D&E NHN 80VP series door closer

CI/SfB			
31	49		
June 2012			

'NO QUIBBLE' 10 YEARS GUARANTEE

D&E NHN 80VP Series door closer

The D&E NHN80VP series of door closers are a multi-size range of closers. It has successfully been type tested to BS EN 1154 and BS EN 1634-1 and is accredited with CE certification where applicable. All models are supplied complete with a parallel shoe to enable standard arm and parallel arm installations without dropping in performance.

TESTED TO EN1154

FIRE TESTED TO EN1634-1

DENHN83VP	*EN 2-4* - Fig 1/6 door closer	silver
DENHN183VP	*EN 2-4* - Fig 1/6 door closer with H/O	silver
DENHN83V-GL	*EN 1-3* - slide arm door closer with optional H/O	silver
DENHN83VP-BC	*EN 2-4* - Fig 1/6 door closer with BC	silver
DENHN183VP-BC	*EN 2-4* - Fig 1/6 door closer with BC & H/O	silver
DENHN83V-BC-GL	*EN 1-3* - slide arm door closer with BC & optional H/O	silver
DENHN83VP-DA	*EN 2-4* - Fig 1/6 door closer with DA	silver
DENHN183VP-DA	*EN 2-4* - Fig 1/6 door closer with DA & H/O	silver
DENHN183V-DA-GL	*EN 1-3* - slide arm door closer with DA & optional H/O	silver

Power adjustment: variable via a 5mm hex key.
Door weight: 40 - 80 Kgs.
Door width: 850 - 1100mm.

TESTED TO EN1154

FIRE TESTED TO EN1634-1

DENHN85VP	*EN 4-6* - Fig 1/6 door closer	silver
DENHN185VP	*EN 4-6* - Fig 1/6 door closer with H/O	silver
DENHN85V-GL	*EN 3-5* - slide arm door closer with optional H/O	silver
DENHN85VP-BC	*EN 4-6* - Fig 1/6 door closer with BC	silver
DENHN185VP-BC	*EN 4-6* - Fig 1/6 door closer with BC & H/O	silver
DENHN85V-BC-GL	*EN 3-5* - slide arm door closer with BC & optional H/O	silver
DENHN85VP-DA	*EN 4-6* - Fig 1/6 door closer with DA	silver
DENHN185VP-DA	*EN 4-6* - Fig 1/6 door closer with DA & H/O	silver
DENHN185V-DA-GL	*EN 3-5* - slide arm door closer with DA & optional H/O	silver

Power adjustment: variable via a 5mm hex key.
Door weight: 80 - 120 Kgs.
Door width: 1100 - 1400mm.

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TESTED TO EN1154

FIRE TESTED TO EN1634-1

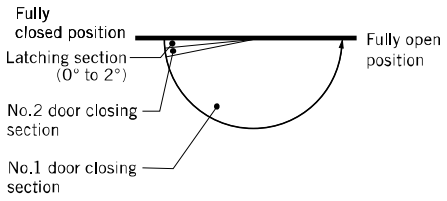
DENHN87VP	*EN 6/7* - Fig 1/6 door closer	silver
DENHN187VP	*EN 6/7* - Fig 1/6 door closer with H/O	silver
DENHN87V-GL	*EN 5/6* - slide arm door closer with optional H/O	silver
DENHN87VP-BC	*EN 6/7* - Fig 1/6 door closer with BC	silver
DENHN187VP-BC	*EN 6/7* - Fig 1/6 door closer with BC & H/O	silver
DENHN87V-BC-GL	*EN 5/6* - slide arm door closer with BC & optional H/O	silver
DENHN87VP-DA	*EN 6/7* - Fig 1/6 door closer with DA	silver
DENHN187VP-DA	*EN 6/7* - Fig 1/6 door closer with DA & H/O	silver
DENHN187V-DA-GL	*EN 5/6* - slide arm door closer with DA & optional H/O	silver

Power adjustment: variable via a 5mm hex key.
Door weight: 120 - 140 Kgs.
Door width: 1400 - 1600mm.

Supplied complete with fixing screws for timber and steel doors and full installation instructions.

Other finishes are available to order but may be subject to quantity
Covers to suit any of these models page D-1007

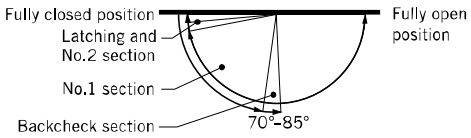
Functions:



Latching action:

This is the acceleration of the door in the final 2°of closing. It is designed to overcome any resistance caused by seals, latch bolts etc… This also provides the complete and secure closure of the door.

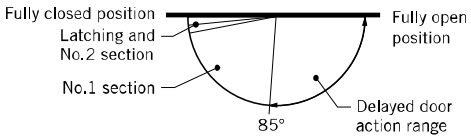
Backcheck:



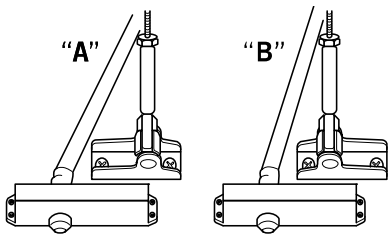
This is the checking of the outward opening door. This function works between 70° & 85°. This function on a closer is designed for use where the opening door might hit a wall for example in a corridor. Other recommended installations are on externally opening doors that may be subject to wind, or where the door might injure someone if it was opened too quickly.
The backcheck strength can be adjusted via the 'backcheck valve screw' located on the end of the closer body.

NOTE: THE BACKCHECK FUNCTION SHOULD NOT BE REGARDED AS A DOOR STOP!

Delayed Action:



This is the slowing down of the closing speed. This function is designed to allow people sufficient time to pass through the door opening i.e wheel chair users, the elderly, hospital staff with beds etc… The maximum delay of 90 seconds is achieved between 180° thru to 85°, after which the normal closing process takes effect to provide the complete and secure closing of the door.
The delay can be adjusted via the 'delayed action valve screw' located on the closer body next to the spindle.



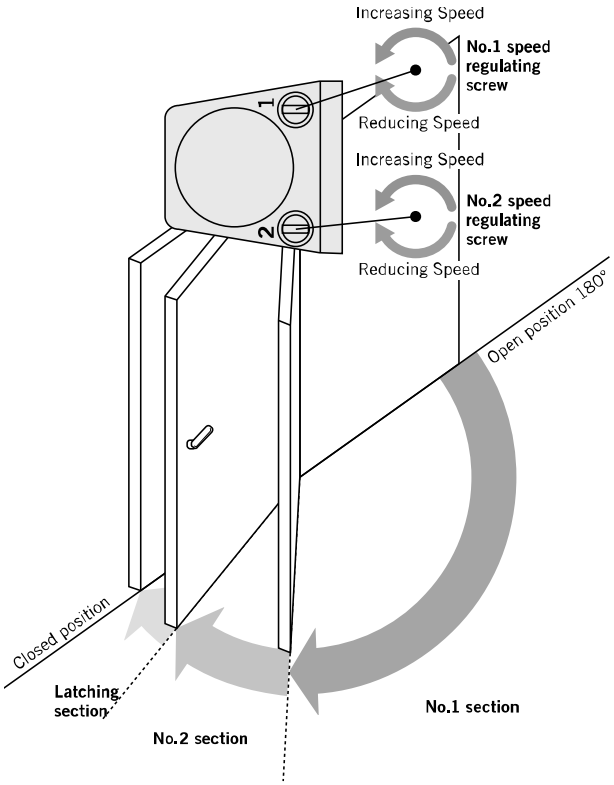
Force adjustment:

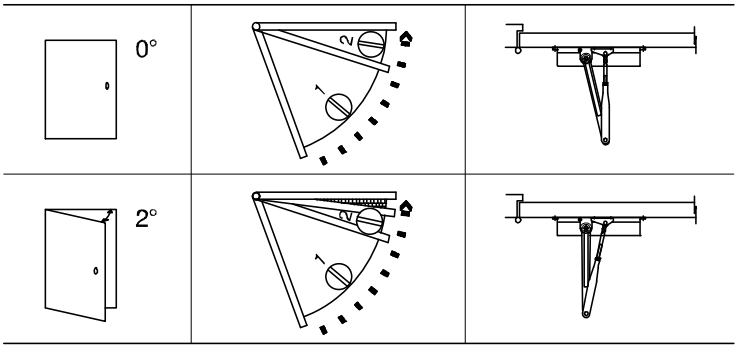
Installation "A" Decreases the closing force by about 10% for the first 4° of opening and the final 4° of closing.

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

D&E NHN 80VP Series door closer

Latching angle adjustment.

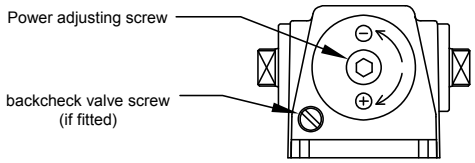




Spring power adjustment:

Turn the 'power adjusting screw' the required number of clockwise or anti-clockwise according to the door width as indicated in the chart below.

Installations which are subject to adverse weather conditions, increase the number of turns as required.



Model	Size (EN)	No. of turns	Direction	Max. opening angle
NHN83VP	2	6	-	180°
	3	0	☼	180°
	4	3	+	180°
NHN85VP (Fixing Position 1)	3	0	☼	180°
	4	1	-	180°
NHN85VP (Fixing Position 1)	5	0	☼	180°
	6	4	+	130°
NHN87VP	6	5	-	130°
	7	0	☼	130°

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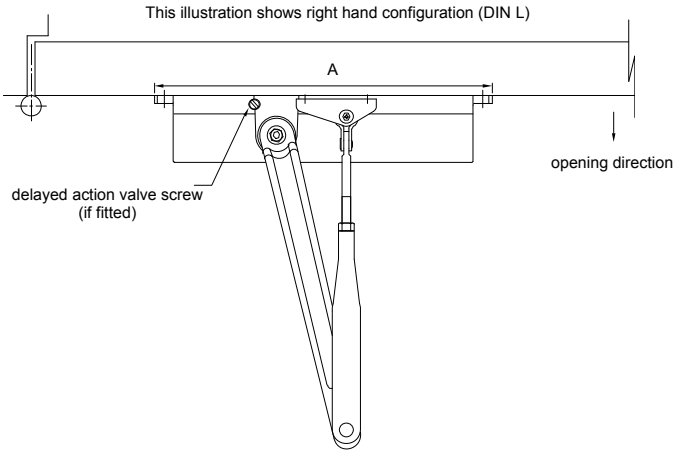
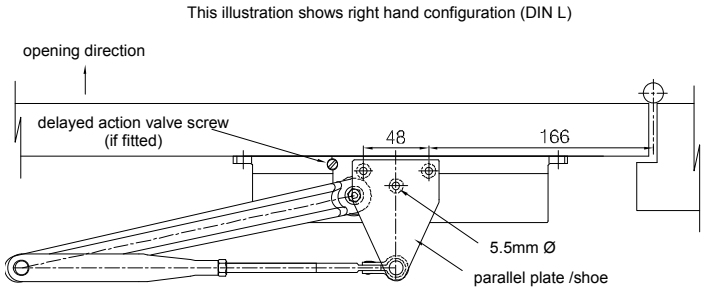
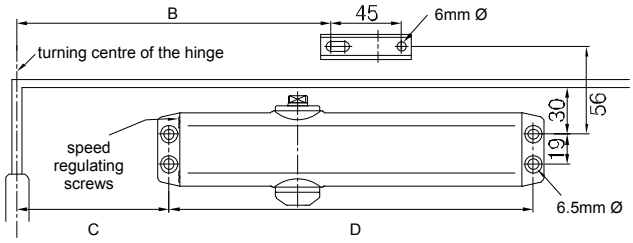
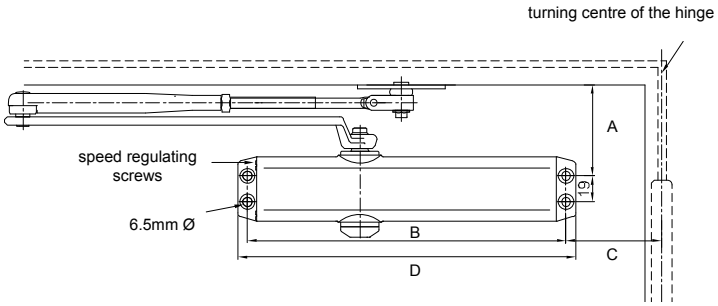
Standard arm installation

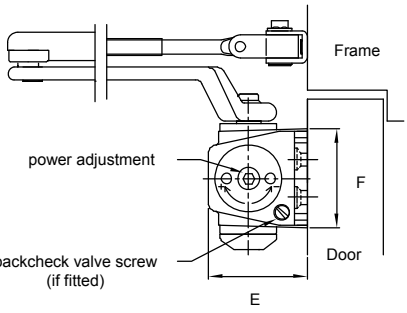


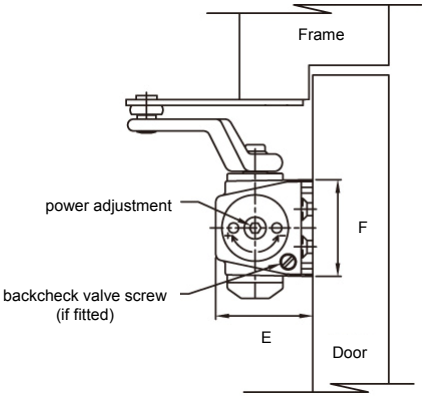
Parallel arm installation











Model	A	B	C	D	E	F
NHN83VP	246	200	97	232	49	49
NHN85VP (Fixing Position 1)	282	210	55	268	55	52
NHN85VP (Fixing Position 2)			90			
NHN87VP	282	210	90	268	55	52

Model	A	B	C	D	E	F
NHN83VP	246	200	97	232	49	49
NHN85VP & NHN87VP	282	210	90	268	55	52

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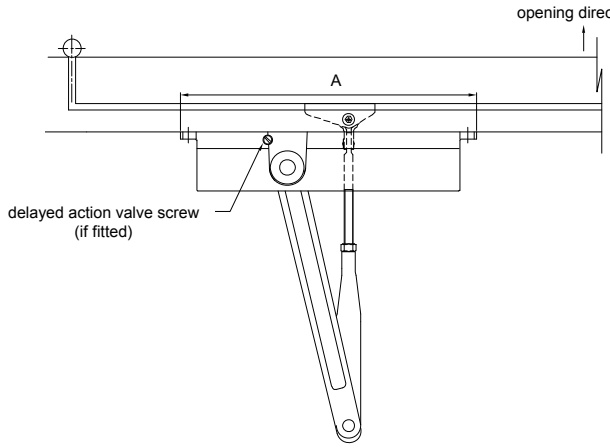
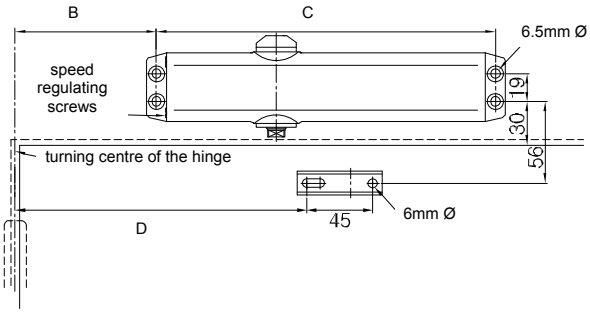
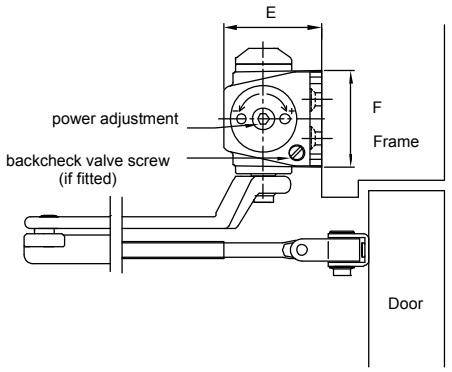
Top jamb installation

This illustration shows right hand configuration (DIN L)

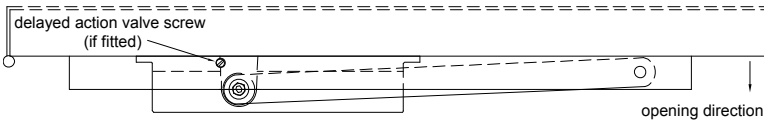


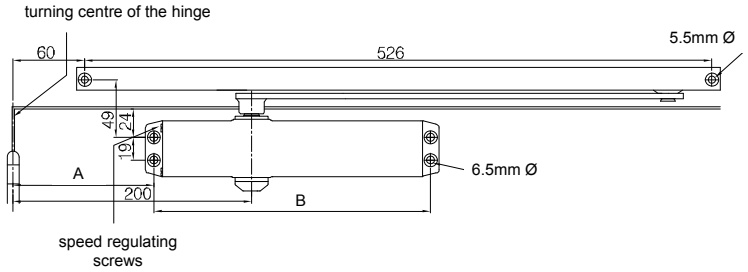


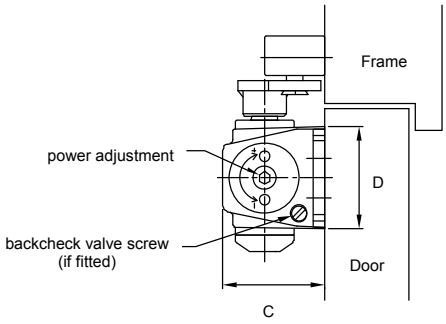


Slide arm installation

This illustration shows right hand configuration (DIN L)







Model	A	B	C	D	E	F
NHN83VP	246	97	232	200	49	49
NHN85VP (Fixing Position 1)	282	55	268	210	55	52
NHN85VP (Fixing Position 2)		90				
NHN87VP	282	55	268	210	55	52

Model	A	B	C	D
NHN83V-GL	118	232	49	49
NHN85V-GL & NHN87V-GL	108	268	55	52

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