Overhead Door Closer

KENWA
http://www.kenwa.co.jp

NHN® 80V SERIES

CE Tested to EN1154 and fire tested to EN1634-1

The New NHN 80V Series offers a comprehensive range of hydraulic, power adjustable door closers to suit all applications.

The New NHN 80V Series of door closers incorporates the latest engineering technology to provide three power adjustable (by allen key) door closers.
Successfully awarded EN1154, EN1634-1 and CE Certifications, the NHN 80V Series is backed up with a 10 years 'No Quibble' guarantee.

FEATURES

- 83V for sizes 2-4, 85V for sizes 3-6 and a heavy duty 87V for sizes 6 & 7.
  See the selection chart below for the full range and applications.
- Backcheck and delayed action functions available.
- Easy installation and adjustment.
- Comprehensive range of accessories
- Slimline body.
- Non-handed.

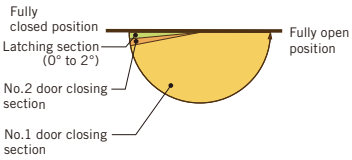
SELECTION CHART

<table>
<tr><th rowspan="2">Power size (EN)</th><th rowspan="2">Door width (mm)</th><th rowspan="2">Door weight (kg)</th><th colspan="5">83V SERIES</th><th colspan="5">85V SERIES</th><th colspan="5">87V SERIES</th></tr>
<tr><th>REGULAR</th><th>HOLD OPEN</th><th>BACK CHECK</th><th>DELAYED</th><th>SLIDE ARM</th><th>REGULAR</th><th>HOLD OPEN</th><th>BACK CHECK</th><th>DELAYED</th><th>SLIDE ARM</th><th>REGULAR</th><th>HOLD OPEN</th><th>BACK CHECK</th><th>DELAYED</th><th>SLIDE ARM</th></tr>
<tr><td>2</td><td>850</td><td>40</td><td rowspan="3">83V</td><td rowspan="3">183V</td><td rowspan="3">83V-BC</td><td rowspan="3">83V-DA</td><td rowspan="2">83V-GL</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td></tr>
<tr><td>3</td><td>950</td><td>60</td><td>–</td><td>–</td><td>–</td><td>–</td><td rowspan="3">85V-GL</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td></tr>
<tr><td>4</td><td>1100</td><td>80</td><td>–</td><td rowspan="3">85V</td><td rowspan="3">185V</td><td rowspan="3">85V-BC</td><td rowspan="3">85V-DA</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td></tr>
<tr><td>5</td><td>1250</td><td>100</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td rowspan="2">87V-GL</td></tr>
<tr><td>6</td><td>1400</td><td>120</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td rowspan="2">87V</td><td rowspan="2">187V</td><td rowspan="2">87V-BC</td><td rowspan="2">87V-DA</td></tr>
<tr><td>7</td><td>1600</td><td>140</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td></tr>
</table>

FUNCTION

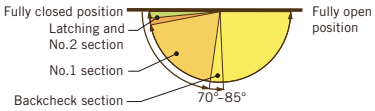
Latching function (standard)

This function accelerates the door in the final 2° of closing, in order to overcome any resistance such as seals, latch bolts etc. This provides a secure and complete closure of the door.



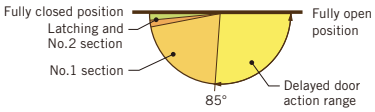
Back-check function (optional)

This function is built into the door closer body and checks the outward swing of the door. Most suited where the opening door might hit a wall i.e. in a corridor, or where it could injure someone if opened too quickly. It is recommended for use on externally opening doors in windy environments. The backcheck function works between 70° & 85°.
The backcheck strength can be adjusted by turning the backcheck valve screw located on the end of the closer body. IT SHOULD NOT BE REGARDED AS A DOOR STOP !



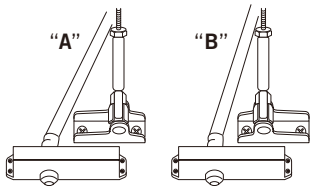
Delayed door closing function (optional)

This function reduces the closing speed of the door to allow passers-by sufficient time to pass through the door opening i.e. people in wheelchairs, hospital staff with beds, elderly people etc. The maximum delay of 90 seconds is achieved from the 180° (the fully open angle) thru to 85°. After which the normal closing process takes effect to provide a secure and complete closure of the door. The duration of the delay can be adjusted via the delayed valve screw located next to the spindle.



ADJUSTMENT

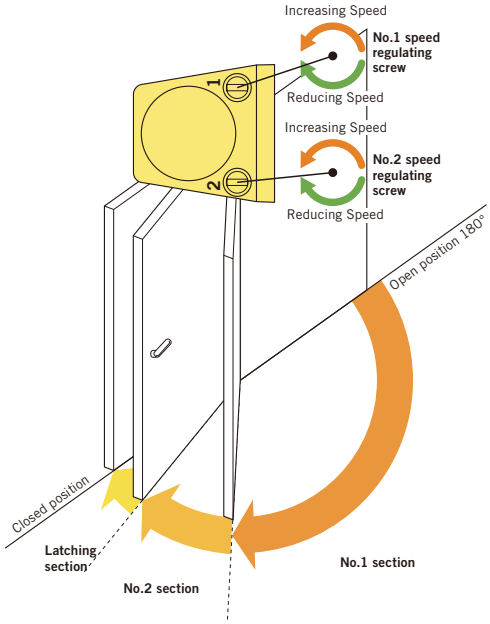
Force adjustment



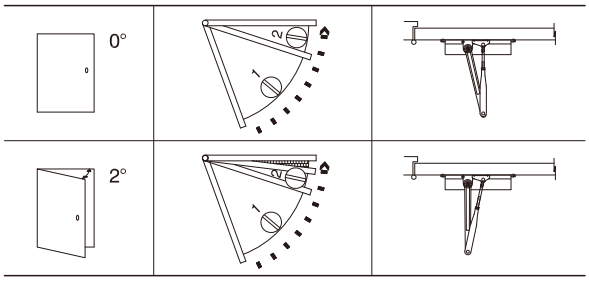
Installation "A"
Decreases the closing force by about 10% for the first 4° of opening and final 4° of closing.

Installation "B"
Increases the closing force by about 10% for the first 4° of opening and final 4° of closing.

Closing speed adjustment

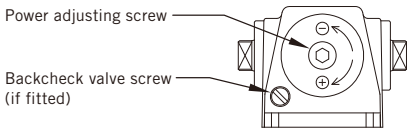


Latching angle adjustment



Spring power adjustment

Turn the 'Power Adjusting Screw' the required number of clockwise or anti-clockwise turns according to the door width as indicated in the chart. In adverse weather conditions, increase the number of turns as required.



	Size (EN)	No. of turns	Direction	Max. opening angle
83V	2	6	–	180°
	3	0	*	180°
	4	3	+	180°
85V Fixing Position 1	3	0	*	180°
	4	1	+	180°
85V Fixing Position 2	5	0	*	180°
	6	4	+	130°
87V	6	5	–	130°
	7	0	*	130°

*Pre-set size at factory