth (min)	31ksi
Transverse test requirement	Face at center, min. 3,300 lk			

Deflection at center, min.

Class 125 Valves Pressure-Temperature Ratings

Maximum Allowable Non-Shock Pressure

Tamanavatuva	Class 125				
Temperature	Size 1 – 12	Size 14 – 24			
°C	b	ar			
-29 to 65	13.8	10.3			
80	13.3	9.8			
100	12.7	9.2			
120	12.1	8.6			
140	11.5	8.0			
160	10.8	7.4			
178*	_	6.9			

^{¾178°C to reflect the temperature of saturated steam at 8.6 bar.}

Simplified Material Indication (as referred to on each page)

Bronze trim : Iron body with bronze trim : Iron body with 13 Cr. trim 13 Cr. trim 18-8 trim : Iron body with 18 Cr.-8 Ni trim

Certification by JIS Mark

Industrial Standardization Law of Japan provides an effective measure to promote the introduction of high-level quality assurance system of manufacture and processing. Wherever KITZ valves are identified with JIS Mark, it is officially certified that such valves are produced under strict quality assurance procedures and practices to satisfy the designated quality level stably and constantly.

Valve Position Indicators



A valve position indicator is provided on gate valves with inside screw design as illustrated here. Opening or closing a valve does not move the vertical position of the stem. Instead, the position indicator visually indicates three valve operating positions-fully opened, fully closed, or half opened.

Trim Materials

KITZ cast iron valves are provided with one of the three trim materials given in the table below for versatility of service applications.

Color codes are given on a name plate of gate or globe valves and on the cover of swing check valves.

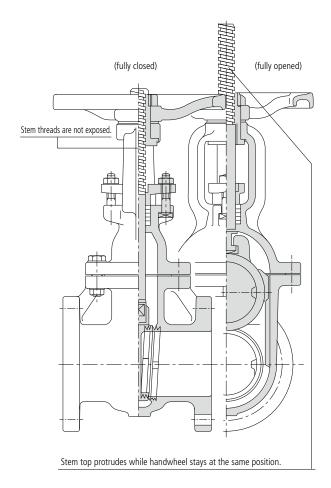
Trim Material	Color Coding	Suffix of Fig.
■ Bronze seats / Brass stem	None	_
■ 13 Cr. seats / stem	Orange	S
■ 18-8 seats / stem	Green	U

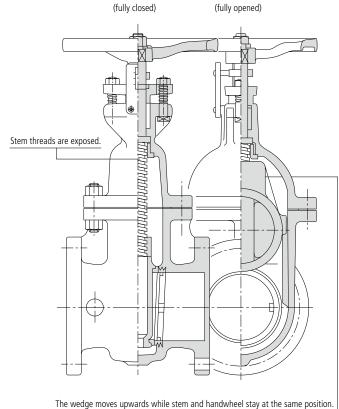
Gases-Gases other than flammable and toxic gases

Outside Screw (O.S.) Valves and Inside Screw (I.S.) Valves

Outside Screw Gate Valve

Inside Screw Gate Valve





Outside Screw Gate Valves

Stem threads are not exposed to the fluid, and valve opening operation moves the stem upwards while the handwheel stays at the same position. The Valve operating position can be visually determined by observing the stem travel KITZ Fig. FCM, FCL, FCLS, and FCLU are designed this way.

Outside Screw Globe Valves

The stem and handwheel move upwards or downwards at the same time, following valve opening or closing operation. All KITZ globe valves are provided with this design.

Inside Screw Gate Valves

Stem threads are exposed to the fluid. Opening the valve does not make the stem or handwheel move. Thus, the valve operating position is not visible. A position indicator is provided for this reason.

Inside screw gate valves are generally designed shorter than outside screw gate valves and the stem and handwheel always at the same position. For this feature, inside screw gate valves are widely employed for underground installation or service in narrow areas with limited room. KITZ Fig. FCWI and FCHI are designed this way.

Asbestos-free Packings and Gaskets

KITZ has led the industry in employing asbestos-free sealers for all cast iron valves, meeting the requirement of pollution-free valve materials. PTFE-impregnated glass fiber gland packings and compressed glass and aramid fiber gaskets are the standard sealers for KITZ cast iron valves.

JIS 5K

GATE VALVE

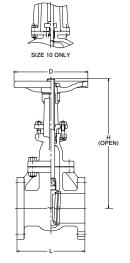
Bolted bonnet, outside screw & yoke, rising stem.

Designed to JIS B2031

Fig. 5FCM

Bronze trim





Materials

Parts	Material	JIS Spec.			
Body	Cast Iron	FC200			
Bonnet	Cast Iron	FC200			
Stem	Forged Brass	C3771			
Disc	Cast Iron	FC200			
Disc seat ring	Cast Bronze	CAC406			
Body seat ring	Cast Bronze	CAC406			
Gland	Ductile Iron	FCD-S			
Gland packing	Non-Asbestos	Packing			
Gasket	Non-Asbestos Sh	neet Gasket			
Gland bolt/nut	Carbon Steel				
Bonnet bolt/nut	Carbon Steel				
Yoke sleeve	Cast Bronze				
Handwheel	Cast Iro	on			

For JIS Valves Pressure-Temperature Ratings MPa, refer to page 2.

Dimensions

Dillicitatoria									mm
Valve Size	В	2	21/2	3	4	5	6	8	10
valve Size		50	65	80	100	125	150	200	250
L Face-to-face		160	170	180	200	220	240	260	300
H Height (OPEN)		328	382	436	532	627	726	919	1134
D Diameter		160	170	170	225	225	250	280	350

Materials

JIS 10K

GATE VALVE

Bolted bonnet, outside screw & yoke, rising stem.

Designed to JIS B2031

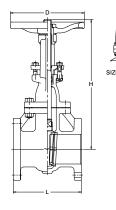
Fig. 10FCL • Bronze trim

Fig. 10FCLS

 Stainless steel trim (13 Cr.)

• Stainless steel trim (18-8)





Parts		Material	JIS Spec.				
Parts		Material	10FCL	10FCLS	10FCLU		
Body		Cast Iron		FC200			
Bonnet		Cast Iron		FC200			
Stem		Forged Brass/Stainless Steel	C3771	403SS	304SS		
Disc		Cast Iron		FC200			
Disc seat ring	9	Cast Bronze/Stainless Steel	CAC406	40355	30455		
Body seat rir	ıg	Cast Bronze/Stainless Steel	CAC406	403SS	304SS		
Gland	11/2 to 14	Ductile Iron	FCD-S				
Giariu	16 to 24	Stainless Steel	SUS403				
Gland packir	ıg	Non-Asbestos Packing					
Gasket		Non-Asbestos Sheet Gasket					
Gland bolt/n	ut	Carbon Steel					
Bonnet bolt/	nut	Carbon Steel					
Yoke sleeve		Cast Bronze					
Handwheel	11/2 to 8	Cast Iron	FC250				
Halluwileel	10 to 24	Ductile Iron	FCD400-15				

For JIS Valves Pressure-Temperature Ratings MPa, refer to page 2.

Dimensions

mm

Valu	/e Size B	1 ¹ /2*	2	21/2	3	4	5	6	8	10	12	14*	16*	18*	20*	24*
Valv	A A	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L Face	e-to-face	165	180	190	200	230	250	270	290	330	350	381	406	432	457	508
H Heig	ght (OPEN)	306	343	389	462	547	648	759	956	1168	1363	1560	1795	1995	2230	2640
D Diam	neter	160	170	170	200	250	280	300	350	400	450	500	600	600	680	760

*JIS Mark is not applicable

JIS 10K

GATE VALVE

Bolted bonnet, inside screw with indicator, non-rising stem.

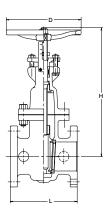
Designed to JIS B2031

Fig. 10FCWI

Bronze trim







Materials

Parts	5	Material	JIS Spec.		
Body		Cast Iron	FC200		
Bonnet		Cast Iron	FC200		
Stem		Forged Brass	C3771BD		
Disc		Cast Iron	FC200		
Disc seat rin	g	Cast Bronze	CAC406		
Body seat rir	ng	Cast Bronze	CAC406		
Gland		Ductile Iron	FCD-S		
Gland packir	ng	Non-Asbestos Packing			
Gasket		Non-Asbestos Sh	Asbestos Sheet Gasket		
Gland bolt/n	ut	Carbon Steel			
Bonnet bolt/	nut	Carbon S	iteel		
Bonnet bush	ing	Cast Bronze	CAC406		
Handwheel	11/2 to 8	Cast Iron	FC250		
nandwheel	10 to 12	Ductile Iron	FCD400-15		

For JIS Valves Pressure-Temperature Ratings MPa, refer to page 2.

Dimensions

Dimensions											mm
Valve Size	В	11/2	2	21/2	3	4	5	6	8	10	12
valve Size		40*	50	65	80	100	125	150	200	250	300
L Face-to-face		165	180	190	200	230	250	270	290	330	350
H Height		285	313	344	401	444	517	577	693	814	925
D Diameter		160	180	180	200	250	280	300	350	400	450

*No JIS Mark

10K

GATE VALVE

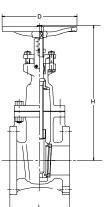
Bolted bonnet, inside screw with indicator, non-rising stem.

Fig. 10FCHI

• Bronze trim







Materials

Part	S	Material	JIS Spec.		
Body		Cast Iron	FC300		
Bonnet		Cast Iron	FC300		
Stem		Forged Brass	C3771		
Disc	11/2	Cast Bronze	CAC406		
DISC	2 to 12	Cast Iron	FC300		
Disc seat ring		Cast Bronze	CAC406		
Body seat ri	ng	Cast Bronze	CAC406		
Gland		Ductile Iron	FCD400		
Gland packi	ng	Non-Asbestos Packing			
Gasket		Non-Asbestos S	heet Gasket		
Gland bolt/r	nut	Carbon	Steel		
Bonnet bolt	/nut	Carbon Steel			
Bonnet bushing		Cast Bronze	CAC406		
Handwheel		Cast Iron			

Pressure-Temperature Ratings MPa, refer to page2.

Dimensions											mm
Valve Size		11/2	2	21/2		4			8	10	12
valve Size	Α	40	50	65	80	100	125	150	200	250	300
L Face-to-face		140	146	159	165	171	190	210	241	273	305
H Height		210	250	285	350	400	460	515	635	760	870
D Diameter		140	140	160	160	180	225	225	300	350	350

Class 125

GATE VALVE

Bolted bonnet, outside screw & yoke, rising stem.

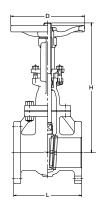
Fig. 125FCL

Fig. 125FCLS

Bronze trim

• Stainless steel trim (13 Cr.)







Materials

Parts	Material	ASTIV	l Spec.			
raits	Iviaterial	125FCL	125FCLS			
Body	Cast Iron	FC200				
Bonnet	Cast Iron	FC	FC200			
Stem	Forged Brass/Stainless Steel	C3771	A276 Type403			
Disc	Cast Iron	FC	200			
Disc seat ring	Cast Bronze/Stainless Steel	CAC406	A182 Gr.F6a			
Body seat ring	Cast Bronze/Stainless Steel	CAC406	A182 Gr.F6a			
Gland	Ductile Iron	FCD-S				
Gland packing	Non-A	sbestos Packin	g			
Gasket	Non-Asb	estos Sheet Ga	sket			
Gland bolt/nut	Ca	arbon Steel				
Bonnet bolt/nut	Ca	arbon Steel				
Yoke sleeve	C	Cast Bronze				
Handwheel 2 to 1		Cast Iron				
12 & 1	4 D	uctile Iron				

For Class 125 Valves Pressure-Temperature Ratings, refer to page 2.

Dimensions

Difficusions											mm
Valve Size	NPS	2	21/2	3	4	5	6	8	10	12	14
valve Size	DN	50	65	80	100	125	150	200	250	300	350
L Face-to-face		178	190	203	229	254	267	292	330	356	381
H Height (OPEN)		328	382	436	532	627	726	919	1134	1363	1560
D Diameter		160	170	170	225	225	250	280	350	450	500

Class 125

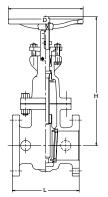
GATE VALVE

Bolted bonnet, inside screw with indicator, non-rising stem.

Fig. 125FCWI

Bronze trim







Materials

Parts	Material	ASTM Spec.
Body	Cast Iron	FC200
Bonnet	Cast Iron	FC300
Stem	Forged Brass	C3771
Disc	Cast Iron	FC300
Disc seat ring	Cast Bronze	CAC
Gland	Ductile Iron	FCD-S
Gland packing	Non-Asbesto	s Packing
Gasket	Non-Asbestos S	heet Gasket
Gland bolt/nut	Carbon	Steel
Bonnet bolt/nut	Carbon	Steel
Body seat ring	Cast Bronze	CAC406
Bonnet bushing	Cast Bronze	CAC406
Handwheel	Cast Ir	ron

For Class 125 Valves Pressure-Temperature Ratings, refer to page 2.

n	nı	m	

Valve Size	NPS	2	21/2	3	4	5	6	8	10	12
valve Size	DN	50	65	80	100	125	150	200	250	300
L Face-to-face		178	190	203	229	254	267	292	330	356
H Height		250	285	350	400	465	515	630	760	870
D Diameter		140	160	160	180	225	225	300	350	350

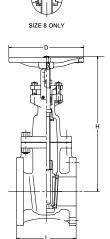
Class 125

GATE VALVE

Bolted bonnet, inside screw & yoke, non-rising stem.







Materials

Part	s	Material	ASTM Spec.		
Body		Cast Iron	FC300		
Bonnet		Cast Iron	FC300		
Stem		Forged Brass	C3771		
Disc	11/2	Bronze	CAC		
	2 & larger	Cast Iron	FC300		
Disc seat rin	Disc seat ring		CAC		
Body seat ri	ng	Cast Bronze	CAC		
Gland		Ductile Iron	FCD-S		
Gland packi	ng	Non-Asbestos Packing			
Gasket		Non-Asbestos Sheet Gasket			
Gland bolt/r	nut	Carbon Steel			
Bonnet bolt	/nut	Carbon	Steel		
Bonnet bushing		Cast Bronze CAC			
Handwheel		Cast I	ron		

Design Specifications

	Items
l valve design KI	Shell wall thickness and general valve design
end dimensions KI	Face-to-face dimensions, end-to-end dimension
contact facing AS	End flange dimensions, gasket contact facing
end dimensions KI	Face-to-face dimensions, end-to-end dimension

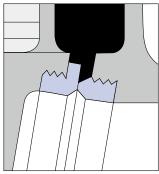
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For Class 125 Valves Pressure-Temperature Ratings, refer to page 2.

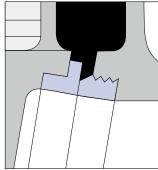
ווט	HEHSIOHS									mm
	Valve Size	NPS	11/2	2	21/2	3	4	5	6	8
	valve size	DN	40	50	65	80	100	125	150	200
	Face-to-face		140	146	159	165	171	190	210	241
ŀ	l Height		210	250	285	350	400	465	515	630
Ī	Diameter		140	140	160	160	180	225	225	300

Mounting of Seat Rings

In case of KITZ cast iron gate valves, seat rings are mounted on the valve disc by means of either threading or press-fitting. For example,10K outside screw gate valves are provided with threaded seat rings that are ideal for saturated steam service. Or, 10K inside screw gate valves are provided with mechanically press-fit seat rings by means of a patented special process to suit them also for saturated steam service. All KITZ cast iron globe and check valves are provided with threaded seat rings.







Press-fit seat ring

JIS 10K

GLOBE VALVE

Bolted bonnet, outside screw & yoke, rising stem.

Designed to JIS B2031

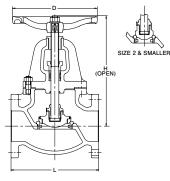
Fig. 10FCJ • Bronze trim

Fig. 10FCJS • Stainless steel trim (13 Cr.)

Fig. 10FCJU

• Stainless steel trim (18-8)





10FCJ 10FCJS 10FCJU FC200 Body Cast Iron Bonnet Cast Iron FC200 30455 Stem C3771 403SS Forged Brass/Stainless Steel Disc Cast Bronze/Stainless Steel CAC406 403SS 304SS 21/2 & lage Cast Iron FC200 Disc seat ring CAC406 30455 Cast Bronze/Stainless Steel 403SS **Body seat ring** Cast Bronze/Stainless Steel CAC406 403SS 30455 Gland Ductile Iron FCD-S Gland packing Non-Asbestos Packing Flexible Graphite Gland bolt/nut Carbon Steel Bonnet bolt/nut Carbon Steel Yoke bushing Cast Bronze Handwheel 11/2 to 6 Cast Iron

For JIS Valves Pressure-Temperature Ratings MPa, refer to page 2.

Ductile Iron

8 to 10

12 only

Dimensions

Difficusions											mm
Valve Size	В	1 ¹ / ₂	2	21/2	3	4	5	6	8	10	12
valve Size		40	50	65	80	100	125	150	200	250	300
L Face-to-face		190	200	220	240	290	360	410	500	620	700
H Height (OPEN)		260	277	307	353	404	467	533	620	665	883
D Diameter		160	180	180	225	280	300	350	450	450	500

CLASS 125

GLOBE VALVE

Bolted bonnet, outside screw & yoke, rising stem.

Ductile Iron

FC200

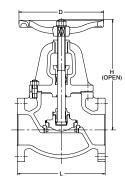
Fig. 125FCJ

• Bronze trim

Fig. 125FCJS

 Stainless steel trim (13 Cr.)





Materials

Materials

Parts		Material	AST	M Spec.			
Faits	`	iviateriai	125FCJ	125FCJS			
Body		Cast Iron	FC200				
Bonnet		Cast Iron	FC	200			
Stem		Forged Brass/Stainless Steel	C3771	403SS			
Disc	2 only	Cast Bronze/Stainless Steel	CAC406	403SS			
	21/2 & lager	Cast Iron	FC	200			
Disc seat ring	g	Cast Bronze/Stainless Steel	CAC406	403SS			
Body seat rir	ng	Cast Bronze/Stainless Steel	CAC406	403SS			
Gland		Ductile Iron	FCD-S				
Gland packir	ıg	Non-Asbestos Packing					
Gasket		Non-Asb	estos Sheet G	asket			
Gland bolt/n	ut	C	arbon Steel				
Bonnet bolt/	nut	C	arbon Steel				
Yoke bushin	g	(Cast Bronze				
Handwheel	2 to 6		Cast Iron				
	8 only	[Ductile Iron				

For Class 125 Valves Pressure-Temperature Ratings, refer to page 2.

r	r	1	r	۲	1	

Valve Size	NPS	2	21/2	3	4	5	6	8
valve Size	DN	50	65	80	100	125	150	200
L Face-to-face		203	216	241	292	330	356	495
H Height (OPEN)		277	307	353	404	467	533	620
D Diameter		180	180	225	280	300	350	450

JIS 10K

SWING CHECK VALVE

Bolted cover, disc.

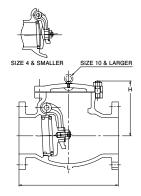


Fig. 10FCO Bronze trim

Fig. 10FCOS • Stainless steel trim (13 Cr.)

Fig. 10FCOU • Stainless steel trim (18-8)





Materials

Part		Material		JIS Spec.					
raii	.5	iviateriai	10FCO	10FCOS	10FCOU				
Body		Cast Iron	FC200						
Cover		Cast Iron	FC200						
Disc	11/2 to 4	Cast Bronze/Stainless Steel	CAC406	40355	304SS				
	5 & lager	Cast Iron	FC200						
Hinge pin		Forged Brass/Stainless Steel	C3771	304SS					
Disc seat rin	ıg	Cast Bronze/Stainless Steel	CAC406	304SS					
Body seat ri	ing	Cast Bronze	CAC406	CAC406 403SS 30					
Arm		Stainless Steel	A351 Gr.CF8/SCS13A						
Gasket		Soft Steel							
Cover bolt/	nut	Ca	rbon Steel						

For JIS Valves Pressure-Temperature Ratings MPa, refer to page 2.

Dimensions

Dimensio	ns												mm
Valve Size	Ci-o		1 ¹ /2*	2	21/2		4			8	10*	12*	14*
	Size -	Α	40	50	65	80	100	125	150	200	250	300	350
L Face-t	o-face		190	200	220	240	290	360	410	500	620	700	787
H Heigh	t		106	111	121	145	165	207	225	268	315	356	381

Only 12" & 14" for 10FCOS & 10FCOU. *No JIS Mark

CLASS 125

SWING CHECK VALVE

Bolted cover, disc.

Fig. 125FCO

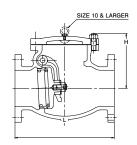
• Bronze trim

Fig. 125FCOS

• Stainless steel trim (13 Cr.)







Materials

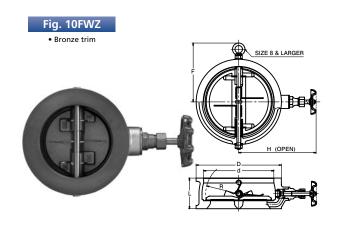
Part	_	Material	ASTM	Spec.			
rait	3	iviateriai	125FCO	125FCOS			
Body		Cast Iron	FC	200			
Cover		Cast Iron	FC200				
Disc	2 to 4	Cast Bronze/Stainless Steel	CAC406	40355			
	5 & lager	Cast Iron	FC200				
Hinge pin		Forged Brass/Stainless Steel	C3771	403SS			
Disc seat rin	g	Cast Bronze/Stainless Steel	CAC406	403SS			
Body seat ri	ng	Cast Bronze/Stainless Steel	CAC406	403SS			
Arm		Stainless Steel	A351 Gr.C	F8/SCS13A			
Gasket		So	ft Steel				
Cover bolt/r	nut	Ca	rbon Steel				

For Class 125 Valves Pressure-Temperature Ratings, refer to page 2.

Dimensions													
Valve Size	NPS	2	21/2		4			8	10	12	14		
valve size	DN	50	65	80	100	125	150	200	250	300	350		
L Face-to-face		203	216	241	292	330	356	495	622	698	787		
H Height (OPEN)		111	121	145	165	207	225	268	315	356	381		
·													

10K

WAFER TYPE CHECK VALVE



Materials

Parts	Material	JIS Spec.
Body	Cast Iron	FC250+NBR
Pin	Stainless Steel	304SS
Disc	Bronze	CAC406
Nut 6 to 18	Stainless Steel	30455
Plug 11/2 to 5	Carbon Steel	S45CH

Bypass Valve

	Parts	Material	JIS Spec.
Bonnet	11/2 to 5	Brass	C3771
bonnet	6 to 18	Bronze	CAC406
Stem		Brass	C3531
Disc		Brass	C3531
Body se	at ring	Brass	C3531
Grand p	acking	Asbesto	os-free

Design Specifications

Shell wall thickness and general valve design
Face-to-face dimensions, end-to-end dimensions
End flange dimensions, gasket contact facing
Wafer Type (JIS 10K)

80°C Non-shock water: 1.4 MPa 80°C Water, oil, air: 1.0 MPa

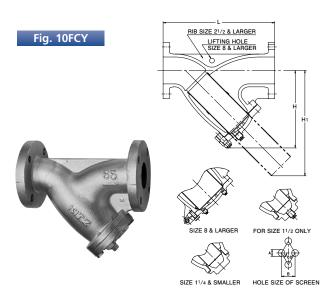
Dimensions

													111111
В	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18
	40	50	65	80	100	125	150	200	250	300	350	400	450
	54	56	56	59	66	72	78	96	109	145	184	191	204
	128	143	150	156	169	183	216	243	290	315	330	355	388
	_	_	_	_	_	_	_	187	229	254	272	301	338
	86	101	121	131	156	187	217	267	330	375	420	483	538
	54	63	77	90	116	143	169	220	273	324	356	406	457
	26	33	37	44	55	67	78	105	129	155	170	195	220
	A	A 40 54 128 — 86 54	A 40 50 54 56 128 143 86 101 54 63	A 40 50 65 54 56 56 128 143 150 86 101 121 54 63 77	A 40 50 65 80 54 56 56 59 128 143 150 156 86 101 121 131 54 63 77 90	A 40 50 65 80 100 54 56 56 59 66 128 143 150 156 169 - - - - - 86 101 121 131 156 54 63 77 90 116	A 40 50 65 80 100 125 54 56 56 59 66 72 128 143 150 156 169 183 - - - - - - 86 101 121 131 156 187 54 63 77 90 116 143	A 40 50 65 80 100 125 150 54 56 56 59 66 72 78 128 143 150 156 169 183 216 — — — — — — 86 101 121 131 156 187 217 54 63 77 90 116 143 169	A 40 50 65 80 100 125 150 200 54 56 56 59 66 72 78 96 128 143 150 156 169 183 216 243 — — — — — — 187 86 101 121 131 156 187 217 267 54 63 77 90 116 143 169 220	A 40 50 65 80 100 125 150 200 250 54 56 56 59 66 72 78 96 109 128 143 150 156 169 183 216 243 290 — — — — — — 187 229 86 101 121 131 156 187 217 267 330 54 63 77 90 116 143 169 220 273	A 40 50 65 80 100 125 150 200 250 300 54 56 56 59 66 72 78 96 109 145 128 143 150 156 169 183 216 243 290 315 - - - - - - - 187 229 254 86 101 121 131 156 187 217 267 330 375 54 63 77 90 116 143 169 220 273 324	A 40 50 65 80 100 125 150 200 250 300 350 54 56 56 59 66 72 78 96 109 145 184 128 143 150 156 169 183 216 243 290 315 330 187 229 254 272 86 101 121 131 156 187 217 267 330 375 420 54 63 77 90 116 143 169 220 273 324 356	A 40 50 65 80 100 125 150 200 250 300 350 400 54 56 56 59 66 72 78 96 109 145 184 191 128 143 150 156 169 183 216 243 290 315 330 355 187 229 254 272 301 86 101 121 131 156 187 217 267 330 375 420 483 54 63 77 90 116 143 169 220 273 324 356 406

10K

Y-PATTERN STRAINER

Bolted cover, Y-pattern body, Punched stainless steel plate screen.



Materials

Par	ts	Material	JIS Spec.				
Body		Cast Iron	FC200				
Сар	3/8 to 11/2	Forged Brass	C3771				
Cover	2 & lager	Cast Iron	FC200				
Screen		Stainless Steel 304SS					
Gasket		Non-Asbestos Sheet Gaske					
Cover bolt/	nut	Carbon Steel					
Plug		Stainless Steel 304SS					

Screen dimensions

Valve Size	А	В
3/8 to 2	1.4ø	2.4mm
2 1/2 to 5	1.5ø	2.5mm
6 & 8	3.0ø	5.0mm
10 to 14	5.0ø	7.0mm

120°C Non-shock water: 1.4 MPa 120℃ Water, oil, air: 1.4 MPa

120°C Gas: 0.2 MPa, Saturated steam: 0.7 MPa

9	Strainer dimensi	ons																mm
1	Valve Size	В	3/8	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	8	10	12	14
1	valve Size	Α	10	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	L Face-to-face		115	125	140	150	170	190	230	305	360	415	465	515	580	680	800	950
	H Height		46	57	63	77	90	100	138	208	237	280	325	370	457	536	625	741
	H1		64	82	91	114	134	146	173	289	335	388	446	497	643	768	893	1047

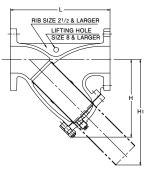
CLASS 125

Y-PATTERN STRAINER

Bolted cover, Y-pattern body, Punched stainless steel plate screen.

Fig. 125FCY









HOLE SIZE OF SCREEN

Materials

Parts	Material	ASTM Spec.			
Body	Cast Iron	FC200			
Cover	Cast Iron	FC200			
Screen	Stainless Steel	304SS			
Gasket	Non-Asbestos	Sheet Gasket			
Cover bolt/nut	Carbon Steel				
Plug	Stainless Steel	30455			

Screen dimensions

Valve Size	A	В
2 only	1.4ø	2.4mm
2 ¹ / ₂ to 5	1.5ø	2.5mm
6 & 8	3.0ø	5.0mm
10 to 14	5.0ø	7.0mm

Design Specifications

Shell wall thickness and general valve design KITZ Standard Face-to-face dimensions, end-to-end dimensions KITZ Standard End flange dimensions, gasket contact facing

ASME B16.1 Class125

For Class 125 Valves Pressure-Temperature Ratings, refer to page 2.

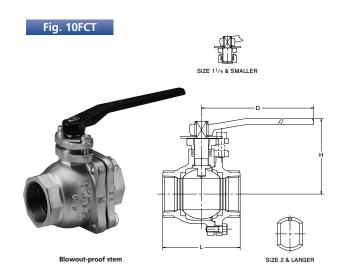
Dimensions

mm L Face-to-face H Height



10K

THREADED BALL VALVE (Full Bore)



Materials

Parts	Material	JIS Spec.				
Body	Cast Iron	FC200				
Body cap	Cast Iron	FC200				
Stem	Stainless Steel	403SS				
Ball	Stainless Steel	304SS				
Grand packing	PTFE					
Gasket	PTFE					
Ball seat	PT	FE				
Cap bolt/nut	Carbo	n Steel				
Handle	Ductile Iron	FCD400-15				

Design Specifications

Itoms

1101113	
Shell wall thickness and general valve design	KITZ Standard
Face-to-face dimensions, end-to-end dimensions	KITZ Standard
Threaded ends	JIS B0203

For Pressure-Temperature Ratings, refer to individual catalog(No.E-201).

Dimensions

Difficultions										IIIIII
Valve Size	В	3/8	1/2	3/4		11/4	11/2	2	21/2	3
valve Size		10	15	20	25	32	40	50	65	80
L Face-to-face		72	80	85	95	120	120	140	160	182
H Height		71	102	105	125	130	115	120	155	165
D Handle		130	130	130	160	160	230	230	400	400

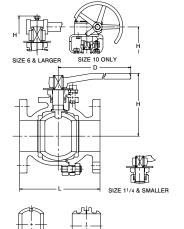
10K

BALL VALVE (Full Bore)

Fig. 10FCTB



Blowout-proof stem



SIZE 2 TO 6 SIZE 2 10 ON

Materials

Parts	Material	JIS Spec.				
Body	Cast Iron	FC200				
Body cap	Cast Iron	FC200				
Stem	Stainless Steel	403SS				
Ball	Stainless Steel	304SS				
Grand packing	PTFE					
Gasket	PTFE					
Ball seat	PTFE					
Cap bolt/nut	Carbon Steel					
Handle	Ductile Iron	FCD400-15				

Design Specifications

Items

items	
Shell wall thickness and general valve design	KITZ Standard
Face-to-face dimensions, end-to-end dimensions	KITZ Standard
End flange dimensions, gasket contact facing	JIS B2239 10K

For Pressure-Temperature Ratings, refer to individual catalog(No.E-201).

Dimensions

mm

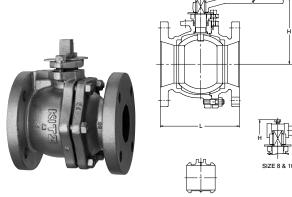
Valve Size	В	1/2	3/4	1	11/4	1 ¹ / ₂	2	21/2	3	4	5	6	8	10
valve Size	Α	15	20	25	32	40	50	65	80	100	125	150	200	250*
L Face-to-face		110	120	130	140	165	180	190	200	230	300	340	450	533
H Height		102	105	124	128	114	121	154	163	199	219	292	352	477
D Handle		130	130	160	160	230	230	400	400	460	460	1000	1500	

*Note: Gear Operated. Contact KITZ or KITZ distributors for details.

10K

BALL VALVE (Reduced Bore)

Fig. 10FCTR



Blowout-proof stem

Materials

Parts	Material	JIS Spec.		
Body	Cast Iron	FC200		
Body cap	Cast Iron	FC200		
Stem	Stainless Steel	40355		
Ball	Stainless Steel	304SS		
Grand packing	PTFE			
Gasket	PTFE			
Ball seat	PTFE			
Cap bolt/nut	Carbon Steel			
Handle	Ductile Iron FCD400-15			

Design Specifications

Design specifications					
Items					
Shell wall thickness and general valve design	KITZ Standard				
Face-to-face dimensions, end-to-end dimensions*	JIS B2002				
End flange dimensions, gasket contact facing	JIS B2239 10K				

*Nominal size 5, shall not be in accordance with JIS B2002

For Pressure-Temperature Ratings, refer to individual catalog(No.E-201).

Dimensions

Dilliciisions					mm
Valve Size	В	5	6	8	10
valve size	A	125	150	200	250
L Face-to-face		250	270	290	330
H Height		200	220	295	355
D Handle		460	460	1000	1500
*No JIS Mark					

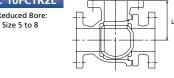
10K

3-WAY BALL VALVE (Full or Reduced Bore)

Fig. 10FCTB2L

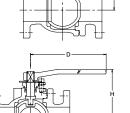
• Full Bore: Size 1 1/2 to 4







Blowout-proof stem



Materials

Parts	Material	JIS Spec.		
Body	Cast Iron	FC200		
Body cap	Cast Iron	FC200		
Stem	Stainless Steel	403SS		
Ball	Stainless Steel	30455		
Grand packing	PTFE			
Gasket	PTFE			
Ball seat	PTFE			
Cap bolt/nut	Carbon Steel			
Handle	Ductile Iron	FCD400-15		



Note:

"Flow is between Ports "A" and "C" in Form 1. Flow is between Ports "B" and "C" in Form 2. Flow paths in Form 1 and Form 2 can be exchanged with each other.

When the fluid pressure P2 in the closed path is higher than P1 in the open path, a little fluid leakage may occur in P1 through the ball seat of the closed path.

Design Specifications

Items	
Shell wall thickness	JIS B2031
Face-to-face dimensions, end-to-end dimensions	KITZ Standard
End flange dimensions, gasket contact facing	JIS B2239 10K

For Pressure-Temperature Ratings, refer to individual catalog(No.E-201).

mm	

Difficusions										mm
Valve Size	В	11/2	2	21/2	3	4	5	6	8	
valve size		40	50	65	80	100	125	150	200	
L Face-to-face		210	220	250	260	330	370	430	540	
L1		105	110	125	130	165	185	215	270	
H Height		115	120	155	165	200	205	225	295	
D Handle		230	230	400	400	460	460	460	1000	

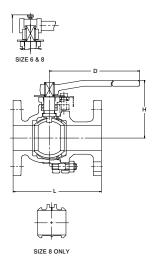
CLASS 125

BALL VALVE (Full Bore)

Fig. 125FCTB







Materials

Parts	Material	ASTM Spec.			
Body	Cast Iron	A126 CL. B			
Body cap	Cast Iron	A126 CL. B			
Stem	Stainless Steel	403SS			
Ball	Stainless Steel 304SS				
Grand packing	PTFE				
Gasket	PTFE				
Ball seat	PTFE				
Cap bolt/nut	Carbon Steel				
Handle	Ductile Iron				

Design Specifications

• .	
Items	
Shell wall thickness and general valve design	KITZ Standard
Face-to-face dimensions, end-to-end dimensions	ASME B16.10 Class150
End flange dimensions, gasket contact facing	ASME B16.1 Class125

For Pressure-Temperature Ratings, refer to individual catalog(No.E-201).

Dimensions

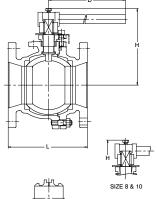
Dimensions							
Valve Size	NPS	2	21/2	3	4	6	8
valve Size	DN	50	65	80	100	150	200
L Face-to-face		178	190	203	229	394	457
H Height		120	155	165	200	295	355
D Handle		230	400	400	460	1000	1500

CLASS 125 BALL VALVE (Reduced Bore)

Fig. 125FCTR



Blowout-proof stem



SIZE 10 ONLY

Materials

Parts	Material	ASTM Spec.			
Body	Cast Iron	A126 CL. B			
Body cap	Cast Iron	A126 CL. B			
Stem	Stainless Steel	403SS			
Ball	Stainless Steel	304SS			
Grand packing	PTFE				
Gasket	PT	FE			
Ball seat	PTFE				
Cap bolt/nut	Carbon Steel				
Handle	Ductile Iron				

Design Specifications

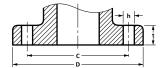
Items	
Shell wall thickness and general valve design	KITZ Standard
Face-to-face dimensions, end-to-end dimensions	ASME B16.10 Class150
End flange dimensions, gasket contact facing	ASME B16.1 Class125

For Pressure-Temperature Ratings, refer to individual catalog(No.E-201).

r	1	1	1	Υ	1

				111111
Valve Size	NPS	6	8	10
valve size	DN	150	200	250
L Face-to-face		267	292	330
H Height		220	295	355
D Handle		460	1000	1500

PIPE FLANGE DIMENSIONS

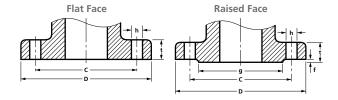


Class 125 ASME B16.1 - 2010

Nomin	al Size)		ς	1	t	h (Bolt Holes)		Bolting	
NPS	DN	in.	mm.	in.	mm.	in.	mm.	in.	mm.	Number	Diam. of Bolt
1	25	4.25	108	3.12	79.5	0.44	11.2	5/8	16	4	1/2
1 1/4	32	4.62	117	3.50	89.0	0.50	12.7	5/8	16	4	1/2
1 1/2	40	5.00	127	3.88	98.5	0.56	14.3	5/8	16	4	1/2
2	50	6.00	152	4.75	120.5	0.62	15.9	3/4	19	4	5/8
2 1/2	65	7.00	178	5.50	139.5	0.69	17.5	3/4	19	4	5/8
3	80	7.50	190	6.00	152.5	0.75	19.1	3/4	19	4	5/8
4	100	9.00	229	7.50	190.5	0.94	23.9	3/4	19	8	5/8
5	125	10.00	254	8.50	216.0	0.94	23.9	7/8	22	8	3/4
6	150	11.00	279	9.50	241.5	1.00	25.4	7/8	22	8	3/4
8	200	13.50	343	11.75	298.5	1.12	28.6	7/8	22	8	3/4
10	250	16.00	406	14.25	362.0	1.19	30.2	1	25	12	7/8
12	300	19.00	483	17.00	432.0	1.25	31.8	1	25	12	7/8
14	350	21.00	533	18.75	476.5	1.38	35.0	1 1/8	29	12	1
16	400	23.50	597	21.25	539.5	1.44	36.6	1 1/8	29	16	1
18	450	25.00	635	22.75	578.0	1.56	39.7	1 1/4	32	18	1 1/8
20	500	27.50	699	25.00	635.0	1.69	42.9	1 1/4	32	20	1 1/8
24	600	32.00	813	29.50	749.5	1.88	47.8	1 3/8	35	20	1 1/4

Remarks: Dimensions of mm in the above table are converted from inch dimension for your convenience.

PIPE FLANGE DIMENSIONS



JIS 5K Cast iron pipe flange dimensions JIS B2239 - 2013

Unit: mm

Valve	Size	_					f	Bolt	
В	Α	D	С	g	t	h	т	Number	Diam.
1 1/2	40	120	95	75	16	15	2	4	M12
2	50	130	105	85	16	15	2	4	M12
2 1/2	65	155	130	110	18	15	2	4	M12
3	80	180	145	121	18	19	2	4	M16
4	100	200	165	141	20	19	2	8	M16
5	125	235	200	176	20	19	2	8	M16
6	150	265	230	206	22	19	2	8	M16
8	200	320	280	252	24	23	2	8	M20
10	250	385	345	317	26	23	2	12	M20
12	300	430	390	360	28	23	3	12	M20
14	350	480	435	403	30	25	3	12	M22

JIS 10K Cast iron pipe flange dimensions JIS B2239 - 2013

Unit: mm

Valv	e Size							В	olt
В	А	D	С	g	t	h	f	Number	Diam.
3/8	10	90	65	46	14	15	1	4	M12
1/2	15	95	70	51	16	15	1	4	M12
3/4	20	100	75	56	18	15	1	4	M12
1	25	125	90	67	18	19	1	4	M16
1 1/4	32	135	100	76	20	19	2	4	M16
1 1/2	40	140	105	81	20	19	2	4	M16
2	50	155	120	96	20	19	2	4	M16
2 1/2	65	175	140	116	22	19	2	4	M16
3	80	185	150	126	22	19	2	8	M16
4	100	210	175	151	24	19	2	8	M16
5	125	250	210	182	24	23	2	8	M20
6	150	280	240	212	26	23	2	8	M20
8	200	330	290	262	26	23	2	12	M20
10	250	400	355	324	30	25	2	12	M22
12	300	445	400	368	32	25	3	16	M22
14	350	490	445	413	34	25	3	16	M22
16	400	560	510	475	36	27	3	16	M24
18	450	620	565	530	38	27	3	20	M24
20	500	675	620	585	40	27	3	20	M24
24	600	795	730	690	44	33	3	24	M30

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TEMPERATURE-PRESSURE TABLE FOR SATURATED-VAPOR

	Temperature			Pressure (abs.)		Pressure (G)			
Temperature °C	Pressure (abs.) MPa	Pressure (G) MPa	Pressure (abs.) MPa	Pressure (G) MPa	Saturation Temperature °C	Pressure (G) MPa	Pressure (abs.) MPa	Saturation Temperature °C	
70	0.03	-0.07	0.09	-0.01	99.1	0	0.10	100.0	
80	0.05	-0.05	0.19	0.09	119.6	0.09	0.19	120.1	
90	0.07	-0.03	0.29	0.19	132.9	0.19	0.29	133.2	
100	0.10	0	0.39	0.29	142.9	0.29	0.39	143.2	
110	0.14	0.04	0.49	0.39	151.1	0.39	0.49	151.3	
120	0.19	0.09	0.58	0.48	158.1	0.49	0.59	158.3	
130	0.26	0.16	0.68	0.58	164.2	0.58	0.68	164.3	
140	0.36	0.26	0.78	0.68	169.6	0.68	0.78	169.8	
150	0.47	0.37	0.88	0.78	174.5	0.78	0.88	174.7	
160	0.61	0.51	0.98	0.88	179.0	0.88	0.98	179.3	
170	0.79	0.69	1.17	1.07	187.1	0.98	1.08	183.2	
180	1.00	0.90	1.37	1.27	194.1	1.17	1.27	190.0	
190	1.25	1.15	1.56	1.46	200.4	1.37	1.47	197.4	
200	1.55	1.45	1.76	1.66	206.2	1.56	1.66	203.4	
210	1.90	1.80	1.96	1.86	211.4	1.78	1.88	208.9	
220	2.32	2.21	2.45	2.35	222.9	1.96	2.06	213.8	
230	2.79	2.69	2.94	2.84	232.8	2.45	2.55	223.8	
240	3.34	3.24	3.43	3.33	241.4	2.94	3.04	234.5	
250	3.97	3.87	3.92	3.82	249.2	3.92	4.02	250.6	
260	4.66	4.56	4.90	4.80	262.7	4.90	5.00	263.9	
270	5.50	5.40	5.88	5.78	274.3	5.88	5.98	275.3	
280	6.41	6.31	6.86	6.76	284.5	6.86	6.96	285.4	
290	7.44	7.34	7.84	7.74	293.6	7.84	7.94	294.5	
300	8.59	8.49	8.82	8.72	301.9	8.82	8.92	302.7	
310	9.87	9.77	9.80	9.70	309.5	9.80	9.90	310.9	
320	11.28	11.18	11.76	11.66	323.1	11.76	11.86	323.8	
330	12.86	12.76	13.72	13.62	335.1	13.72	13.82	335.6	
340	14.61	14.51	15.69	15.59	345.7	15.69	15.79	346.2	
350	16.47	16.37	17.65	17.55	355.4	17.65	17.75	355.8	
360	18.77	18.67	19.61	19.51	364.1	19.61	19.71	364.5	
370	21.15	21.05	21.57	21.47	372.0	21.57	21.67	372.5	



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Read the instruction manual carefully before use.



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