

look inside



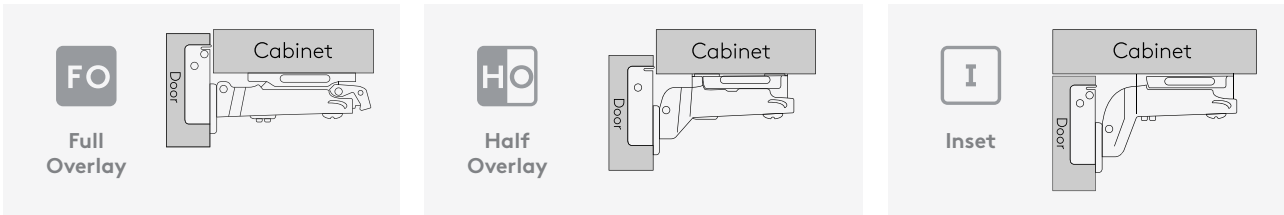
nikpol™

pivot star

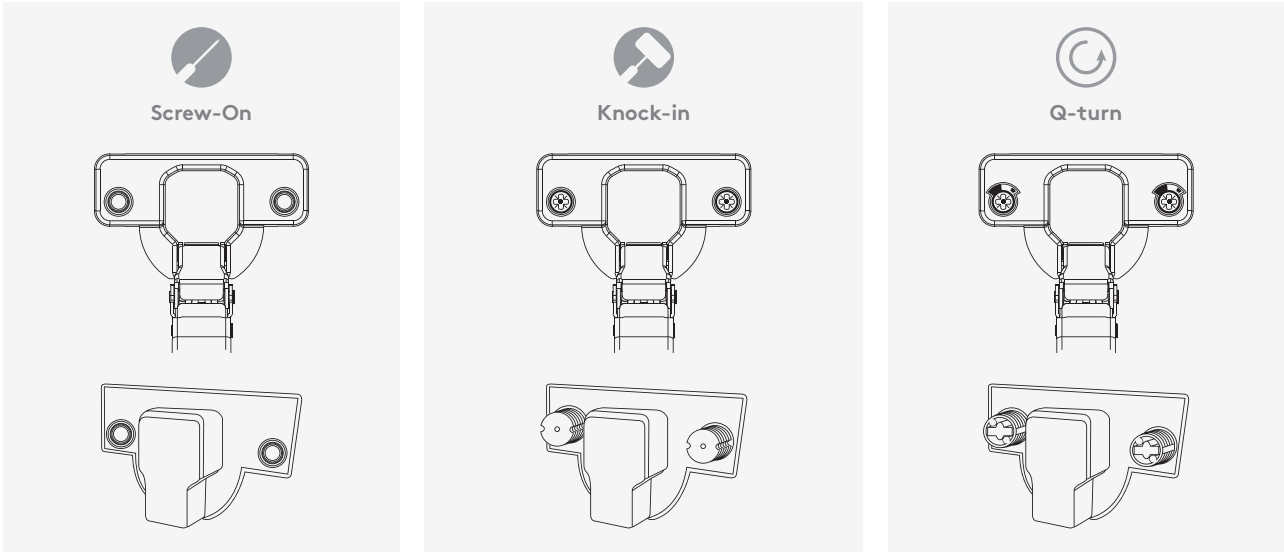
pivot-star hinges

Hinge	Overlay	Mounting	Drill Pattern
110°	Full Overlay/Half Overlay/Inset	Screw-On/Knock-in/Q-turn	B-45/9.5/H-52/5.5
160°	Full Overlay	Q-turn/Knock-in	B-45/9.5/H-52/5.5
90° Blind panel	-	Knock-in	B-45/9.5/H-52/5.5
45° Corner door hinge	-	Knock-in	B-45/9.5/H-52/5.5
135° Bi-fold	-	Q-turn/Knock-in	B-45/9.5/H-52/5.5

overlay



mounting



ASSESSMENT CRITERIA

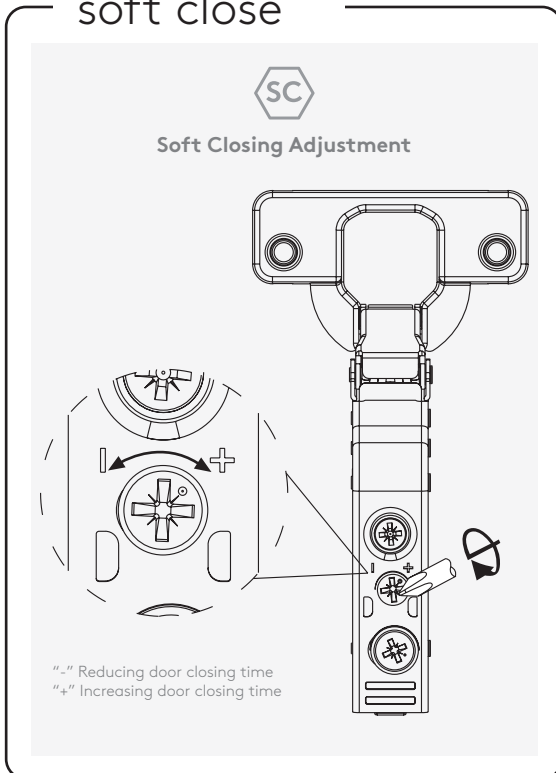
Aesthetics / Design Quality, Practical Use

The PIVOT-STAR is an innovative technology hinge characterized by its fast-adjustable soft-close design. The door closing speed can be adjusted to suit different door sizes and/or user preferences by turning the speed setting screw from “-” to “+”. This speed-adjustability feature makes the PIVOT-STAR stand out from other hinges that only allow users to activate or deactivate the soft-close function.

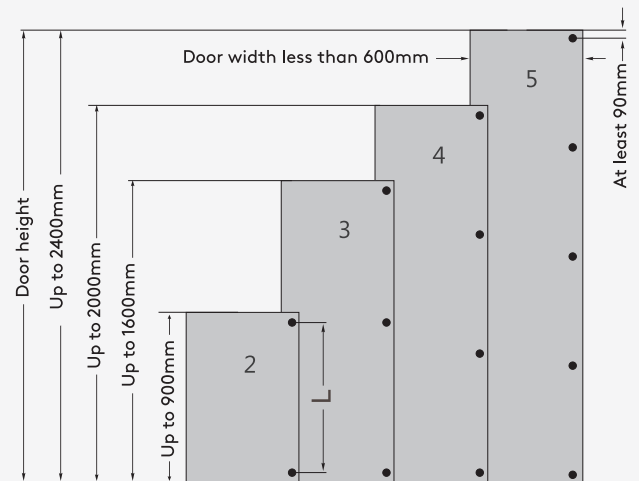
pivot-star hinges

Integrated Soft Close Hinge	Overlay	Mounting	Drill Pattern
110°	Full Overlay/Half Overlay/Inset	Screw-On/Knock-in/Q-turn	B-45/9.5/H-52/5.5
160°	Full Overlay	Screw-On/Knock-in/Q-turn	B-45/9.5/H-52/5.5
90° Blind panel	-	Knock-in/Q-turn	B-45/9.5/H-52/5.5
45° Corner door hinge	-	Knock-in/Q-turn	B-45/9.5/H-52/5.5
95° Thick hinge	Full Overlay	Q-turn	B-45/9.5/H-52/5.5

soft close



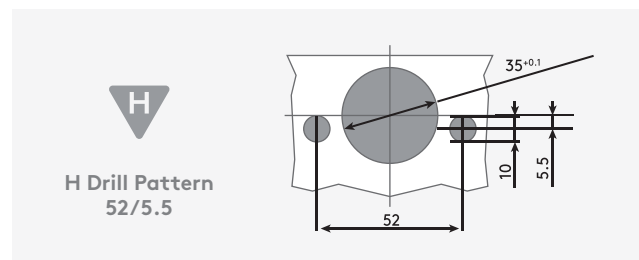
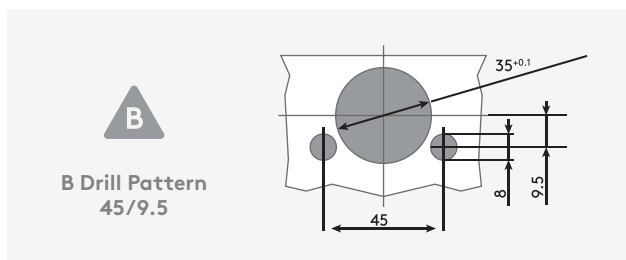
Number of hinges for each door



L = distance between hinges

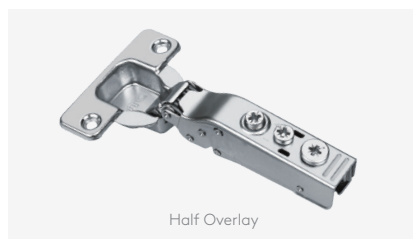
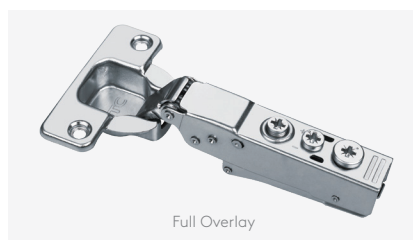
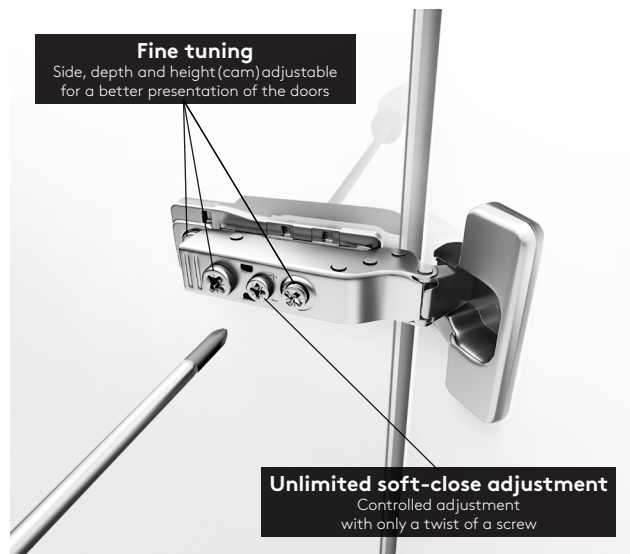
The number of hinges needed for each door depends on the width of the door, the height of the door, and the type of material the door is made of. It varies in particular practices. The hinge installation proposal listed above is only for your reference. Experiment is suggested in an uncertain situation. "L" volume shall be large considering stability.

drill pattern

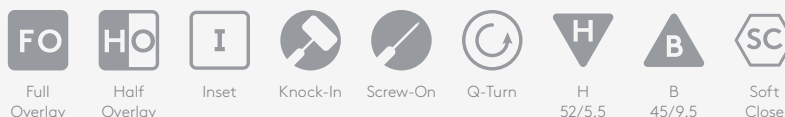


pivot star - hinges

110° hinge



Availability



Hinge

DTCC81A676
Full overlay Screw-On
DTCC81A675N
Full overlay Knock-In B 45/9.5
DTCC81A677M
Full overlay Knock-In H 52/5.5
DTCC81A675T8
Full overlay Q-Turn B 45/9.5
DTCC81B675T8
Half overlay Q-Turn B 45/9.5
DTCC81B677M
Half overlay Knock-In H 52/5.5
DTCC81C675T8
Inset Q-Turn B 45/9.5
DTCC81C677M
Inset Knock-In H 52/5.5

Integrated Soft Close Hinge

DTCC81A676F
Full overlay Screw-On
DTCC81A675NF
Full overlay Knock-In B 45/9.5
DTCC81A677MF
Full overlay Knock-In H 52/5.5
DTCC81A675T8F
Full overlay Q-Turn B 45/9.5
DTCC81A677T0F
Full overlay Q-Turn H 52/5.5
DTCC81B676F
Half overlay Screw-On
DTCC81B675T8F
Half overlay Q-Turn B 45/9.5
DTCC81B677T0F
Half overlay Q-Turn H 52/5.5
DTCC81C676F
Inset Screw-On
DTCC81C675T8F
Inset Q-Turn B 45/9.5
DTCC81C677T0F
Inset Q-Turn H 52/5.5

- 110° opening angle
- 11.5mm hinge cup depth
- 35mm hinge cup diameter
- 16-26mm door thickness
- 3-6mm drilling distance (K) on the door
- Shallow cup depth

- Side adjustment +2mm/-4mm
- Depth adjustment +3mm/-1mm
- Cam adjustment up/down +2mm/-2mm
- 26mm thick doors with standard hinge
- Easily fine tuned soft close adjustment for small doors

pivot star - hinges

Versatile application

Shallow cup depth can be used on doors from 13mm up to 26mm thick as standard 110 degree



Clean minimalist look
Slim modern design

Plate Height Calculation

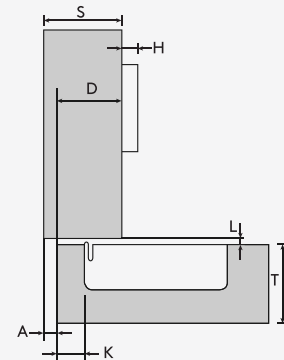
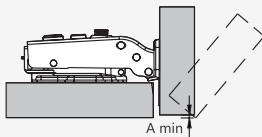


Plate height =
12 (constant) + DBE (K) - D (Overlay required)

2mm Plate = 12 + 5 - 15

Space needed to open the door

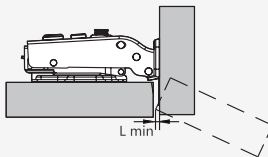


	T=	16	17	18	19	20	21	22	23	24	25	26
K=3	A=	0.7	0.9	1.2	1.5	1.8	2.2	2.6	3.2	3.8	4.5	5.3
K=4	A=	0.7	0.9	1.1	1.4	1.8	2.1	2.5	3.0	3.5	4.4	4.9
K=5	A=	0.6	0.9	1.1	1.4	1.7	2.0	2.4	2.9	3.4	3.9	4.6
K=6	A=	0.6	0.8	1.1	1.3	1.6	2.0	2.4	2.8	3.2	3.8	4.4

T= Door thickness

K= Cup hole drilling distance from door edge

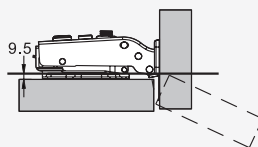
Space needed to open the door



T=	16	17	18	19	20	21	22	23	24	25	26
K=3	L=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
K=4	L=	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.7	1.1
K=5	L=	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	2.0
K=6	L=	0.9	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	3.0

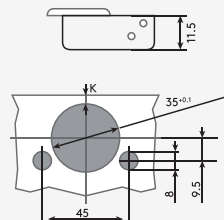
The above values are calculated on the assumption that the doors have square edges.
They are reduced if the doors have radiussed edges.

Projection of the door

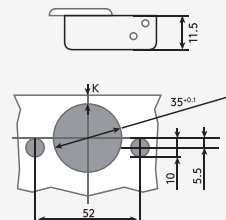


Projection of the door from the cabinet side at the max opening. The figures are based on a straight arm hinge, H=0mm mounting plate and drilling distance (K)=3mm.

Ø 35mm hinge cup types



B Drill Pattern
45/9.5



H Drill Pattern
52/5.5

Use these formulas to determine the type of hinge arm, drilling distance (K=5mm) and the height of the mounting plate (H=2mm) for each door application.

pivot star - hinges

160° hinge



- 160° opening angle
- 11.8mm hinge cup depth
- 35mm hinge cup diameter
- 16-28mm door thickness
- 3-6mm drilling distance on the door

Availability



Knock-In



Screw-On



Q-Turn



H
52/5.5



B
45/9.5



Soft
Close

Hinge

DTCC81A606

Screw-On

DTCC81A605N

Knock-In | B 45/9.5

DTCC81A607M

Knock-In | H 52/5.5

DTCC81A605T8

Q-Turn | B 45/9.5

Integrated Soft Close Hinge

DTCC81A606F

Screw-On

DTCC81A605NF

Knock-In | B 45/9.5

DTCC81A607MF

Knock-In | H 52/5.5

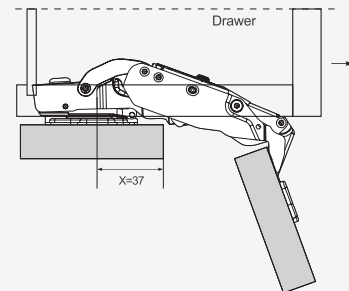
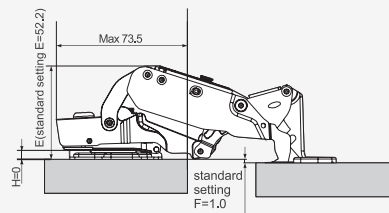
DTCC81A605T8F

Q-Turn | B 45/9.5

DTCC81A607T0F

Q-Turn | H 52/5.5

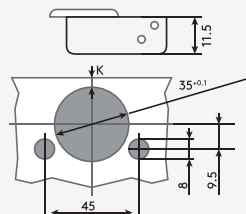
Ø 35mm hinge cup types



The door combined with a mounting plate H=0, opens at 90° with a 1.0mm protrusion allowing objects to move from inside of the cabinet.

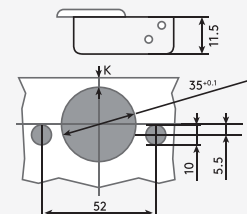
Ø 35mm hinge cup types

B Drill Pattern 45/9.5



Use these formulas to determine the type of hinge arm, drilling distance (K=5mm) and the height of the mounting plate (H=2mm) for each door application.

H Drill Pattern 52/5.5

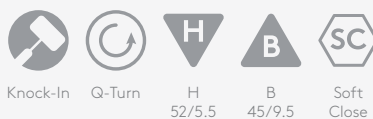


pivot star - hinges

90° blind panel hinge



Availability



Hinge

DTCC81G675N

Knock-In | B 45/9.5

DTCC81G677M

Knock-In | H 52/5.5

- 110° opening angle
- 11.5mm hinge cup depth
- 35mm hinge cup diametre
- 16-26mm door thickness
- 3-6mm drilling distance on the door

Integrated Soft Close Hinge

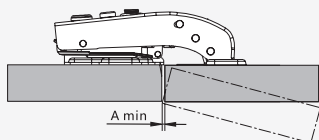
DTCC81G677MF

Knock-In | H 52/5.5

DTCC81G675T8F

Q-Turn | B 45/9.5

Space needed to open the door

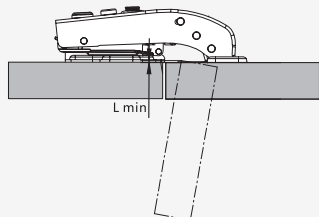


	T=	16	17	18	19	20	21	22	23	24	25	26
K=3	A=	0.7	0.9	1.2	1.5	1.8	2.2	2.6	3.2	3.8	4.5	5.3
K=4	A=	0.7	0.9	1.1	1.4	1.8	2.1	2.5	3.0	3.5	4.4	4.9
K=5	A=	0.6	0.9	1.1	1.4	1.7	2.0	2.4	2.9	3.4	3.9	4.6
K=6	A=	0.6	0.8	1.1	1.3	1.6	2.0	2.4	2.8	3.2	3.8	4.4

 $T \equiv$ Door thickness

K= Cup hole drilling distance from door edge

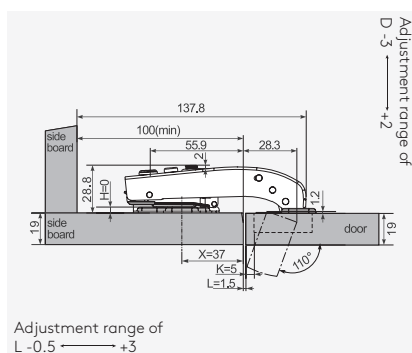
Space needed to open the door



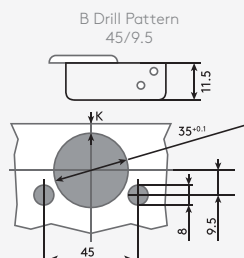
	T=	16	17	18	19	20	21	22	23	24	25	26
K=3	L=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
K=4	L=	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.7	0.9	1.1
K=5	L=	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0
K=6	L=	0.9	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0

The above values are calculated on the assumption that the doors have square edges.

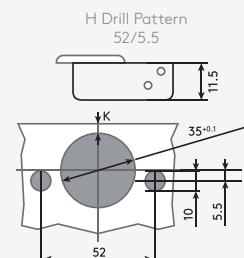
They are reduced if the doors have radiussed edges.



Ø 35mm hinge cup types



Use these formulas to determine the type of hinge arm, drilling distance ($K=5\text{mm}$) and the height of the mounting plate ($H=2\text{mm}$) for each door application.



pivot star - hinges

95° thick door hinge



Availability



Soft
Close



Q-Turn



H
52/5.5



B
45/9.5

Integrated Soft Close Hinge

DTCC81A615T8F

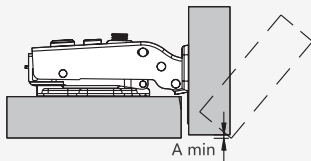
Q-Turn | B 45/9.5

DTCC81A617T0F

Q-Turn | H 52/5.5

- 95° opening angle
- 11.5mm hinge cup depth
- 35mm hinge cup diameter
- 19-35mm door thickness
- 3-9mm drilling distance on the door
- Soft close only

Space needed to open the door

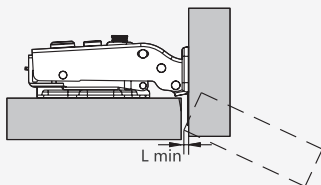


	T=	19	20	21	22	23	24	25	26	27	28	29	30	31	32 - 35
K=3	A=	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	2.2	3.2	4.1	5.0	6.0	7.0 - 10
K=4	A=	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.6	2.5	3.5	4.4	5.3	6.3 - 9.1
K=5	A=	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	2.0	2.9	3.7	4.7	5.6 - 8.4
K=6	A=	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	2.3	3.2	4.1	5.0 - 7.8
K=7	A=	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.8	2.7	3.6	4.4 - 7.0
K=8	A=	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.4	1.6	2.2	3.1	3.9 - 6.5
K=9	A=	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.6	1.8	2.6	3.4 - 6.0

T= Door thickness

K= Cup hole drilling distance from door edge

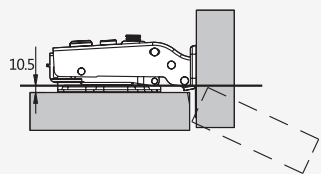
Space needed to open the door



	T=	19	20	21	22	23	24	25	26	27	28	29	30	31	32 - 35
K=3	L=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 - 0.0
K=4	L=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 - 0.0
K=5	L=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.4	0.5 - 0.7
K=6	L=	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.2	1.3	1.4	1.5 - 1.7
K=7	L=	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	2.0	2.2	2.2	2.3	2.4	2.5 - 2.7
K=8	L=	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.4	1.6	2.2	3.1	3.5 - 3.7
K=9	L=	2.3	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.6	1.8	2.6	4.5 - 4.7

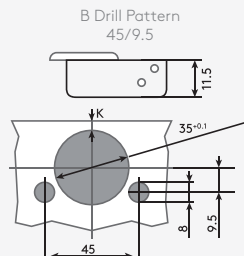
The above values are calculated on the assumption that the doors have square edges.
They are reduced if the doors have radiussed edges.

Projection of the door

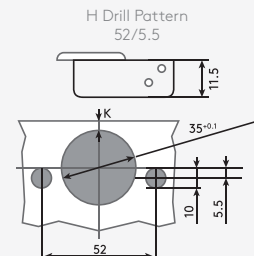


Projection of the door from the cabinet side at the max opening. The figures are based on a straight arm hinge, H=0mm mounting plate and drilling distance (K)=3mm.

Ø 35mm hinge cup types



Use these formulas to determine the type of hinge arm, drilling distance (K=5mm) and the height of the mounting plate (H=2mm) for each door application.



pivot star - hinges

135° bi-fold corner hinge



Availability



Q-Turn



Knock-In



H
52/5.5



B
45/9.5

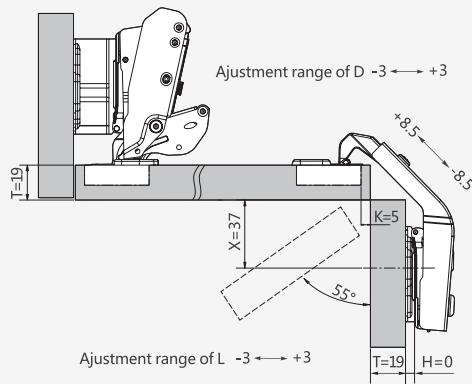
Hinge

DTCC81H675T8
Q-Turn | B 45/9.5

DTCC81H677M
Knock-In | H 52/5.5

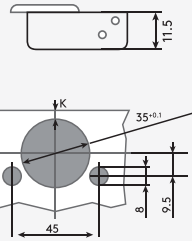
- 55° opening angle
- 11.5mm hinge cup depth
- 35mm hinge cup diameter
- 14-26mm door thickness
- 3-7mm drilling distance on the door

Kitchen bi-fold door application

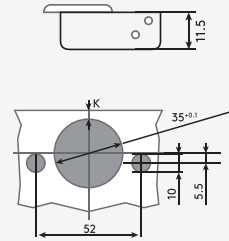


Ø 35mm hinge cup types

B Drill Pattern
45/9.5



H Drill Pattern
52/5.5



Use these formulas to determine the type of hinge arm, drilling distance(K) and the height of the mounting plate (H) for each door application.

110° stainless steel hinge



Availability



Screw-On



Soft
Close

Hinge

DTCSS80A476F

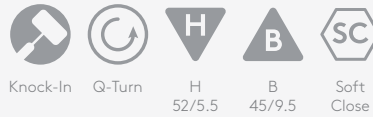
- 110° Full overlay
- Soft Closing
- Screw-on
- 304 grade stainless steel
- Incorporated hinge plate
- Hinge and plate as pictured
- Suitable for outdoors and alfrescos

pivot star - hinges

45° corner door hinge



Availability



- 110° opening angle
- 11.5mm hinge cup depth
- 35mm hinge cup diameter
- 16-26mm door thickness
- 3-6mm drilling distance on the door

Hinge

DTCC81E675N
Knock-In | B 45/9.5

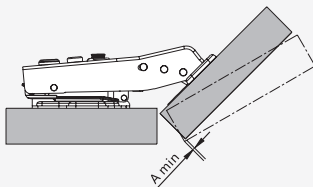
DTCC81E677M
Knock-In | H 52/5.5

Integrated Soft Close Hinge

DTCC81E677MF
Knock-In | H 52/5.5

DTCC81E675T8F
Q-Turn | B 45/9.5

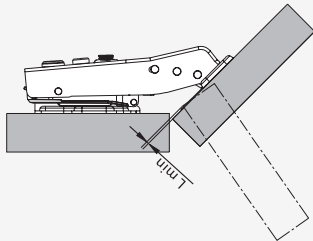
Space needed to open the door



	T=	16	17	18	19	20	21	22	23	24	25	26
K=3	A=	0.7	0.9	1.2	1.5	1.8	2.2	2.6	3.2	3.8	4.5	5.3
K=4	A=	0.7	0.9	1.1	1.4	1.8	2.1	2.5	3.0	3.5	4.4	4.9
K=5	A=	0.6	0.9	1.1	1.4	1.7	2.0	2.4	2.9	3.4	3.9	4.6
K=6	A=	0.6	0.8	1.1	1.3	1.6	2.0	2.4	2.8	3.2	3.8	4.4

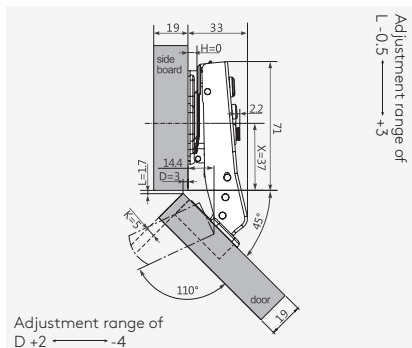
T= Door thickness
K= Cup hole drilling distance from door edge

Space needed to open the door

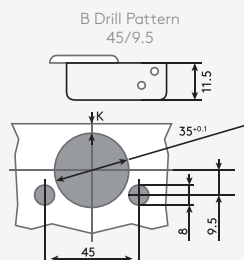


	T=	16	17	18	19	20	21	22	23	24	25	26
K=3	L=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
K=4	L=	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.7	0.9	1.1
K=5	L=	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0
K=6	L=	0.9	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0

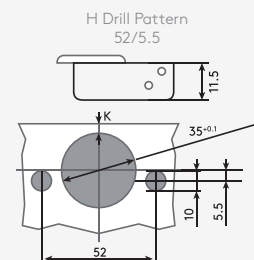
The above values are calculated on the assumption that the doors have square edges.
They are reduced if the doors have radiused edges.



Ø 35mm hinge cup types



Use these formulas to determine the type of hinge arm, drilling distance (K=5mm) and the height of the mounting plate (H=2mm) for each door application.



pivot star - hinge plates

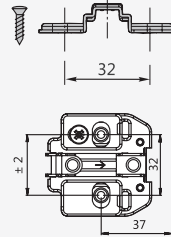
wing hinge plate



- Cam adjustable plates adjust height to $\pm 2/-2$ mm
- Available in 3 different fixings — Screw-On, Euro Screw Fix & Expanding Dowel
- Plates come in the standard size of 2mm and is also available in 0, 4, 9 and 18mm
- Standard of 2mm can only occur with a 5mm DBE (Distance Before the Edge)

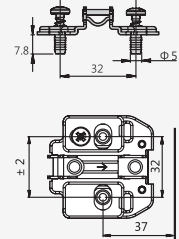
Screw-On Cam Hinge Plate

DTC81T00TQ
Plate height - 0mm
DTC81T20TQ
Plate height - 2mm
DTC81T40TQ
Plate height - 4mm



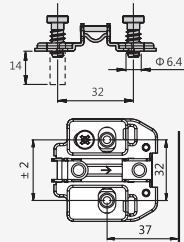
Expanding Dowel Cam Hinge Plate

DTC81T01TQ
Plate height - 0mm
DTC81T21TQ
Plate height - 2mm
DTC81T41TQ
Plate height - 4mm



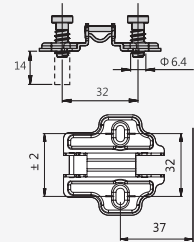
Euro Screw Fix Cam Hinge Plate

DTC81T02TQ
Plate height - 0mm
DTC81T22TQ
Plate height - 2mm
DTC81T42TQ
Plate height - 4mm



Euro Screw Fix Non Cam Hinge Plate

DTC81T02TQ
Plate height - 0mm
DTC81T22TQ
Plate height - 2mm
DTC81T42TQ
Plate height - 4mm
DTC81T22TQ
Plate height - 9mm
DTC81T42TQ
Plate height - 18mm



inline hinge plate



- Inline cam plate is only height adjustment- $\pm 2/-2$
- Available in knock-in only
- Plates come in the standard size of 2mm and is also available in 0mm & 4mm
- Standard of 2mm can only occur with a 5mm DBE (Distance Before the Edge)

Knock-In Cam Hinge Plate

DTC81H0MYQ
Plate height - 0mm
DTC81H2MYQ
Plate height - 2mm
DTC81H4MYQ
Plate height - 4mm

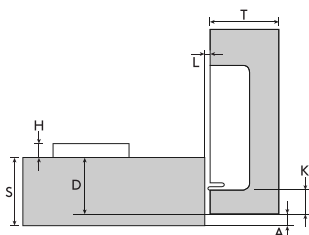
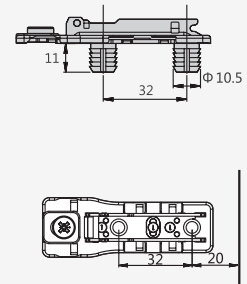


Plate Height Calculation

- Plate height = $12(\text{constant}) + \text{DBE (K)} - \text{D (Overlay required)}$
- 2mm Plate = $12 + 5 - 15$

Angle Reduction Clips



DTC120S160
suits 160°
reduce to 120°



DTC86S80
suits 110°
reduce to 85°



Nikpol Pty. Ltd.

DTC Pivot Star Range

For the full product range and availability please refer to nikpol.com.au. The photos and images in this flyer are as close to the real product as possible, but from time to time, camera angles and printing can distort these images.

For all warranties, care information and other technical information, please see visit our website.

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