



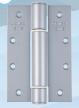


AUTO-HINGE Flag Type

Door closer + hinge, All-In-One. Quiet and smooth operation is achieved by the hydraulic pressure mechanism and advanced spring technology. Simple design with fully adjustable self-closing feature offers aesthetic appearance and refined functionality to the door.

Butterfly Type (300 Series) P3

- Small and slim, ideal for lightweight doors (indoor use).
- The butterfly design makes installation highly efficient.
- Non handed Can be used for both right and left hand opening doors.



Flag Type (100 / 1000 / 2000 Series) P3

- Designed with cutting edge technology from Nitto Kohki.

 Easy to install on all kinds of swing doors (regular rectangle doors, arch doors, etc).
- Variety of models available for different size and type of doors (wooden, aluminum, lightweight steel, steel and glass doors).

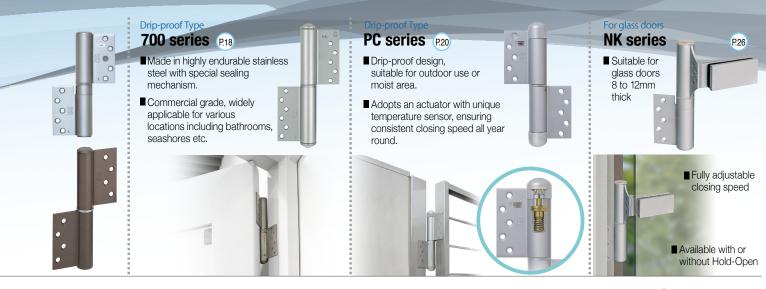


INDEX

Flag type series (Table of models with specifications)



		Model n	umber		D appli	oor siz icable (e mm)	Door weight	Closing force	Stop	Stop	Max.	0.1	
		ight hand opening	Left hand opening	Type of door	W (Max)	H (Max)	D (Min)	(kg) (Max)	(N·m)	mechanics	angle	Opening angle	Color	Pag
300 Series	<u> </u>	vailable for bo	11S oth right and left)	Wooden door Aluminum door	800	2000	30	30	5.0	0	85°~180° (Free stop)	180° Left or right one	Silver Bronze Ivory	4
8	Empty hinge	(Available fo	310 or both right and left)	Aluminum door					_	_	-	side opening	Gold	
		1111R	1111L							_	_			
		1111SR	1111SL	-							85°		Silver	
		1121R	1121L								_		_	1 _
		1121SR	1121SL	-							85°		Bronze	5
	_	1111FR	1111FL	-						<u> </u>	85°~180°		Silver	1
		1121FR	1121FL	-						Ŏ	(Free stop)		Bronze	1
es		1211R	1211L	-					7.9	_	_			
ě		1211SR	1211SL	Wooden door				0.5		0	85°	180°	Silver	
1000 Series		1221R	1221L	Aluminum door Light steel door	850	2000	30	35		-	-	Left or right one side opening	_	1 .
ĕ		1221SR	1221SL							0	85°	3	Bronze	6
		1211FR	1211FL	1						0	85°~180°		Silver	1
		1221FR	1221FL	1						0	(Free stop)		Bronze	1
	ge	1110R	1110L	1									Silver	
	Empty hinge	1120R	1120L	1									Bronze	- 5
	ą	1210R	1210L						_	_	-		Silver	
	ᇤ	1220R	1220L										Bronze	6
Se		2211R	2211L											
Series	:	2211WR	2211WL	Wooden door Aluminum door	800	2000	20	30				180°	Cibrar	7
2000	pty	2210R	2210L	Light steel door	000	2000	30	30	_	_	_	Left or right one side opening	Silver	'
ឧ	Empty hinge	2210WR	2210WL]								, ,		
		112R	112L	Wooden deer						-	-		Cilver or Bronze	8
		112SR	112SL	Wooden door Light steel door				40	10.0	0	85° and 150°		Silver or Bronze	°
		122R-T	122L-T	(122T for steel	900	2100		40	10.0	_	_			9
	-	122SR-T	122SL-T	frame)	900	2100				0	85° and 150°			9
		113R	113L					60	15.0	_	_			10
		113SR	113SL	Wooden door				00	15.0	0	85° and 150°			10
	11:	3R TRISET	113L TRISET	Aluminum door	1000	2200		80	20.0	_	_			11
	113	SR TRISET	113SL TRISET		1000	2200			20.0	0	85° and 150°			
		122R-AT	122L-AT	Wooden door Light steel door						_	_		Silver	12
s	1	22SR-AT	122SL-AT	Steel frame				40	10.0	0	85° and 150°		Silver	12
100 Series		132R	132L	Aluminum door]					_	_	180°		40
ő		132SR	132SL	 Light steel door Partition door 			30			0	85° and 150°	Left or right one side opening		13
₽		143R-T	143L-T							_	-	side opening		.
		143SR-T	143SL-T	Olas Island				00	45.0	0	85° and 150°			14
		143R-AT	143L-AT	Steel door				60	15.0	_	-			1.5
	1	43SR-AT	143SL-AT]	900	2100				0	85° and 150°			15
		110R	110L	Wooden door]								Silver or Bronze	8•1
	0	120R-T	120L-T	Light steel door										9
	ing	120R-AT	120L-AT	(120T for steel frame)				40						12
	Empty hinge	130R	130L	Aluminum door Light steel door Partition door					_	_	-		Silver	13
	Ш	140R-T	140L-T	Otani da c	1			00						14
		140R-AT	140L-AT	Steel door				60						15
		234R	234L	Heavy wooden door						-	-	180°	Cil	1.0
		234SR	234SL	Aluminum door Steel door					00.0	0	85° and 150°	Left or right one side opening	Silver	16
ies		244R-T	244L-T		1				22.6	_	_			1.
Ser	_	244SR-T	244SL-T	Steel door	1200	2100	40	120		0	85° and 150°	180°		17
200 Series	Empty hinge		230L	Heavy wooden door Aluminum door Steel door					_	_	_	Left or right one side opening	Silver	16
			1		1	1			i				i .	1



Outdoor use

		Model nu	ımber	_		oor siz		Door weight	Closing force	Stop	Stop	Max.		
		ght hand opening	Left hand opening	Type of door	W (Max)	H (Max)	D (Min)	(kg) (Max)	(N·m)	mechanics	angle	Opening angle	Color	Page
es		733R	733L						15.0	_	-	0		
Series		733SR	733SL	Aluminum door Stainless door	900	2100	40	120	15.0	0	85° and 150°	180° Left or right one	Shine gray	19
700	Empty hinge	730R	730L	Steel door					_	_	-	side opening		
	1	113R-PC	113L-PC	Wooden door						-	-			
	1	13SR-PC	113SL-PC	Aluminum door Light steel door				40		0	85° and 150°			21
	1	133R-PC	133L-PC	Aluminum door				40	15.0	_	_			00
ries	13	33SR-PC	133SL-PC	Light steel door					15.5	0	85° and 150°			22
100PC Series	14	43R-T-PC	143L-T-PC	Steel door	900	2100	30	60		_	-	180° Left or right one	Silver	23
9	14:	3SR-T-PC	143SL-T-PC	Steel door				60		0	85° and 150°	side opening		23
	nge	110R-PC	110L-PC	Wooden door Light steel door				40						21
	Empty hinge	130R-PC	130L-PC	Aluminum door Light steel door				40	_	_	-			22
	Ęr	140R-T-PC	140L-T-PC	Steel door				60						23
	2	234R-PC	234L-PC	Heavy wooden door Aluminum door						_	_			24
١	23	34SR-PC	234SL-PC	Steel door					22.6	0	85° and 150°			24
eries	24	44R-T-PC	244L-T-PC	Steel door					22.0	_	_	180°		25
200PC Series	24	4SR-T-PC	244SL-T-PC	Steel door	1200	2100	40	120		0	85° and 150°	Left or right one side opening	Silver	25
200	Empty hinge	230R-PC	230L-PC	Heavy wooden door Aluminum door Steel door					_	_	_	9		24
	문글	240R-T-PC	240L-T-PC	Steel door										25

Glass door hinge Indoor use

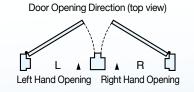
	NK153R-SC	NK153L-SC		900	2100	8 10	60	15.0	_	-			
Se	NK153SR-SC	NK153SL-SC		900	2100	12	00	15.0	0	85° and 150°			
Seri		NK153L TRISET-SC	Glass door					20.0	_	-	180° Left or right one side opening	Shine gray	26
ž	NK153SR TRISET-SC	NK153SL TRISET-SC		1000	2200	8 10 12	80	20.0	0	85° and 150°	. ciae opolinig		
	Tage NK150R-SC	NK150L-SC				.2		-	-	-			

One set comes as a pair of hinges; a spring hinge and a damper hinge (except for empty hinges).

The models including "R" in the model number are for the right-hand opening doors, and "L" are for the left-hand opening doors. The 300 series is non handed, can be used for both right-hand and left-hand opening doors.

 $\label{lem:choose left-hand or right-hand opening type when ordering.}$

The models including "S" in the model number come with a hold stop function (with internal stop mechanism). The models with "T" or "AT" at the end of the model number have tap holes (M6) on the hinge leaf. Same model without tap holes are also available. (Example: 143R-T with tap holes, 143R without tap holes) The empty hinges come as a single set.



Installation procedure

300 series - P. 27, 1000 series - P. 28, 1000F series - P. 29, 2000 series - P. 30, 100/200/NK series - P. 31, 700 series - P. 32, PC series - P. 33 Mounting position / Handling precautions - P. 34

Extending comfort in many different scenes. Nitto Kohki's Flag Type Auto Hinges

Suitable for all kinds of swing doors. Offers aesthetic appearance to the door.

Flag Type

300, 1000, 2000, 100, and 200 series

Simple design

The Auto Hinge is a door hinge with integrated door closer, providing the door a neat-looking. The simple and beautiful design matches different door styles.

Wide range of application

The Auto Hinge can be also used on the arch doors or doors without top jamb for which the common overhead door closers are not readily compatible.

Sufficient door-closing power
The 100 and 200 series incorporate two different springs (weak and strong) along with a clutch switching mechanism, exhibiting sufficient door-closing power even with its slim body.

Internal stop mechanism

The "S" models come with an automatic mechanism that stops and holds the door. With the 300 series, stops at any position from 85° to 180° (free stops). With the 1000 series, at any position from 85° to 180° (free stops) or at 85°. With the 100 and 200 series, at 85° and 150°.

Simple adjustment for closing speed

The door closing speed can be easily adjusted with a screwdriver.

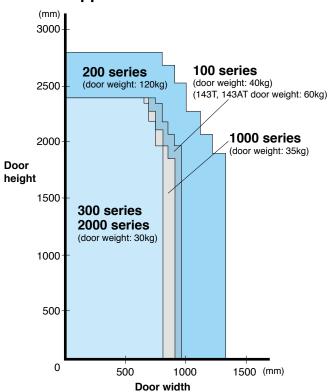
Easy to install

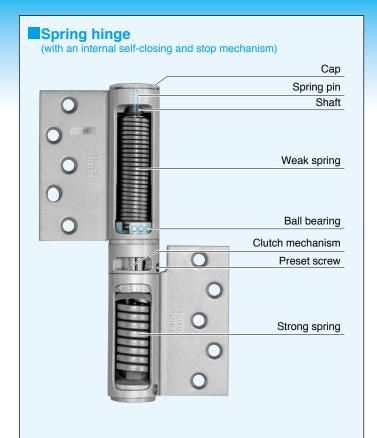
The Auto Hinges are installed in exactly the same manner as conventional flag-type hinges. Installation can be done easily with minimal time and labor.

Outstanding durability

The Auto Hinge is designed and constructed as to undergo minimum friction, achieving outstanding durability and long life time.

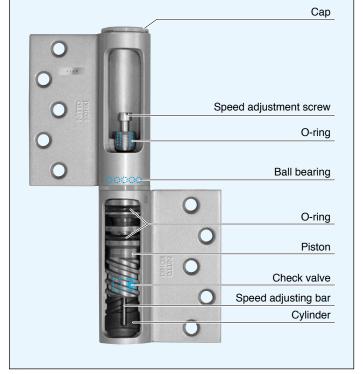
Table of applicable door size:





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.

Model 311S

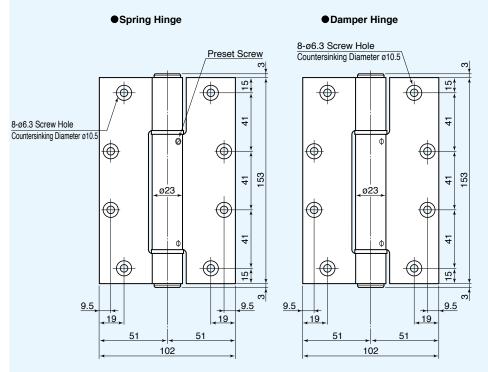
Indoor use

		a dal Niverbau	Door S	ize Applicab	le (mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
ı	IVIO	odel Number	w	н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
		3118		2000(Max)	30(Min)	30(Max)	5.0	0	85°~180°	180° Left or Right	Silver Bronze
	Empty Hinge	impty Hinge 310		Zooo(wax)	GO(WIIII)	GO(WICK)	_	_	1	One-side Opening	ivory gold

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



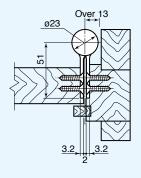
EXTERNAL DIMENSIONS



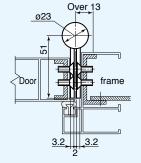
Remarks

- Surface treatment: By baked coating of melamine resin.
- If using on the wooden doors: The door must be made of hard wood such as lauan or harder.
- 3. The tapping screws supplied with the products for fitting are 25mm long. In case of using the hinges on the wooden frame, make sure that the frame is thicker than 25mm. In case of using on an aluminum or lightweight steel doors, prepare metal screws (M5 countersunk head screws).
- 4. Allow at least 3mm of space between the outer edge of door and the frame.

■FITTING DIAGRAMS



Wooden Doors

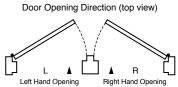


Aluminium Doors

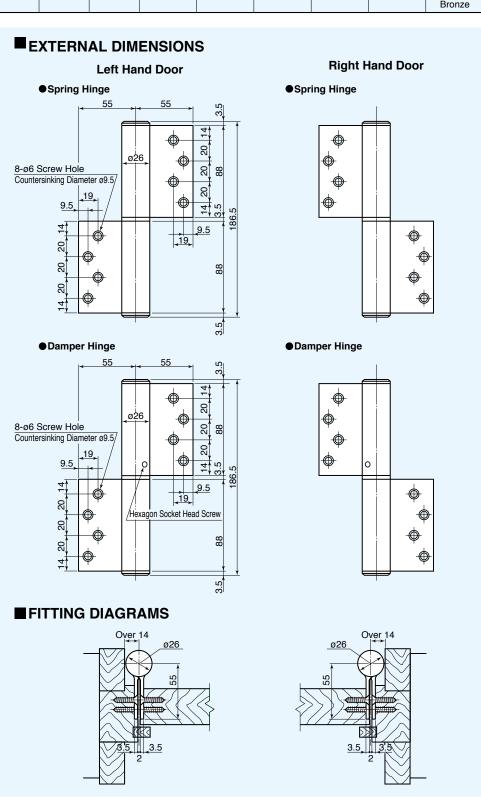
Model **1100**

	Model Nu	ımber	Door S	Size Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Right	t hand door	Left hand door	w	н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
1	111R	1111L						_	_		Oilean
1	1111SR 1121R 1121SR 1111FR	1111SL						0	85°		Silver
1		1121L					7.9	_	_	0	Bronze
1		1121SL	050(14)	0000(Maxx)	00/14:>	05/Marri	7.9	0	85°	180° Left or Right	
1		1111FL	850(Max)	2000(Max)	30(Min)	35(Max)		0	85°~180°	One-side Opening	Silver
1	121FR	1121FR							(Free stop)	J 1	Bronze
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.
- The tapping screws supplied with the products for fitting are 25mm long. In case of using the hinges on the wooden frame, make sure that the frame is thicker than 25mm.
- Allow at least 5mm of space between the outer edge of door and the frame.
- Body material : Aluminum
 Surface treatment :
 Silver(anodic oxide coating)
 Bronze(baked epoxy resin coating)

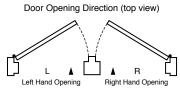


Model 1200

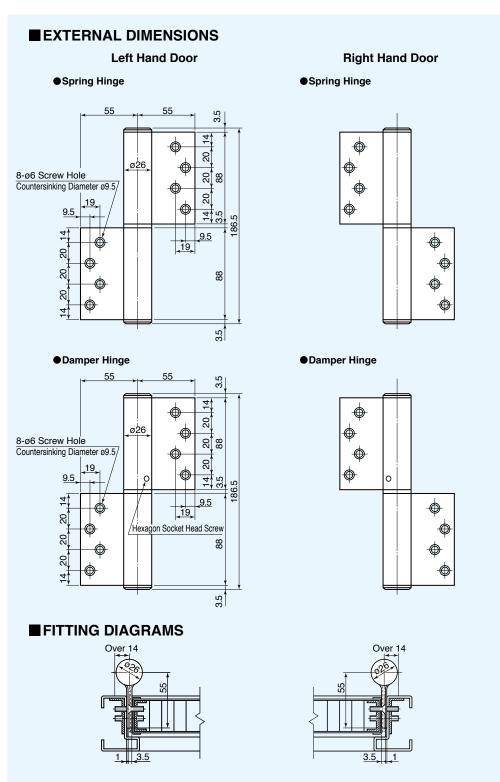
For Surface Mounted

	Model I	Number	Door S	Size Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Righ	nt hand door	Left hand door	w	н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
	1211R	1211L						_	-		Silver
	1211SR 1221R 1221SR 1211FR 1221FR	1211SL						0	85°		Silver
		1221L					7.9	_	1		Bronze
		1221SL	850(Max)	2000(Max)	30(Min)	35(Max)	7.9	0	85°	180° Left or Right	DIOIIZE
		1211FL	650(iviax)	2000(iviax)	30(101111)	SS(IVIAX)		0	85°~180°	One-side Opening	Silver
		1221FR							(Free stop)		Bronze
Empty	1210R	1210L									Silver
Hinge	1220R	1220L					_	_			Bronze





- For reinforcement purpose, put a steel plate of at least 2.3mm thick and 300mm long at the point of the door/frame that the hinge leaves will be fitted.
- 2. Use the screws included in package for installation.
- 3. Allow at least 5mm of space between the outer edge of door and the frame.
- Body material : Aluminum
 Surface treatment :
 Silver(anodic oxide coating)
 Bronze(baked epoxy resin coating)

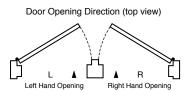


Model **2200**

	Model Nu	ımber	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Rig	ght hand door	Left hand door	w	н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
	2211R	2211L									
	2211WR	2211WL	000(May)	2000(Max)	30(Min)	OF (Moss)	_			180° Left or Right	Silver
Empt	2210R	2210L	800(Max)	2000(IVIAX)	30(10111)	35(Max)	_	_	_	One-side Opening	Silvei
Hinge	2210WR	2210WL									

^{*}The models including "W" in the model number are for the wooden doors, others for the aluminum / lightweight steel doors.





Remarks

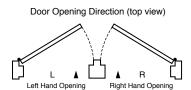
- For reinforcement purpose, put a steel plate of at least 2.3mm thick and 300mm long at the point of the door/frame that the hinge leaves will be fitted for aluminum/light weight steel door and frame.
- 2. The wooden door and frame materials to which the hinge is to be fitted should be of hard wood such as lauan or harder. And the tapping screws supplied with the products for fitting are 25mm long. In case of using the hinges on the wooden frame, make sure that the frame is thicker than 25mm.
- 3. Allow at least 5mm of space between the outer edge of door and the frame.
- Body material : Aluminum
 Surface treatment :
 Silver(anodic oxide coating)

■EXTERNAL DIMENSIONS Left Hand Door Right Hand Door Spring Hinge Spring Hinge က (1) 2211L 2211R 25. **(** Preset screv 19 \odot 9.5 \bigoplus 25.5 8-ø6.5 Screw Hole ◍ ◍ Countersinking 24.5 Diameter ø10.5 **(** 5 25.5 **Ф** 9 ●Damper Hinge ● Damper Hinge 55 က **(** ◍ 2211L 2211R 둳 **(** 19 **(** 9.5 13 212 9.5 \bigoplus 19 25. 8-ø6.5 Screw Hole ◍ 24.5 Countersinking Diameter ø10.5 **(** 5 25.5 **(** က **■FITTING DIAGRAMS** Over 13 Over 13 ø20 ø20 Tapping screw ø5×25L M5×16L

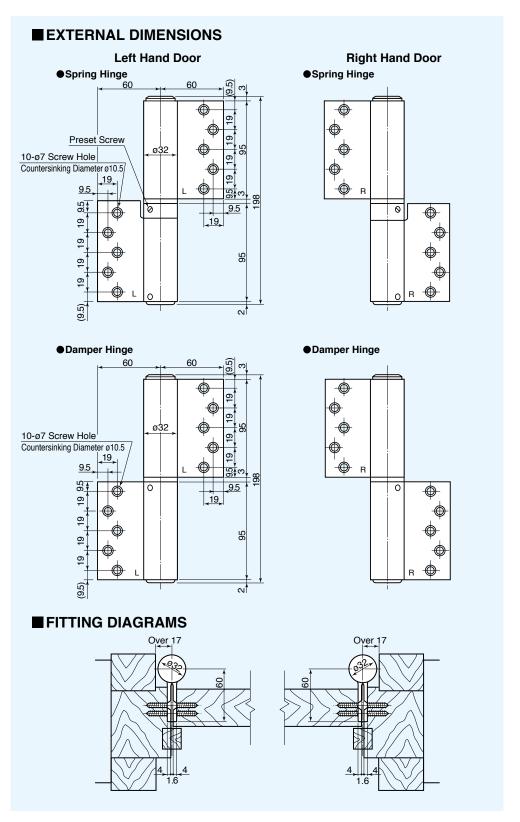
Model 112

	Model	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing	Stop	Location of	Max.	Surface
F	ight hand door	Left hand door	w	Н	D	(kg)	Force (N·m)	Mechanism	Stop	Opening Angle	Color
	112R	112L					10.0	_	_	180°	
	112SR	112SL	900(Max)	2100(Max)	30(Min)	40(Max)	10.0	0	85° & 150°	Left or Right One-side Opening	Silver & Bronze
Em Hin		110L					_	_	_		





- The door and frame materials to which the hinge is to be fitted should be of hard wood such as lauan or harder.
- The tapping screws supplied with the products for fitting are 25mm long. In case of using the hinges on the wooden frame, make sure that the frame is thicker than 25mm.
- Allow at least 5mm of space between the outer edge of door and the frame.
- 4. The rounded corner models are available too.
- 5. Surface treatment: By baked coating of melamine resin.
- Always install a door stopper to prevent the door from opening more than 180°.

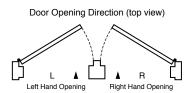


Model 122T

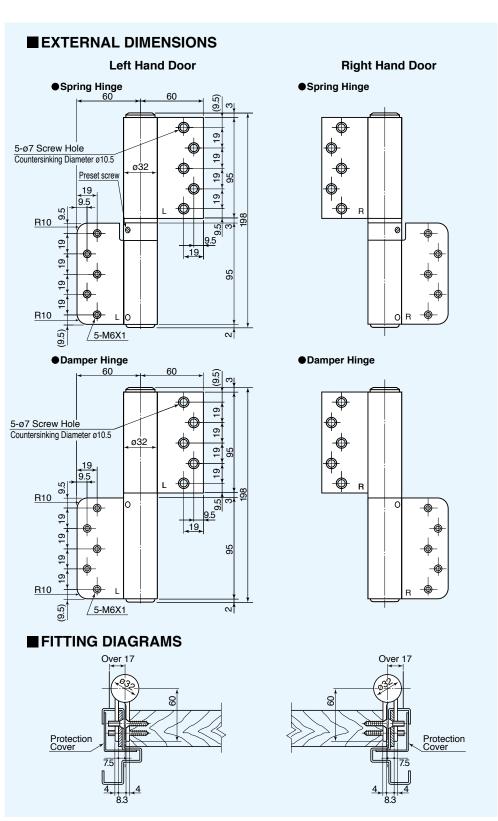


	Model I	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Rig	ght hand door	Left hand door	w	н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
	122R-T	122L-T					10.0	_	_	180°	
	122SR-T	122SL-T	900(Max)	2100(Max)	30(Min)	40(Max)	10.0	0	85° & 150°	Left or Right One-side Opening	Silver
Empt Hinge		120L-T					_	_	_		





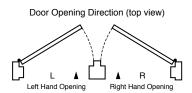
- For reinforcement purpose, put a steel plate of at least 2.3mm thick and 300mm long at the point of the frame that the hinge leaves will be fitted.
- Use the M6 countersunk head screws for fitting. (Do NOT weld.) Screws are not included.
- 3. If using on the wooden doors: The door must be made of hard wood such as lauan or harder.
- 4. Allow at least 5mm of space between the outer edge of door and the frame.
- 5. Surface treatment: By baked coating of melamine resin.
- Always install a door stopper to prevent the door from opening more than 180°.



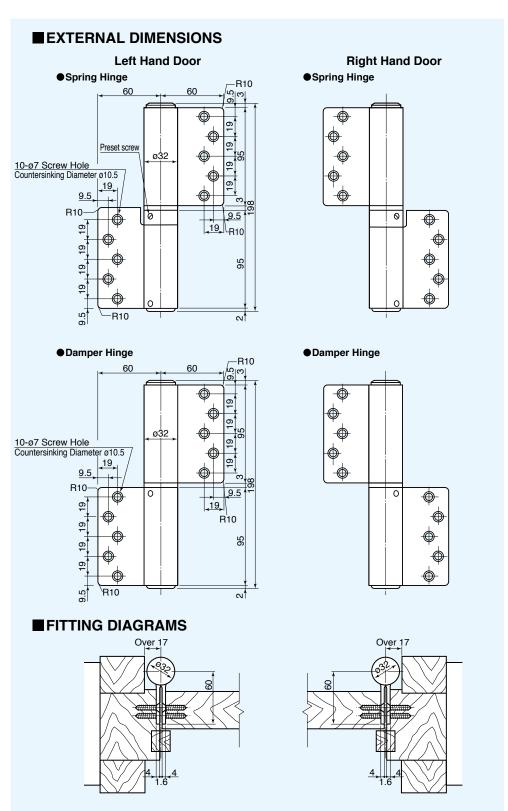
Model 113

	Model I	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max.	Surface
Rigi	ht hand door	Left hand door	w	Н	D	(kg)	(N·m)	Mechanism	Stop	Opening Angle	Color
	113R	113L					15.0	_	ı	180°	
	113SR	113SL	900(Max)	2100(Max)	30(Min)	60(Max)	15.0	0	85° & 150°	Left or Right One-side Opening	Silver
Empty Hinge	110R	110L					_	_	_		





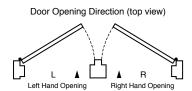
- The door and frame materials to which the hinge is to be fitted should be of hard wood such as lauan or harder.
- The tapping screws supplied with the products for fitting are 25mm long. In case of using the hinges on the wooden frame, make sure that the frame is thicker than 25mm.
- Allow at least 5mm of space between the outer edge of door and the frame.
- 4. The edge corner models are available too.
- 5. Surface treatment: By baked coating of melamine resin.
- Always install a door stopper to prevent the door from opening more than 180°.



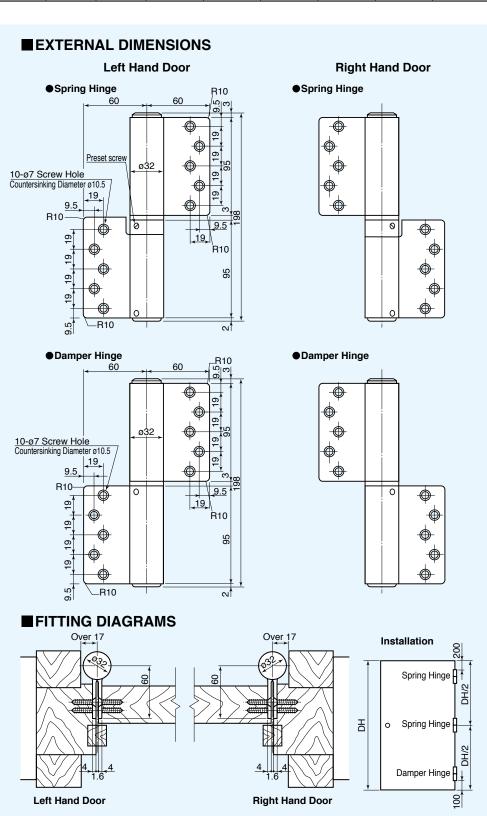
Model 113 TRISET

Model	Number	Door S	Size 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 TRISET	113L TRISET					20.0	_	-	180°	
113SR TRISET	113SL TRISET	1000(Max)	2200(Max)	30(Min)	80(Max)	20.0	0	85° & 150°	Left or Right One-side Opening	Silver
_	_					_	_	_		





- The door and frame materials to which the hinge is to be fitted should be of hard wood such as lauan or harder.
- The tapping screws supplied with the products for fitting are 30mm long. In case of using the hinges on the wooden frame, make sure that the frame is thicker than 30mm.
- Allow at least 5mm of space between the outer edge of door and the frame.
- 4. The edge corner models are available too.
- 5. Surface treatment: By baked coating of melamine resin.
- Always install a door stopper to prevent the door from opening more than 180°.

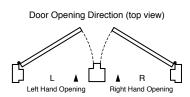


Model 122AT

For Steel Frame

	Model I	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Righ	nt hand door	Left hand door	w	Н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
1	22R-AT	122L-AT					10.0	_	_	180°	
1	22SR-AT	122SL-AT	900(Max)	2100(Max)	30(Min)	40(Max)	10.0	0	85° & 150°	Left or Right One-side Opening	Silver
Empty Hinge	120R-AT	120L-AT					_	_			



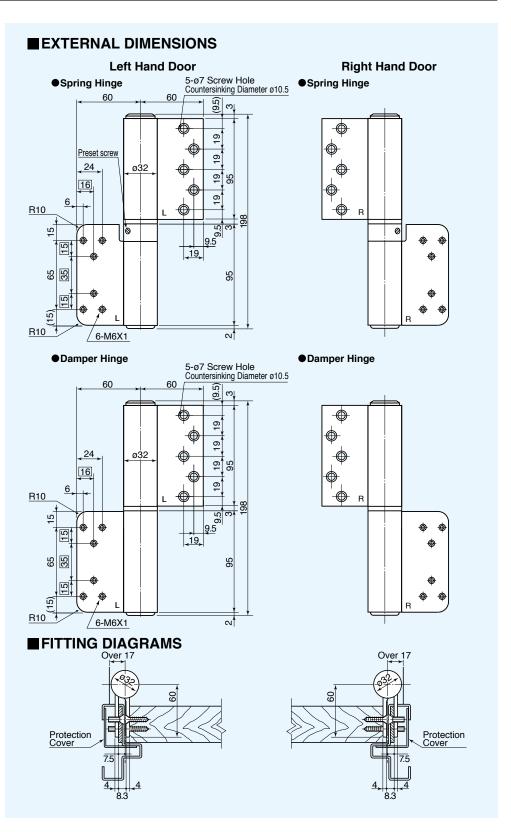


Remarks

- For reinforcement purpose, put a steel plate of at least 2.3mm thick and 300mm long at the point of the frame that the hinge leaves will be fitted.
- Use the M6 countersunk head screws for fitting. (Screws are not included).

Refer to the dimensions in the square (____) when cutting the leaf. (Do NOT weld.)

- If using on the wooden doors: The door must be made of hard wood such as lauan or harder.
- 4. Allow at least 5mm of space between the outer edge of door and the frame.
- 5. Surface treatment: By baked coating of melamine resin.
- Always install a door stopper to prevent the door from opening more than 180°.

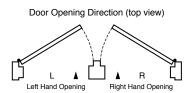


Model 132

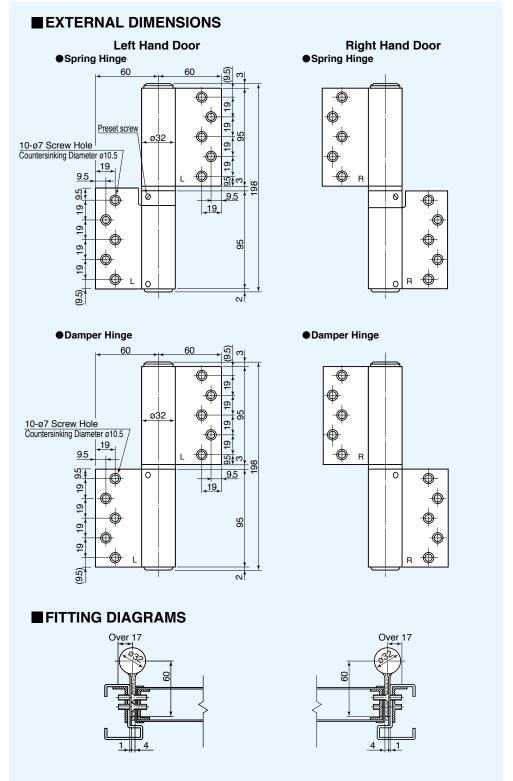
For Surface Mounted

	Model I	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Rigl	ht hand door	nand door Left hand door W H D		D	(kg)	(N·m)	Mechanism	Stop	Angle	Color	
	132R	132L	32L				10.0	_	-	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		130L					_	_	_		





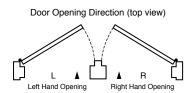
- For reinforcement purpose, put a steel plate of at least 2.3mm thick and 300mm long at the point of the door/frame that the hinge leaves will be fitted.
- 2. Use the screws included in package for installation.
- Allow at least 5mm of space between the outer edge of door and the frame.
- 4. Surface treatment: By baked coating of melamine resin.
- 5. Always install a door stopper to prevent the door from opening more than 180°.



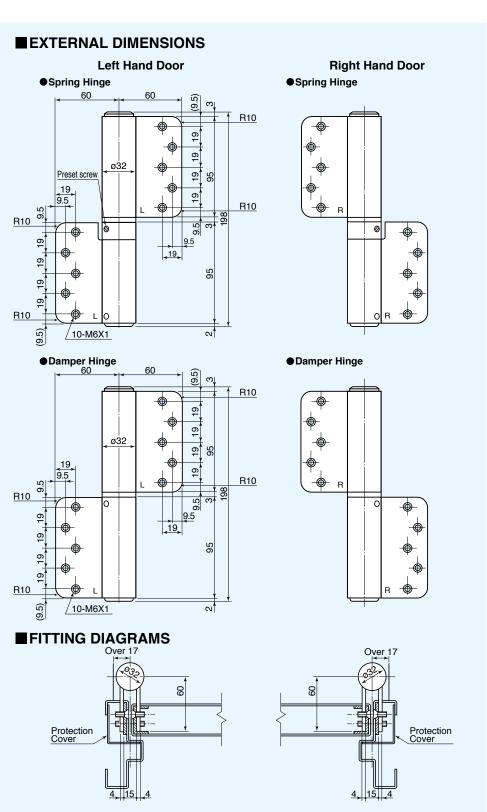
Model 143T

	Model I	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
R	ght hand door	Left hand door	w	Н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
	143R-T 143SR-T	143L-T					15.0	_	-	180°	
		143SL-T	900(Max) 2	2100(Max)	30(Min)	60(Max)	15.0	0	85° & 150°	Left or Right One-side Opening	Silver
Emp		140L-T					_	_	_		





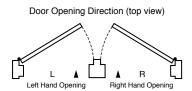
- For reinforcement purpose, put a steel plate of at least 2.3mm thick and 300mm long at the point of the door/frame that the hinge leaves will be fitted.
- Use the M6 countersunk head screws for fitting. (Do NOT weld.) Screws are not included.
- In case of applying to the fire protection door, use the model 143R-T or 143L-T without the stop function.
- Allow at least 5mm of space between the outer edge of door and the frame.
- 5. Surface treatment: By baked coating of melamine resin.
- Always install a door stopper to prevent the door from opening more than 180°.



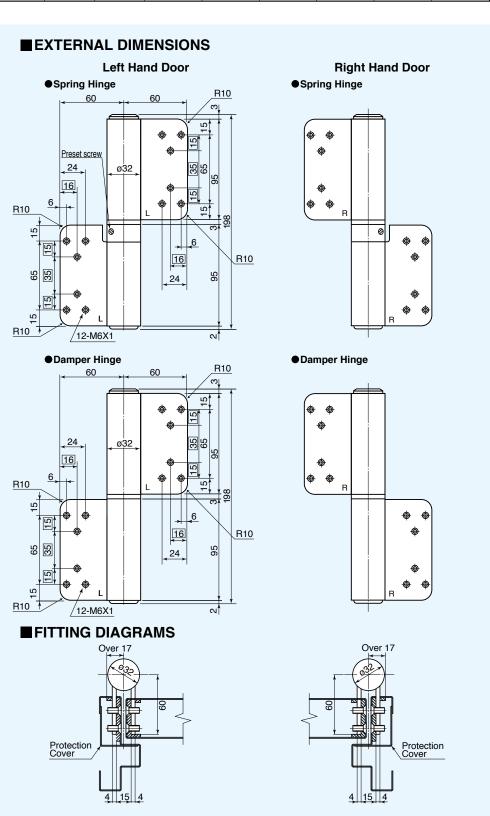
Model 143AT

	Model I	Number	Door S	Size Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Rig	ht hand door	Left hand door	w	н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
	143R-AT	143L-AT					15.0	_	_	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		140L-AT					_	_	_		





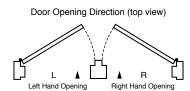
- For reinforcement purpose, put a steel plate of at least 2.3mm thick and 300mm long at the point of the frame that the hinge leaves will be fitted.
- 2. Use the M6 countersunk head screws for fitting. (Screws are not included.) Refer to the dimensions in the square (_____) when cutting the leaf. (Do NOT weld.)
- In case of applying to the fire protection door, use the model 143R-AT or 143L-AT without the stop function.
- Allow at least 5mm of space between the outer edge of door and the frame.
- 5. Surface treatment: By baked coating of melamine resin.
- 6. Always install a door stopper to prevent the door from opening more than 180°.



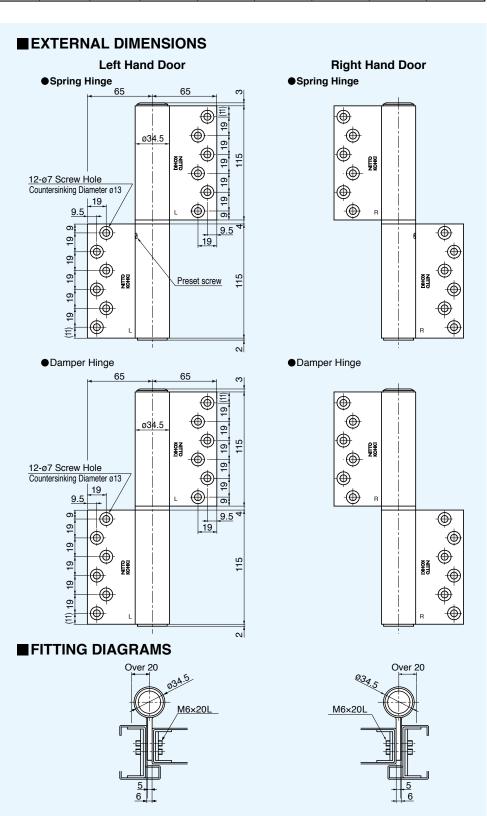
Model 234

	Model	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
R	ght hand door	Left hand door	w	Н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
	234R	234L					22.6	_	_	180°	
	234SR 234SL 1	1200(Max)	2100(Max)	40(Min)	120(Max)	22.0	0	85° & 150°	Left or Right One-side Opening	Silver	
Emp Hing		230L				_	_	_			





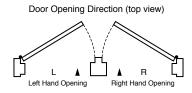
- For reinforcement purpose, put a steel plate of at least 3.2mm thick and 300mm long at the point of the door/frame that the hinge leaves will be fitted.
- Use the M6x20 countersunk head screws for fitting. (Do NOT weld.)
- Allow at least 5mm of space between the outer edge of door and the frame.
- 4. Surface treatment: By baked coating of melamine resin.
- 5. Always install a door stopper to prevent the door from opening more than 180°.



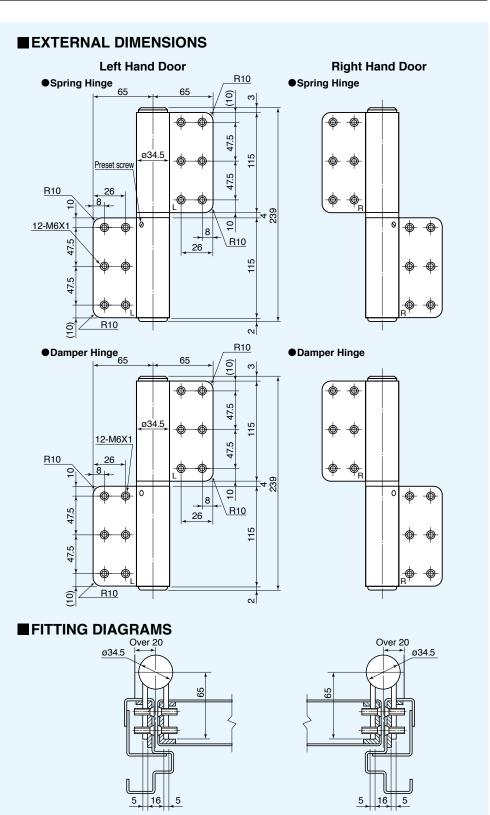
Model 244T

	Model	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Ri	ght hand door	Left hand door	w	Н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
	244R-T	244L-T		1200(Max) 2100(Max) 4			00.6	_	_	180°	
	244SR-T	244SL-T	1200(Max) 2100(Max)		40(Min)	120(Max)	22.6	0	85° & 150°	Left or Right One-side Opening	Silver
Empt		240L-T				_	_	_			





- For reinforcement purpose, put a steel plate of at least 3.2mm thick and 300mm long at the point of the door/frame that the hinge leaves will be fitted.
- Use the M6 countersunk head screws for fitting. (Do NOT weld.) Screws are not included.
- In case of applying to the fire protection door, use the model 244R-T or 244L-T without the stop function.
- 4. Allow at least 5mm of space between the outer edge of door and the frame.
- 5. Surface treatment: By baked coating of melamine resin.
- Always install a door stopper to prevent the door from opening more than 180°.



Employs special sealing technology and highly durable stainless steel.

Suitable for wide range of use, including in bathrooms and at seashores.

Offers beautiful and harmonized appearance with exterior/interior equipment.

Stainless steel, Flag Type

700 series

Simple design

The Auto Hinge is a door hinge with integrated door closer, providing the door a neat-looking. The simple and beautiful design matches different door styles.

■Wide range of application

Suitable for wide range of service locations, including bathrooms, seashores and other outdoor environments.

Employs high-endurance stainless steel for rust, corrosion and stain resistance.

About three times corrosion-proof as the PC type Auto Hinge. (At least 500 hours tested in a salt spray)

Dew-proof by a special sealing structure

Achieves long life by special surface treatment.

About twice durable as the PC type Auto Hinge. (At least 200,000 open/close cycle tested)

Outstanding durability

The advanced low-friction structure achieves outstanding durability.

Internal stop mechanism

The "S" models come with an internal stop mechanism that stops and holds the door at 85° and 150° .

Simple adjustment for closing speed

The door closing speed can be easily adjusted with a screwdriver.

No need of adjusting the door-closing speed with temperature change

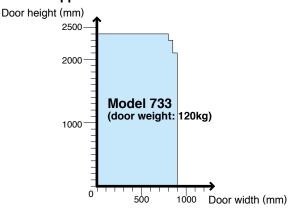
The 700 series adopts an actuator with unique temperature sensor. You only need to set the ideal door closing speed at initial installation, and the closing speed stays consistent without being affected by the change in the ambient temperature.

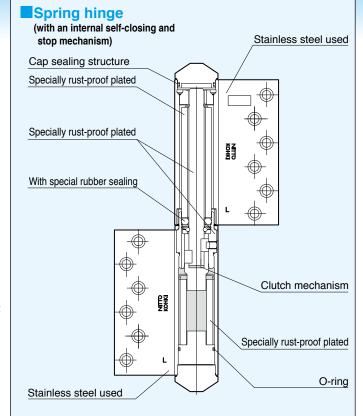
Easy to install

The Auto Hinges are installed in exactly the same manner as conventional flag-type hinges. Installation can be done easily with minimal time and labor

Compatible with the exterior products made of stainless steel.

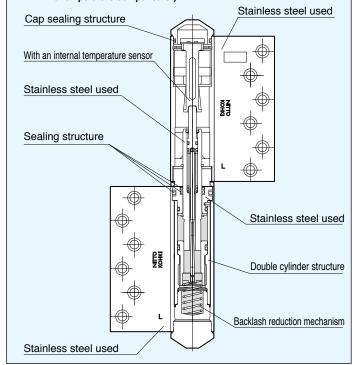
Table of applicable door size for the 700 series:





Damper hinge

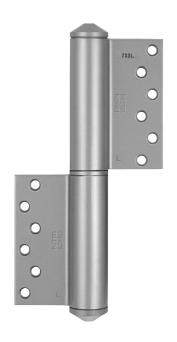
(incl. an internal closing speed control mechanism with a temperature compensator)

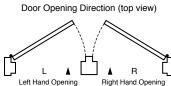


- Each model consists of a spring hinge and a damper hinge.
- This diagram represents the structure of the 700 series.

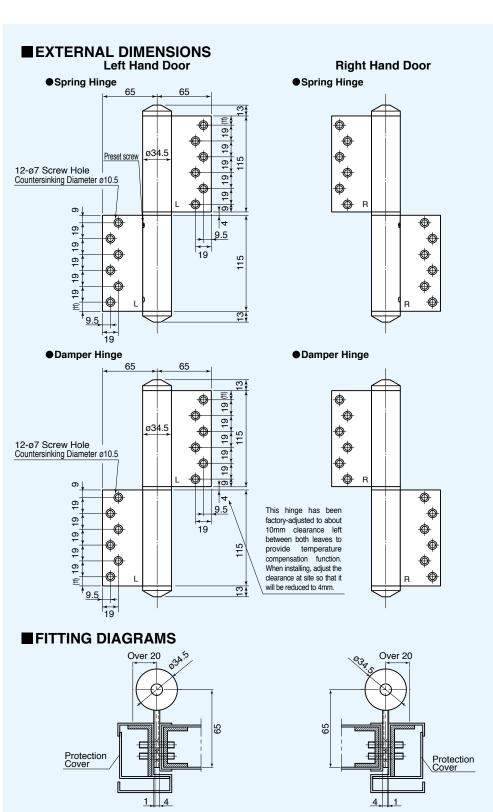
Model 733

	Model I	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Rig	ght hand door	Left hand door	w	Н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
	733R	733L					15.0	_	_	180°	
	733SR	733SL	900(Max)	2100(Max)	40(Min)	120(Max)	15.0	0	85° & 150°	Left or Right One-side Opening	Shine gray
Empty		730L					_	_	_		





- Surface treatment: By baked coating of acrylic resin on the stainless steel.
- For reinforcement purpose, put a steel plate of at least 3.2mm thick and 300mm long at the point of the door/frame that the hinge leaves will be fitted. Fix the steel plate directly on the framework.
- 3. M5x16 countersunk head screws are included.
- Allow at least 5mm of space between the outer edge of door and the frame.
- Always install a door stopper to prevent the door from opening more than 180°.
- 6. Avoid using them in sauna rooms.



Consistent door closing speed at anytime

Various unique features (automatic temperature compensation and drip-proofing) in a slim body

Provides a neat-looking to the exterior doors.

Flag Type

PC series

High reliability in severe outdoor environments.

Simple design

The Auto Hinge is a door hinge with integrated door closer, providing the door a neat-looking. The simple and beautiful design matches different door styles.

Drip-proof type withstanding outdoor use

Being drip-proof, the PC models can be used for entrance doors exposed to outside air and gate doors exposed directly to rain.

No need of adjusting the door-closing speed with temperature change

As the PC series has adopted the internal actuator with temperature sensor, you only need to set the ideal door closing speed at initial installation, and the closing speed stays consistent without being affected by the change in the ambient temperature.

Easy to set the door-closing speed

The door closing speed can be easily adjusted with a screwdriver.

Easy to install and handle

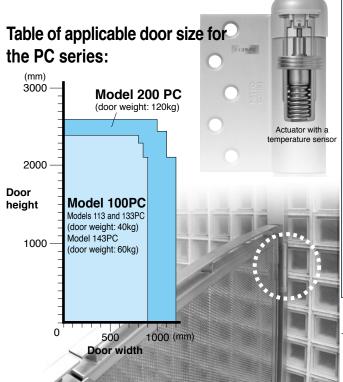
The PC series, as well as the other models (100/200/700 series), is installed in exactly the same manner as conventional flag-type hinges.

Outstanding durability

The Auto Hinge is designed and constructed as to undergo minimum friction, achieving outstanding durability and long life time.

Equipped with an internal stop mechanism

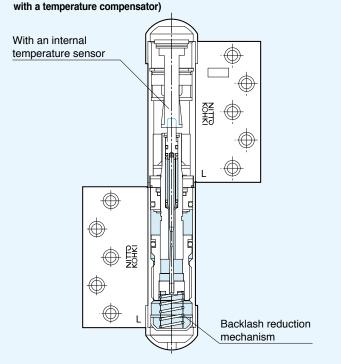
The models including "S" in the model number come with a hold stop function (with internal stop mechanism) and stop and hold the door at 85° and 150°.



Spring hinge (with an internal self-closing and stop mechanism) Cover cap used Special rust-proof plated Double coated

Damper hinge

(incl. an internal closing speed control mechanism with a temperature compensator)



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

100PCseries

Model 113-PC

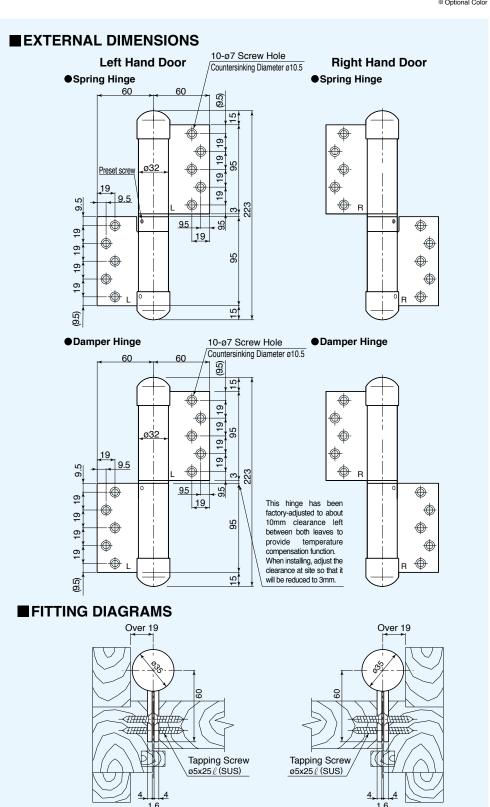
	Model I	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Rig	ht hand door	Left hand door	w	Н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
	113R-PC	113L-PC					15.0	_	_	180°	
	113SR-PC	113SL-PC	900(Max) 2	2100(Max)	30(Min)	40(Max)	15.0	0	85° & 150°	Left or Right One-side Opening	Silver *Black *Bronze
Empty Hinge		110L-PC					_	_	_		

※ Optional Color



Left Hand Opening Right Hand Opening

- 1. Surface treatment: By baked coating of acrylic resin.
- 2. For reinforcement purpose, put a steel plate or a hard wooden plate (lauan or harder) of at least 2.3mm thick and 300mm long at the point of the door/frame that the hinge leaves will be fitted. Fix the plate directly on the framework.
- 3. The tapping screws supplied with the products for fitting are 25mm long. In case of using the hinges on the wooden frame, make sure that the frame is thicker than 25mm.
- 4. Allow at least 5mm of space between the outer edge of door and the frame.
- 5. Always install a door stopper to prevent the door from opening more than 180°.
- 6. Avoid using them in sauna rooms.



100PCseries Model 133-PC

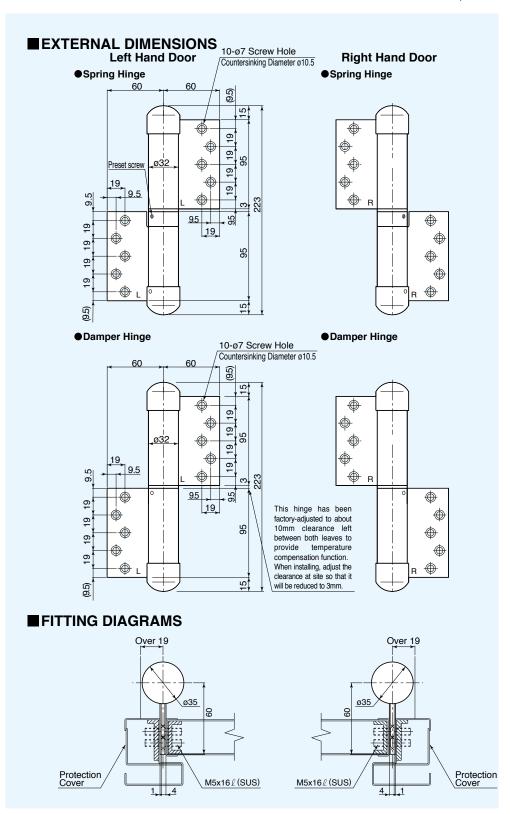
	Model I	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Righ	nt hand door	Left hand door	w	Н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
1	33R-PC	133L-PC					15.0	_	_	180°	
1	33SR-PC	133SL-PC	900(Max)	2100(Max)	30(Min)	40(Max)	15.0	0	85° & 150°	Left or Right One-side Opening	Silver * Black * Bronze
Empty Hinge	130R-PC	130L-PC					_	_	_		

※ Optional Color



Door Opening Direction (top view) Left Hand Opening Right Hand Opening

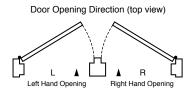
- 1. Surface treatment: By baked coating of acrylic resin.
- 2. For reinforcement purpose, put a steel plate or a hard wooden plate (lauan or harder) of at least 2.3mm thick and 300mm long at the point of the door/frame that the hinge leaves will be fitted. Fix the plate directly on the framework.
- 3. M5x16 countersunk head screws are included.
- 4. Allow at least 5mm of space between the outer edge of door and the frame.
- 5. Always install a door stopper to prevent the door from opening more than 180°.
- 6. Avoid using them in sauna rooms.



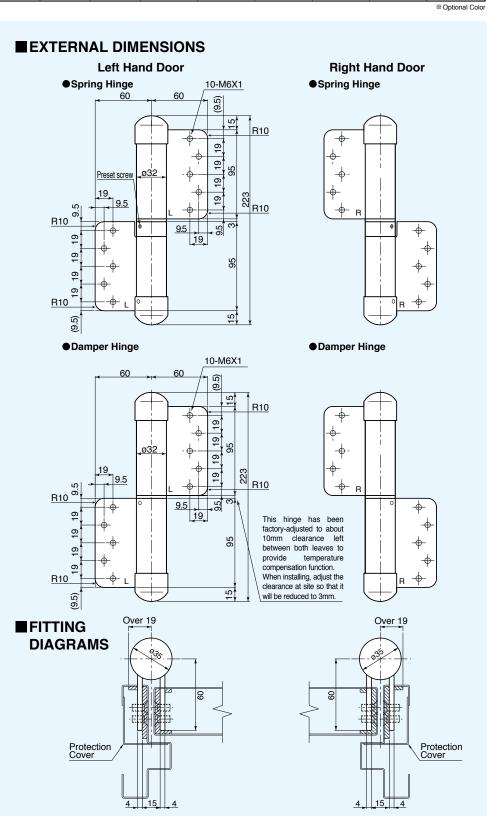
100PCseries Model 143T-PC

	Model I	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Rig	ght hand door	Left hand door	w	Н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
	143R-T-PC	143L-T-PC					45.0	_	-	180°	
	143SR-T-PC	143SL-T-PC 900(Max)	2100(Max)	30(Min)	60(Max)	15.0	0	85° & 150°	Left or Right One-side Opening	Silver * Black * Bronze	
Empt		140L-T-PC					_	_	-		





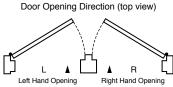
- 1. Surface treatment: By baked coating of acrylic resin.
- 2. For reinforcement purpose, put a steel plate of at least 3.2mm thick and 300mm long at the point of the door/frame that the hinge leaves will be fitted.
- 3. Use the M6 countersunk head screws for fitting. (Do NOT weld.) Screws are not included.
- 4. Allow at least 5mm of space between the outer edge of door and the frame.
- 5. Always install a door stopper to prevent the door from opening more than 180°.
- 6. Avoid using them in sauna rooms.



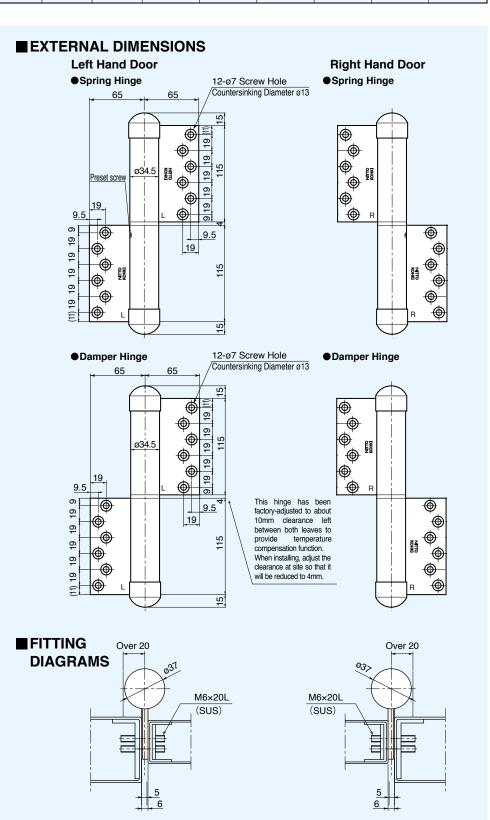
200PCseries Model 234-PC

	Model	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing	Stop	Location of	Max. Opening	Surface
	Right hand door	Left hand door	W H D		D	(kg)	Force (N·m)	Mechanism	Stop	Angle	Color
	234R-PC	234L-PC					00.6	_	_	180°	
	234SR-PC	234SL-PC	1200(Max)	2100(Max)	40(Min)	120(Max)	22.6	0	85° & 150°	Left or Right One-side Opening	Silver
Em		230L-PC					_	_	_		





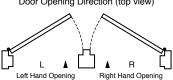
- 1. Surface treatment: By baked coating of acrylic resin.
- 2. For reinforcement purpose, put a steel plate of at least 3.2mm thick and 300mm long at the point of the door/frame that the hinge leaves will be fitted. Fix the steel plate directly on the framework.
- 3. M6x20 countersunk head screws are included.
- 4. Allow at least 5mm of space between the outer edge of door and the frame.
- 5. Always install a door stopper to prevent the door from opening more than 180°.
- 6. Avoid using them in sauna rooms.



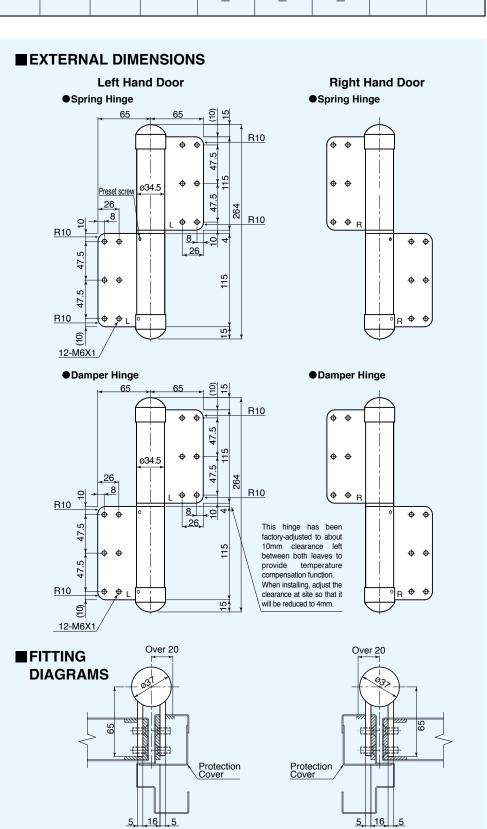
200PCseries Model 244T-PC

	Model N	Number	Door S	ize Applicab	le(mm)	Door Weight	Closeing Force	Stop	Location of	Max. Opening	Surface
Righ	nt hand door	Left hand door	w	Н	D	(kg)	(N·m)	Mechanism	Stop	Angle	Color
2	44R-T-PC	244L-T-PC					20.6	_	_	. 180°	
2	244SR-T-PC	244SL-T-PC	1200(Max)	2100(Max)	40(Min)	120(Max)	22.6	0	85° & 150°	Left or Right One-side Opening	Silver
Empty Hinge	240R-T-PC	240L-T-PC					_	_	_		





- 1. Surface treatment: By baked coating of acrylic resin.
- 2. For reinforcement purpose, put a steel plate of at least 3.2mm thick and 300mm long at the point of the door/frame that the hinge leaves will be fitted.
- 3. Use the M6 countersunk head screws for fitting. (Do NOT weld.) Screws are not included.
- 4. Allow at least 5mm of space between the outer edge of door and the frame.
- 5. Always install a door stopper to prevent the door from opening more than 180°.
- 6. Avoid using them in sauna rooms.

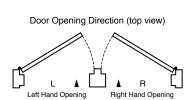




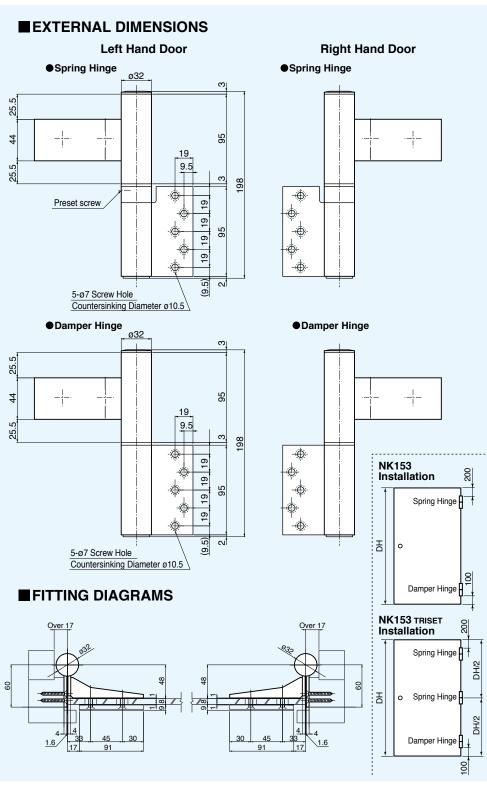
Model NK153 / NK153 TRISET

	Model I	Number	Door S	ize Applicab	le(m	nm)		Door Weight	Closeing	Stop	Location of	Max. Opening	Surface
Righ	t hand door	Left hand door	w	Н		D		(kg)	Force (N·m)	Mechanism	Stop	Angle	Color
N	K153R-SC	NK153L-SC							45.0	_	_		
N	K153SR-SC	NK153SL-SC	900(Max)	2100(Max)				60(Max)	15.0	0	85° & 150°		
Empty Hinge	NK150R-SC	NK150L-SC				10	12		_	_	_	180° Left or Right	Shine gray
NK153	R TRISET-SC	NK153L TRISET-SC			8	10	12		20.0	_	_	One-side Opening	3 ,
NK1538	SR TRISET-SC	NK153SL TRISET-SC	1000(Max)	2200(Max)				80(Max)	20.0	0	85° & 150°		
Empty Hinge	NK150R-SC	NK150L-SC							_	_	_		





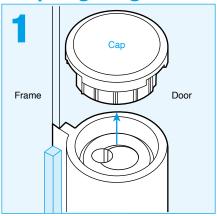
- If using on the wooden doors and frame: The door must be made of hard wood such as lauan or harder.
- 2. Surface treatment: By baked coating of melamine resin.
- The tapping screws supplied with the products for fitting are 35mm long. In case of using the hinges on the wooden frame, make sure that the frame is thicker than 35mm.
- 4. Allow at least 5mm of space between the outer edge of door and the frame.
- Always install a door stopper to prevent the door from opening more than 180°.



■ Installation procedure

Set up the hinges after hanging the door.

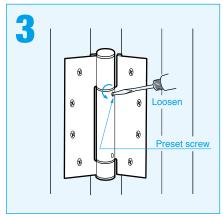
Spring hinge



Hang the door, then remove the cap.

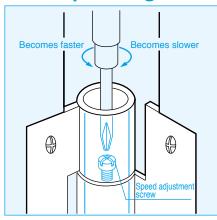


Open the door by about 10° to 15°. Drive the supplied spring pin securely into the installation hole according to the mounting instruction. Place the cap back on the hinge.



 Open the door by about 90°. Turn the preset screw counterclockwise by 3 to 4 turns, then make it stick out from the hinge surface by about 1mm.

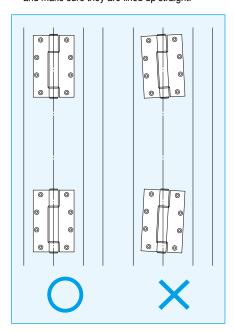
Damper hinge



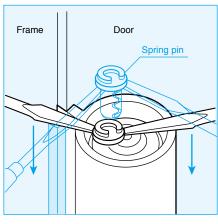
Turn the speed adjustment screw according to the instructions given on the cap of the damper hinge, then adjust the door-closing speed. After finishing the adjustment, place the cap back on the hinge.

Cautions for installation

Align the spring hinge and damper hinge carefully and make sure they are lined up straight.



Removal of the door

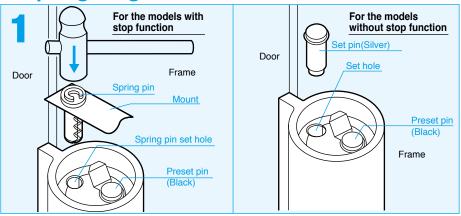


- ① Open the door by about 90°. Turn the preset screw clockwise by 3 to 4 turns. Make sure the preset screw is back to the original position as supplied from the factory.
- ② Close the door. The door should stop at about 5° position. Remove the spring pin as shown in the figure on the left. (Do not push or close the door before removing the spring pin.)
- 3 To make the spring work again, use a new spring pin.

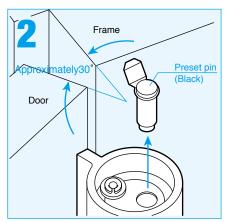
■ Installation procedure

- Set up the hinges after hanging the door.
- *When hanging the door, align the notch on the shaft of the damper hinge with the hole in the door-side hinge body.

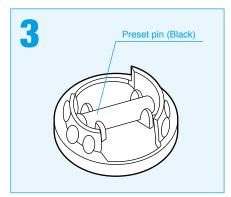
Spring hinge •



- Open the door by about 5° to 15°. Drive the spring pin (silver color) securely into the spring pin set hole according to the mounting instruction.
- Open the door by about 5° to 15°. Drive the set pin (silver) securely into the spring pin set hole according to the mounting instruction. The set pin is located inside the upper cap of the spring hinge.

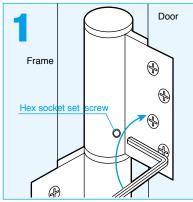


 Next, open the door by about 30°. Pull out the black pre-set pin.

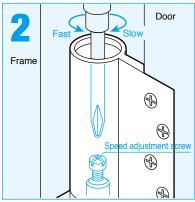


 Place the pre-set pin (black) into the cap and keep it there for future use.

Damper hinge

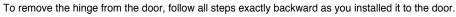


 Tighten the hex socket set screw located at the side of damper hinge with the supplied hex key.

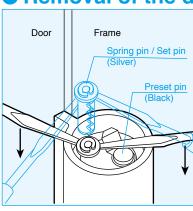


Remove the cap. Turn the speed adjustment screw inside the damper hinge by screwdriver and adjust the door closing speed to the desired speed. Place the cap back to the hinge.

Removal of the door



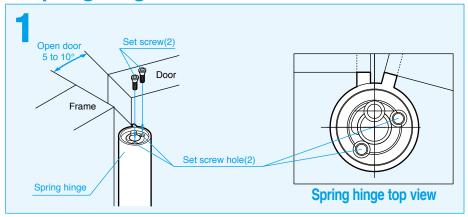
- ① Loosen the shaft socket screw located at the side of damper hinge.
- ② Remove the cap from the spring hinge and take the stored pre-set pin from the cap. Open the door by about 30°. Drive the pre-set pin securely into the pre-set pin hole. (If the pre-set pin is not fixed securely, it may come out and cause the spring get loose.)
- ③ Close the door until about 5° position. Remove the spring pin as shown in the drawing on the left. Now you can take off the hinge.
- 4 It is dangerous to remove the fitting screws when the spring is still wound.



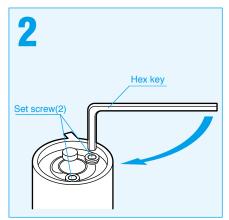
■ Installation procedure

- Set up the hinges after hanging the door.
- *When hanging the door, align the notch on the shaft of the damper hinge with the hole in the door-side hinge body.

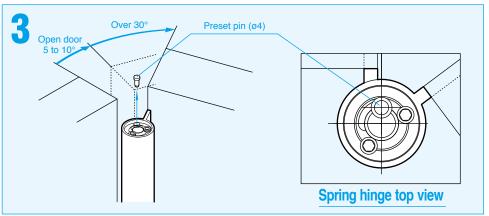
Spring hinge



- Open the door by about 5° to 10°. Drive 2pcs x set screws securely into the set screw holes according to the mounting instruction.
 - *Use the supplied set screws only.

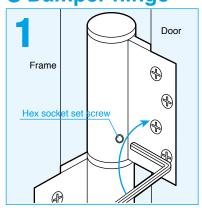


 Tighten both set screws (M4) with the supplied hex key.

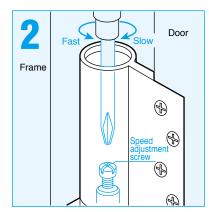


• Open the door further by additional 30° or more. Remove the pre-set pin as shown the above figure.

Damper hinge



 Tighten the hex socket set screw located at the side of damper hinge with the supplied hex key.



 Remove the cap. Turn the speed adjustment screw inside the damper hinge by screwdriver and adjust the door closing speed to the desired speed. Place the cap back to the hinge.

Caution

After setting, check the operation of the free stop function and confirm it works properly. Noise may be generated if the set screws(2pcs) are loose. In such case, remove the cap from the spring hinge and tighten the set screws securely.

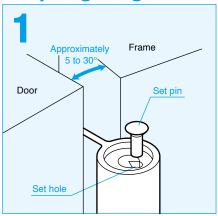
- If you want to use the product as regular door hinge without self-closing or stop functions, follow the instructions below.
- Adjust the closing speed of the damper hinge to maximum fast.
- ② Remove the cap from the spring hinge. Open the door by about 45 ° and insert the pre-set pin (stored in the cap) fully into the pre-set pin hole.
- ③ Close the door to about 5 ° to 10 ° position. Loosen and remove the set screws (2 pcs.) with the hex key (M4).

^{*}Contact Nitto Kohki or distributors near you to learn about a non-standard method of use and other questions.

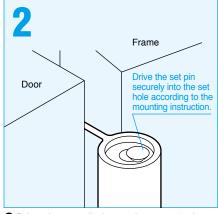
Installation procedure

- Set up the hinges after hanging the door.
- *When hanging the door, align the notch on the shaft of the damper hinge with the hole in the door-side hinge body.

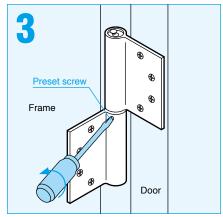
Spring hinge



Hang the door, then remove the cap.
 Open the door by about 5° to 30°.

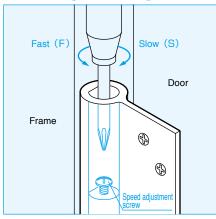


 Drive the supplied set pin securely into the installation hole according to the mounting instruction.



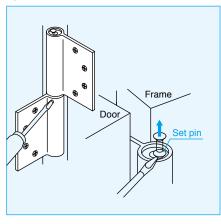
- Open the door by about 90°. Turn the preset screw counterclockwise, then make it stick out from the hinge surface.
- DO NOT operate the door before driving the set pin.
- After finishing the adjustment, place the cap back on the hinge.

Damper hinge



Turn the speed adjustment screw according to the instructions given on the cap of the damper hinge, then adjust the door-closing speed. After finishing the adjustment, place the cap back on the hinge.

Removal of the door



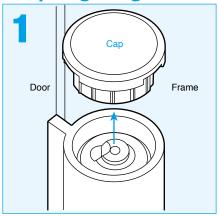
- ① Open the door by about 90°. Turn the preset screw clockwise. Make sure the preset screw is back to the original position as supplied from the factory.
- ② Close the door. The door should stop at about 15° position. Remove the spring pin as shown in the figure on the left.
- 3 The spring hinge becomes free and the door can be removed.
- *Do not push or close the door before removing the spring pin. Failure to do so may cause an accident.
- *It is dangerous to remove the fitting screw when the set pin is still wound.
- *Be sure to release the spring force from the door before removing the door. Failure to do so may cause an accident.

$100/200/NK_{\text{series}}$

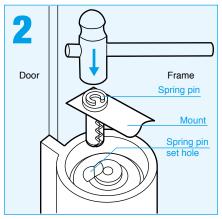
Installation procedure

 Set up the hinges after hanging the door. *When hanging the door, align the notch on the shaft of the damper hinge with the hole in the door-side hinge body.

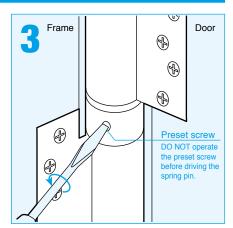
Spring hinge



Remove the cap.



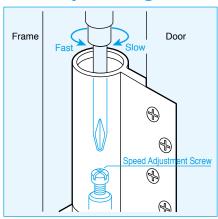
- Drive the spring pin.
- Open the door by about 10°. Align the spring pin with the installation hole and drive it securely according to the instructions given on the mount. Use the supplied spring pin only. Do not use any other screw as alternative.



 Open the door by about 90°. Turn the preset screw counterclockwise by 3 to 4 turns, then make it stick out from the hinge surface by about 1mm.

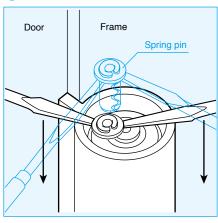
DO NOT operate the preset screw before driving the spring pin.

Damper hinge .



 Remove the cap. Turn the speed adjustment screw inside the damper hinge by screwdriver and adjust the door closing speed to the desired speed. Place the cap back to the hinge.

Removal of the door



- ① Open the door by about 90°. Turn the preset screw clockwise by 3 to 4 turns. Make sure the preset screw is back to the original position as supplied from the factory.
- ② Close the door. The door should stop at about 5° position. Remove the spring pin as shown in the figure on the left. Carefully remove the door.

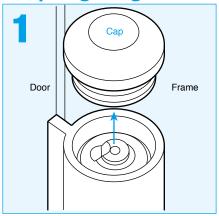
(Do not push or close the door before removing the spring pin.)

③ When hanging the door again, make sure that the door is put back at the same angle as it was removed. (The angle to which the notch on the damper shaft is faced.)

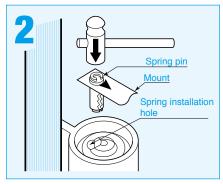
Installation procedure

- Set up the hinges after hanging the door.
- *When hanging the door, align the notch on the shaft of the damper hinge with the hole in the door-side hinge body.

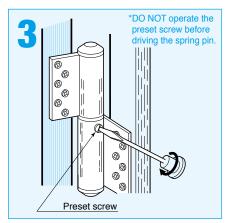
Spring hinge



Remove the cap.



- Drive the spring pin.
- Open the door by about 10°. Align the spring pin with the installation hole and drive it securely according to the instructions given on the mount. Use the supplied spring pin only. Do not use any other screw as alternative.

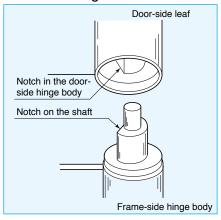


 Open the door by about 90°. Turn the preset screw counterclockwise by 3 to 4 turns, then make it stick out from the hinge surface by about 1mm.

DO NOT operate the preset screw before driving the spring pin.

Damper hinge

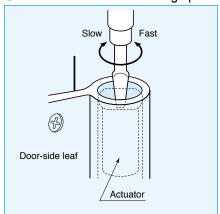
How to hang the door



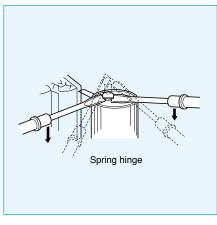
- Align the label on the cap with the notch on the shaft.
- Before installed, there is a gap between the door-side hinge body and the frame-side hinge body of the damper hinge. This gap will disappear as soon as once the door get hung, and the self-closing speed adjustment will become available.

After hanging the door, confirm the gap is gone.

Remove the cap. Turn the speed adjustment screw inside the damper hinge by screwdriver and adjust the door closing speed to the desired speed. Place the cap back to the hinge. • How to set the door-closing speed



Removal of the door.



- ① Open the door by about 90°. Turn the preset screw clockwise by 3 to 4 turns. Make sure the preset screw is back to the original position as supplied from the factory.
- ② Close the door. The door should stop at about 5° position. Remove the spring pin as shown in the figure on the left. Carefully remove the door.

(Do not push or close the door before removing the spring pin.)

③ When hanging the door again, make sure that the door is put back at the same angle as it was removed. (The angle to which the notch on the damper shaft is faced.)

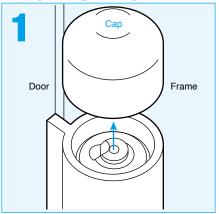
- *Contact Nitto Kohki or distributors near you to learn about a non-standard method of use and other questions.
- *Should any hinge break, pull out the spring pin (refer to "Removal of the door") and turn the speed adjustment screw to the maximum fast. You can then use the hinge as a regular door hinge without self-closing/stop functions.



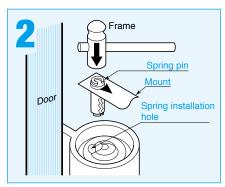
Installation procedure

 Set up the hinges after hanging the door. *When hanging the door, align the notch on the shaft of the damper hinge with the hole in the door-side hinge body.

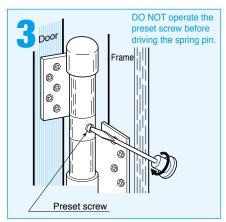
Spring hinge



Remove the cap.



- Drive the spring pin.
- Open the door by about 10°. Align the spring pin with the installation hole and drive it securely according to the instructions given on the mount. Use the supplied spring pin only. Do not use any other screw as alternative.

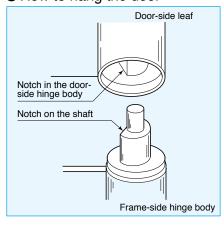


 Open the door by about 90°. Turn the preset screw counterclockwise by 3 to 4 turns, then make it stick out from the hinge surface by about 1mm.

DO NOT operate the preset screw before driving the spring pin.

Damper hinge

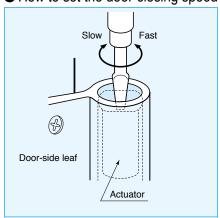
How to hang the door



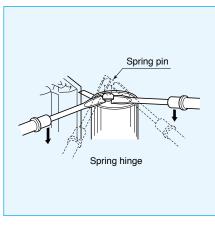
- Align the label on the cap with the notch on the shaft.
- Before installed, there is a gap between the door-side hinge body and the frame-side hinge body of the damper hinge. This gap will disappear as soon as once the door get hung, and the self-closing speed adjustment will become available.

After hanging the door, confirm the gap is gone.

Remove the cap. Turn the speed adjustment screw inside the damper hinge by screwdriver and adjust the door closing speed to the desired speed. Place the cap back to the hinge. How to set the door-closing speed



Removal of the door



- ① Open the door by about 90°. Turn the preset screw clockwise by 3 to 4 turns. Make sure the preset screw is back to the original position as supplied from the factory.
- ② Close the door. The door should stop at about 5° position. Remove the spring pin as shown in the figure on the left. Carefully remove the door.

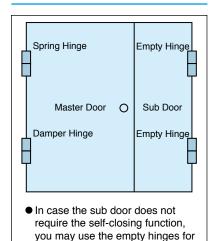
(Do not push or close the door before removing the spring pin.)

③ When hanging the door again, make sure that the door is put back at the same angle as it was removed. (The angle to which the notch on the damper shaft is faced.)

- *Contact Nitto Kohki or distributors near you to learn about a non-standard method of use and other questions.
- *Should any hinge break, pull out the spring pin (refer to "Removal of the door") and turn the speed adjustment screw to the maximum fast. You can then use the hinge as a regular door hinge without self-closing/stop functions.

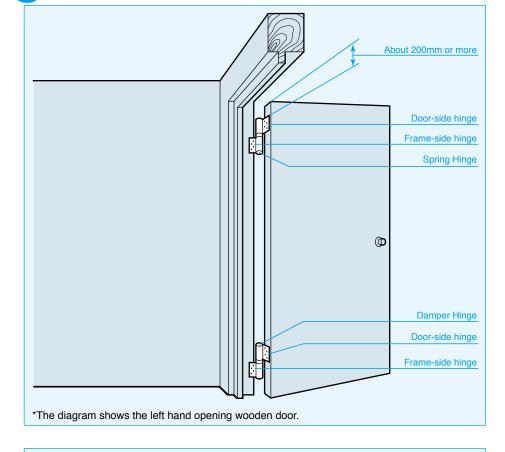
Auto Hinges

Mounting position for Flag Type Auto Hinges

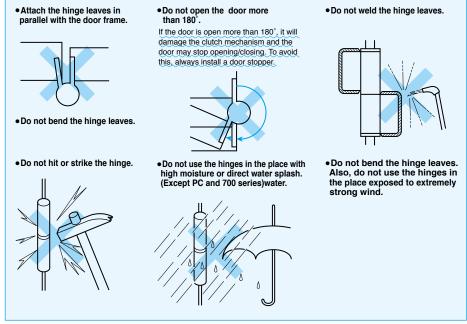


the sub door so as to match the

appearance with the master door.



Handling precautions



Door Closer

Auto Hinge & Sliding Door Closer

OTHER RELATED PRODUCTS

AUTO-HINGE

Center Hang Type

Concealed door hinge with self-closing function.
Built into the door, offering clean exterior appearance.
Excellent performance and durability, suitable for the fire proof doors.

 Concealed design, built into the bottom side of the door.
 Completely hidden inside the door offering

Completely hidden inside the door, offering streamlined door appearance.

Suitable for fire doors, smoke ventilations, air intake doors or regular swing doors.

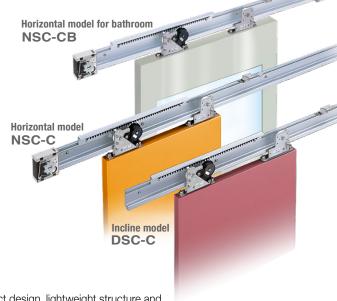




Door Closer

Sliding Door Closer

Innovative solution adding self-closing feature to your sliding door. Also designed to assist in reducing the door opening resistance to achieve an easy and safe opening operation.



- Compact design, lightweight structure and long-life time are achieved by the unique endless viscosity resistance system (patented).
- Easy to adjust the door closing force and speed.

▲ Safety precautions

- To avoid personal injury and other accidents, thoroughly read the precautions set forth in the "Instruction Manual" or "Catalog" and properly complete the installation and adjustment procedures before use.
- Ensure that the door closing speed is properly adjusted at all times. If it is set too fast, personal injury may be caused.

DISTRIBUTED BY

Focused on you

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