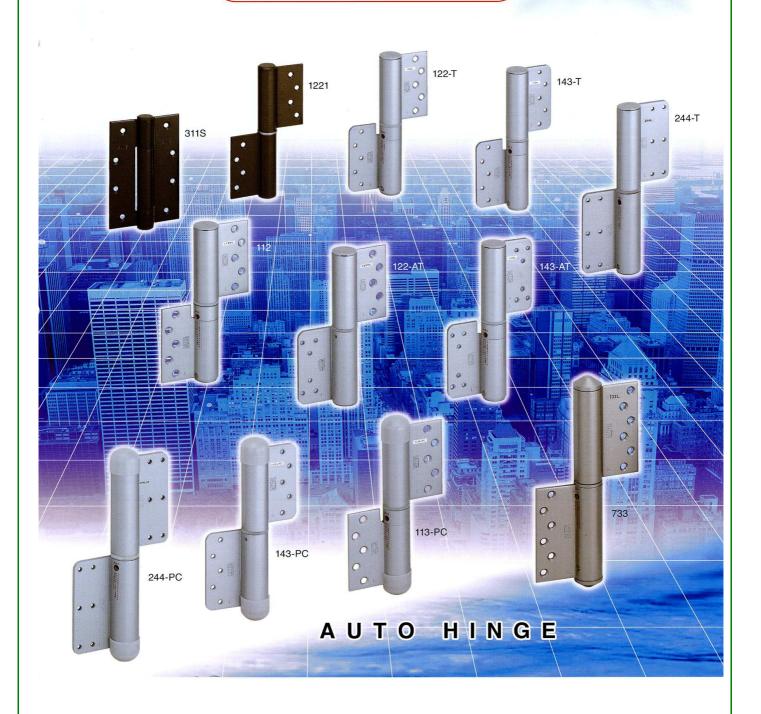
NIPAUTO HINGES

FLAG TYPE

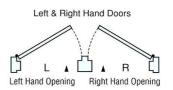


Flag type series (Table of models with specifications)

		Model nu	mber		Door	size applicabl	e (mm)	Door weight	Closing force			Max.	
	Right	hand opening	Left hand opening	Type of door	W (Max)	H (Max)	D (Min)	(kg) (Max)	(N•m)	Stop mechanics	Stop angle	Opening angle	Color
eries	(Ava	31 ailable for bo	1S th right and left)	Wood, aluminum					5.0	0	85°~180°	180°	Silver Bronze
300 Series	Empty	(Available for	310 both right and left)	(Indoor use)	800	2000	30	30	_	_	_	Left or right one side opening	lvory Gold
	1111		1111L							-	-		
	1111	SR	1111SL	1						0	85°		Silver
	1121	R	1121L							_			
	1121	SR	1121SL							0	85°		Bronze
	1211	R	1211L						7.9	_	_	1	
eries	1211	SR	1211SL	Wooden door	850	2000	30	35		0	85°	180°	Silver
1000 Series	1221	R	1221L	Aluminum door Light steel door	030	2000	30	00		_		Left or right one side opening	
-	1221	SR	1221SL							0	85°		Bronze
		1110R	1110L										Silver
	ninge	1120R	1120L										Bronze
	Empty hinge	1210R	1210L						_	_	_		Silver
	Ъ	1220R	1220L										Bronze
	112F	?	112L							_			
	1128	SR	112SL	Wooden door						0	85° and 150°		Silver or Bronze
	122F		122L-T	Light steel door (122T for steel frame)				40	10.0	_	_		
	1228		122SL-T		900	2100				0	85° and 150°		
	113F		113L							_	_		
	1138		113SL					60	15.0	0	85° and 150°	1	
	10.10-000	RTRISET	113L TRISET	Wooden door Aluminum door						_		-	
		R TRISET	113SL TRISET		1000	2200		80	20.0	0	85° and 150°	-	
	122F	1501 1003000000	122L-AT	Wooden door						_			Silver
		SR-AT	122SL-AT	Light steel door (122T for steel frame)						0	85° and 150°		
Sel	132F		132L	Aluminum door				40	10.0	_		180°	
100 Series	1328		132SL	Light steel door Partition door			30			0	85° and 150°	Left or right one side opening	
무	143R		143L-T	T di titori doci							— — —	- olde opening	
	1438		143SL-T							0	85° and 150°		
	143B		143L-AT	Steel door				60	15.0	_	- 05 and 150		
		SR-AT	143SL-AT		900	2100				0	85° and 150°		
	1-100	110R	110L								00 and 100		Silver or Bronze
		120R-T	120L-T	Wooden door Light steel door									Silver of broffze
	agu	120R-AT	120L-1	(120T for steel frame)				40					
	Empty hinge	130R	130L	Aluminum door Light steel door Partition door					-	-	_		Silver
	Em		140L-T	Partition door					-				
		140R-T	140L-1	Steel door				60					
	2440	I wasses	2017/2017/2017/							_			
eries	244R		244L-T	Stool deer	1000	0400	40	100	22.6		OE° and 450°	180° Left or right one	Silver
0	244S		244SL-T	Steel door	1200	2100	40	120		0	85° and 150°	side opening	Sliver
	Empty hinge	240R-T	240L-T							_	_		

	Model nu	mber		Door s	ize applicab	le (mm)	Door weight	Closing force			Max.	
	Right hand opening	Left hand opening	Type of door	W (Max)	H (Max)	D (Min)	(kg) (Max)	(N•m)	Stop mechanics	Stop angle	Opening angle	Color
es	733R	733L							-	_	100%	
700 Series	733SR	733SL	Aluminum door Stainless door	900	2100	40	120	15.0	0	85° and 150°	180° Left or right one	Silver
2	130R	730L	Steel door						_		side opening	
1000	113R-PC	113L-PC	Wooden door						-	-		
	113SR-PC	113SL-PC	Aluminum door Light steel door				40		0	85° and 150°		
	133R-PC	133L-PC	Aluminum door				40		_	_		
	133SR-PC	133SL-PC	Light steel door	900	2100	30		15.0	0	85° and 150°		
ries	143R-T-PC	143L-T-PC								-	190°	
PC Series	143SR-T-PC	143SL-T-PC					60		0	85° and 150°	180° Left or right one side opening	Silver
	244R-T-PC	244L-T-PC	Steel door						_	_		
	244SR-T-PC	244SL-T-PC		1200	2100	40	120	22.6	0	85° and 150°	7 m et 1	
	110R-PC	110L-PC	Wooden door Light steel door								himlan	
	130R-PC	130L-PC	Aluminum door Light steel door	900	2100	30	40	100			Internal	
	130R-PC 140R-T-PC	140L-T-PC					60					
		240L-T-PC	Steel door	900	.2100	40	120					
	NK153R	NK153L		200	0.105	8		15.0		711 -7		
BS	NK153SR	NK153SL		900	2100	10 12	60	15.0	0	85° and 150°	1000	
153 Series	NK153R TRISET	NK153L TRISET	Glass door			8				1978 - 178 I	Left or right one	Silver
É	NK153SR TRISET	NK153SL TRISET		1000	2200	10 12	80		0	85° and 150°	side opening	
	NK150R	NK150L		1000	2200	8/10/12	80			_	man de la Part	

- Each article is a combination of a spring hinge and a damper hinge (except for empty hinges).
- For opening orientation, each article designation gives an R to represent right-handed opening, and an L to represent left-handed opening. The opening orientation of the 300 series is for both right- and left-handed opening.
- The "S" in an article designation means that the product has a stop (with an internal stop mechanism).
- Every model with a -T or an -AT at the end of its article designation has a tap hole (M6) for installing it on a hinge flap. Nitto Kohki is ready to produce products of the same model but without such tap holes. (Examples: with tap hole, 143R-T; without tap hole, 143-R)
- The 300 and 1000 series with empty hinges are in packages of two pairs each, and the 100, 200, 700 and PC series come in packages of one pair each.



Comfort in a widening range of applications Nitto Kohki's Auto Hinges of the flag type

They match all kinds of doors and make their images stand out beautifully.

Flag type

300, 1000, 100, and 200 series

Simple design

The hinges double as door closers, thus giving the doors a neat-looking finish. Their simple and beautiful designs match all kinds of doors.

A wide range of uses

They can also be used on arch doors that are not readily compatible with other door closers and doors with no head rails.

■Sufficient door-closing power

The 100 and 200 series incorporate two springs (weak and strong) and a switching mechanism (clutch) for them, thus giving a small but sufficient door-closing power.

An internal stop mechanism

The 300 series comes with an automatic mechanism for stopping closings at 85° to 180° (free stops), the 1000 series at 85°, and the 100 and 200 series at 85° and 150°.

■Simple adjustment of closing speed

The speed can easily be adjusted with the mere use of a screwdriver.

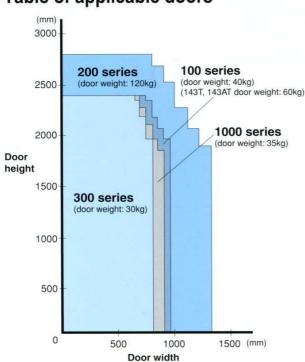
Easy to install

These hinges are installed in exactly the same manner as conventional flag-type hinges. They do not require much labor. They are easy to handle.

Outstanding durability

They are so structured as to undergo little friction, thus achieving outstanding durability.

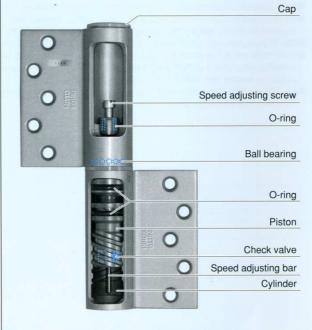
Table of applicable doors





Damper hinge

(with an internal control mechanism for closing speed)



- Each model consists of a spring hinge and a damper hinge.
- This diagram represents the structure of the 100 series.

WOODEN DOORS-ALUMINIUM DOORS-STEEL DOORS

300 series

Model 311S

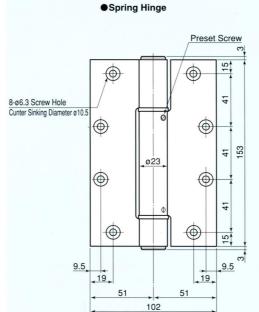
In House Use

	lodel Number	Door S	ize Applicab	le (mm)	Door Weight	Closeing Force	Stop	Location of	Max.	Surface
IV	Model Number		н	D	(kg)	(N·m)	Mechanism	Stop	Opening Angle	Color
	311S	800(Max)	2000(Max)	30(Min)	30(Max)	5.0	0	85°~180°	180° Left or Right	Silver Bronze
Empty Hinge	Empty Hinge 310		2000(Wax)	OO(WIIII)	OO(Wax)	_	_	_	One-side Opening	ivory gold

Available for both righe-opening and left-opening doors.



■EXTERNAL DIMENSIONS



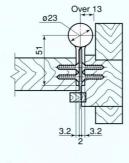
● Damper Hinge 8-ø6.3 Screw Hole Cunter Sinking Diameter ø10.5 \odot 4 igotimes \bigcirc 41 ø23 \bigcirc \bigcirc 4 \bigcirc \bigcirc 5 9.5 9.5 19 19 51

102

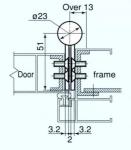
Remarks

- 1. Surface treatment is by a baked coating of melamine resin.
- When using them on wooden doors, use lauan or harder wood.
- The tapping screws furnished with the products and designed specifically for installation are 25mm long. If the frame is wooden, use a frame at leas 25mm thick. If an aluminum, lightweight steel door is involved, use steel screws (flat screws M5).
- Allow at least 3mm of space between outer edge of door and frame.

■ FITTING DIAGRAMS



Wooden Doors



Aluminium Doors

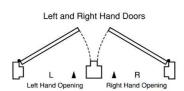
WOODEN DOORS-ALUMINIUM DOORS-STEEL DOORS

1000series

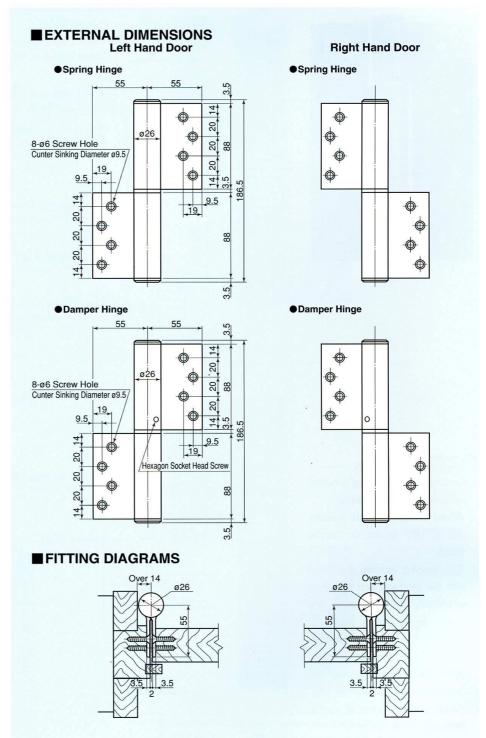
Model 1100

	Model Nu	ımber	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location	Max. Opening	Surface
Right	t hand door	Left hand door	W	н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
1	111R	1111L						-	-		011
1	111SR	1111SL					7.0	0	85°	180°	Silver
1	121R	1121L	850(Max)	2000(Max)	30(Min)	35(Max)	7.9	_	_	Left or Right	Bronze
1	1121R 1121SR	1121SL	- 650(IVIAX)	2000(Max)	30((((((()	SS(Max)	-	0	85°	One-side Opening	Dionze
Empty	1110R	1110L						-			Silver
Hinge	1120R	1120L							_		Bronze





- The door and frame materials to which the hinge is to be fitted should be of hard wood such as lauan or harder.
- Because the attached screws for fitting are 25mm long, the thickness of the frame should be over 25mm.
- Allow at least 5mm of space between outer edge of door and frame.
- Body material : Aluminum
 Surface treatment :
 Silver(anodic oxide coating)
 Bronze(baked epoxy resin coating)



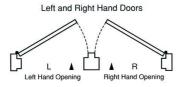
100series

Model 113

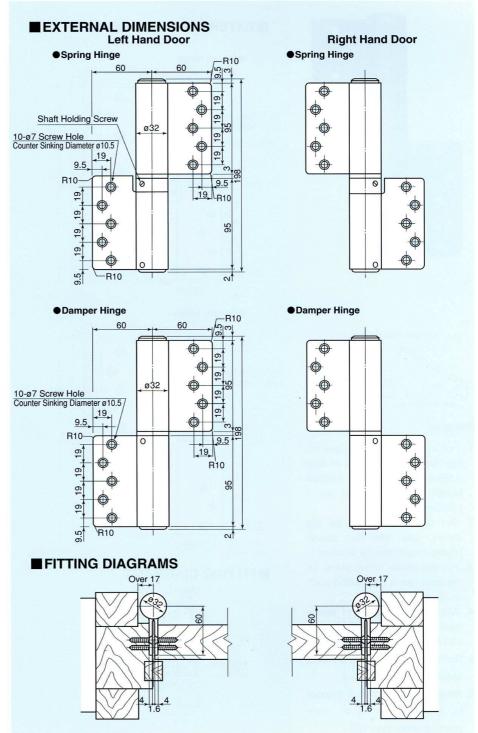
WOODEN DOORS

	Model N	lumber	Door Size Applicable(mm)			Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Right ha	and door	Left hand door	W	н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
113	BR	113L					45.0	_	05° 0 450°	190°	
113	BSR	113SL	900(Max)	2100(Max)	30(Min)	60(Max)	15.0	0	85° & 150°	180° Left or Right One-side Opening	Silver
Empty Hinge	110R	110L					-	_	-		





- The door and frame materials to which the hinge is to be fitted should be of hard wood such as lauan or harder.
- Because the attached screws for fitting are 25mm long, the thickness of the frame should be over 25mm.
- Allow at least 5mm of space between outer edge of door and frame.
- 4. The edge type is also available for the corner of leaves.
- 5. Surface treatment is by a baked coating of melamine resin.
- Always allow for a door stopper to prevent the door from opening wider than 180°.



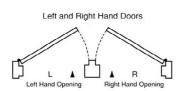
100_{series}

Model 113 (TRI-SET)

WOODEN DOORS

Model	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Right hand door	Left hand door	W	Н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
113R (TRI-SET)	113L (TRI-SET)				140	00.0	_	_	180°	
113SR (TRI-SET)	113SL (TRI-SET)	1000(Max)	2200(Max)	30(Min)	80(Max)	20.0	0	85° & 150°	Left or Right One-side Opening	Silver
_						-	-	-		

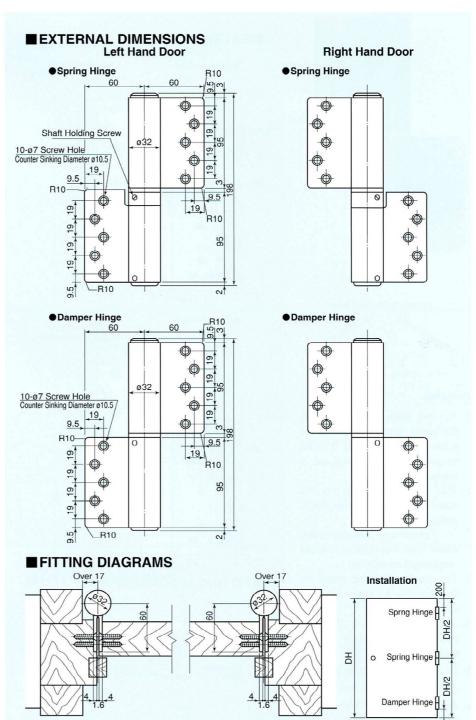




Remarks

- The door and frame materials to which the hinge is to be fitted should be of hard wood such as lauan or harder.
- Because the attached screws for fitting are 30mm long, the thickness of the frame should be over 30mm.
- Allow at least 5mm of space between outer edge of door and frame.
- 4. The edge type is also available for the corner of leaves.
- 5. Surface treatment is by a baked coating of melamine resin.
- Always allow for a door stopper to prevent the door from opening wider than 180°.

Left Hand Door



Right Hand Door

100 series

Model 132

ALUMINIUM DOORS-STEEL DOORS

Right Hand Door

0

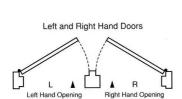
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Spring Hinge

For Surface Mounted

	Model I	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location	Max. Opening	Surface
Righ	t hand door	Left hand door	W	н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
	132R	132L					40.0	_	-	180°	
	132SR	132SL	900(Max)	2100(Max)	30(Min)	40(Max)	10.0	0	85° & 150°	Left or Right One-side Opening	Silver
Empty Hinge	130R	130L					-	-	-		

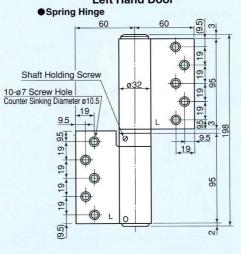


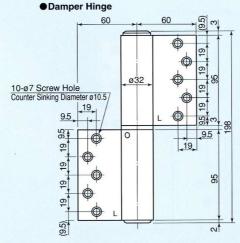


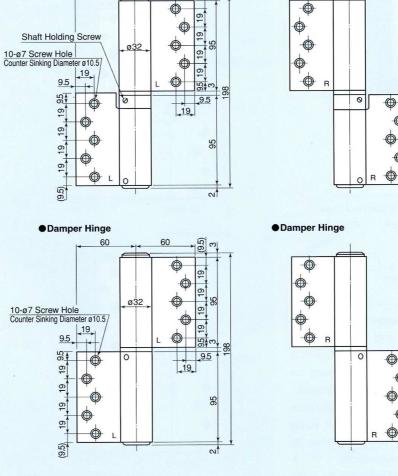
Remarks

- 1. For the wing fitting place on the door and frame, a steel plate of over 2.3mm thickness and 300mm length must be used as a reinforcing material.
- 2. Use the screws included in package for installation.
- 3. Allow at least 5mm of space between outer edge of door and frame.
- 4. Surface treatment is by a baked coating of melamine resin.
- 5. Always allow for a door stopper to prevent the door from opening wider than 180°.

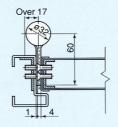
■EXTERNAL DIMENSIONS Left Hand Door Spring Hinge 60 Shaft Holding Screw 10-ø7 Screw Hole Counter Sinking Diameter ø10.5 19 ● Damper Hinge

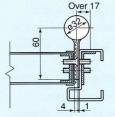






FITTING DIAGRAMS





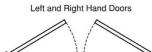
100_{series}

Model 143AT

STEEL DOORS

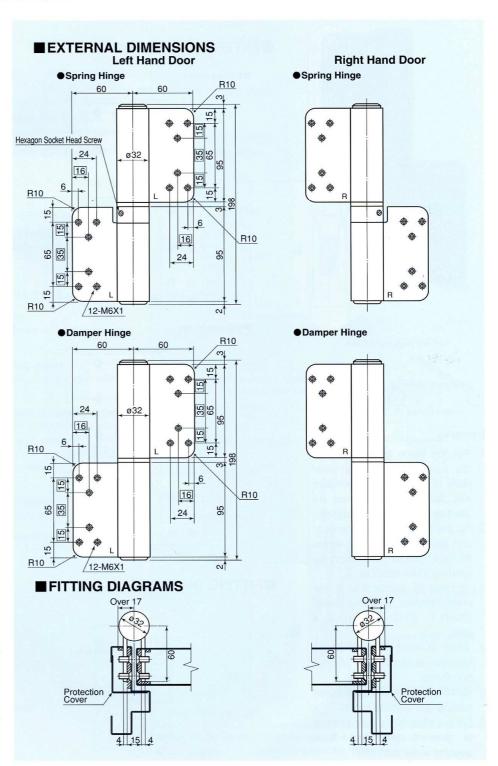
Model	Number	Door Size Applicable(mm)			Door Weight	Closeing Force	Stop	Location	Max. Opening	Surface
Right hand door	Left hand door	W	Н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
143R-AT	143L-AT	1			-	45.0	_	-	180°	
143SR-AT	143SL-AT	900(Max)	2100(Max)	30(Min)	60(Max)	15.0	0	85° & 150°	Left or Right One-side Opening	Silver
Empty Hinge 140R-AT	140L-AT					_	_	-		





Left Hand Opening Right Hand Opening

- For the blade fitting place on the frame, a steel plate of over 2.3mm thickness and 300mm length must be used as a reinforcing material.
- For the blade fitting on the frame, use M6 flat screwX5 pcs. (NOT include)
 - dimension can be used. when cut the blade. (Avoid installation by welding.)
- 3. For the blade fitting place on the door use a hard wood such as lauan or harder.
- 4. Allow at least 5mm of space between at outer edge of door and frame.
- Surface treatment is by a baked coating of melamine resin.
- Always allow for a door stopper to prevent the door from opening wider than 180°.



100PCseries

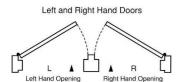
Model 133-PC

ALUMINIUM DOORS-STEEL DOORS

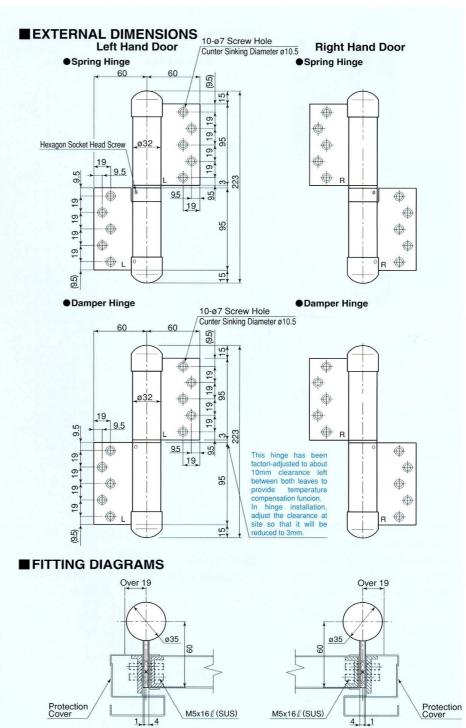
Mode	Number	Door Size Applicable(mm)			Door Weight	Closeing	Stop	Location	Max.	Surface
Right hand door	Left hand door	w	Н	D	(kg)	Force (N·m)	Mechanism	of Stop	Opening Angle	Color
133R-PC	133L-PC				.*	45.0		-	100°	
133SR-PC	133SL-PC	900(Max)	2100(Max)	30(Min)	40(Max)	15.0	0	85° & 150°	Left or Right One-side Opening	Silver *Black *Bronze
Empty Hinge	130L-PC					_	_	11_		

※ Optional Color





- 1. Surface treatment is by a baked coating of acrylic resin.
- 2. On the mounts of the flaps for both the door and frame, always use a reinforcing steel plate at least 3.2mm and 300mm long. Fix the reinforcement directly on the framework
- 3. They come with flat head screws M5 \times 16L (P = 0.8) as mounting screws.
- 4. Always allow for a clearance of at least 5mm for the door.
- 5. Always allow for a door stopper to prevent the door from opening wider than 180°.
- 6. Avoid using them in sauna rooms.



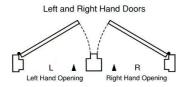
200_{series}

Model 244T

STEEL DOORS

	Model	Number	Door Size Applicable(mm)			Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Righ	t hand door	Left hand door	W	н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
2	44R-T	244L-T					00.0	-	-	100°	
2	44SR-T	244SL-T	1200(Max)	2100(Max)	40(Min)	120(Max)	22.6	0	85° & 150°	180° Left or Right One-side Opening	Silver
Empty Hinge	240R-T	240L-T					_	_	-		





- For the blade fitting place on the door and frame, a steel plate of over 3.2mm thickness and 300mm length must be used as a reinforcing material.
- For the blade fitting on the door and frame, use M6 flat screw X6 pcs. (Avoid installation by welding.)(Not include)
- In case of applying to a fire protectiondoor, use the model (244R-T, 244L-T) without a stop.
- Allow at least 5mm of space between at outer edge of door and frame.
- 5. Surface treatment is by a baked coating of melamine resin.
- Always allow for a door stopper to prevent the door from opening wider than 180°.

