

king
ASSA ABLOY

K990 series Door Closer



Samhwa Precision Co., Ltd./Korea
An ASSA ABLOY Group Company

The global leader in door opening solutions

K990 series Door Closer

Overview

Features

- Aluminum Alloy Body
- Standard, separate and independent, latch, sweep and back-check intensity valve
- Non-handed
- Tri-packed
- Rack-and-pinion design
- 32mm diameter piston
- 16mm diameter pinion journals.
- 53mm projection.
- All standard arm applications (with slim, full covers) allow doors to swing 180 degrees, conditions permitting.
- 10-year limited warranty

Optional Features






- Delayed action
- Slide Tracks : push or pull side mounting

Colours Available

- AL : Aluminum
- BZ : Hardware Bronze (Gold)
- DU : Storefront Bronze

Compliance Standards

- ANSI/BHMA A156.4, Grade1 certified 
- UL listed
- ADA compliant 

Model No	CLOSER CONTROLS			HOLD OPEN	REMARKS
	Latching	Back-Check	Delayed Action		
K-990	●	-	-		
K-990BF 	●	-	-		
K-990BC	●	●	-	-	
K-990BF.BC 	●	●	-	-	
K-990BC.DA	●	●	●	-	
K-990BF.BC.DA 	●	●	●	-	
K-990S	●	-	-	●	WITH OPTIONAL HOLD OPEN ARM
K-990S.DA	●	-	-	●	
K-990S.BC	●	●	-	●	
K-990S.BF.BC 	●	●	-	●	
K-990S.BC.DA	●	●	●	●	
K-990S.BF.BC.DA 	●	●	●	●	

Contents

Overview-----	2
Features-----	3
Optional Features-----	3-4

K990 series Door Closer

Features

Aluminum Alloy Body

Closer bodies are constructed of special aluminum alloy, carefully selected to accommodate interactive steel component and operation conditions.

Rack & Pinion Operation

Provides a smooth constant control of the door through its full opening and closing cycle. 180° door swing can be achieved when door, frame, hardware and arm function do not interfere

Non-handed

With few exceptions all series 990 door closers are non-handed and can be installed on either right or left hand swing doors. Pinion shaft extends vertically through the closer body in both directions.

Sweep Speed Control Valve

Allows adjustment of door speed from the door's full open position down to approximately 10° from the closed position.

Latch Speed Control Valve

Allows adjustment of door speed from approximately 10° down to the door's fully closed position.

Tri-Packed

K990 series come with screws, brackets and soffit plates to allow for regular, top jamb, and parallel arm installations.

Adjustable Back-check Valve

Provides control of the door in the opening cycle, beginning at approximately 75° of door opening. it cushions the door opening when the door is forcibly opened beyond its pre-adjusted limits.

Standard Molded Cover

Molded high impact material. These covers are non-handed for all applications.

Multi-Sized Door Closer

Adjustable through the power range of sizes 1 through 6.

The series K990 also conforms to the minimum opening force requirements of the ADA and ANSI/BHMA standard A117.1 for interior doors.

Warranty

Limited ten-year warranty for defects and life of the building on the aluminum body.

Compliance Standards

ANSI/BHMA A156.4, Grade1 certified. UL listed.

Optional Features - Cover

Slim Cover



Optional

Full Cover



Standard

K990 series Door Closer

Optional Features – DA

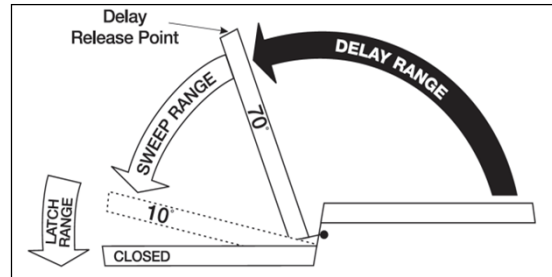
Adjustable Delayed Action Closing

An optional hydraulic feature that add a third speed range to closing cycle. This feature becomes effective when the door is opened and released at any point beyond 70°. The amount of time delay depends upon the combination of the angle of door released and valve adjustment. The valve can be adjusted with 4mm hex key from no delay time up to maximum delay times of :

Door opened	Approximate Time of Delay Cycle
180°	4~5 minutes
120°	2~3 minutes
90°	25~30 seconds

Pressure Relief Safety Valve

The delayed action hydraulic system contains a pressure relief valve. Any time the door is forced toward the closed direction while it is in the closing cycle, the valve will open and permit the door to close. This prevents damage to door, frame and closer.



Suggested Application

Delayed action closing allows slow-moving traffic to clear the opening before the door closer's normal closing cycle begins. This feature can be helpful in health care facilities such as hospitals and nursing homes. It provides sufficient time for persons on crutches or in wheelchairs to pass through a door without concern of closing. At the same time, it can accommodate the facility's staff with movement of food service carts, bed, and other wheeled traffic.

Use of delayed action closers on many doors throughout industrial and commercial buildings can also assist the flow of traffic. Locations where additional time to clear the opening is advantageous are doors between office, doors to workshops or laboratories, kitchens and food processing area.

Optional Features – Arm

Non-Hold Open

Self-closes door every time door is opened.
Auxiliary stop (by others) required.

Hold Open

Achieved by means of friction.
Friction hold open has a range of 90° to 180° using a template location and mechanical adjustment.

Model		Adjustable spring sizes	Weight of Door (Kg)
Non-Hold Open	Hold Open		
K-990	K-990S	1 ~ 6.	15~120
K-990BF	K-990S.BF	1/2 ~ 4.	10~85

Hold open arm door closers are not permitted to be use on fire door assemblies.



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For a complete listing of products and applications please visit
our web site.

www.kingdoorcloser.com

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