CI/SfB 31 49 June 2012



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.



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 EN 4-6 - Fig 1/6 door closer with H/O DENHN185VP 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.

Sales: 01733 896123



CI/SfB 31 49 June 2012

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

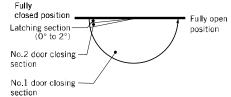
Power adjustment: variable via a 5mm hex key.

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

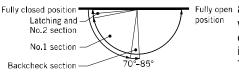
Functions:



Fully open 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:



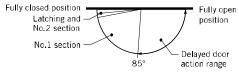
This is the checking of the outward opening door. This function works between 70° & 85°. This function on a closer is designed for use where the opening door might hit a wall for example in a corridor. Other recommended installations are on externally opening doors that may be subject to wind, or where 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

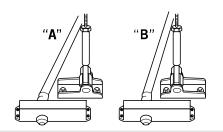
DOOR STOP!

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.

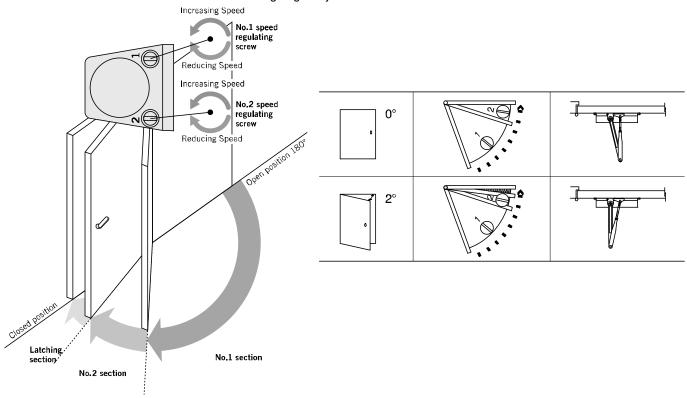
Installation "B" Increases the closing force by about 10% for the first 4° of opening and the final 4° of closing.

Sales: 01733 896123



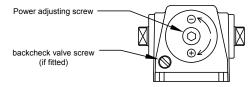
CI/SfB		
31	49	
June 20	12	

Latching angle adjustment.



Spring power adjustment:

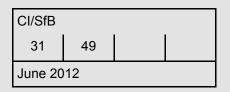
Turn the 'power adjusting screw' the required number of clockwise or anti-clockwise according to the door width as indicated in the chart below.



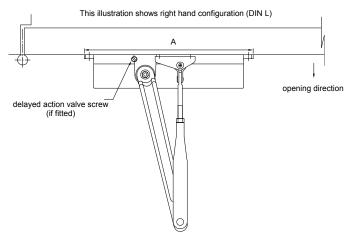
Model	Size (EN)	No. of turns	Direction	Max. opening angle
	2	6	-	180°
NHN83VP	3	0	≎	180°
	4	3	+	180°
NUNIOEN/D /Fining Desition (1)	3	0	≎	180°
NHN85VP (Fixing Position 1)	4	1	-	180°
NHN85VP (Fixing Position 1)	5	0	₩	180°
MINOSVE (LIXING FOSILION 1)	6	4	+	130°
NHN87VP	6	5	-	130°
	7	0	☼	130°

Sales: 01733 896123

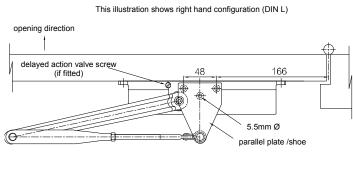




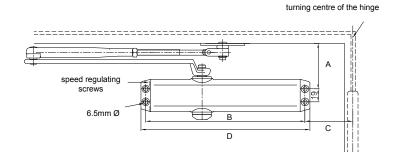
Standard arm installation

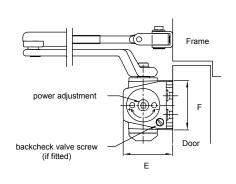


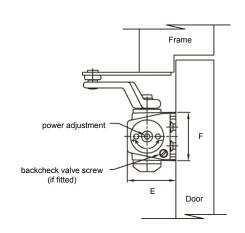
Parallel arm installation



turning centre of the hinge

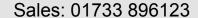




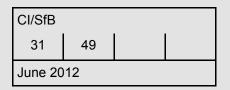


Model	Α	В	С	D	Е	F
NHN83VP	246	200	97	232	49	49
NHN85VP (Fixing Position 1)	282	210	55	268	55	52
NHN85VP (Fixing Position 2)	202	210	90	200	55	52
NHN87VP	282	210	90	268	55	52

Model	Α	В	С	D	Е	F
NHN83VP	246	200	97	232	49	49
NHN85VP & NHN87VP	282	210	90	268	55	52





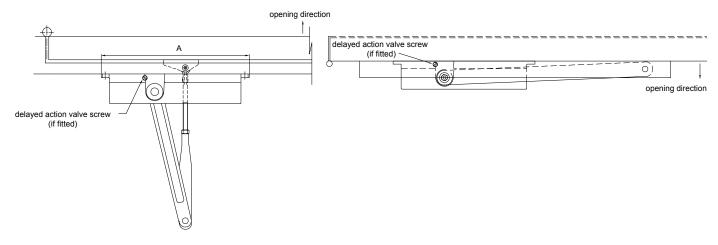


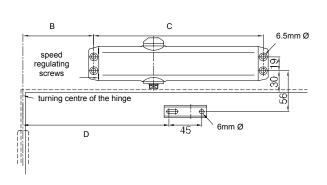
Top jamb installation

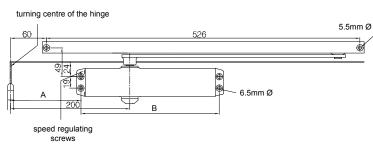
Slide arm installation

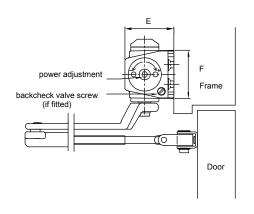
This illustration shows right hand configuration (DIN L)

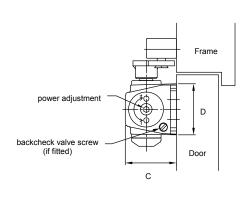
This illustration shows right hand configuration (DIN L)











Model	Α	В	С	D	E	F
NHN83VP	246	97	232	200	49	49
NHN85VP (Fixing Position 1)	282	55	268	210	55	52
NHN85VP (Fixing Position 2)	202	90	200	210	55	52
NHN87VP	282	55	268	210	55	52

Model	Α	В	С	D
NHN83V-GL	118	232	49	49
NHN85V-GL & NHN87V-GL	108	268	55	52





CI/SfB 31 49 June 2012



80VP series drop plate - for use when the fixings for the door closer body falls below the top rail.

DEXDP1 drop plate to suit NHN83VP silver DEXDP4 drop plate to suit NHN85VP & NHN87VP silver



80VP series drop plate - for use when the fixings for the door closer body falls below the top rail.

DEXSB83VP NHN83VP soffit bracket silver NHN85VP & NHN87VP soffit bracket DEXSB85VP silver



NHN80VP series hold open arm.

DEXHO80VP/SI standard arm with hold open to suit

NHN83VP, NHN85VP & NHN87VP

silver



standard arm with hold open to suit

NHN83VP, NHN85VP & NHN87VP

silver



NHN80VP series soffit plate / parallel arm shoe.

DEXB80VP/SI fig 6 bracket silver DEXB80VP/WT fig 6 bracket white



NHN80VP series L-shape bracket - for use when the fixing position of the soffit plate / parallel arm shoe is not suitable - prime examples of this are PVCu & aluminium frames.

DEXLB80VP/SI silver fig 6 / L-shape bracket DEXLB80VP/WT fig 6 / L-shape bracket white DEXLB180VP/SI fig 6 / L-shape bracket for H/O model silver DEXLB180VP/WT fig 6 / L-shape bracket for H/O model white

Sales: 01733 896123



CI/SfB		
31	49	
June 20	12	

D&E NHN door closer covers

Designed to suit door closer models NHN83VP, NHN85VP & NHN87VP. The clip on facility offers a fast and effective method of fixing.



NOTE: Standard silver or RAL finish covers are only available square ends - as per image.



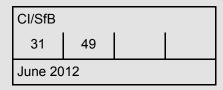
DENHN83VP/SRC/SSS door closer cover sat. stainless steel door closer cover pol. stainless steel DENHN85VP/SRC/SSS door closer cover sat. stainless steel

DENHN85VP/SRC/PSS door closer cover sat. stallness steel pol. stainless steel

NOTE: Stainless steel covers are only available as semi-radius ends.

Sales: 01733 896123







D&E NHN 400 door closer

The NHN 400 is a 2-5 variable multi-size door closer. It has successfully been type tested to EN1154:1997, EN 1634-1:2000 and is accredited with CE certification*.

Silver cover, flat arm & universal bracket

DENHN400U/SI2-5 universal door closersilverDENHN400BCU/SI2-5 universal door closer with BCsilverDENHN400HU/SI2-5 universal door closer with DAsilver

Silver cover & black flat arm & universal bracket

DENHN400U/SI/BK

DENHN400BCU/SI/BK

DENHN400HU/SI/BK

2-5 universal door closer with BC

2-5 universal door closer with BC

DENHN400HU/SI/BK

2-5 universal door closer with DA

silver / black arm

Power adjustment: via a 5mm hex key.

Door weight: 40 - 100 Kgs.

Door width: 850 - 1250mm.

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

A comprehensive range of accessories is available - please contact the sales team for any special requirements.











Sales: 01733 896123

D&E NHN 400GL slide arm door closer

The NHN 400GL is a 2-5 variable multi-size door closer. It has successfully been type tested to EN1154:1997, EN 1634-1:2000 and is accredited with CE certification*.

Silver body & silver arm

DENHN400/GL/SI2-5 slide arm door closersilverDENHN400BC/GL/SI2-5 slide arm door closer with BCsilverDENHN400H/GL/SI2-5 slide arm door closer with DAsilver

Power adjustment: via a 5mm hex key.

Door weight: 40 - 120 Kgs.

Door width: 850 - 1250mm.

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

A comprehensive range of accessories is available please contact the sales team for any special requirements.

^{*} CE certification does not apply to the DA models



D&E NHN 400 series 'Hi-Finish' door closer

CI/SfB			
31	49		
September 2007			



D&E NHN 400 door closer - 'Hi-Finish' Range

The NHN 400 is a 2-5 variable multi-size door closer. It has successfully been type tested to EN1154:1997, EN 1634-1:2000 and is accredited with CE certification*.

'Hi-Finish' cover, flat arm & universal bracket

DENHN400/PB	2-5 universal door closer	pol. brass
DENHN400/PNP	2-5 universal door closer	pol. nickel plated
DENHN400/SNP	2-5 universal door closer	sat. nickel plated
DENHN400/PSS	2-5 universal door closer	pol. stainless steel
DENHN400/SSS	2-5 universal door closer	sat. stainless steel

DENHN400BCU/PB	2-5 universal door closer with BC	pol. brass
DENHN400BCU/PNP	2-5 universal door closer with BC	pol. nickel plated
DENHN400BCU/SNP	2-5 universal door closer with BC	sat. nickel plated
DENHN400BCU/PSS	2-5 universal door closer with BC	pol. stainless steel
DENHN400BCU/SSS	2-5 universal door closer with BC	sat. stainless steel







'Hi-Finish' cover, black arm & universal bracket

in i mien eeren, blaen	arm a arm or oar braonot	
DENHN400/PB/BK	2-5 universal door closer	PB / black arm
DENHN400/PNP/BK	2-5 universal door closer	PNP / black arm
DENHN400/SNP/BK	2-5 universal door closer	SNP / black arm
DENHN400/PSS/BK	2-5 universal door closer	PSS / black arm
DENHN400/SSS/BK	2-5 universal door closer	SSS / black arm

DENHN400BCU/PB/BK	2-5 universal door closer with BC	PB / black arm
DENHN400BCU/PNP/BK	2-5 universal door closer with BC	PNP / black arm
DENHN400BCU/SNP/BK	2-5 universal door closer with BC	SNP / black arm
DENHN400BCU/PSS/BK	2-5 universal door closer with BC	PSS / black arm
DENHN400BCU/SSS/BK	2-5 universal door closer with BC	SSS / black arm

DENHN400H/PB/BK	2-5 universal door closer with DA	PB / black arm
DENHN400H/PNP/BK	2-5 universal door closer with DA	PNP / black arm
DENHN400H/SNP/BK	2-5 universal door closer with DA	SNP / black arm
DENHN400H/PSS/BK	2-5 universal door closer with DA	PSS / black arm
DENHN400H/SSS/BK	2-5 universal door closer with DA	SSS / black arm

Power adjustment: via a 5mm hex key.

Door weight: 40 - 100 Kgs.

Door width: 850 - 1250mm.

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

A comprehensive range of accessories is available - please contact the sales team for any special requirements.

Sales: 01733 896123

^{*} CE certification does not apply to the DA models

D&E NHN 400 series 'Hi-Finish' door closer

CI/SfB 31 49 September 2007

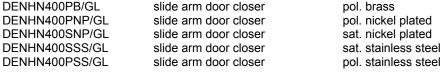


D&E NHN 400GL slide arm door closer

OUBEZO 10 YEARS GUARANTES The NHN 400GL is a 2-5 variable multi-size door closer. It has successfully been type tested to EN1154:1997, EN 1634-1:2000 and is accredited with CE certification*.



'Hi-Finish' cover & slide arm



DENHN400BC/PB/GL	slide arm door closer with BC	pol. brass
DENHN400BC/PNP/GL	slide arm door closer with BC	pol. nickel plated
DENHN400BC/SNP/GL	slide arm door closer with BC	sat. nickel plated
DENHN400BC/SSS/GL	slide arm door closer with BC	sat. stainless steel
DENHN400BC/PSS/GL	slide arm door closer with BC	pol. stainless steel

DENHN400H/PB/GL DENHN400H/PNP/GL	slide arm door closer with DA slide arm door closer with DA	pol. brass pol. nickel plated
DENHN400H/SNP/GL	slide arm door closer with DA	sat. nickel plated
DENHN400H/SSS/GL DENHN400H/PSS/GL	slide arm door closer with DA slide arm door closer with DA	sat. stainless steel pol. stainless steel

Power adjustment: via a 5mm hex key.

Door weight: 40 - 100 Kgs.

Door width: 850 - 1250mm.

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

A comprehensive range of accessories is available please contact the sales team for any special requirements.



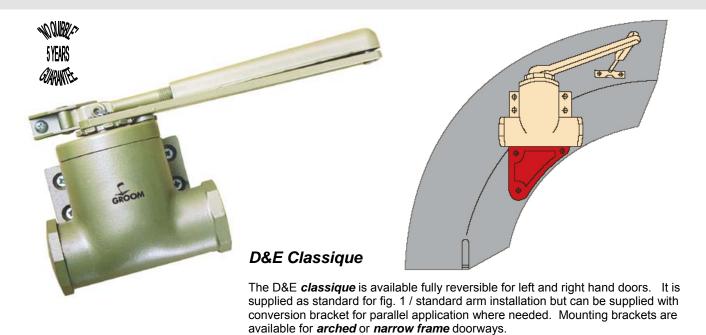
Sales: 01733 896123



^{*} CE certification does not apply to the DA models

D&E classique - T-shape door closer

CI/SfB 31 49 September 2007



DEGR03 size 3 - T-shape door closer champagne

Door width: 950mm Door weight: 60Kg

DEGR04 size 4 - T-shape door closer champagne

Door width: 1100mm Door weight: 80Kg

DEGR05 size 5 - T-shape door closer champagne

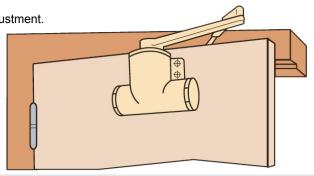
Door width: 1250mm Door weight: 100Kg

DEGR06 size 6 - T-shape door closer champagne

Door width: 1400mm Door weight: 120Kg

Integral backcheck as standard

Hydraulic valve speed adjustment.

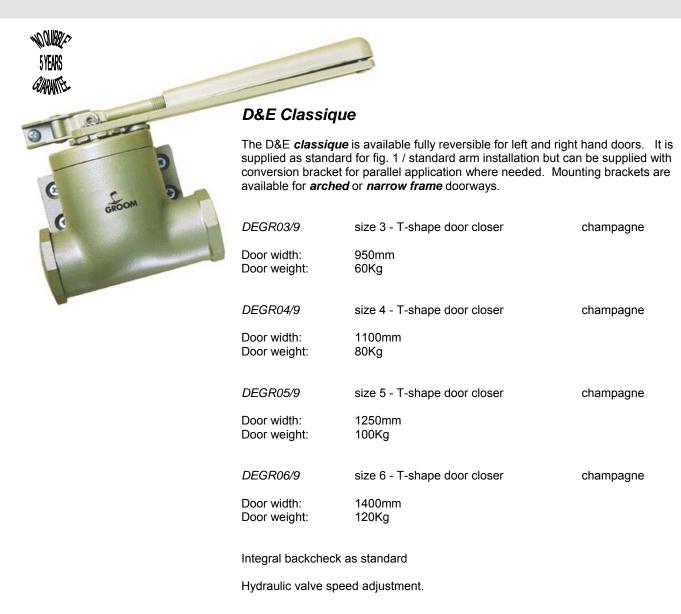


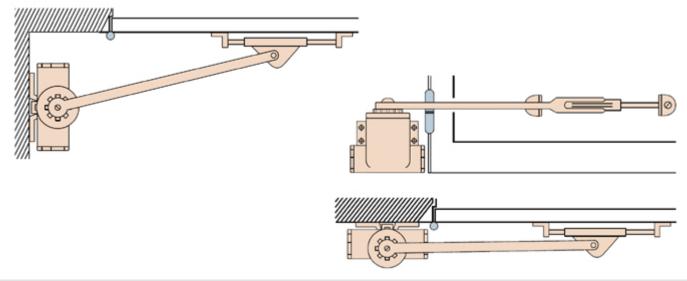
Sales: 01733 896123



D&E classique - T-shape door closer

CI/SfB 31 49 April 2008

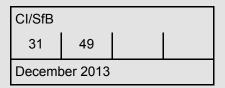




Sales: 01733 896123



D&E classique - accessories





Accessories:

D&E Classique curved head bracket.

The D&E Classique curved head bracket is designed to allow your Classique to be installed on arch top doors.

DEGR03CHB DEGR04CHB	curved head bracket for DEGR03 curved head bracket for DEGR04	champagne champagne
DEGR05CHB	curved head bracket for DEGR05	champagne
DEGR06CHB	curved head bracket for DEGR06	champagne

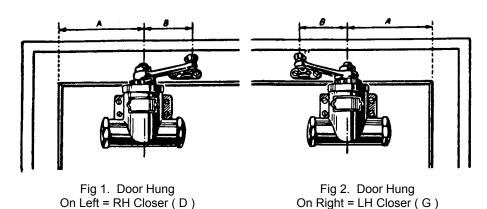
Most common applications for this product is in Cathedrals, Churches, Monasteries, stately homes, listed buildings, hotels and bars that wish to maintain traditional aesthetics.

Sales: 01733 896123



CI/SfB 31 49 December 2013

The Groom Classique is suitable for inward opening doors only



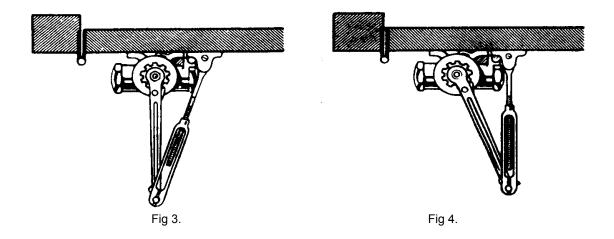
Dimension A, the distance from the centre line of the hinge to the pinion of the closer, varies according to the size of the closer and the required opening angle of the door.

Door Opening To 90⁰		Door Opening Beyond 90°		
Size	A	Size A		
3	240 mm	3	180 mm	
4	260 mm	4	200 mm	
5	310 mm	5	230 mm	
6	350 mm	6	290 mm	

Dimension B, the distance from the pinion of the closer to the centre of the shoe, is *ALWAYS* 80mm when installed in standard configuration.

<u>Adjustment</u>

- 1) Adjust spring power by using the wrench provided to turn the ratchet from the hinge side to the lock side (Maximum 8 clicks)
- 2) Adjust the closing power to overcome latching action or air pressure resistance, adjust the threaded of the arm to match Fig 3. Fig 4 will effectively delete any latching action.
- 3) Adjust closing speed via the hydraulic valve located on the right side of the closer body.



Sales: 01733 896123



D&E classique - installation instructions

CI/SfB
31 49 December 2013

Reversing The Handing

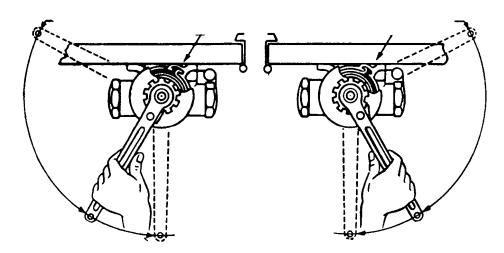


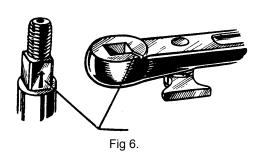
Fig 5a. Left Hand

Fig 5b. Right Hand

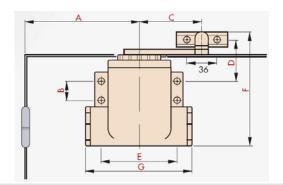
Fit the arm to obtain check action at the position shown behind the door .

Closers are normally supplied in right hand configuration. To change to left hand, remove the arm, ratchet and cover; withdraw the spring from the housing, reverse it and replace, ensuring that the tail of the spring is correctly located in the groove of the housing, i.e. RH closer - (the tail points to the left - see Fig 5b).

Replace the cover and the ratchet, ensuring that the slot of the ratchet housing is aligned with the inner tail of the spring.



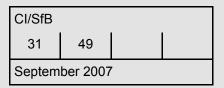
When fitting the arm, ensure that the mark on the arm lines up with the arrow on the pinion, irrespective of the handing of the closer (Fig 6). The exception to this is when the Conversion Bracket is to be installed, when the mark on the arm goes on the opposite side to the arrow on the pinion.



Code	Size 3	Size 4	Size 5	Size 6
A - Door Opening to 90°	240	260	310	350
A - Door Opening Beyond 90°	180	200	230	290
В	29	33	35	40
С	80	80	80	80
D	48	48	60	72
E	85	96	107	120
F	145	160	185	215
G	135	145	170	194

Sales: 01733 896123







D&E Auto-hinge 1000 series.

The 1000 series is a door closer built into a pair of hinges. Comprising of 1 spring hinge and 1 damper hinge and offers a fully adjustable, controlled closing action.

Suitable for use on internal doors up to 35Kg.

DE1111/35/L DE1111/35/R	auto-hinge - LH auto-hinge - RH	SAA
DE1111/35/SL DE1111/35/SR	auto-hinge with H/O - LH auto-hinge with H/O - RH	SAA SAA
DE1110/L DE1110/R	blank hinge - non load bearing - LH blank hinge - non load bearing - RH	SAA SAA

Hold open angle: 85° (hold open model only)

Opening angle: 180°

Door weight: 1 pr 35Kg

Packaging: 1 / 10 prs

Supplied handed (see page D-1023)

Supplied complete with fixing screws

See page D-1022 & D-1023 for all technical information including model specification for timber / metal doors in timber / metal frames etc...

D&E Auto-hinge 100 series.

The 100 series is a door closer built into a pair of hinges. Comprising of 1 spring hinge and 1 damper hinge and offers a fully adjustable, controlled closing action.



DE112/40/L	auto-hinge - LH	silver
DE112/40/L	auto-hinge - RH	silver
DE112/40/SL	auto-hinge with H/O - LH	silver
DE112/40/SR	auto-hinge with H/O - RH	silver
DE110/L	blank hinge - non load bearing - LH	silver
DE110/R	blank hinge - non load bearing - RH	silver

Opening angle: 180°

Hold open angle: 85° & 150° (hold open model only)

Door weight: 1 pr 40Kg

Packaging: 1 / 10 prs

Supplied handed (see page D-1023)

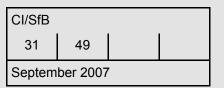
Supplied complete with fixing screws

See page D-1022 & D-1023 for all technical information including model specification for timber / metal doors in timber / metal frames etc...



Sales: 01733 896123







D&E Auto-hinge 100 series.

The 100 series is a door closer built into a pair of hinges. Comprising of 1 spring hinge and 1 damper hinge and offers a fully adjustable, controlled closing action.

Suitable for use on internal doors up to 60Kg.

DE113/60/L	auto-hinge - LH	silver
DE113/60/R	auto-hinge - RH	silver
DE113/60/SL	auto-hinge with H/O - LH	silver
DE113/60/SR	auto-hinge with H/O - RH	silver
DE110/L	blank hinge - non load bearing - LH	silver
DE110/R	blank hinge - non load bearing - RH	silver

Opening angle: 180°

Hold open angle: 85° & 150° (hold open model only)

Door weight: 1 pr 60Kg

Packaging: 1 / 10 prs

Supplied handed (see page D-1023)

Supplied complete with fixing screws

See page D-1022 & D-1023 for all technical information including model specification for timber / metal doors in timber / metal frames etc...

D&E Auto-hinge 100 tri-set series.

The 113 series tri-set is a door closer built into a set of hinges. The tri-set comprises of 2 spring hinges and 1 damper hinge and offers a fully adjustable, controlled closing action.



DE113/80/L	tri-set auto-hinge - LH	silver
DE113/80/R	tri-set auto-hinge - RH	silver
DE113/80/SL DE113/80/SR	tri-set auto-hinge with H/O - LH tri-set auto-hinge with H/O - RH	silver silver
DE110/L	blank hinge - non load bearing - LH	silver
DE110/R	blank hinge - non load bearing - RH	silver

Opening angle: 180°

Hold open angle: 85° & 150° (hold open model only)

Door weight: 1 set 80Kg

Packaging: 1 / 10 sets

Supplied handed (see page D-1023)

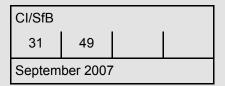
Supplied complete with fixing screws

See page D-1022 & D-1023 for all technical information including model specification for timber / metal doors in timber / metal frames etc...



Sales: 01733 896123







D&E Auto-hinge 100 PC series - weather resistant.

The D&E 113PC series is a door closer built into a pair of hinges. Comprising of 1 spring hinge and 1 damper hinge and offers a fully adjustable, controlled closing action which is enhanced by a thermal compensator.

Suitable for use on external doors up to 60Kg.

DE113PC/60/LPC auto-hinge - LHsilverDE113PC/60/RPC auto-hinge - RHsilver

DE113PC/60/SL PC auto-hinge with H/O - LH silver DE113PC/60/SR PC auto-hinge with H/O - RH silver

DE110PC/L PC blank hinge - non load bearing - LH silver DE110PC/R PC blank hinge - non load bearing - RH silver

Opening angle: 180°

Hold open angle: 85° & 150°

Door weight: 1 pr 60Kg

Packaging: 1 / 10 prs

Supplied handed (see page D-1023)

Supplied complete with fixing screws

See page D-1022 & D-1023 for all technical information including model specification for timber / metal doors in timber / metal frames etc...

D-E

CI/SfB			
31	49		
September 2007			



D&E Auto-hinge NK153 series.

The D&E NK153 series is a door closer built into either a pair or set of hinges. There are two door weight configurations. The 60Kg models comprise of 1 spring hinge and 1 damper hinge. The 80Kg models comprise of 2 spring hinges and 1 damper hinge. Both offer a fully adjustable, controlled closing action.

Suitable for use on frameless glass doors up to 60Kg.

DENK153/60/LNK153 auto-hinge - LHsilverDENK153/60/RNK153 auto-hinge - RHsilver

DENK153/60/SL NK153 auto-hinge with HO - LH silver DENK153/60/SR NK153 auto-hinge with HO - RH silver

DENK150/L blank hinge - non load bearing - LH silver DENK150/R blank hinge - non load bearing - RH silver

Opening angle: 180°

Hold open angle: 85° & 150°

Door weight: 1 pair 60Kg

Glass thickness: 8 to 12mm

Door dimensions: 2100 x 900mm

Packaging: 1 / 10 prs

Supplied handed (see page D-1023)

Supplied complete with fixing screws.

Suitable for use on frameless glass doors up to 80Kg.

DENK153/80/LNK153 tri-set auto-hinge - LHsilverDENK153/80/RNK153 tri-set auto-hinge - RHsilver

DENK153/80/SL NK153 tri-set auto-hinge with HO - LH silver DENK153/80/SR NK153 tri-set auto-hinge with HO - RH silver

DENK150/L blank hinge - non load bearing - LH silver DENK150/R blank hinge - non load bearing - RH silver

Opening angle: 180°

Hold open angle: 85° & 150°

Door weight: 1 set 80Kg

Glass thickness: 8 to 12mm

Door dimensions: 2200 x 1000mm

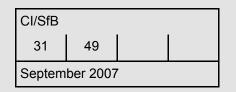
Packaging: 1 / 10 prs

Supplied handed (see page D-1023)

Supplied complete with fixing screws



D&E Auto-hinge



Part	Part No.		Max Door Hold Open		Max	Max Door	
Without hold open	With hold open	Hand	Weight	Position	Opening Angle	Dimensions	
1000 series							
To suit a Timber de	oor in a Timber fra	ame					
1111R	1111SR	Right	25Va	85°		W: 850mm H: 2000mm T: min 30mm	
1111L	1111SL	Left	- 35Kg	35Kg 65	180°		
1110R	_	Right	_	_	100		
1110L		Left	_	_			

100 series

<u> </u>							
o suit a Timber d	door in a Timber f	rame					
112R	112SR	Right	40Ka				
112L	112SL	Left	40Kg	40Kg 85°		W: 900mm	
113R	113SR	Right	601/2			H: 2100mm T: min 30mm	
113L	113SL	Left	60Kg	& 150°			
113R Tri-Set	113SR Tri-Set	Right	- 80Kg		150	180°	W: 1000mm
113L Tri-Set	113SL Tri-Set	Left				H: 2200mm T: min 30mm	
110R	_	Right					
110L	_	Left	ī <u>—</u>	_			

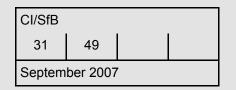
To suit a Timber	o suit a Timber door in a Steel frame								
122R-T	122SR -T	Right	401/~	85° &					
122L-T	122SL-T	Left	40Kg	150°	180°	W: 900mm H: 2100mm			
120R-T	_	Right			100	T: min 30mm			
120L-T	_	Left	_	_					

o suit a Steel do	or in a Steel frame)				
143R-T	143SR-T	Right	COI/~	85° &		
143L-T	143SL-T	Left	- 60Kg	150°	400°	W: 900mm
140R-T	_	Right			180°	H: 2100mm T: min 30mm
140L-T	_	Left	_	_		
o suit a Steel do	or in a Steel frame)				
o suit a Steel do	or in a Steel frame	,				
044D T	0440D T	Dialet				
244R-T	244SR-T	Right	120Kg	85° &		
244R-T 244L-T	244SR-T 244SL-T	Right Left	- 120Kg	85° & 150°	190°	W: 1200mm
		_	- 120Kg		180°	W: 1200mm H: 2100mm T: min 40mm

Sales: 01733 896123



D&E Auto-hinge

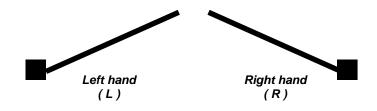


Part Without hold open	Part No.		Max Door Weight	Hold Open Position	Max Opening Angle	Max Door Dimensions				
100 PC series	100 PC series									
To suit timber, alu	minium & lightwei	ight steel do	ors							
113R-PC	113SR-PC	Right	601/0	85° &		W: 900mm H: 2100mm T: min 30mm				
113L-PC	113SL-PC	Left	60Kg	150°	180°					
110R-PC	_	Right								
110L-PC	_	Left	_	_	_					

To suit aluminium, lightweight steel & partition doors								
133R-PC	133SR-PC	Right	601/2	85° &		W: 900mm H: 2100mm		
133L-PC	133SL-PC	Left	- 60Kg	180°	180°			
130R-PC	_	Right				T: min 30mm		
130L-PC	_	Left	_					

To suit a Steel door in a Steel frame								
143R-T-PC	143SR-T-PC	Right	60Ka	85° &				
143L-T-PC	143SL-T-PC	Left	- 60Kg	150°	180°	W: 900mm H: 2100mm		
140R-T-PC	_	Right			160	T: min 30mm		
140L-T-PC	_	Left		_				

To suit a Steel door in a Steel frame								
244R-T-PC	244SR -T-PC	Right	120Ka	85° &				
244L-T-PC	244SL-T-PC	Left	120Kg	150°	180°	W: 1200mm H: 2100mm		
240R-T-PC	_	Right			160	T: min 40mm		
240L-T-PC	_	Left	_					



Sales: 01733 896123



CI/SfB		
31	49	
Septem	ber 2007	



D&E Auto-hinge - Centre Hang type

The D&E Auto-Hinge centre hang type is a concealed single action pivot door closer. Suitable for use on doors ranging from 40Kg up to 510Kg, it offers a controlled closing action.

controlled electing de	
DEA8K/L DEA8K/R	centre hang auto-hinge - LH - 40Kg centre hang auto-hinge - RH - 40Kg
DEA8/L DEA8/R	centre hang auto-hinge - LH - 50Kg centre hang auto-hinge - RH - 50Kg
DEA10/L DEA10/R	centre hang auto-hinge - LH - 85Kg centre hang auto-hinge - RH - 85Kg
DEA12/L DEA12/R	centre hang auto-hinge - LH - 100Kg centre hang auto-hinge - RH - 100Kg
DEA14/L DEA14/R	centre hang auto-hinge - LH - 130Kg centre hang auto-hinge - RH - 130Kg
DEA16/L DEA16/R	centre hang auto-hinge - LH - 160Kg centre hang auto-hinge - RH - 160Kg
DEA18/L DEA18/R	centre hang auto-hinge - LH - 200Kg centre hang auto-hinge - RH - 200Kg
DEA22/L DEA22/R	centre hang auto-hinge - LH - 240Kg centre hang auto-hinge - RH - 240Kg
DEA26/L DEA26/R	centre hang auto-hinge - LH - 310Kg centre hang auto-hinge - RH - 310Kg
DEA30/L DEA30/R	centre hang auto-hinge - LH - 410Kg centre hang auto-hinge - RH - 410Kg
DEA30H/L DEA30H/R	centre hang auto-hinge - LH - 510Kg centre hang auto-hinge - RH - 510Kg

Opening angle: 180°

Door weight: all door weights shown above are subject to certain criteria -

see pages D-1025 & D-1026 for further information.

Finish: stove enamelled

Packaging: each

Supplied handed (see page D-1025)

Supplied complete with fixing screws

Sales: 01733 896123



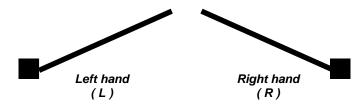
D&E Auto-hinge

CI/SfB		
31	49	
Septem	ber 2007	

model no.	doc	door dimensions (mm)		max door weight	standard	may oponing angle
model no.	width	height	thickness	max door weight	closing force	max opening angle
A-8K	800	1850 (max)	36	40	6.9 N-m	
A-8	(max)	2000	(min)	50	8.9 N-m	
A-10	1000		100 40	85	10.8 N-m	
A-12	1200	2100		100	15.7 N-m	
A-14	1400			130	19.7 N-m	
A-16	1600		45	160	24.6 N-m	180°
A-18	1800	2400	F0	200	41.2 N-m	
A-22	2200		50	240	49.1 N-m	
A-26	2600			310	60.9 N-m	
A-30	2000	2600	55	410	69.7 N m	
A-30H	3000			510	68.7 N-m	

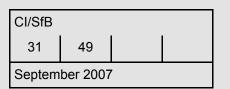
- 1. Select an appropriate model according to the dimensions (height x width) of the door. (See chart on page D-1026)
- 2. Ensure that the door weight is within the guidelines set out in the table below.
- N.B. The chart on page D-1026 is based on a wind velocity of 3m/sec. If being used in conjunction with a smoke ventilation system or should the wind conditions be any greater then please contact the sales office.

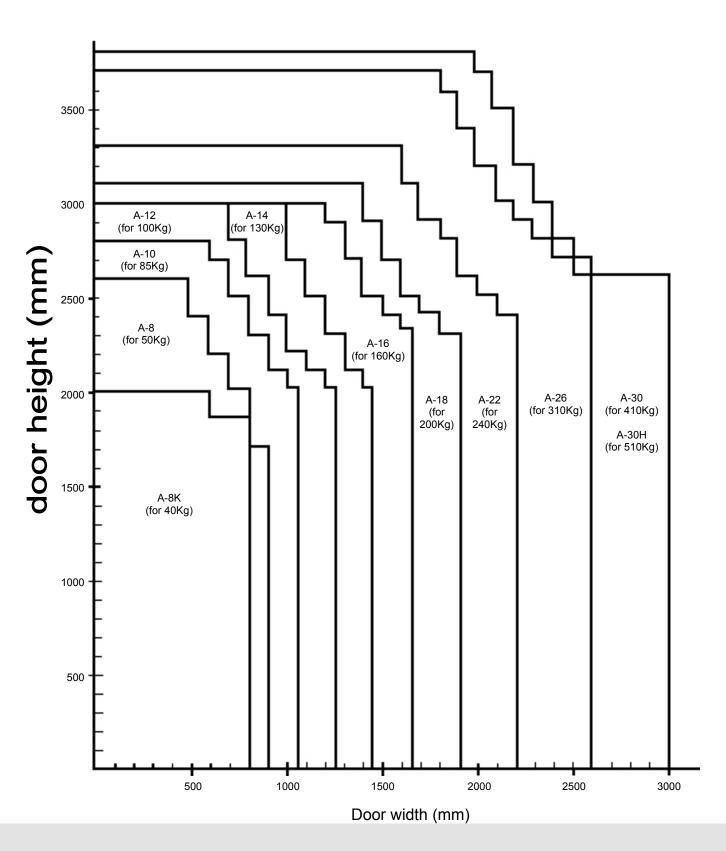
model	weight / 1m²	type of door	
A-8K	27Kg/m² max	steel door (only for wicket door)	
A-8	31Kg/m² max	steel	
A-10, A-12	39Kg/m² max		
A-14, A-16	41Kg/m² max		
A-18, A-22, A-26	45Kg/m² max	door	
A-30	52Kg/m² max		
A-30H	65Kg/m² max		



Sales: 01733 896123

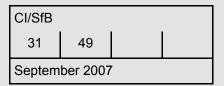






Sales: 01733 896123







D&E Soss invisible door closer hinge

The D&E Soss invisible door closer hinge is a completely concealed door closer. It is ideally suited to environments where an overhead closer can not be installed.

For use with the Soss DE218 hinges only.

Fire pack available for use on 30 minute fire doors - contact the office for details.

DE218DC/B soss door closer hinge brass plated
DE218DC/SNP soss door closer hinge sat. nickel plated

DE218F/B soss fire rated hinge brass plated DE218F/SNP soss fire rated hinge sat. nickel plated

Door weight: 25Kg

Illustration shows 2 x standard DE218F Soss hinges & 1 x DE218DC Soss door closer hinge. Additional hinges, of either model, may be required. See below how to identify what your requirements are or please fax or email the office with the full details of your door, including the ironmongery.

Identifying the correct hinge

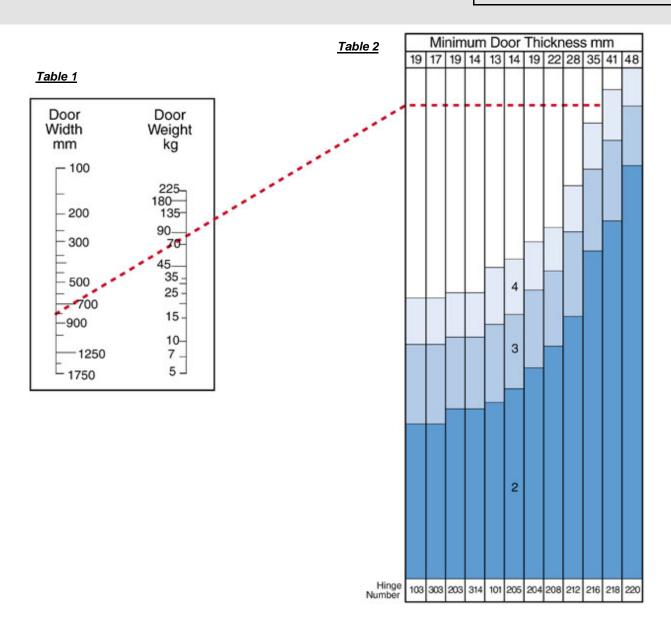
The stringent method of identifying the correct hinge for the task in hand is to follow these four easy steps.

- 1. Determine the width, thickness and height of the door.
- Once the above is achieved go to table 1 overleaf. Locate the width and the
 weight of your door and draw a straight line through those two points,
 continuing the line on to the left hand edge of table 2. An example of this
 has been illustrated by a dotted line for a door 800mm wide and 85Kg in
 weight.
- 3. Where the line meets the left hand edge of table 2, draw a horizontal line the full width of the table. This is determines your recommended hinge.
- 4. If you look at the dotted line this meets a light blue box, this indicates that if your door has a minimum thickness of 41mm then you can use 4 hinges type DE218, or, if you follow the line through to the next column because your door has a minimum thickness of 48mm then you must use 3 hinges of type DE220.

Sales: 01733 896123



CI/SfB 31 49 September 2007



Sales: 01733 896123



D&E transom closer - DEGRL100









D&E transom closer

The *DEGRL100* transom closer is a double action door closer that is installed in the transom of the door. Fully adjustable closing and latching action. Successfully type tested to EN1154 and has achieved the CE mark.

DEGRL100450 double action transom door closer EN 1-4

complete with top arm and floor pivot silver

DEGRL100455 body only - incl. cover plate silver

DEGRL100820 bottom pivot with arm for side assembly top pivot with arm for side assembly

EN classification: 3 8 1-4 1 1 4

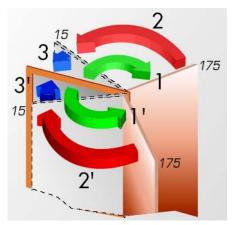
Size: 1-4 adjustable by allen key

Max door width: 1100mm

Max door weight: 120Kg

Max opening angle: 170 degrees

Dimensional data: see page D-1030 & D-1031



Operation

Zone 1 & 1' door opening through a range of 175° in either direction.

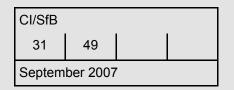
Zone 2 & 2' 175° & 15° controlled close - adjustable by needle valve

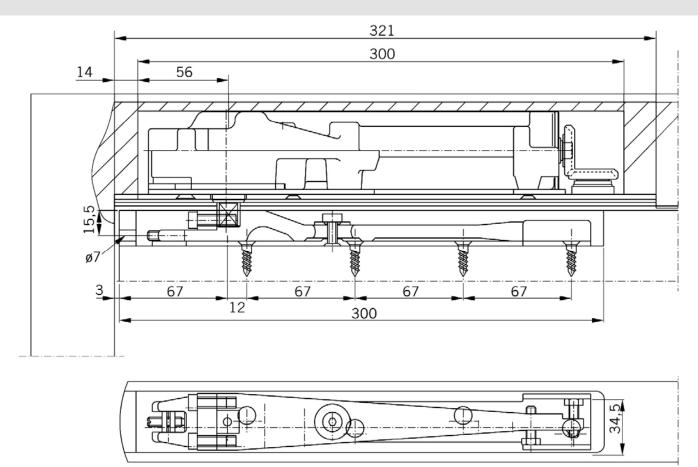
Zone 3 & 3' 15° - 0° controlled latching angle - adjustable by needle valve

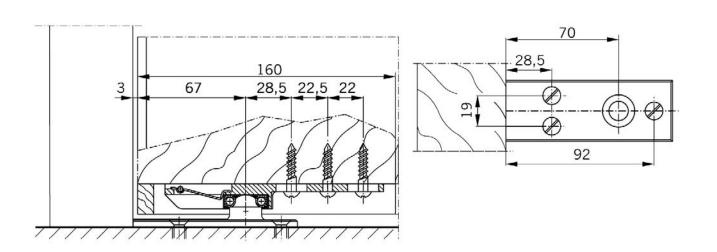
Sales: 01733 896123



D&E transom closer - DEGRL100

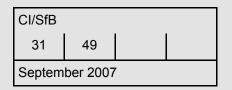


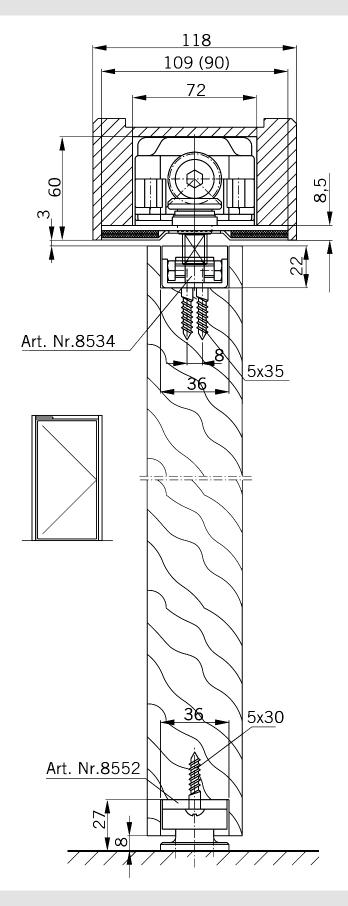




Sales: 01733 896123







Sales: 01733 896123



D&E transom closer







Sales: 01733 896123

D&E transom door closer

The Groom GRL050 series transom door closer has been developed mainly for use with aluminium or steel door frames. The closer body is installed in the transom by setting the closer body in such a manner that the revolving shaft faces downwards and is connected with the driving arm for the opening and closing of the door. All mechanical functions have been installed in the upper side as to avoid cutting away the floor as required in the case of a floor spring. Successfully type tested to EN1154.

Side Load

DEGRL053051 transom door closer - EN1154 size 3 - complete transom door closer with H/O- EN1154 size 3 - complete transom door closer - EN1154 size 4 - complete transom door closer with H/O- EN1154 size 4 - complete

End Load

DEGRL053052 transom door closer - EN1154 size 3 - complete
DEGRL053042 transom door closer with H/O- EN1154 size 3 - complete
transom door closer - EN1154 size 4 - complete
DEGRL054042 transom door closer with H/O- EN1154 size 4 - complete

Accessories

DEGRL000831 RA-853A-40 side load arm
DEGRL000832 RA-513A-77 end load arm

DEGRL000833 RA-R513A-73 pinch free side load arm DEGRL000821 SCR-Q101 heavy duty bottom pivot

EN classification: Size 3 3 8 3 0 1 4

Size 4 3 8 4 0 1 4

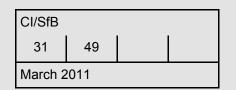
Std spindle height: 12mm

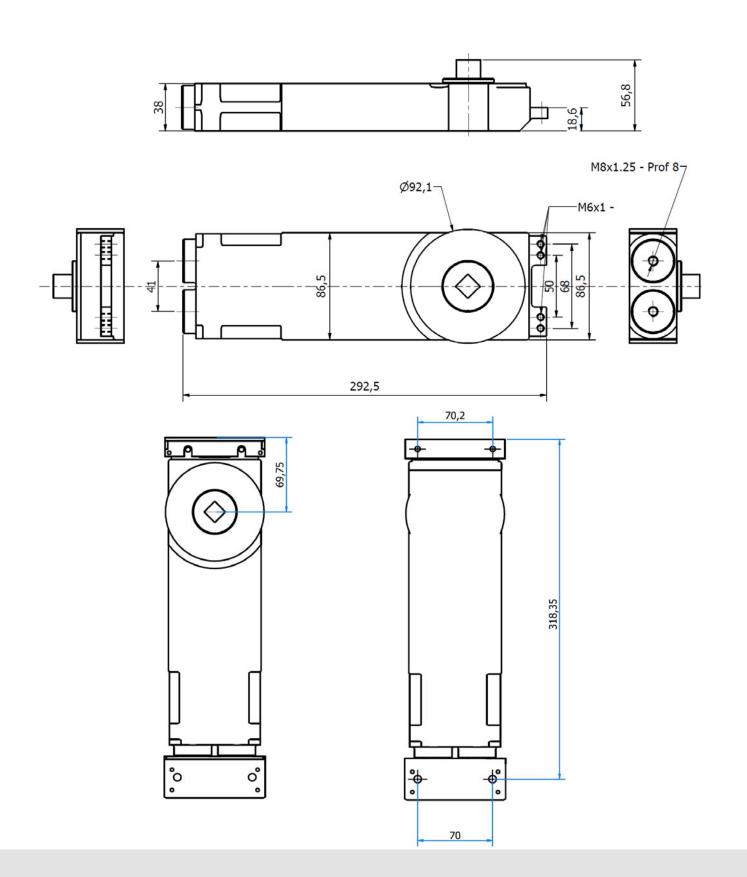
17mm & 20mm are available to special order - see Groom

brochure pages 28 & 29)

Hold open angle: 90°

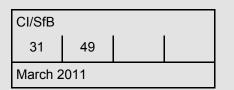


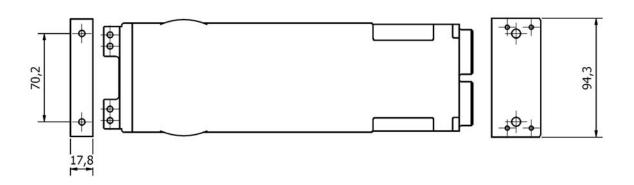


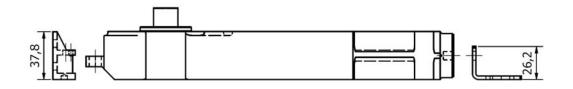


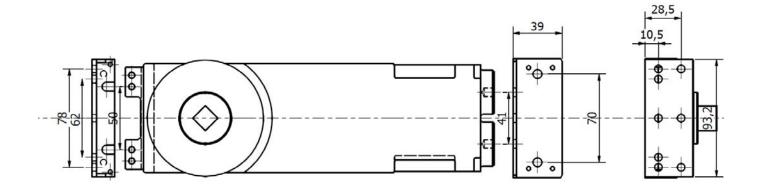
Sales: 01733 896123







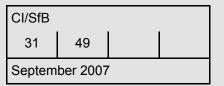




Sales: 01733 896123



D&EGRP100 floor spring









D&E floor spring

The *DEGRP100* floor spring is a double action door closer that is installed in the floor. Fully adjustable closing and latching action. Successfully type tested to EN1154 and has achieved the CE mark.

Body only

DEGRP100350 floor spring body without H/O - EN 3 floor spring body with H/O - EN 3

EN classification: 3 8 3 1 1 4

Max door width: 950mm

Size: EN 3

Max door weight: 80Kg

DEGRP100450 floor spring body without H/O - EN 4 floor spring body with H/O - EN 4

EN classification: 3 8 4 1 1 1

Max door width: 1100mm

Size: EN 4

Max door weight: 100Kg

DEGRP100820 cover plate sat. stainless steel

DEGRP100810 square pivot for DEGRP100
DEGRP100820 rectangular pivot for DEGRP100
DEGRP100821 steel top centre for DEGRP100

DEGRP100822 hinge bearing

DEGRP100810 bottom strap for rectangular pivot bottom strap for rectangular pivot for

use on aluminium doors

Size: 1-4 adjustable by allen key

Max door width: 1100mm

Max door weight: 120Kg

Max opening angle: 170 degrees

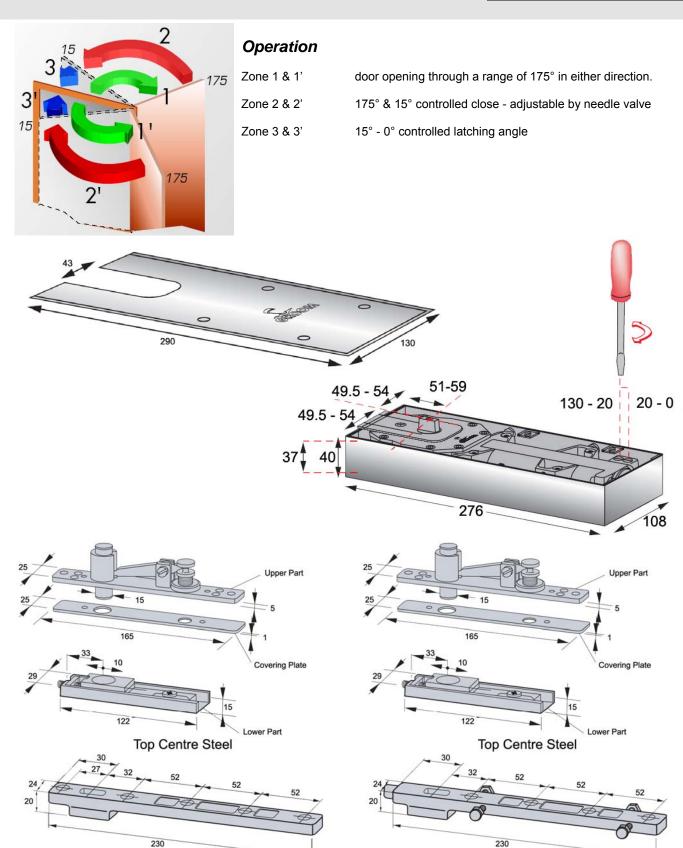
Dimensional data: see page D-1034

Sales: 01733 896123



D&EGRP100 floor spring

CI/SfB 31 49 September 2007



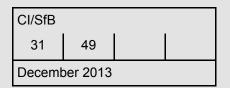
Sales: 01733 896123

Bottom strap



Fax: 01733 894466

Bottom strap - to suit aluminium door





D&E hydraulic gate closer

The 'adeco' DEDC2600 gate closer is a single action closer with controlled closing action. The separate adjustment for both the closing & latching speeds allow for a personalised closing motion. The DEDC2600 is also supplied as standard with an optional hold open facility.

DEDC2600 gate closer black

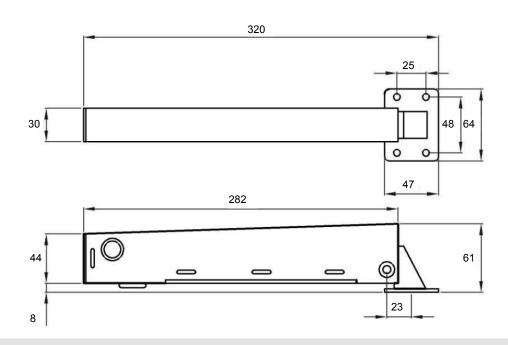
Max gate width: 1000mm

Gate weight: 50Kg

Hold open angle: 90°

Max opening angle: 90°

Suitable for use with conventional butt hinges only.



Sales: 01733 896123

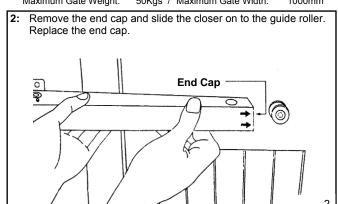


D&E 'adeco' gate closer

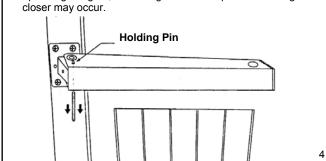
CI/SfB 49 September 2007

- The DC2600 can be installed at the top, middle or bottom of the gate on the 'PULL' side only.
- The face of the gate must be flush with the face of the gatepost.
- The gate should be hinged as close to the gate post as possible
- The pivot point of the closer must be inline with the centre pivot line of the hinges. It may be necessary to fabricate a bracket or spacer to allow the closer to be installed correctly.
- The gate must swing freely on its hinges prior to installing the closer and the hinges must be greased regularly.
- The guide roller must be fitted. It may be necessary to fabricate a bracket / spacer to mount receive the guide roller.
- The gate must not be allowed to be opened more than 90°. If this is a possibility then a floor mounted door / gate stop should be installed.
- The holding pin (see fig. 4) must not be removed until the closer is fitted.

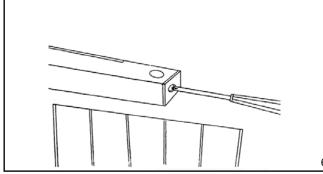
Maximum Gate Weight: 50Kgs / Maximum Gate Width:



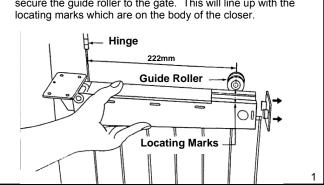
Open the gate slowly until the holding pin either drops out or can be removed easily. If the holding pin is not removed prior to operating the gate, then the gate will not open and damage the closer may occur.



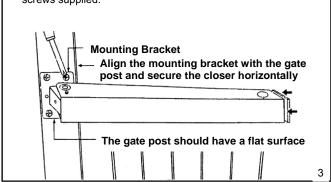
With the gate in the closed position, the final latching speed can be adjusted in the same manner as part 5 of these instructions.



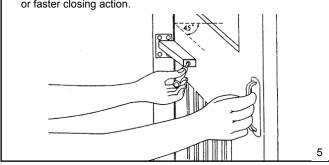
1: From the centre pivot line of the hinges, measure 222mm and secure the guide roller to the gate. This will line up with the locating marks which are on the body of the closer.



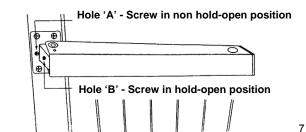
Secure the mounting bracket to the gate post with the four (4) screws supplied.



Holding the door open at about 45°, you can adjust the closing speed as required. Adjustment is via a screwdriver and should be in 1/4 turn increments clockwise or anti-clockwise for a slower or faster closing action.



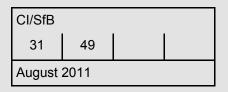
To engage the hold-open function, simply remove the screw from hole 'A' and screw it into hole 'B' for safe keeping. To remove the hold open function simply reverse this procedure. Do not force the closer beyond the screw as doing so will damage the



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D&E gate closers



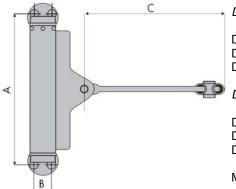


D&E 'tirex' gate closer

The *D&E tirex* gate closer is a helical door spring with a pivoted arm.

The arm locates between two (2) rollers which are mounted on the door to eliminate any wear on the door.

The closing speed is adjusted by inserting the tension bar into a hole in the capstan and increasing / decreasing the tension as required. The desired tension is then held in place by a pin that is inserted into an adjacent hole.



DEGR152201 gate closer - 40Kg silver

Dim A: 115mm Dim B: 21mm Dim C: 240mm

DEGR154201 heavy duty gate closer - 80Kg silver

Dim A: Dim B: 21mm Dim C: 342mm

Max opening angle: 180°



D&E 'tirex 2' gate closer

The D&E tirex 2 gate closer is a helical door spring with a pivoted arm. The arm rests on a roller which is mounted on the door to eliminate any wear on the door.

The closing speed is adjusted by inserting the tension bar into a hole in the capstan and increasing / decreasing the tension as required. The desired tension is then held in place by a pin that is inserted into an adjacent hole.

DE091001

gate closer - 25Kg

zinc plated

Dim A: Dim B: 75mm 235mm

DE091002

gate closer - 40Kg

zinc plated

Dim A: Dim B:

100mm 235mm

DE091003

gate closer - 60Kg

zinc plated

Dim A: Dim B:

125mm

DE091004

235mm

heavy duty gate closer - 80Kg

zinc plated

150mm

Dim A: Dim B: 300mm

Max opening angle: 180°

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CI/SfB					
31	49				
August 2011					



D&E 'spiral' gate closer

The D&E spiral gate closer is a helical spring.

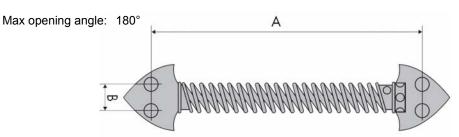
The closing speed is adjusted by the inserting the tension bar into a hole in the capstan and increasing / decreasing the tension as required. The desired tension is then held in place by a pin that is inserted into an adjacent hole.

DEGR172001 gate closer - 40Kg silver

Dim A: 222mm Dim B: 16mm

DEGR174001 gate closer - 60Kg silver

Dim A: 283mm Dim B: 17mm



D&E 'spiral 2' stainless steel gate closer

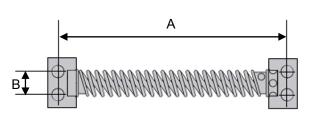
The D&E 'spiral 2' gate closer is a helical spring.

The closing speed is adjusted by the inserting the tension bar into a hole in the capstan and increasing / decreasing the tension as required. The desired tension is then held in place by a pin that is inserted into an adjacent hole.

DE089280i gate closer - 60Kg stainless steel

Dim A: 270mm Dim B: 18mm

Stainless steel grade: SUS 304



Sales: 01733 896123

