

Total Door Opening solutions

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Our new management vision consists of **the vision, mission and core values**

- **The vision** is our destination we intend to reach by 2020
- **The mission** is our purpose and business philosophy as well
- **The core values** manifest the belief and creed we have to abide by

History

- 1984: Established
- 1985: Began to Export (USA, HK, UAE, UK)
- 1999 : ISO 9001 approved
- 2000 : Awarded as Excellent Company by Korea government
- **2010 : Merged to ASSA ABLOY Group**
- 2012 : Awarded as “Best company of 2011 in APAC”
- 2014 : Automatic production line investment for Floor Spring
- 2015 : Company Name: ASSA ABLOY Korea Co., Ltd. Samhwa Precision
- 2016 : Semi-automatic production line investment for Door Closer
- 2018 : Name Changed to ASSA ABLOY KOREA Samhwa Precision Co., Ltd.

Door closer installation is defined by the points described as follows.

- Aesthetic appearance
- Closer position on the door
- Door Frame & top rail of the door
- Door closer arm accessibility
- Door size and weight

The best way to choose the correct door closer is by door size and weight. Please refer to the 'Door Weight & Width Reference' table below to choose the right door closer size for your door. All 'King' door closers are certified with ANSI/BHMA A 156.4-2013 Grade 1

Door Weight & Width Reference

Cat.	REFERENCE						ANSI TEST					
Size	Size 1	Size 2	Size 3	Size 4	Size 5	Size 6	Size 1	Size 2	Size 3	Size 4	Size 5	Size 6
Exterior	28"	32"	36"	36"	42"	48"	50 lbs	80 lbs	100 lbs	125 lbs	155 lbs	180 lbs
Interior	32"	36"	42"	48"	54"	58"	23 Kg	35 Kg	45Kg	57Kg	70Kg	82Kg

- **Interior** : Regular Arm Application is recommended for highest efficiency
- **Exterior/Vestibule** : Heavy Duty Arm is recommended for high traffic and wind
- **Opening Angle** : Regular Arm / Parallel Arm / Top Jamb application are capable of opening up to 180 degree. Followed by the installation environment, the opening angle can be adjusted

K70, K500 & K90 Series



K70/K500



K90

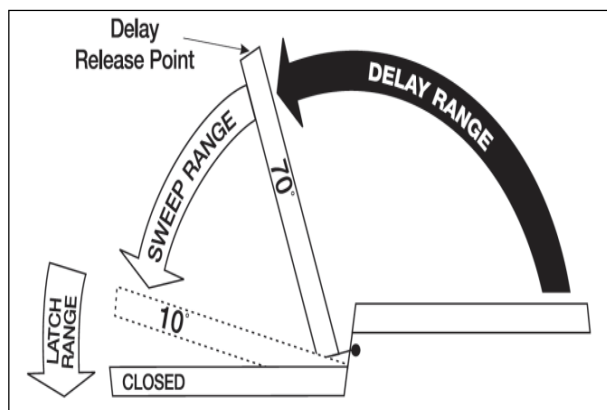
Available Color

- ALUMINUM(689)
- BRASS GOLD(696)
- DURO(690)

※ The actual product may differ from the color on the screen

<Standard Feature>

- For Residential & Office
- Aluminum alloy Body
- Non-Handed
- Sweep and Latch Speed Control Valve
- Back Check for K90



●:STD ●:OPT O: Certified

Series	Model	Power	Door Size (mm)	Door Weight (KG)	Body	Body Size (Hole Pattern) (mm)	Max Opening Angle(°)	Optional Feature		Certificate			
								Built-In Hold Open	Tri Pack	ANSI	UL	CE	KS
K70	K71	1	800 X 1800	15~30	#1	180X47.8X64.9 (165, 19)	180°	●	●				
	K72	2	900 X 2100	25~45							○ K72		○
K500	K510	1	800 X 1800	15~30	#1	180X47.8X64.9 (165, 19)	180°		●				○
	K520	2	900 X 2100	25~45									

Series	Model	Power	Door Weight (KG)	Body Size (Hole Pattern) (mm)	Optional Feature					Certificate			
					Hold Open	Tri Pack	BC	DA	Track Arm	ANSI	UL	CE	KS
K90	K90	1~3	15~85	248X59.6X52.2 (230, 19)	●	●	●	●	●		○		○

<Model Reference>

King	Cal Royal	Dorma	Russwin	Hager	Corbin	LCN	Norton	Parker	Sargent
K70/500		TS77 MA200	2800		100	1050		500	
K90	300	1500	SC60	5300	QDC300	1070 1260	1600	3100	1130

KCD30 Series



KCD34

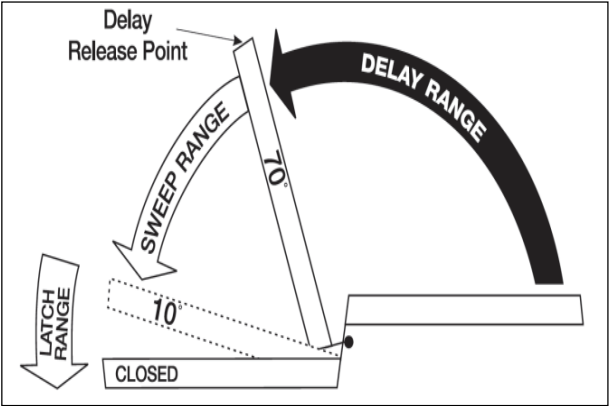
Available Color

- ALUMINUM(689)
- BRASS GOLD(696)
- DURO(690)

※ The actual product may differ from the color on the screen

<Standard Feature>

- For Concealed Door
- Aluminum alloy Body
- Non-Handed
- Sweep and Latch Speed Control Valve
- Sliding Track Arm
- Hold Open



●:STD ●:OPT ○:Certified

Series	Model	Power	Door Size (mm)	Door Weight (KG)	Body Size (Hole Pattern) (mm)	Body Thickness (mm)	Door Leaf Thickness	Certificate			
								ANSI	UL	CE	KS
KCD30	KCD33	2	950 X 2100	65	238X69X36.8 (227X24)	36mm	Steel Door (Min 45mm)				○
	KCD34	3	1050 X 2400	85			Wood Door (Min 50mm)		○		

K600, K700, K800 Series



K600



K700



K800

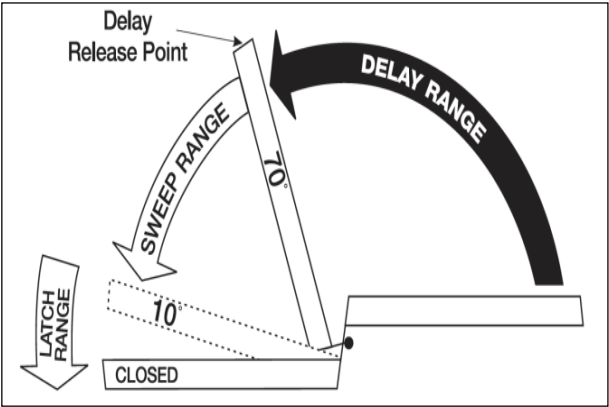
Available Color

- ALUMINUM(689)
- BRASS GOLD(696)
- DURO(690)

※ The actual product may differ from the color on the screen

<Standard Feature>

- For Residential & Commercial Use
- Aluminum alloy Body
- Non-Handed
- Sweep and Latch Speed Control Valve



<Model Reference>

King	Cal Royal	Dorma	Dor-o-Matic	Hager	Parker	LCN	Norton	PDQ	Sargent
K600 K700 K800	300	7400 U1500	SC60	5300	900	1070 1260 1370	1600	3100	1130

●:STD ●:OPT O:Certified

Series	Model	Power	Door Size (mm)	Door Weight (KG)	Body	Body Size (Hole Pattern) (mm)	Max Opening Angle (°)	Optional Feature						Certificate			
								DA	Tri Pack	BC	Built-In Hold Open	Hold Open Arm	Extra Option Arm	ANSI	UL	CE	KS
K600	NSK600	1~6	-	25~120	#4	248X53.5X66.5 (230, 19)	180°		●	●			●	○ Grade1	○		○
	NSK610	1	800 X 1800	15~30	#1	180X47.8X64.9 (165, 19)			●		●						
	NSK620	2	800 X 2100	25~45	#2,3	204X42.8X64.2 (188, 19)			●		●						
	NSK630	3	950 X 2100	40~65	#3	226X53.5X66.5 (208, 19)			●	●	●		●			○	
	NSK640	4	1050 X 2400	60~85	#4	248X53.5X66.5 (230, 19)			●	●	●		●				
	NSK650	5	1200 X 2300	80~120					●	●	●		●				
	NSK600BF	BF-4	-	15~85					●	●			●				
K700	K700	1~6	-	15~120	#4	248X53.5X66.5 (230, 19)	180°		●	●			●	○ Grade1	○		○
	K720	2	800 X 2100	25~45	#2,3	204X42.8X64.2 (188, 19)			●		●		●				
	K730	3	950 X 2100	40~65	#3	226X53.5X66.5 (208, 19)			●	●	●		●			○	
	K740	4	1050 X 2400	60~85	#4	248X53.5X66.5 (230, 19)			●	●	●		●				
	K750	5	1200 X 2400	80~120					●	●	●		●				
	K700BF	BF-4	-	15~85					●	●			●				
K800	NSK800	1~6	-	15~120	#4	248X53.5X66.5 (230, 19)	180°		●	●			●	○ Grade1	○		○
	NSK820	2	800 X 2100	25~45	#3	226X53.5X66.5 (208, 19)			●	●	●		●				
	NSK830	3	950 X 2100	40~65					●	●	●		●			○	
	NSK840	4	1050 X 2400	60~85	#4	248X53.5X66.5 (230, 19)			●	●	●		●				
	NSK850	5	1200 X 2400	80~120					●	●	●		●				
	NSK800BF	BF-4	-	15~85					●	●			●				

K900, K990 Series



K900



K990

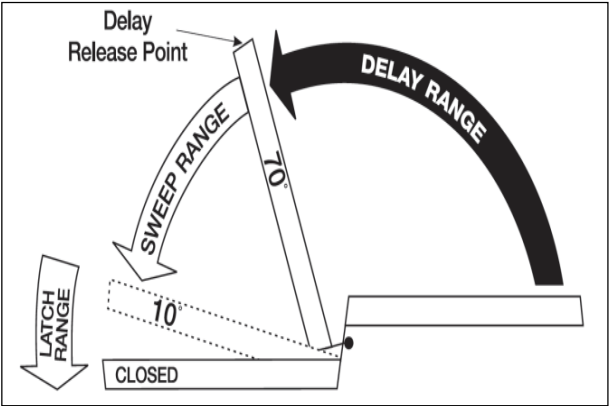
Available Color

- ALUMINUM(689)
- BRASS GOLD(696)
- DURO(690)

※ The actual product may differ from the color on the screen

<Standard Feature>

- For Heavy Duty
- Aluminum alloy Body
- Non-Handed
- Sweep and Latch Speed Control Valve
- Tri Pack & Plastic Cover
- Built in Back Check
- Sleeve Arm
- Plastic Cover(For K900) & Slim Cover(For K990)



●:STD ●:OPT O: Certified

Series	Model	Power	Door Size (mm)	Door Weight (KG)	Body Size (Hole Pattern) (mm)	Max Opening Angle(°)	Optional Feature				Certificate			
							DA	Metal Cover	Full Cover	Extra Option Arm	ANSI	UL	CE	KS
K900	K900	1~6	-	15~120	301.2X64.6X60.3 (282.6, 14.3)-3Hole (282.6, 19)-2Hole	180°					○ Grade1	○		
	K903	3	950 X 2100	45~65										
	K905	5	1200 X 2400	80~120										
	K907	7	1200 X 2500	120~150			●	●		●				○
	K909	9	1300 X 2500	150~180										
	K900BF	BF-4	-	10~85							○			
K990	K990	BF-6	-	15~120	325X59.9X52.2 (304.8, 19)						○ Grade1	○		
	K990BF		-	15~120			●		●	●				○

<Model Reference>

King	Cal Royal	Dorma	Dor-o-Matic	Hager	K2	LCN	Norton	PDQ	Sargent
K900	900	8600FC	SC80FC	5200	N/A	1460FC	8500	5100	1430
K990	8015	8616	SC80	5200	D-3550	1460	8301	5300	

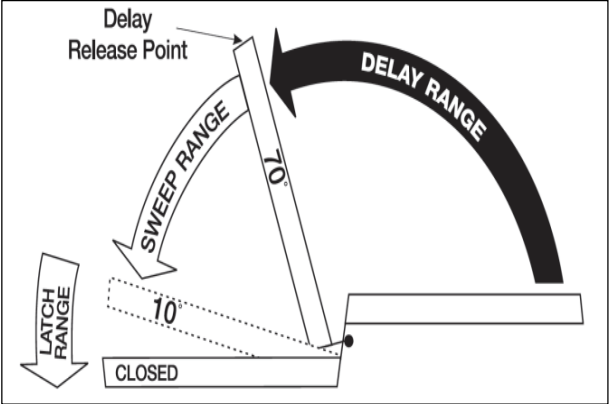
NK5051 Series



Available Color

- ALUMINUM(689)
- BRASS GOLD(696)
- DURO(690)

※ The actual product may differ from the color on the screen



●:STD ●:OPT O: Certified

Series	Model	Power	Door Weight (KG)	Body Size (Hole Pattern) (mm)	Basic Opening Angle(°)	Optional Feature			Certificate			
						DA	Metal Cover	Extra Option Arm	ANSI	UL	CE	KS
NK5051	NK5051	1~6	15~120	171.5X72X56.5 (25.4, 57.15)	120°				Grade1	○		○
	NK5051BF	BF-4	10~85			●	●	●				
	NK5051 BF-6	BF-6	10~120							○		

<Model Reference>

King	Cal Royal	Dorma	Dor-o-Matic	Hager	K2	LCN	Norton	PDQ	Sargent
NK5051	8015	8616	SC80	5200	D-3550	1460	8301	5300	1430



Standard Arm



Sleeve Arm



Cush Arm



Extra Duty Arm



Hold Open Extra Duty Arm



Hold Open Cush Arm



Slide Track Arm



Hold Open Arm (RF7)



Hold Open Arm For NK5051

ST Series



ST80

<Standard Feature For ST80>

- For Commercial Building(Heavy Duty)
- Applicable to Max 300KG
- Power Adjustable(EN3~6)
- Adjustable 3 Speed Control Valve
- DA & Mechanical BC



ST75

<Standard Feature For ST75>

- For Commercial Building(Medium Duty)
- Applicable to Max 60KG
- Fixed Power(EN2,3)
- Adjustable 2 Speed Control Valve
- DA & Mechanical BC

●:STD ●:OPT ○:Certified

Series	Model	Power	Piston	Body Case Size(mm)	Door Weight (KG)	Max Opening Angle(°)	Speed Control Valve	Optional Feature		Certificate			
								Spindle	Offset Arm	ANSI	UL	CE	KS
ST80	ST80P	3~6	1 EA	341X78X 60	Max 300	175° with Offset 115° without Offset	3EA - Closing 175~80° 80~15° - Latch 15~0°	● Adjustable height(5mm) Basic Spindle 3mm	●	○ Grade1	○	○	
	ST84	4											
	ST85	5											
	ST86	6											
ST75	ST75	3		285X82X 50	Max 60		2EA - Closing 175~15° - Latch 15~0°			○ Grade1		○	

<Model Reference>

King	Dorma
ST80P	BTS80
ST75	BTS75

K9000, K8000 Series



K9000



K8000

<Standard Feature For K9000>

- For Commercial Building
- Applicable to Max 240KG
- 2 Piston Structure for High performance
- Adjustable 2 Speed Control Valve
- Hold Open(90°, 115°)

<Standard Feature For K8000>

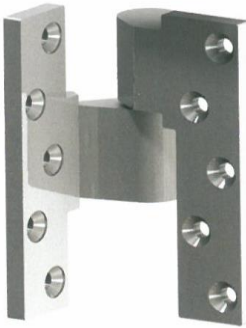
- For Commercial Building
- Applicable to Max 150KG
- Adjustable Speed Control Valve
- Hold Open(90°, 115°)

●: STD ●: OPT O: Certified

Series	Model	Power	Piston	Body Case Size(mm)	Door Weight (KG)	Max Opening Angle(°)	Speed Control Valve	Optional Feature			Certificate			
								Both Side Non Stop	One Side Non Stop	One Side Stop	ANSI	UL	CE	KS
K9000	K9400	4	2 EA	1050X2400	80~120	175° with Offset 115° without Offset	2EA - Closing 90~15° - Latch 15~0°							O
	K9500	5		1200X2400	100~150									
	K9700	7		1300X2700	150~240									
K8000	K8200	2	1 EA	900X2100	40~65	120°	1EA - Closing 90~15° - Latch 15~0°	●	●	●				
	K8300	3		950X2100	60~85									
	K8400	4		1050X2400	80~120									
	K8500	5		1200X2400	100~150									



K195



K19

Specification	K195
Door size	$\leq 1,219\text{ mm}$ / $\leq 2,300\text{ mm}$) (Over K19 Extra Installation)
Max. Door Weight	200 KG (Over K19 Extra Installation)
Max. opening angle	180°
Material	Stainless Steel (STS304)
Certificate	ANSI Grade 1

KSA
ISO 9001 CERTIFIED

BHMATM
CERTIFIED
Be Safe. Be Secure. Look for the Mark.



ANSI 156.4
Grade 1

NK5051
K900
K990
NSK800
K700
NSK600
ST80
ST75

EN1154
(1 hour fire rate)

NSK630
K730
NSK830
K730.BC
NSK830.BC
NSK630.BC
ST80
ST75

UL228
(File: R13255)

KCD34
K72
K700 Series
NSK600 Series
NSK800 Series
K90
K990
K900
NK5051
ST80
ST75

king
DOOR CLOSERS

SAMHWA PRECISION CO., LTD.
2-NA-801, 1262 JEONGWANG-DONG, SEONGSI-SI, KYUNGGI-DO, KOREA
TEL: 82-31-412-0100 • FAX: 82-31-497-8828-9
www.kingdoorcloser.com

CERTIFIED DOOR CLOSERS A156.4-2008

SERIES 2000 - MODERN TYPE WITH COVER

ANSI Type No.	PT 4 Options	Licensor's Catalog Designation
GRADE 1		
C0011	A.B.C.D.E.F.H	K-200, K-400, NSK-400, K-800, K-900 K-700, K-800, D86/800, NSK-400, NSK-800 NSK-900
C0021	A.B.C.D.E.F.H	K-200, K-400, NSK-400, K-800, K-900 K-700, K-800, D86/800, NSK-400, NSK-800 NSK-900
C0041	A.B.C.D.E.F.H	K-200, K-400, NSK-400, K-800, K-900 K-700, K-800, D86/800, NSK-400, NSK-800 NSK-900
C0061	A.B.C.D.E.F.H	K-200H, K-400H, NSK-400H, K-800H, K-900H K-700H, K-800H, NSK-400H, NSK-800H NSK-900H
C0081	A.B.C.D.E.F.H	K-200H, K-400H, NSK-400H, K-800H, K-900H K-700H, K-800H, NSK-400H, NSK-800H NSK-900H
C0091	A.B.C.D.E.F.H	K-200H, K-400H, NSK-400H, K-800H, K-900H K-700H, K-800H, NSK-400H, NSK-800H NSK-900H
C0211	A.B.C.D.E.F.H	K-200T, K-400T, NSK-400T, K-800T, K-900T K-700T, K-800T, NSK-400T, NSK-800T NSK-900T
C0221	A.B.C.D.E.F.H	K-200TH, K-400TH, NSK-400TH, K-800TH, K-900TH K-700TH, K-800TH, NSK-400TH, NSK-800TH NSK-900TH

Certificate of Constancy of Performance

0359-CPR-00009-03

Intertek

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation), this certificate applies to the construction products.

Product(s): Controlled door closing devices - K33 Series (refer to attached appendix for details and conditions)
Produced by or for: ASSA ABLOY KOREA Co., Ltd Samhwa Precision, Sihwa Industrial Complex 2 Na-801 234 Hwanggangwon-ro, Sheung-si, Gyeonggi-do, Korea 15083
Produced in the manufacturing plant(s): ASSA ABLOY KOREA Co., Ltd Samhwa Precision, Sihwa Industrial Complex 2 Na-801 234 Hwanggangwon-ro, Sheung-si, Gyeonggi-do, Korea 15083
Intended use: On fire and smoke compartmentation doors (to fulfil the self-closing requirement of such doors)
This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s):
EN 1154:1996/A1:2002/AC:2006
Under system 1 are applied and that the product(s) fulfils all the prescribed requirements set out above.

This certificate was originally issued under CPD (BS/ISO/IEC) on 10th March 2010 and had been re-issued on 2nd June 2015 and on 20th July 2016 under CPR (305/2011) and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body.

The signed document and statement(s) herein makes reference only to a presumption of conformity in accordance with the CPR Regulation EU 305/2011 (as amended). However, it is the manufacturer's or their authorised representative's sole responsibility to affix the CE logo and, by doing so, confirm full compliance and conformity to all other European mandatory directives and regulations that may also apply.
Intertek Testing & Certification Limited
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David England
Certification Manager
Date: 20 July 2016
Issue: 3

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Page 1 of 3



2015-10-30

SAMHWA PRECISION CO LTD

Mr. Eric Kwon
Sihwa Industrial Complex 2 Na 801, 1262 Jeongwang Dong
Seongsi Si, Kyonggi Do
KOREA

Your Reference: File BH21, Project No. 476870765

Your Reference: Eric Kwon, Samhwa Precision Co Ltd

Subject: CTS Evaluation of Door Closer, Model NK5051.BC.DA.Power 4; 1-4, Grade1 (PT1, PT40, PT45, PT46), in accordance with ANSI/BHMA A156.4

Dear Mr. Eric Kwon

Any information and documentation involving (U) Mark services are provided on behalf of (U) (U) or any authorized licensee of UL.

All testing work associated with project number 476870765, file name BH21 has been completed. Please see the attached data results.

Please be informed that UL neither selected the samples nor determined whether the samples were representative of production samples. The test results apply only to the actual samples tested.

The issuance of this report in no way implies Listing, Classification or Recognition by UL, and does not authorize the use of UL Listing, Classification or Recognition Marks or any other reference to UL on or in connection with the product or system. This test report and data are intended solely for your internal use. You cannot use the test data or UL's name or marks in connection with any product, packaging, advertising, promotion or marketing without UL's prior written permission.

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TEST STANDARD:

Per customer's specifications, using the following standards as a guideline: ANSI/BHMA A156.4 - 2013, "American National Standard for Door Closers - Closers".

SAMPLES:

The samples were identified by the client as Surface Mounted Door Closer, Model NK5051, Size 1-4.

TEST DATE: 2015-05-26 to 2015-10-30

Feature	Detail
BC(BACK CHECK)	It is function(Feature) to protect collision damage behind door by cushioning door's opening speed at approximate 70 degree in opening cycle
DA(DELAY ACTION)	It is delay function to support passengers' traffic without door's interference by making it stopped at any point behind 70 degree in closing cycle. So It is very useful for slow moving traffic such as people on crutch, catering service at health care facilities.
BF(BARRIER FREE)	It meets ADA regulation(ANSI A117.1) with lighter powered spring to allow low opening resistance for disabled people and has appropriate product specification for them.
Closing(SWEEP)	It is closing cycle from maximum opening to approximately 15 degree by sweep speed control valve(1 st control valve).
LATCH	It is closing cycle from approximately 15 degree down to the door's fully closed position by latching speed control valve(2 nd control valve).
HOLD OPEN	It is holding function to firmly open the door at pointed angle (Ex 90 degree and 180 degree).



ASSA ABLOY is the global leader
in door opening solutions,
dedicated to satisfying end-user needs
for security, safety and convenience



ASSA ABLOY KOREA Samhwa Precision Co., Ltd

ASSA ABLOY Group Company

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