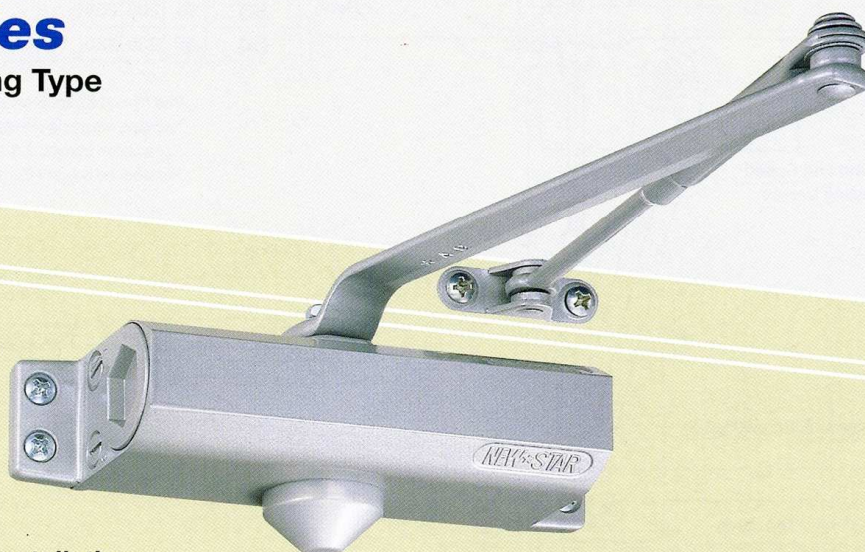


DOOR CLOSERS

80 Series

Surface Mounting Type



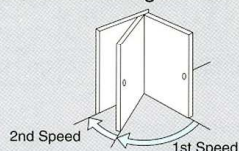
Standard Installation

Right-hand application shown.

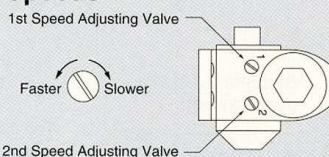
Door Closing Speed Adjustment

Closing Speed Adjusting Valves

Trouble-free adjusting of speeds by simply turning the speed adjusting valves to the right or left.

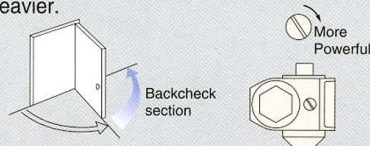


Adjustment of 1st and 2nd Speeds



Backcheck Function (Optional)

This function uses hydraulic pressure to prevent the door from opening rapidly when a strong wind or external force is imposed in the opening direction of the door. You can open the door slowly in the backcheck section though the opening force is felt a little heavier.



There is the right and left hand for 185,186

Parallel Installation



Colors

- Silver (N-01)
- Burnt Umber (N-52)

- A horizontal door closer refined by continued research into a product of the finest quality.
- Different models to fit different door sizes. Each of these models is available for either standard installation or parallel installation.
- Further, a choice can be made between a closer with or without a hold-open device.
- Simple inversion of the main body (turning upside-down) allows installation on both right and left hand doors.
- An adjustable hold-open range of 70° to 180° is available to parallel installation and that of 70° to 120° is available to standard installation.
- Models 81 and 181 allow a maximum door opening angle of 150°.

Model Number				Applicable Door Dimensions DW×DH mm	Maximum Door Weight kg
Standard Installation		Parallel Installation			
Without Hold-open	With Hold-open	Without Hold-open	With Hold-open		
81	181 The maximum hold-open angle is 120°	P-81	P-181	800×1800	30
82	182	P-82	P-182	900×2100	45
83	183	P-83	P-183	950×2100	65
84	184	P-84	P-184	1050×2400	85
85	* 185	P-85	P-185	1200×2400	120
86	* 186	P-86	P-186	1800×2700	180

(Note) • In the case of standard installation, the maximum hold-open angle is 120°. (180° for parallel installation.)
 • For installation on fire doors, select a closer with a temperature fuse.
 • Those models marked with an asterisk (*) are handed.