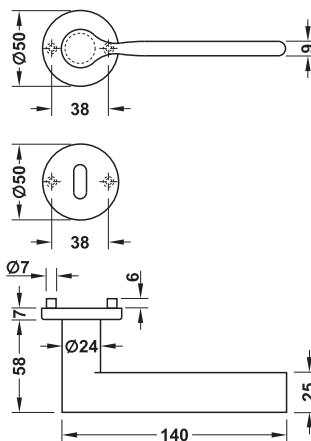


1

GAEB

Model LDH 2201



- Area of application: Suitable for residential areas
- Material: Zinc alloy, substructure: Plastic
- Finish: Nickel plated matt brushed/PVD coated
- Bearing: Spring integrated in rose
- Standard: Certified in compliance with EN 1906:2010
- Class:

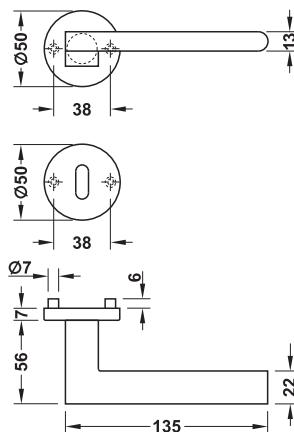
2	6	-	0	0	3	0	B
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	Supplied with	Door thickness mm	Version	Cat. No.
CB set	2 Lever handle aperture parts 1 Spindle 8 x 110 mm 1 Pair of handle roses 1 Pair of CB escutcheons 4 Sleeve screws M4 x 40 mm	36–43	–	900.91.260
PC set	2 Lever handle aperture parts 1 Spindle 8 x 110 mm 1 Pair of handle roses 1 Pair of PC escutcheons 4 Sleeve screws M4 x 40 mm	36–43	–	900.92.260
WC set	2 Lever handle aperture parts 1 Spindle 8 x 110 mm 1 Pair of handle roses 1 Pair of WC escutcheons without indicator disc 1 Locking pin 8 mm 4 Sleeve screws M4 x 40 mm	36–43	–	900.93.260
PC alternate set	1 Lever handle aperture part, left hand or right hand 1 Handle rose 1 Door knob on rose 1 Alternate spindle M12, 8 x 80 mm 1 Pair of PC escutcheons 2 Sleeve screws M4 x 40 mm 2 Threaded screws M4 x 65 mm	36–43	Left Right	900.95.260 900.96.260

Mounting accessories

► AH 1.66

Model LDH 2202



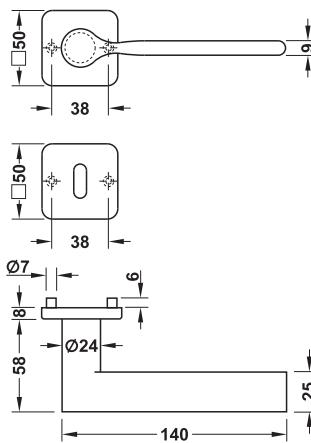
- Area of application: Suitable for residential areas
- Material: Zinc alloy, substructure: Plastic
- Finish: Nickel plated matt brushed/PVD coated
- Bearing: Spring integrated in rose
- Standard: Certified in compliance with EN 1906:2010
- Class:

2	6	-	0	0	3	0	B
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	Supplied with	Door thickness mm	Version	Cat. No.
CB set	2 Lever handle aperture parts 1 Spindle 8 x 110 mm 1 Pair of handle roses 1 Pair of CB escutcheons 4 Sleeve screws M4 x 40 mm	36–43	–	900.91.263
PC set	2 Lever handle aperture parts 1 Spindle 8 x 110 mm 1 Pair of handle roses 1 Pair of PC escutcheons 4 Sleeve screws M4 x 40 mm	36–43	–	900.92.263
WC set	2 Lever handle aperture parts 1 Spindle 8 x 110 mm 1 Pair of handle roses 1 Pair of WC escutcheons without indicator disc 1 Locking pin 8 mm 4 Sleeve screws M4 x 40 mm	36–43	–	900.93.263
PC alternate set	1 Lever handle aperture part, left hand or right hand 1 Handle rose 1 Door knob on rose 1 Alternate spindle M12, 8 x 80 mm 1 Pair of PC escutcheons 2 Sleeve screws M4 x 40 mm 2 Threaded screws M4 x 65 mm	36–43	Left Right	900.95.263 900.96.263

Model LDH 2201

1



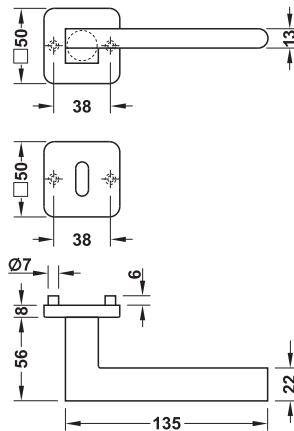
- Area of application: Suitable for residential areas and projects
- Material: Zinc alloy, substructure: Plastic
- Bearing: Spring integrated in rose
- Standard: Certified in compliance with EN 1906:2010
- Class:

3	7	-	0	0	3	0	B
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	Supplied with	Door thickness mm	Version	Pearl chrome matt	Chrome plated polished	Nickel plated matt brushed/PVD coated
CB set	2 Lever handle aperture parts 1 Spindle 8 x 110 mm 1 Pair of handle roses 1 Pair of CB escutcheons 4 Sleeve screws M4 x 40 mm	36–43	–	900.91.257	900.91.253	900.91.256
PC set	2 Lever handle aperture parts 1 Spindle 8 x 110 mm 1 Pair of handle roses 1 Pair of PC escutcheons 4 Sleeve screws M4 x 40 mm	36–43	–	900.92.257	900.92.253	900.92.256
WC set	2 Lever handle aperture parts 1 Spindle 8 x 110 mm 1 Pair of handle roses 1 Pair of WC escutcheons without indicator disc 1 Locking pin 8 mm 4 Sleeve screws M4 x 40 mm	36–43	–	900.93.257	900.93.253	900.93.256
PC alternate set	1 Lever handle aperture part, left hand or right hand 1 Handle rose 1 Door knob on rose 1 Alternate spindle M12, 8 x 80 mm 1 Pair of PC escutcheons 2 Sleeve screws M4 x 40 mm 2 Threaded screws M4 x 65 mm	36–43	Left Right	900.95.257 900.96.257	900.95.253 900.96.253	900.95.256 900.96.256

Model LDH 2202



- Area of application: Suitable for residential areas and projects
- Material: Zinc alloy, substructure: Plastic
- Bearing: Spring integrated in rose
- Standard: Certified in compliance with EN 1906:2010
- Class:

3	7	-	0	0	3	0	B
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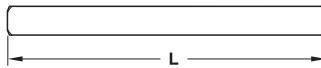
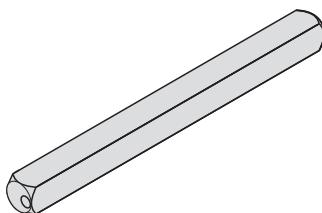


	Supplied with	Door thickness mm	Version	Pearl chrome matt	Chrome plated polished	Nickel plated matt brushed/ PVD coated
CB set	2 Lever handle aperture parts 1 Spindle 8 x 110 mm 1 Pair of handle roses 1 Pair of CB escutcheons 4 Sleeve screws M4 x 40 mm	36–43	—	900.91.261	900.91.266	900.91.262
PC set	2 Lever handle aperture parts 1 Spindle 8 x 110 mm 1 Pair of handle roses 1 Pair of PC escutcheons 4 Sleeve screws M4 x 40 mm	36–43	—	900.92.261	900.92.266	900.92.262
WC set	2 Lever handle aperture parts 1 Spindle 8 x 110 mm 1 Pair of handle roses 1 Pair of WC escutcheons without indicator disc 1 Locking pin 8 mm 4 Sleeve screws M4 x 40 mm	36–43	—	900.93.261	900.93.266	900.93.262
PC alternate set	1 Lever handle aperture part, left hand or right hand 1 Handle rose 1 Door knob on rose 1 Alternate spindle M12, 8 x 80 mm 1 Pair of PC escutcheons 2 Sleeve screws M4 x 40 mm 2 Threaded screws M4 x 65 mm	36–43	Left Right	900.95.261 900.96.261	900.95.266 900.96.266	900.95.262 900.96.262

Square spindles

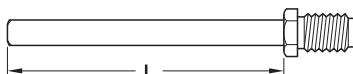
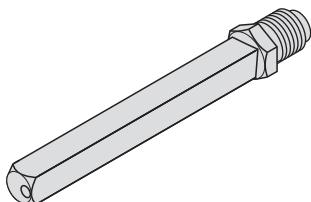
- Area of application: For models LDH 2198, 2199, 2200, 2201, 2202

→ Spindle 8 mm



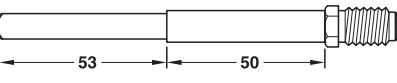
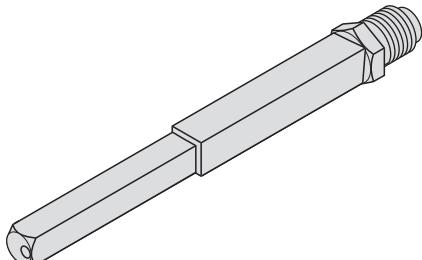
Length L mm	Cat. No.
96	909.46.025
100	909.46.028
105	909.46.030
110	909.46.031
130	909.46.035

→ Alternate spindle 8 mm, M12



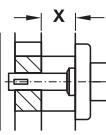
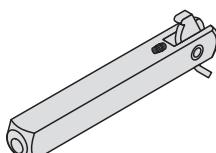
Length L mm	Cat. No.
80	909.46.040
89	909.46.041
99	909.46.042
125	909.46.043

→ Alternate spindle 8/10 mm, M12



Spindle length mm	Cat. No.
103	909.46.050

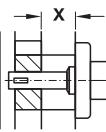
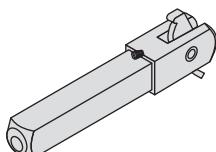
→ Alternate spindle 8 mm



- Area of application: For one-sided installation on doors

Dim. X mm	Spindle length mm	Cat. No.
11.5–16.5	60	909.46.106
17.0–22.0	71	909.46.107
22.5–27.5	82	909.46.108

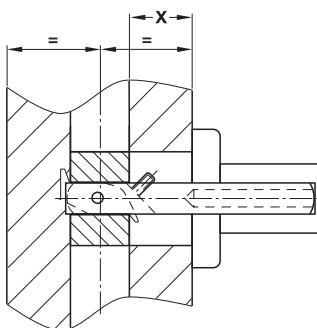
→ Alternate spindle 8/10 mm



- Area of application: For one-sided installation on doors

Dim. X mm	Spindle length mm	Cat. No.
11.5–16.5	60	909.46.116
17.0–22.0	71	909.46.117
22.5–27.5	82	909.46.118

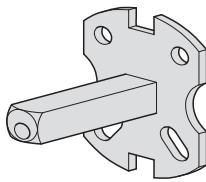
Installation



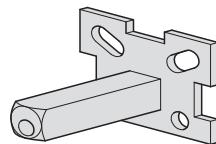
Hole direction
- hexagon socket screw
- door handle

Square spindles

→ Spindle 8 mm on plate



For rose set

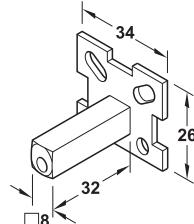
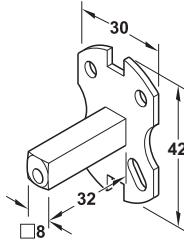


For backplate set

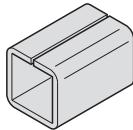
Installation

One-sided installation on blind door

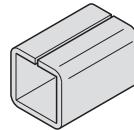
Version	Cat. No.
For rose set	909.46.060
For backplate set	909.46.061



Fixing material → Adapter sleeve



Plastic



Steel

Compensation mm	Material	Finish/colour	Cat. No.
from 6 to 8	Plastic	Black	909.46.220
from 7 to 8	Steel	Bright	909.40.500
from 8 to 8.5	Steel	Galvanized	910.50.738
from 8 to 9	Steel	Bright	909.40.501
from 8 to 10	Steel	Bright	909.40.502

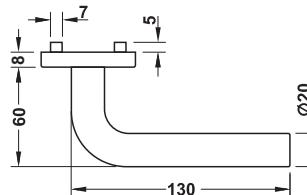
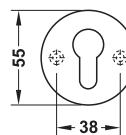
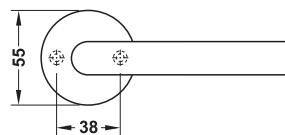
→ Hexagon socket screw, M6



Screw length mm	Cat. No.
6	909.46.090

Model PDH3101

1

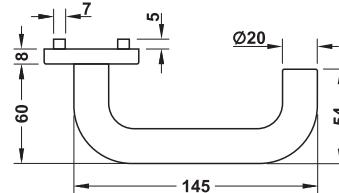
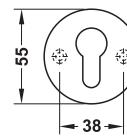
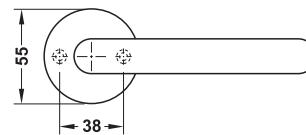


> Material: Stainless steel, substructure: Steel/plastic
 > Finish: Satin
 > Bearing: Lever handle pivot-fitted in rose, sprung
 > Standard: Certified in compliance with EN 1906:2012
 > Class: 3 | 7 | – | 0 | 0 | 4 | 0 | B

	Supplied with	Version	Door thickness mm	Cat. No.
CB set	2 Lever handle aperture parts with 2 handle roses and spindle 8 x 130 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 50 mm	–	37–46	902.91.894
PC set	2 Lever handle aperture parts with 2 handle roses and spindle 8 x 130 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 50 mm	–	37–46	902.92.894
WC set	2 Lever handle aperture parts with 2 handle roses and spindle 8 x 130 mm 1 Pair of WC escutcheons with red/white indicator disc, with protruding locking pin 8 x 58 mm 4 Threaded screws M4 x 50 mm	–	37–46	902.93.894
PC alternate set	1 Lever handle aperture part with handle rose, left or right 1 Door knob on rose with convertor spindle 8 x 80 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 50 mm	Left Right	37–46 37–46	902.95.894 902.96.894

Individual components	► AH 1.73
Mounting accessories	► AH 1.74

Model PDH3102



> Material: Stainless steel, substructure: Steel/plastic
 > Finish: Satin
 > Bearing:
 > Standard: Lever handle pivot-fitted in rose, sprung
 Certified in compliance with EN 1906:2012
 > Class:

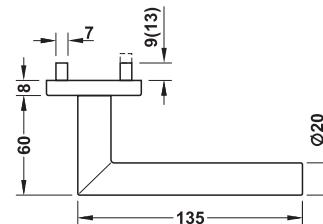
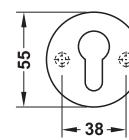
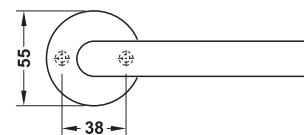
3 | 7 | – | 0 | 0 | 4 | 0 | B

GAEB

	Supplied with	Version	Door thickness mm	Cat. No.
CB set	2 Lever handle aperture parts with 2 handle roses and spindle 8 x 130 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 50 mm	–	37–46	902.91.884
PC set	2 Lever handle aperture parts with 2 handle roses and spindle 8 x 130 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 50 mm	–	37–46	902.92.884
WC set	2 Lever handle aperture parts with spindle 8 x 130 mm 1 Pair of WC escutcheons with red/white indicator disc, with protruding locking pin 8 x 58 mm 4 Threaded screws M4 x 50 mm	–	37–46	902.93.884
PC alternate set	1 Lever handle aperture part with handle rose, left or right 1 Door knob on rose with convertor spindle 8 x 80 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 50 mm	Left Right	37–46 37–46	902.95.884 902.96.884

Model PDH3103

1



With 1-piece rose

With 2-piece (separated) rose

Dim. in brackets apply to 1-piece rose

> Material:	Stainless Steel, substructure: Steel/plastic											
> Finish:	Satin											
> Bearing:	Lever handle pivot-fitted in rose, sprung											
> Standard:	Certified in compliance with EN 1906:2012											
> Class:	<table border="1" style="margin-left: auto; margin-right: auto;"><tr><td>3</td><td>7</td><td>–</td><td>0</td><td>0</td><td>4</td><td>0</td><td>B</td></tr></table>				3	7	–	0	0	4	0	B
3	7	–	0	0	4	0	B					

	Supplied with	Version	Door thickness mm	With 1-piece rose	With 2-piece (separated) rose
CB set	2 Lever handle aperture parts with 2 handle roses and spindle 8 x 130 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 50 mm	–	37–52* / 37–46**	902.91.886	902.91.892
PC set	2 Lever handle aperture parts with 2 handle roses and spindle 8 x 130 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 50 mm	–	37–52* / 37–46**	902.92.886	902.92.892
WC set	2 Lever handle aperture parts with 2 handle roses and spindle 8 x 130 mm 1 Pair of WC escutcheons with red/white indicator disc, with protruding locking pin 8 x 58 mm 4 Threaded screws M4 x 50 mm	–	37–52* / 37–46**	902.93.886	902.93.892
PC alternate set	1 Lever handle aperture part with handle rose, left or right 1 Door knob on rose with convertor spindle 8 x 80 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 50 mm	Left Right	37–52* / 37–46** 37–52* / 37–46**	902.95.886 902.96.886	902.95.892 902.96.892

Note

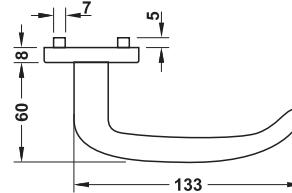
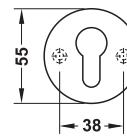
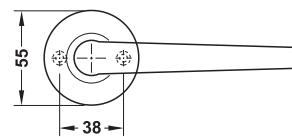
* Sets with 1-piece rose

** Sets with 2-piece rose

Please order 2-piece (separated) rose version in combination with suitable mounting accessories (screws and spindles) for door thicknesses ≥52 mm.

Individual components	► AH 1.73
Mounting accessories	► AH 1.74
Window handles	► AH 1.132

Model PDH3104



- > Material:
- > Finish:
- > Bearing:
- > Standard:
- > Class:

Stainless steel, substructure: Steel/plastic
Satin
Lever handle pivot-fitted in rose, sprung
Certified in compliance with EN 1906:2012

3 | 7 | 0 | 0 | 4 | 0 | B

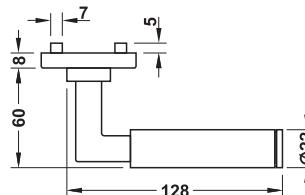
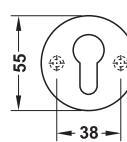
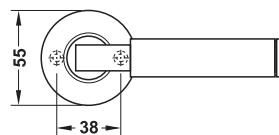


	Supplied with	Version	Door thickness mm	Cat. No.
CB set	2 Lever handle aperture parts with 2 handle roses and spindle 8 x 130 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 50 mm	–	37–46	902.91.896
PC set	2 Lever handle aperture parts with 2 handle roses and spindle 8 x 130 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 50 mm	–	37–46	902.92.896
WC set	2 Lever handle aperture parts with 2 handle roses and spindle 8 x 130 mm 1 Pair of WC escutcheons with red/white indicator disc, with protruding locking pin 8 x 58 mm 4 Threaded screws M4 x 50 mm	–	37–46	902.93.896
PC alternate set	1 Lever handle aperture part with handle rose, left or right 1 Door knob on rose with convertor spindle 8 x 80 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 50 mm	Left Right	37–46 37–46	902.95.896 902.96.896

Individual components	► AH 1.73
Mounting accessories	► AH 1.74
Window handles	► AH 1.132

Model PDH3107

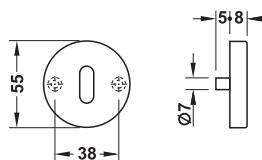
1



> Material: Stainless steel, substructure: Steel/plastic
 > Finish: Satin
 > Bearing: Lever handle pivot-fitted in rose, sprung
 > Standard: Certified in compliance with EN 1906:2012
 > Class: 3 | 7 | – | 0 | 0 | 4 | 0 | B

	Supplied with	Version	Door thickness mm	Cat. No.
CB set	2 Lever handle aperture parts with 2 handle roses and spindle 8 x 110 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 50 mm	–	37–46	902.91.906
PC set	2 Lever handle aperture parts with 2 handle roses and spindle 8 x 110 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 50 mm	–	37–46	902.92.906
WC set	2 Lever handle aperture parts with 2 handle roses and spindle 8 x 110 mm 1 Pair of WC escutcheons with red/white indicator disc, with protruding locking pin 8 x 58 mm 4 Threaded screws M4 x 50 mm	–	37–46	902.93.906
PC alternate set	1 Lever handle aperture part with handle rose, left or right 1 Door knob on rose with convertor spindle 8 x 80 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 50 mm	Left Right	37–46	902.95.906 902.96.906

→ CB escutcheons

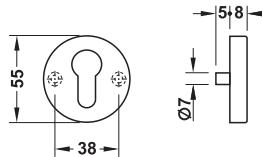


Supplied with

- 1 Pair of CB escutcheons
2 Threaded screws M4 x 50 mm

Door thickness mm	Cat. No.
37–46	902.51.192

→ PC escutcheons

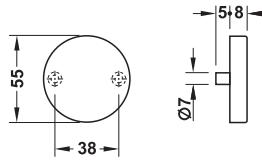


Supplied with

- 1 Pair of PC escutcheons
2 Threaded screws M4 x 50 mm

Door thickness mm	Cat. No.
37–46	902.52.192

→ Escutcheons, blank

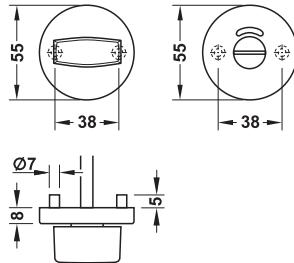


Supplied with

- 1 Pair of blank escutcheons
2 Threaded screws M4 x 50 mm

Door thickness mm	Cat. No.
37–46	902.55.192

→ WC escutcheons



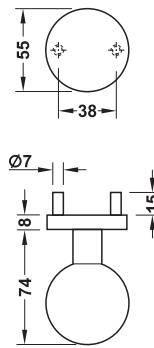
- Version: Escutcheon outside with red/white indicator disc and emergency opening function (slot)

Supplied with

- 1 Pair of WC escutcheons
1 Protruding locking pin 8 x 80 mm,
firmly connected with escutcheon outside
2 Threaded screws M4 x 70 mm

Door thickness mm	Cat. No.
52–66	902.53.192

→ Ball knob on round rose

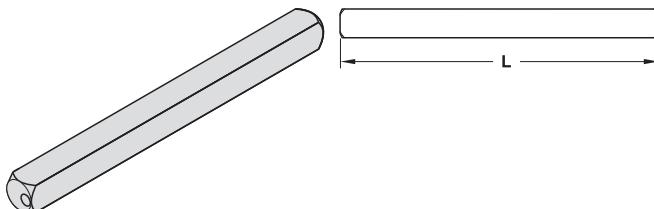


Version	Cat. No.
Fixed, with M12 internal thread, without alternate spindle, without screws	902.70.006

Square spindles

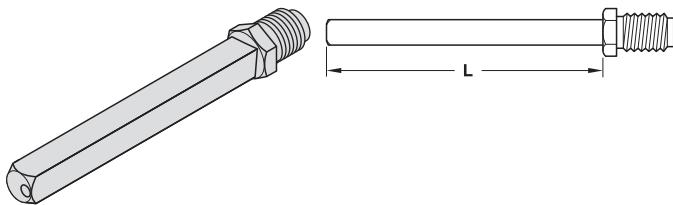
- Area of application: For Startec door handle sets model series PDH3

→ Spindle 8 mm



Length L mm	Door thickness mm	Cat. No.
100	37–58	909.46.301
120	55–78	909.46.302
140	75–98	909.46.303

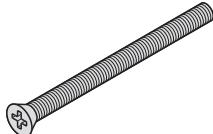
→ Alternate spindle 8 mm, M12



Spindle length mm	Door thickness mm	Cat. No.
80	37–58	909.46.311
100	57–78	909.46.312
120	77–98	909.46.313

Fixing material

→ Threaded screw, M4, DIN 965



Screw length mm	Door thickness mm	Cat. No.
50	37–46* / 45–58**	909.46.321
60	47–56* / 55–68**	909.46.322
70	57–66* / 65–78**	909.46.323
80	67–76* / 75–88**	909.46.324
90	77–86* / 85–98**	909.46.325

Note

* for PDH3 door handle sets with rose.
** for PDH3 door handle sets with short backplate,
in combination with sleeve nut M4x24 mm
(supplied with the set).

→ Hexagon socket screw, M6



Screw length mm	Cat. No.
7	909.46.331

Häfele Stainless steel cleaning and maintenance spray



- Area of application: Removes limescale, grease and similar soiling from stainless steel surfaces rapidly and completely without problems, the treated surfaces are restored to their original appearance and are given long-lasting protection from oxidation and environmental deposits by an adherent water and dirt-repelling protective coating, no more fingerprints on surfaces, minimises electrostatic charging, painted surfaces are not attacked, free of environmentally harmful substances, for universal indoor and outdoor use, e.g. for stainless steel fittings, balcony rails, handrails, claddings, furniture, kitchen appliances, sink units, tiled stoves

Contents	Cat. No.
400 ml	003.52.810

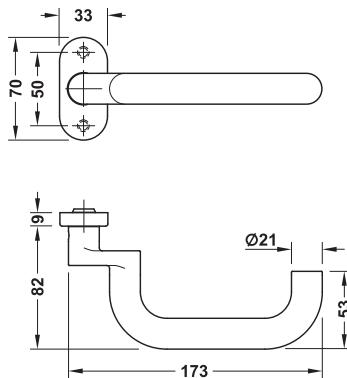
Lever handle aperture parts

- Material: Stainless steel, substructure: Stainless steel/plastic
- Finish: Satin
- Bearing: Lever handle pivot-fitted in rose, sprung and with concealed, secure screw fixing
- Mounting: For left or right hand use

Note

F Tested as complete set to DIN 18273:1997.
Fire resistant anti-panic set only in combination with approved lock types that comply with EN 179:2008.

→ PDH5102 A – 5 series



Supplied with

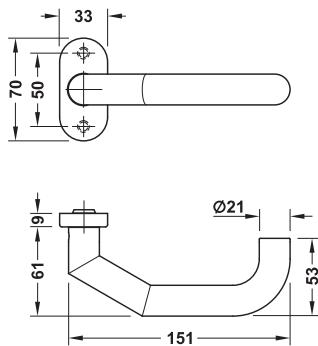
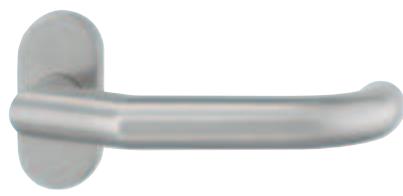
1 lever handle with handle rose

	Version	Cat. No.
Aperture part	For spindle 8 mm	903.30.010
	For spindle 9 mm F	903.30.012

Order reference

Spindle and fixing material not supplied.
Please order separately.

→ PDH5102 B – 5 series



Supplied with

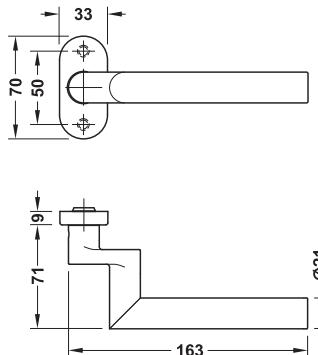
1 lever handle with handle rose

	Version	Cat. No.
Aperture part	For spindle 8 mm	903.30.014
	For spindle 9 mm F	903.30.016

Order reference

Spindle and fixing material not supplied.
Please order separately.

→ PDH5103 A – 5 series



Supplied with

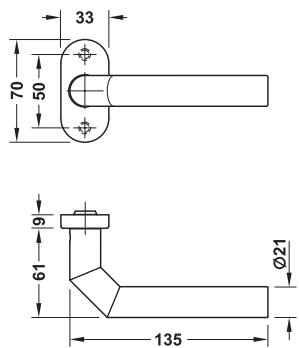
1 lever handle with handle rose

	Version	Cat. No.
Aperture part	For spindle 8 mm	903.30.018
	For spindle 9 mm F	903.30.020

Order reference

Spindle and fixing material not supplied.
Please order separately.

→ PDH5103 B – 5 series



Supplied with

1 lever handle with handle rose

	Version	Cat. No.
Aperture part	For spindle 8 mm	903.30.022
	For spindle 9 mm F	903.30.024

Order reference

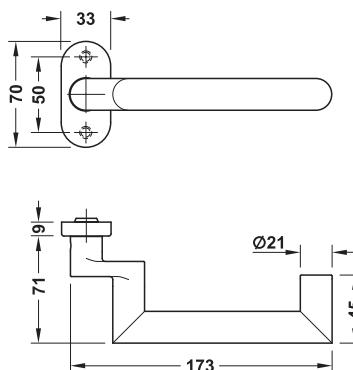
Spindle and fixing material not supplied.
Please order separately.

Mounting accessories

► AH 1.78

1

→ PDH5106 A – 5 series

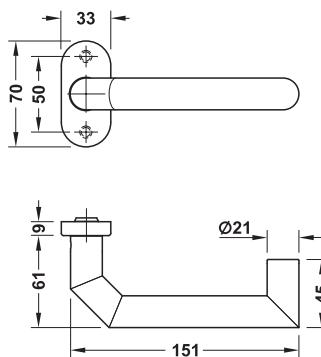


Supplied with
1 Lever handle with handle rose

	Version	Cat. No.
Aperture part	For spindle 8 mm	903.30.026
	For spindle 9 mm	903.30.028

Order reference
Spindle and fixing material not supplied.
Please order separately.

→ PDH5106 B – 5 series



Supplied with
1 Lever handle with handle rose

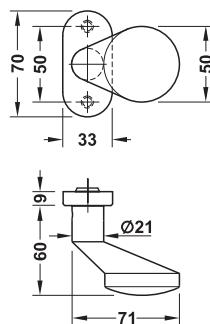
	Version	Cat. No.
Aperture part	For spindle 8 mm	903.30.030
	For spindle 9 mm	903.30.032

Order reference
Spindle and fixing material not supplied.
Please order separately.

Accessories for lever handle aperture parts for narrow frame doors – 5 series

- Material: Stainless steel, substructure: Steel/plastic
- Finish: Satin
- Mounting: For left or right hand use

→ Flat knob



Note

F Tested as complete set to DIN 18273:1997.
Fire resistant anti-panic set only in combination with approved lock types that comply with EN 179:2008.

Supplied with

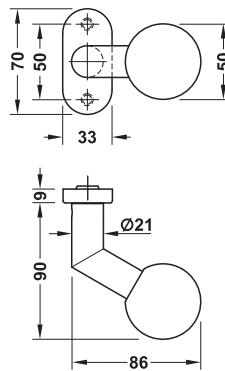
1 door knob with handle rose

	Cat. No.
Flat knob with M8 internal thread	F 903.70.008
Knob handle for spindle 8 mm	903.70.054
Knob handle for spindle 9 mm	F 903.70.010

Order reference

Spindle and fixing material not supplied.
Please order separately.

→ Ball knob



Supplied with

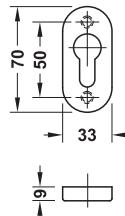
1 door knob with handle rose

	Cat. No.
Ball knob with M8 internal thread	F 903.70.014
Knob handle for spindle 8 mm	903.70.056
Knob handle for spindle 9 mm	F 903.70.018

Order reference

Spindle and fixing material not supplied.
Please order separately.

→ PC escutcheon



Supplied with

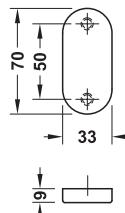
1 PC escutcheon

	Cat. No.
PC escutcheon	903.52.010

Order reference

Fixing material not supplied. Please order separately.

→ Blank escutcheon



Supplied with

1 blank escutcheon

	Cat. No.
Blank escutcheon	903.54.010

Order reference

Fixing material not supplied. Please order separately.

Lever handle aperture parts

► AH 1.75

Mounting accessories

► AH 1.78

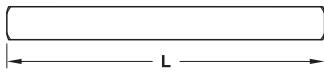
Square spindles for narrow frame doors - 5 series

- Area of application: For Startec door handle sets, door knobs and knob handles of model series PDH5

Note

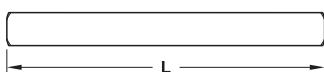
F Tested as complete set to DIN 18273:1997

→ Spindle 8 mm, for architectural doors



For door thickness mm	Length L mm	Cat. No.
30–50	100	909.06.001
45–65	115	909.06.002
60–80	130	909.06.003

→ Spindle 9 mm, for fire resistant doors



For door thickness mm	Length L mm	Cat. No.
30–50	100	909.06.011
45–65	115	909.06.012
60–80	130	909.06.013

→ Alternate spindle 8 mm, M8, for architectural doors



For door thickness mm	Length L mm	Cat. No.
37–55	85	909.06.021
50–65	95	909.06.022
60–80	105	909.06.023

→ Alternate spindle 9 mm, M8, for fire resistant doors



For door thickness mm	Length L mm	Cat. No.
37–55	85	909.06.031
50–65	95	909.06.032
60–80	105	909.06.033

Fixing material for projects and for narrow frame doors

- Area of application: For interior doors for projects

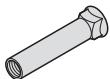
→ Threaded screw, M5, TX25



For door thickness mm	Length L mm	Cat. No.
37–52	45	909.06.051
52–72	60	909.06.052
72–92	80	909.06.053

Packing: 1 piece

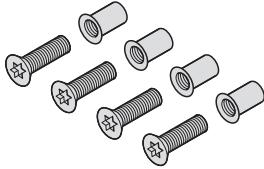
→ Threaded sleeve, M5 x 30 mm



	Cat. No.
Threaded sleeve M5 x 30 mm	909.06.061

Packing: 1 piece

→ Fixing set for narrow frame doors



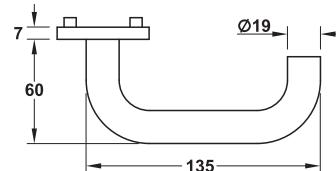
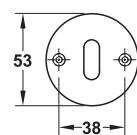
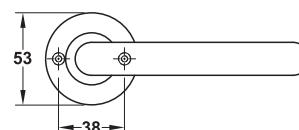
- Area of application: For narrow frame doors, for fixing lever handles, door knobs, roses and escutcheons

Supplied with	Cat. No.
4 Threaded screws M5 x 16 mm	909.06.070
4 Clinch nuts M5	

Packing: 1 set

Model PDH4170

1



- Material: Stainless steel, substructure: Steel
- Finish: Matt
- Bearing: Lever handle pivot-fitted in rose, sprung
- Standard: Certified in compliance with EN 1906:2010
- Class: 4 | 7 | – | B | 1 | 4 | 0 | B

	Supplied with	Door thickness mm	Cat. No.
CB set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.91.276
PC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.92.276
WC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of WC escutcheons with red/green indicator disc 1 Locking pin 8 x 75 mm 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.93.276

Individual components

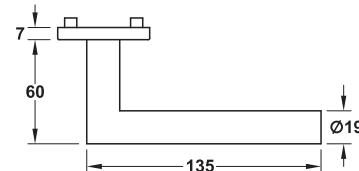
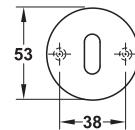
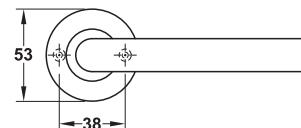
► AH 1.92

Mounting accessories for
other door thicknesses

► AH 1.93

Model PDH4171

1



- Material: Stainless steel, substructure: Steel
- Bearing: Lever handle pivot-fitted in rose, sprung
- Standard: Certified in compliance with EN 1906:2010
- Class:

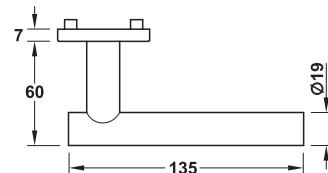
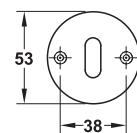
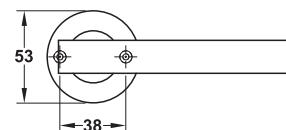
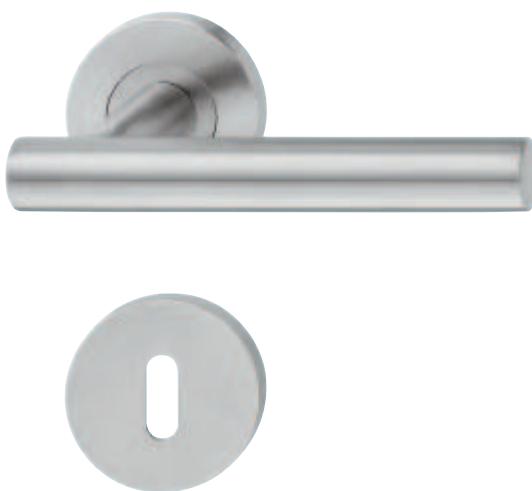
4	7	-	B	1	4	0	B
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	Supplied with	Door thickness mm	Matt	Polished	Brass coloured polished, PVD coated
CB set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.91.076	903.91.077	903.91.078
PC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.92.076	903.92.077	903.92.078
WC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of WC escutcheons with red/green indicator disc 1 Locking pin 8 x 75 mm 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.93.076	903.93.077	903.93.078

Model PDH4172

1



- Material: Stainless steel, substructure: Steel
- Bearing: Lever handle pivot-fitted in rose, sprung
- Standard: Certified in compliance with EN 1906:2010
- Class:

4	7	-	B	1	4	0	B
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	Supplied with	Door thickness mm	Matt	Polished	Brass coloured polished, PVD coated
CB set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.91.092	903.91.093	903.91.094
PC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.92.092	903.92.093	903.92.094
WC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of WC escutcheons with red/green indicator disc 1 Locking pin 8 x 75 mm 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.93.092	903.93.093	903.93.094

Individual components

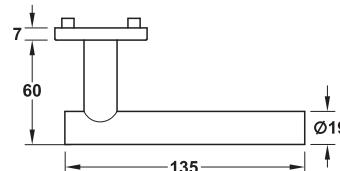
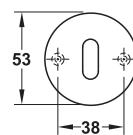
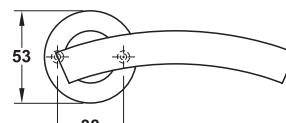
► AH 1.92

Mounting accessories for
other door thicknesses

► AH 1.93

Model PDH4173

1



- Material: Stainless steel, substructure: Steel
- Bearing: Lever handle pivot-fitted in rose, sprung
- Standard: Certified in compliance with EN 1906:2010
- Class:

4	7	-	B	1	4	0	B
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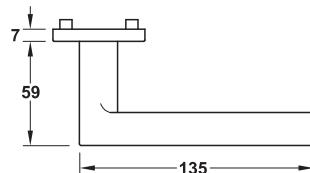
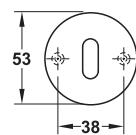
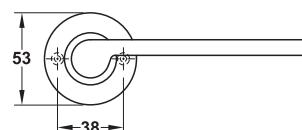


	Supplied with	Door thickness mm	Matt	Polished	Brass coloured polished, PVD coated
CB set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.91.096	903.91.097	903.91.098
PC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.92.096	903.92.097	903.92.098
WC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of WC escutcheons with red/green indicator disc 1 Locking pin 8 x 75 mm 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.93.096	903.93.097	903.93.098

Individual components	► AH 1.92
Mounting accessories for other door thicknesses	► AH 1.93

Model PDH4174

1



- Material: Stainless steel, substructure: Steel
- Bearing: Lever handle pivot-fitted in rose, sprung
- Standard: Certified in compliance with EN 1906:2010
- Class:

4	7	-	B	1	4	0	B
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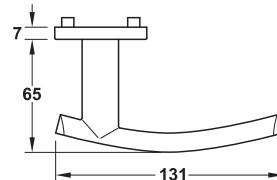
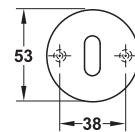
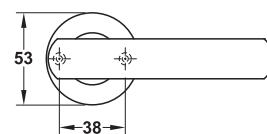


	Supplied with	Door thickness mm	Matt	Polished
CB set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.91.114	903.91.115
PC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.92.114	903.92.115
WC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of WC escutcheons with red/green indicator disc 1 Locking pin 8 x 75 mm 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.93.114	903.93.115

Individual components ▶ AH 1.92

Mounting accessories for other door thicknesses ▶ AH 1.93

Model PDH4175



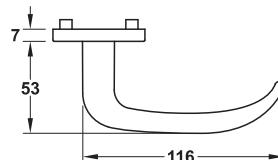
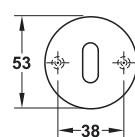
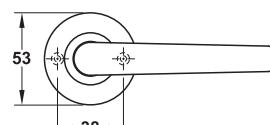
- Material: Stainless steel, substructure: Steel
- Bearing: Lever handle pivot-fitted in rose, sprung
- Standard: Certified in compliance with EN 1906:2010
- Class: 4 | 7 | - | B | 1 | 4 | 0 | B



	Supplied with	Door thickness mm	Matt	Polished
CB set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.91.154	903.91.155
PC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.92.154	903.92.155
WC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of WC escutcheons with red/green indicator disc 1 Locking pin 8 x 75 mm 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.93.154	903.93.155

Model PDH4176

1



- Material: Stainless steel, substructure: Steel
- Bearing: Lever handle pivot-fitted in rose, sprung
- Standard: Certified in compliance with EN 1906:2010
- Class:

4	7	-	B	1	4	0	B
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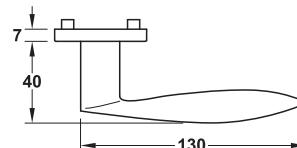
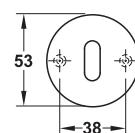
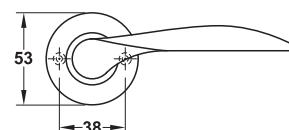


	Supplied with	Door thickness mm	Matt	Polished	Brass coloured polished, PVD coated
CB set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.91.157	903.91.158	903.91.159
PC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.92.157	903.92.158	903.92.159
WC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of WC escutcheons with red/green indicator disc 1 Locking pin 8 x 75 mm 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.93.157	903.93.158	903.93.159

Individual components	► AH 1.92
Mounting accessories for other door thicknesses	► AH 1.93

Model PDH4177

1



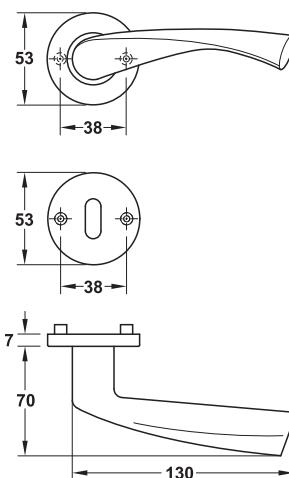
- Material: Stainless steel, substructure: Steel
- Bearing: Lever handle pivot-fitted in rose, sprung
- Standard: Certified in compliance with EN 1906:2010
- Class: 4 | 7 | - | B | 1 | 4 | 0 | B



	Supplied with	Door thickness mm	Matt	Polished	Brass coloured polished, PVD coated
CB set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.91.172	903.91.173	903.91.174
PC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.92.172	903.92.173	903.92.174
WC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of WC escutcheons with red/green indicator disc 1 Locking pin 8 x 75 mm 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.93.172	903.93.173	903.93.174

Model PDH4178

1



- Material: Stainless steel, substructure: Steel
- Bearing: Lever handle pivot-fitted in rose, sprung
- Standard: Certified in compliance with EN 1906:2010
- Class:

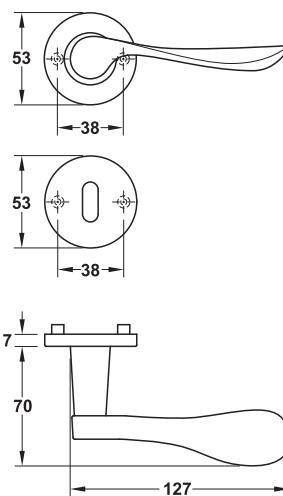
4	7	-	B	1	4	0	B
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	Supplied with	Door thickness mm	Matt	Polished	Brass coloured polished, PVD coated
CB set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.91.192	903.91.193	903.91.194
PC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.92.192	903.92.193	903.92.194
WC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of WC escutcheons with red/green indicator disc 1 Locking pin 8 x 75 mm 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.93.192	903.93.193	903.93.194

Individual components	► AH 1.92
Mounting accessories for other door thicknesses	► AH 1.93

Model PDH4179



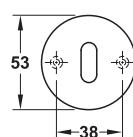
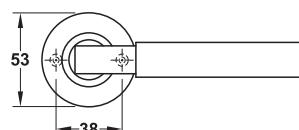
- Material: Stainless steel, substructure: Steel
- Bearing: Lever handle pivot-fitted in rose, sprung
- Standard: Certified in compliance with EN 1906:2010
- Class: 4 | 7 - | B | 1 | 4 | 0 | B



	Supplied with	Door thickness mm	Matt	Polished	Brass coloured polished, PVD coated
CB set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.91.257	903.91.258	903.91.259
PC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.92.257	903.92.258	903.92.259
WC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of WC escutcheons with red/green indicator disc 1 Locking pin 8 x 75 mm 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.93.257	903.93.258	903.93.259

Model PDH4180

1



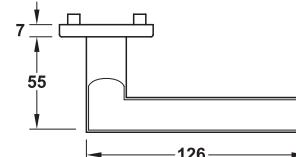
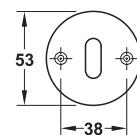
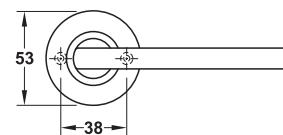
- Material: Stainless steel, substructure: Steel
- Finish: Polished/matt
- Bearing: Lever handle pivot-fitted in rose, sprung
- Standard: Certified in compliance with EN 1906:2010
- Class: 4 | 7 | – | B | 1 | 4 | 0 | B

	Supplied with	Door thickness mm	Cat. No.
CB set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.91.336
PC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.92.336
WC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of WC escutcheons with red/green indicator disc 1 Locking pin 8 x 75 mm 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.93.336

Individual components ► AH 1.92

Mounting accessories for other door thicknesses ► AH 1.93

Model PDH4181



- Material: Stainless steel, substructure: Steel
- Bearing: Lever handle pivot-fitted in rose, sprung
- Standard: Certified in compliance with EN 1906:2010
- Class:

4	7	-	B	1	4	0	B
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	Supplied with	Door thickness mm	Matt	Polished	Brass coloured polished, PVD coated
CB set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of CB escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.91.352	903.91.353	903.91.354
PC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of PC escutcheons 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.92.352	903.92.353	903.92.354
WC set	2 Lever handle aperture parts with handle roses 1 Spindle 8 x 100 mm 1 Pair of WC escutcheons with red/green indicator disc 1 Locking pin 8 x 75 mm 4 Threaded screws M4 x 60 mm, can be shortened	38 – 55	903.93.352	903.93.353	903.93.354

Individual components ► AH 1.92

Mounting accessories for other door thicknesses ► AH 1.93

Individual set components: Lever handles

- Material Stainless steel, steel substructure
- Finish Matt
- Bearing Lever handle pivot-fitted in rose, with height holding mechanism

	Model	Version	Matt	Polished	Brass coloured polished, PVD coated
	PDH4170	Left	902.31.010	–	–
		Right	902.32.010	–	–
	PDH4171	Left	902.31.020	902.31.021	902.31.028
		Right	902.32.020	902.32.021	902.32.028
	PDH4172	Left	902.31.030	902.31.031	902.31.038
		Right	902.32.030	902.32.031	902.32.038
	PDH4173	Left	902.31.040	902.31.041	902.31.048
		Right	902.32.040	902.32.041	902.32.048

Individual set components: PC escutcheons

	Matt	Polished	Brass coloured polished, PVD coated
	903.52.720	903.52.721	903.52.728

Individual set components: WC locks

Supplied with

1 Pair of WC escutcheons with red/green indicator disc and locking pin 8 x 70 mm for door thicknesses 38 – 55 mm

	Matt	Polished	Brass coloured polished, PVD coated
	903.53.740	903.53.741	903.53.748

Individual set components: Door knobs

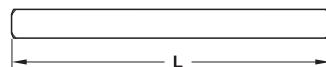
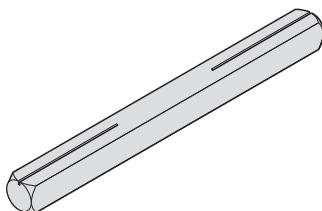
Supplied with

1 Door knob on rose with alternate spindle M12 x 8 x 80 mm for door thicknesses 38 – 65 mm

	Matt	Polished
Ball knob 50 mm	903.70.070	903.70.071
		
Flat knob, round 50 mm	903.70.080	903.70.081
		

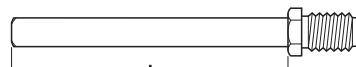
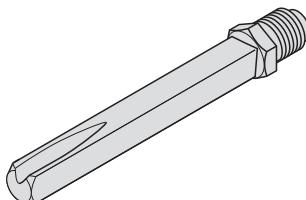
Mounting accessories

→ Spindle 8 mm



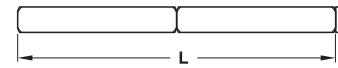
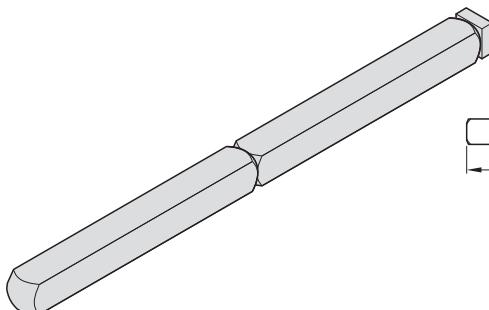
Length L mm	Cat. No.
100	909.00.230
110	909.00.231
120	909.00.232

→ Alternate spindle 8 mm, M12



Length L mm	Cat. No.
100	909.00.250
110	909.00.251

→ Spindle, 8 x 8 x 100 mm, split in centre

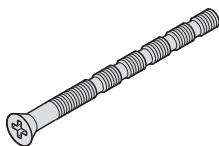


Note

Not suitable for use on anti-panic doors in compliance with EN179:2008-04.

Length L mm	Cat. No.
100	909.00.270

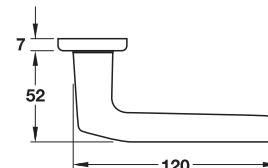
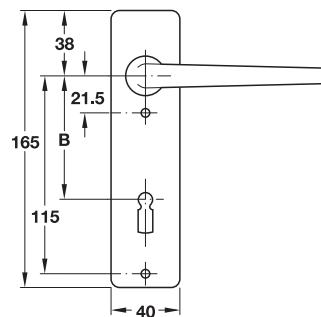
→ Mounting accessories



Screw length mm	Cat. No.
60	909.00.216
70	909.00.217
80	909.00.218

Model A91.12 TW-KS

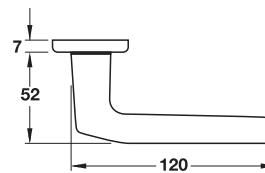
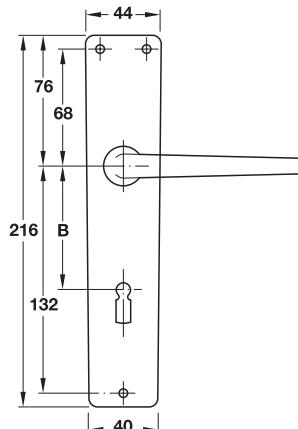
1



- Material: Aluminium
- Finish: Silver coloured anodized

	Supplied with	Distance B mm	Door thickness mm	Cat. No.
CB set  	1 Pair of lever handles with spindle 8 mm 1 Pair of short CB backplates 1 Sleeve screw M4 x 45 mm 2 Chipboard screws 3.5 x 17 mm	72	38–42	904.91.531
PC set  	1 Pair of lever handles with spindle 8 mm 1 Pair of short PC backplates 1 Sleeve screw M4 x 45 mm 2 Chipboard screws 3.5 x 17 mm	72	38–42	904.92.531
WC set  	1 Pair of lever handles with spindle 8 mm 1 Pair of short WC backplates with indicator disc 1 Locking pin 8 x 65 mm 1 Sleeve screw M4 x 45 mm 2 Chipboard screws 3.5 x 17 mm	78	38–42	904.93.531
PC alternate set  	1 Lever handle aperture part 1 Short PC backplate 1 Short PC knob backplate 1 Alternate spindle 8 x 80 mm 1 Sleeve screw M4 x 45 mm 2 Chipboard screws 3.5 x 17 mm	72	38–42	904.95.531

Model A91.12 TW-LS

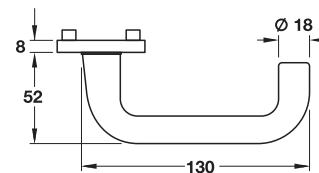
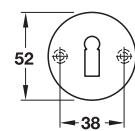
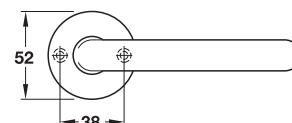


- Material: Aluminium
- Finish: Silver coloured anodized

	Supplied with	Distance B mm	Door thickness mm	Cat. No.
CB set	1 Pair of lever handles with spindle 8 mm 1 Pair of long CB backplates 6 Chipboard screws 3.5 x 17 mm	72	38–42	904.91.541
PC set	1 Pair of lever handles with spindle 8 mm 1 Pair of long PC backplates 6 Chipboard screws 3.5 x 17 mm	72	38–42	904.92.541
WC set	1 Pair of lever handles with spindle 8 mm 1 Pair of long WC backplates with indicator disc 1 Locking pin 8 x 65 mm 6 Chipboard screws 3.5 x 17 mm	78	38–42	904.93.541
PC alternate set	1 Lever handle aperture part 1 Long PC backplate 1 Long PC knob backplate 1 Alternate spindle 8 x 80 mm 6 Chipboard screws 3.5 x 17 mm	72	38–42	904.95.541

Model A91.34 TW-R

1

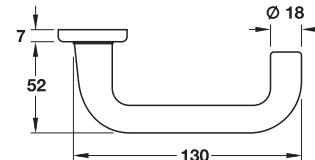
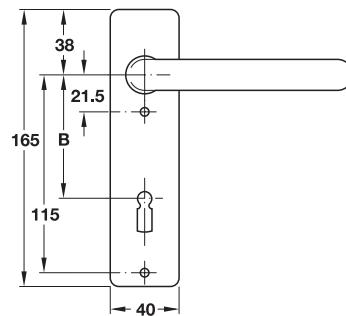


- Material: Aluminium
- Finish: Silver coloured anodized

	Supplied with	Door thickness mm	Cat. No.
CB set	  1 Pair of lever handles with spindle 8 mm 1 Pair of handle roses 1 Pair of CB escutcheons 4 Sleeve screws M4 x 40 mm	38 – 42	904.91.521
PC set	  1 Pair of lever handles with spindle 8 mm 1 Pair of handle roses 1 Pair of PC escutcheons 4 Sleeve screws M4 x 40 mm	38 – 42	904.92.521
WC set	  1 Pair of lever handles with spindle 8 mm 1 Pair of handle roses 1 Pair of WC escutcheons with indicator disc 1 Locking pin 8 x 70 mm 2 Sleeve screws M4 x 40 mm 2 Threaded screws M4 x 45 mm	40 – 42	904.93.521
PC alternate set	  1 Lever handle aperture part 1 Handle rose 1 Door knob on rose 1 Alternate spindle 8 x 80 mm 1 Pair of PC escutcheons 2 Sleeve screws M4 x 40 mm 2 Threaded screws M4 x 45 mm	38 – 42	904.95.521

Individual components	► AH 1.99
Mounting accessories	► AH 1.100

Model A91.34 TW-KS

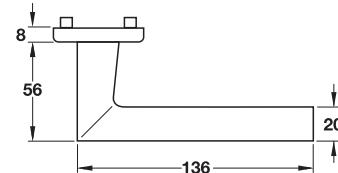
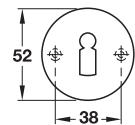
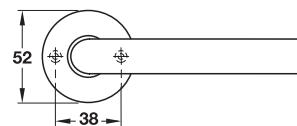


- Material: Aluminium
- Finish: Silver coloured anodized

	Supplied with	Distance B mm	Door thickness mm	Cat. No.
CB set	1 Pair of lever handles with spindle 8 mm 1 Pair of short CB backplates 1 Sleeve screw M4 x 45 mm 2 Chipboard screws 3.5 x 17 mm	72	38 – 42	904.91.511
PC set	1 Pair of lever handles with spindle 8 mm 1 Pair of short PC backplates 1 Sleeve screw M4 x 45 mm 2 Chipboard screws 3.5 x 17 mm	72	38 – 42	904.92.511
WC set	1 Pair of lever handles with spindle 8 mm 1 Pair of short WC backplates with indicator disc 1 Locking pin 8 x 65 mm 1 Sleeve screw M4 x 45 mm 2 Chipboard screws 3.5 x 17 mm	78	38 – 42	904.93.511
PC alternate set	1 Lever handle aperture part 1 Short PC backplate 1 Short PC knob backplate 1 Alternate spindle 8 x 80 mm 1 Sleeve screw M4 x 45 mm 2 Chipboard screws 3.5 x 17 mm	72	38 – 42	904.95.511

Model A91.38 TW-R

1



- Material: Aluminium
- Finish: Silver coloured anodized

	Supplied with	Door thickness mm	Cat. No.
CB set	1 Pair of lever handles with spindle 8 mm 1 Pair of handle roses 1 Pair of CB escutcheons 4 Sleeve screws M4 x 40 mm	38 – 42	904.91.871
PC set	1 Pair of lever handles with spindle 8 mm 1 Pair of handle roses 1 Pair of PC escutcheons 4 Sleeve screws M4 x 40 mm	38 – 42	904.92.871
WC set	1 Pair of lever handles with spindle 8 mm 1 Pair of handle roses 1 Pair of WC escutcheons with indicator disc 1 Locking pin 8 x 70 mm 2 Sleeve screws M4 x 40 mm 2 Threaded screws M4 x 45 mm	40 – 42	904.93.871
PC alternate set	1 Lever handle aperture part 1 Handle rose 1 Door knob on rose 1 Alternate spindle 8 x 80 mm 1 Pair of PC escutcheons 2 Sleeve screws M4 x 40 mm 2 Threaded screws M4 x 45 mm	38 – 42	904.95.871

Individual components	► AH 1.99
Mounting accessories	► AH 1.100

Individual set components: Lever handles

- Material: Aluminium

	Model	Version	Finish	Packing	Cat. No.
	A91.12 TW	Lever handle	Silver coloured anodized	1 pair	904.20.521
		Aperture part		1 piece	904.30.521
	A91.34 TW	Lever handle	Silver coloured anodized	1 pair	904.20.511
		Aperture part		1 piece	904.30.511
	A91.38 TW	Lever handle	Silver coloured anodized	1 pair	904.20.541
		Aperture part		1 piece	904.30.541

Individual set components: Roses and escutcheons

- Material: Aluminium

Used with lever handles	Finish	Packing	Cat. No.
Handle rose			
	Silver coloured anodized	1 or 20 pieces	904.50.321
CB escutcheon			
	Silver coloured anodized	1 pair	904.51.251
PC escutcheon			
	Silver coloured anodized	10 pair	904.52.251
WC escutcheon with indicator disc and locking pin 8 x 70 mm			
	Silver coloured anodized	1 pair	904.53.251

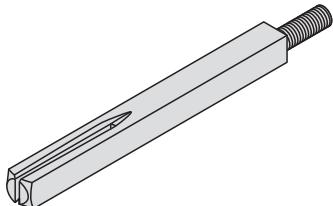
Individual set components: Door knob

- Material: Aluminium

	Finish	Packing	Cat. No.
Door knob on rose			
	Silver coloured anodized	1 piece	904.70.251

Square spindles

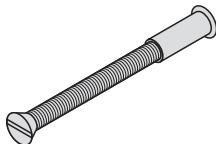
→ Alternate spindle 8 mm, M6



For door thickness mm	Spindle length mm	Cat. No.
38 – 42	80	909.84.380

Fixing materials

→ M4 sleeve screw



- Area of application: For handle roses, CB escutcheons and PC escutcheons

For door thickness mm	Screw length mm	Cat. No.
35–40	40	909.93.846
41–45	45	909.97.341
46–50	50	909.97.346

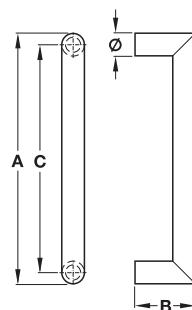
→ M4 threaded screw



- Area of application: For knob roses and WC escutcheons

For door thickness mm	Screw length mm	Cat. No.
38–42	45	020.09.711

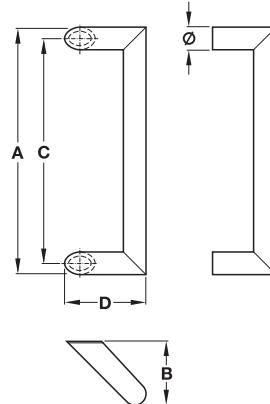
Model PH 2110



- Material: Stainless steel
- Finish: Matt
- Version: Straight supports

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Cat. No.
25	325	75	300	903.00.393
	375		350	903.00.394
30	330	80	300	903.00.443
	380		350	903.00.444

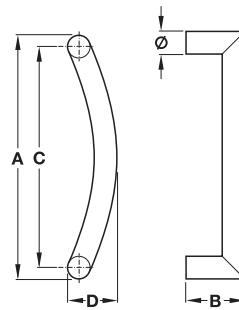
Model PH 2111



- Material: Stainless steel
- Finish: Matt
- Version: Inclined supports (60°)

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Cat. No.
30	330	90	300	76	903.00.453
	380		350		903.00.454

Model PH 2112



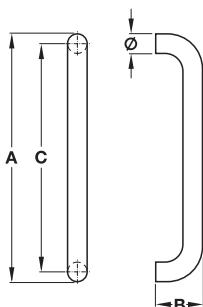
- Material: Stainless steel
- Finish: Matt
- Version: Straight supports

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Cat. No.
30	330	80	300	85	903.00.463
	380		350	105	903.00.464

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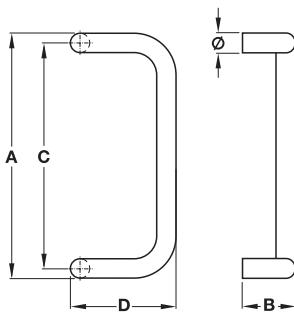
Model PH 2113



- Material: Stainless steel
- Finish: Matt
- Version: Straight supports

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Cat. No.
30	330	80	300	903.00.853
	380		350	903.00.863

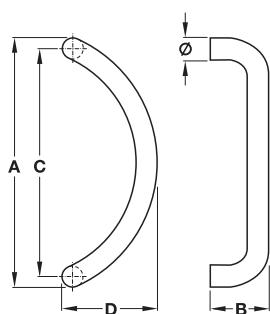
Model PH 2114



- Material: Stainless steel
- Finish: Matt
- Version: Straight supports

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Cat. No.
30	330	80	300	145	903.00.953
	380		350	145	903.00.963

Model PH 2115



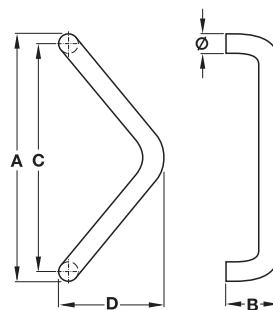
- Material: Stainless steel
- Finish: Matt
- Version: Straight supports

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Cat. No.
30	330	80	300	110	903.02.973
	380		350	145	903.02.983

Mounting accessories

► AH 1.113

Model PH 2116

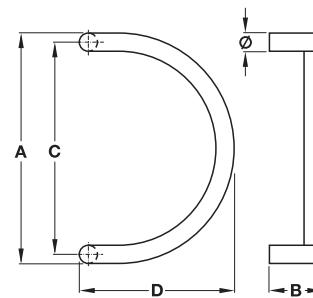


- Material: Stainless steel
- Finish: Matt
- Version: Straight supports

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Cat. No.
30	330	80	300	165	903.00.253
	380		350	190	903.00.263



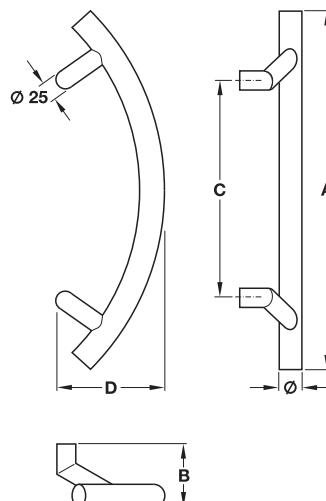
Model PH 2117



- Material: Stainless steel
- Finish: Matt
- Version: Straight supports

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Cat. No.
30	330	80	300	225	903.02.953
	380		350	250	903.02.963

Model PH 2118



- Material: Stainless steel
- Finish: Matt
- Version: Inclined supports (120°)

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Cat. No.
30	450	80	300	120	903.00.473

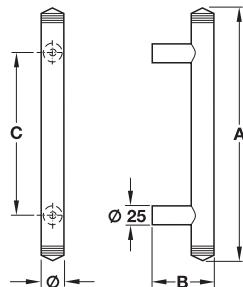
Order reference

Please use mounting set for straight supports.

1



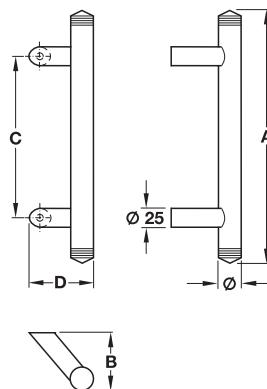
Model PH 2119



- Material: Stainless steel
- Finish: Matt
- Version: Straight supports

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Cat. No.
30	330	80	210	903.00.543
	350		250	903.00.544
	500		300	903.00.545

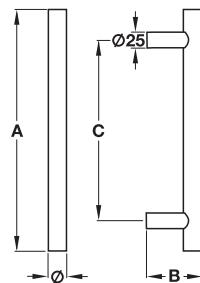
Model PH 2120



- Material: Stainless steel
- Finish: Matt
- Version: Inclined supports (60°)

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Cat. No.
30	330	80	210	67	903.00.553
	350		250		903.00.554
	500		300		903.00.555

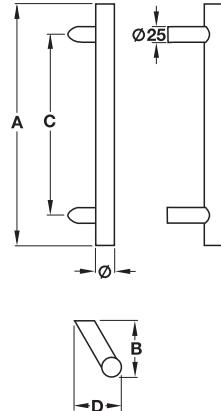
Model PH 2121



- Material: Stainless steel
- Finish: Matt
- Version: Straight supports

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Cat. No.
25	300	75	200	903.00.403
	400		300	903.00.404
	500		300	903.00.405
	600		400	903.00.406
	800		600	903.00.408
	1000		800	903.00.410
	1200		1000	903.00.412
	1400		1200	903.00.414
	1600		1400	903.00.416
30	300	80	200	903.00.603
	400		300	903.00.604
	500		300	903.00.605
	600		400	903.00.606
	800		600	903.00.608
	1000		800	903.00.610
	1200		1000	903.00.612
	1400		1200	903.00.614
	1500		1300	903.00.615
	1600		1400	903.00.616
	1800		1600	903.00.618

Model PH 2122



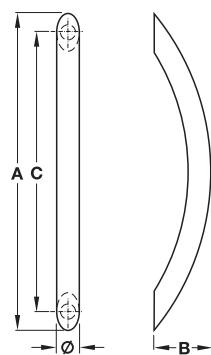
- Material: Stainless steel
- Finish: Matt
- Version: Inclined supports (60°)

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Cat. No.
25	300	75	200	63	903.00.503
	400		300		903.00.504
	500		300		903.00.505
	600		400		903.00.506
	800		600		903.00.508
	1000		800		903.00.510
	1200		1000		903.00.512
	1400		1200		903.00.514
	1600		1400		903.00.516
30	300	80	200	67	903.00.703
	400		300		903.00.704
	500		300		903.00.705
	600		400		903.00.706
	800		600		903.00.708
	1000		800		903.00.710
	1200		1000		903.00.712
	1400		1200		903.00.714
	1500		1300		903.00.715
	1600		1400		903.00.716
	1800		1600		903.00.718

1



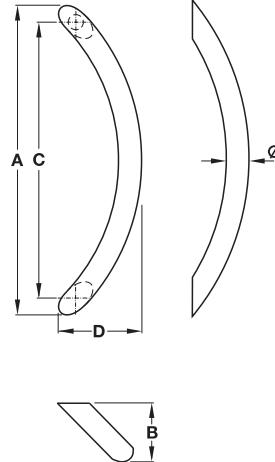
Model PH 2124



- Material: Stainless steel
- Finish: Matt
- Version: Curved towards the front

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Cat. No.
30	365	75	300	903.00.562
	420		350	903.00.563
	485		400	903.00.564
	600		500	903.00.565
	725		600	903.00.566
	940		800	903.00.568
	1165		1000	903.00.570
	1380		1200	903.00.572
	1585		1400	903.00.574
	1785		1600	903.00.576
	1985		1800	903.00.578

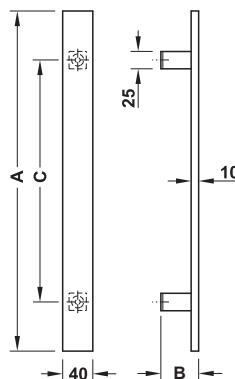
Model PH 2125



- Material: Stainless steel
- Finish: Matt
- Version: Laterally curved towards the front

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Cat. No.
30	355	75	300	95	903.00.582
	405		350		903.00.583
	480		400		903.00.584
	590		500		903.00.585
	715		600		903.00.586
	945		800	100	903.00.588
	1160		1000		903.00.590
	1375		1200	115	903.00.592
	1575		1400	130	903.00.594
	1775		1600	135	903.00.596
	1975		1800	150	903.00.598

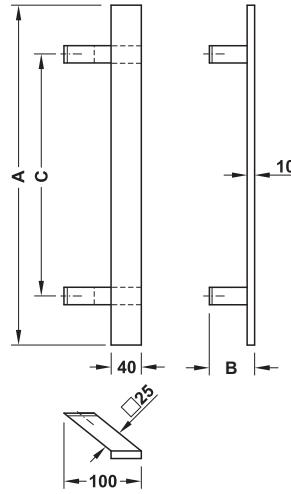
Model PH 2126



> Material: Stainless steel
> Finish: Satin
> Version: Straight supports

Cross section mm	Dim. A mm	Dim. B mm	Dim. C mm	Cat. No.
40 x 10	400	60	200	903.02.682
	500		300	903.02.683
	600		400	903.02.684
	800		600	903.02.685
	1000		800	903.02.686
	1200		1000	903.02.687

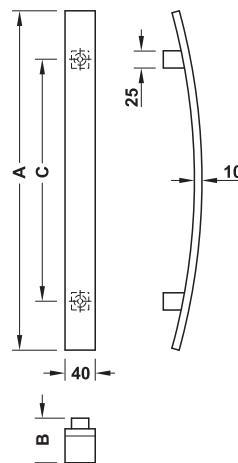
Model PH 2127



> Material: Stainless steel
> Finish: Satin
> Version: Inclined supports (45°)

Cross section mm	Dim. A mm	Dim. B mm	Dim. C mm	Cat. No.
40 x 10	400	70	200	903.02.692
	500		300	903.02.693
	600		400	903.02.694
	800		600	903.02.695
	1000		800	903.02.696
	1200		1000	903.02.697

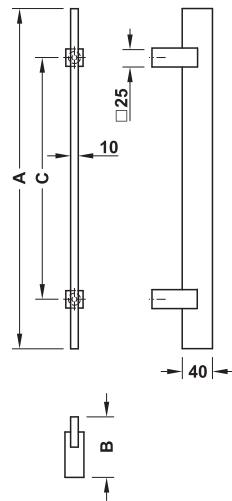
Model PH 2128



> Material: Stainless steel
> Finish: Satin
> Version: Straight supports

Cross section mm	Dim. A mm	Dim. B mm	Dim. C mm	Cat. No.
40 x 10	400	50	200	903.02.702
	500	55	300	903.02.703
	600	60	400	903.02.704
	800	70	600	903.02.705

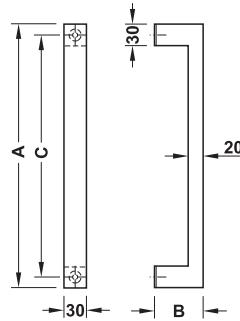
Model PH 2129



> Material: Stainless steel
> Finish: Satin
> Version: Straight supports

Cross section mm	Dim. A mm	Dim. B mm	Dim. C mm	Cat. No.
10 x 40	400	80	200	903.02.712
	500		300	903.02.713
	600		400	903.02.714
	800		600	903.02.715

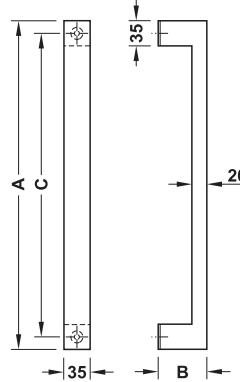
Model PH 2130



> Material: Stainless steel
 > Finish: Satin
 > Version: Straight supports

Cross section mm	Dim. A mm	Dim. B mm	Dim. C mm	Cat. No.
30 x 20	330	70	300	903.02.721
	430		400	903.02.722
	630		600	903.02.724
	830		800	903.02.725

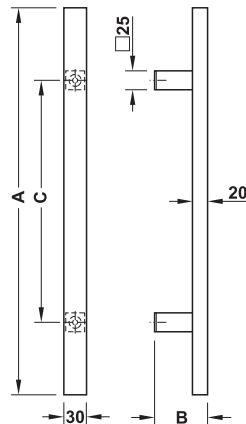
Model PH 2131



> Material: Stainless steel
 > Finish: Satin
 > Version: Straight supports

Cross section mm	Dim. A mm	Dim. B mm	Dim. C mm	Cat. No.
35 x 20	335	70	300	903.02.801
	435		400	903.02.802
	635		600	903.02.804
	835		800	903.02.805

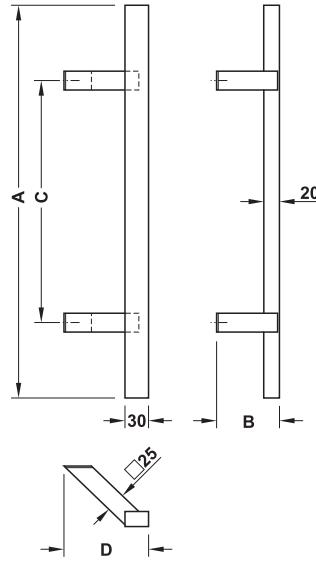
Model PH 2132



> Material: Stainless steel
 > Finish: Satin
 > Version: Straight supports

Cross section mm	Dim. A mm	Dim. B mm	Dim. C mm	Cat. No.
30 x 20	400	70	200	903.02.792
	500		300	903.02.793
	600		400	903.02.794
	800		600	903.02.795
	1000		800	903.02.796
	1200		1000	903.02.797

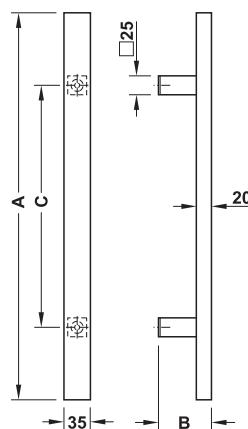
Model PH 2133



> Material: Stainless steel
 > Finish: Satin
 > Version: Inclined supports (45°)

Cross section mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Cat. No.
30 x 20	400	80	200	110	903.02.732
	500		300		903.02.733
	600		400		903.02.734
	800		600		903.02.735
	1000		800		903.02.736
	1200		1000		903.02.737

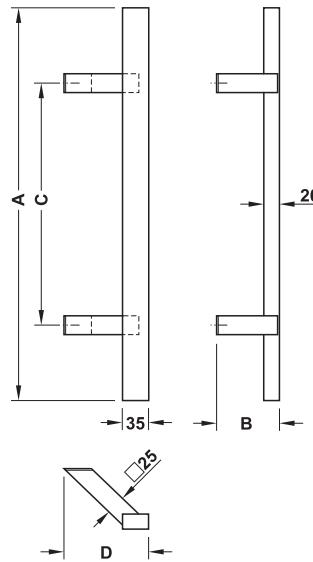
Model PH 2134



> Material: Stainless steel
 > Finish: Satin
 > Version: Straight supports

Cross section mm	Dim. A mm	Dim. B mm	Dim. C mm	Cat. No.
35 x 20	400	70	200	903.02.782
	500		300	903.02.783
	600		400	903.02.784
	800		600	903.02.785
	1000		800	903.02.786
	1200		1000	903.02.787

Model PH 2135

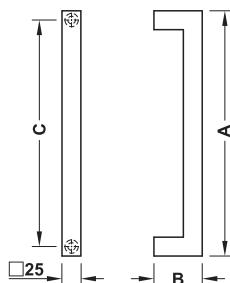


> Material: Stainless steel
 > Finish: Satin
 > Version: Inclined supports (45°)

Cross section mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Cat. No.
35 x 20	400	80	200	110	903.02.742
	500		300		903.02.743
	600		400		903.02.744
	800		600		903.02.745
	1000		800		903.02.746
	1200		1000		903.02.747

Model PH 2136

1



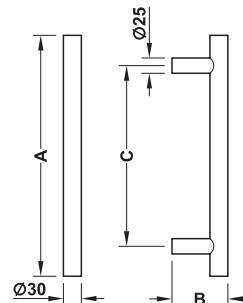
> Material: Stainless steel
> Finish: Satin
> Version: Straight supports

Cross section mm	Dim. A mm	Dim. B mm	Dim. C mm	Cat. No.
25 x 25	225	65	200	903.03.690
	325		300	903.03.691
	625		600	903.03.692
	925		900	903.03.693
	1225		1200	903.03.694

Mounting accessories

►AH 1.118

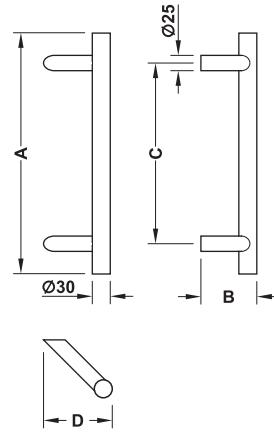
Model PH 1121



> Material: Stainless steel
> Finish: Satin
> Version: Straight supports

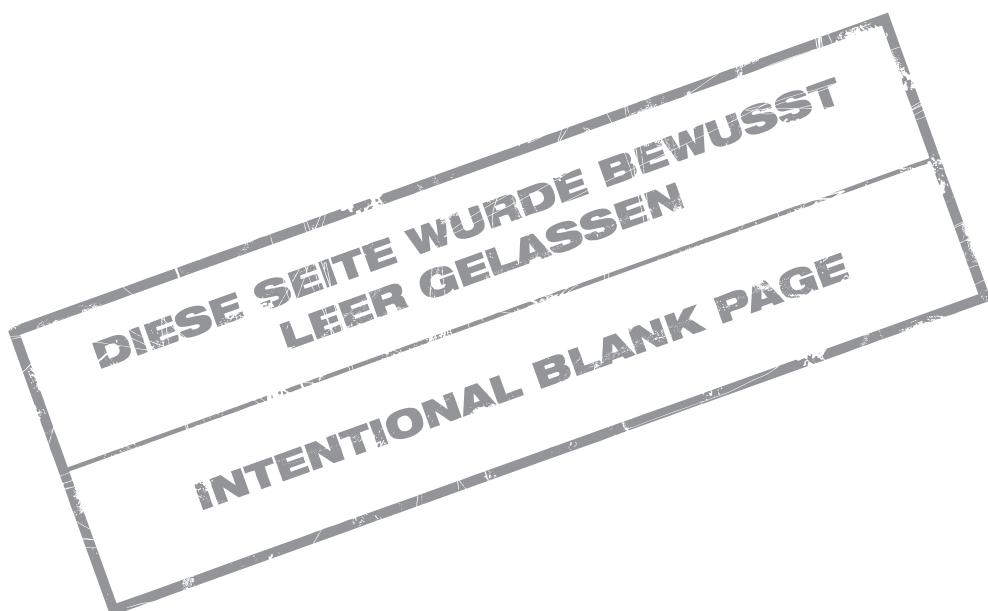
Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Cat. No.
30	300	80	200	903.10.003
	400		300	903.10.004
	500		300	903.10.005
	600		400	903.10.006
	800		600	903.10.008
	1000		800	903.10.010
	1200		1000	903.10.012
	1400		1200	903.10.014
	1500		1300	903.10.015
	1600		1400	903.10.016
	1800		1600	903.10.018

Model PH 1122



> Material: Stainless steel
> Finish: Satin
> Version: Inclined supports (45°)

Diameter mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Cat. No.
30	300	85	200	100	903.10.033
	400		300		903.10.034
	500		300		903.10.035
	600		400		903.10.036
	800		600		903.10.038
	1000		800		903.10.040
	1200		1000		903.10.042
	1400		1200		903.10.044
	1500		1300		903.10.045
	1600		1400		903.10.046
	1800		1600		903.10.048

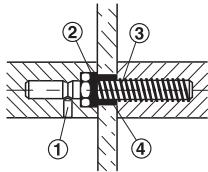


Mounting set

- Area of application: For Startec model PH 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2126, 2127, 2130, 2131, 2132, 2133, 2134, 2135 door handles

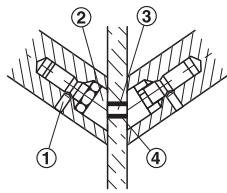
→ For glass doors

For installation in pairs



For straight supports

- (1) threaded bolt, M6
(2) washer
(3) screw, M12
(4) sheath



For inclined supports

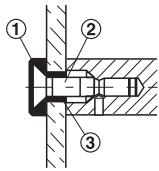
- Door drilling Ø 16 mm

For glass thickness mm	Cat. No.
For straight supports	
8–12	909.03.900
For inclined supports (60°)	
8	909.03.901
10	909.03.940
12	909.03.941
For inclined supports (45°)	
8	909.04.855
10	909.04.856
12	909.04.857



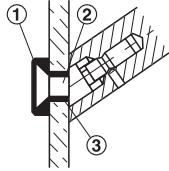
→ For glass doors

For one-sided installation (visible)



For straight supports

- (1) blank escutcheon (stainless steel) Ø 30 mm
(2) screw, M12
(3) sheath



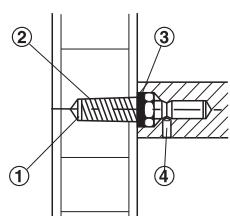
For inclined supports

- Door drilling Ø 16 mm

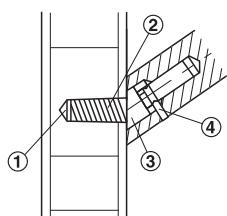
For glass thickness mm	Cat. No.
For straight supports	
8–12	909.03.902
For inclined supports (60°)	
8	909.03.950
10	909.03.951
12	909.03.952
For inclined supports (45°)	
8	909.04.858
10	909.04.859
12	909.04.860

→ For wooden doors

For one-sided installation (concealed) with screw-in sleeve



For straight supports



For inclined supports

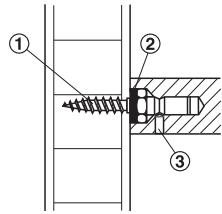
- (1) screw-in sleeve
- (2) screw, M10
- (3) washer
- (4) threaded bolt, M6

- Door drilling Ø 13.5 mm

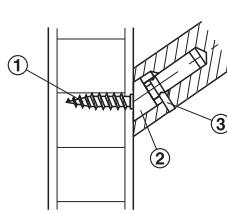
For door thickness mm	Cat. No.
For straight supports	
≥30	909.03.910
For inclined supports (60°)	
≥30	909.03.911
For inclined supports (45°)	
≥30	909.04.861

→ For wooden doors

For one-sided installation (concealed) with wood to metal dowel



For straight supports



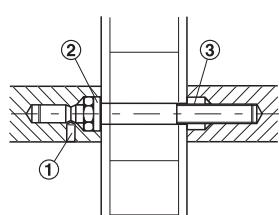
For inclined supports

- (1) thread, DIN 7998
- (2) washer
- (4) threaded bolt, M6

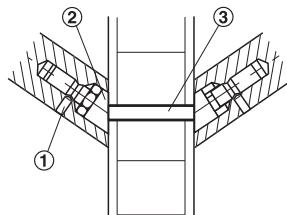
For door thickness mm	Cat. No.
For straight supports	
40–62	909.03.920
≥62	909.03.930
For inclined supports (60°)	
–	909.03.921
For inclined supports (45°)	
–	909.04.862

→ For wooden, plastic and metal doors

For installation in pairs



For straight supports



For inclined supports

- (1) threaded bolt, M6
- (2) washer
- (3) screw, M12

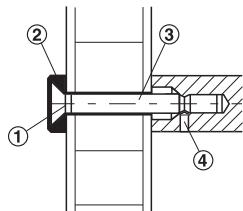
- (1) threaded bolt, M6
- (2) washer
- (3) spacer sleeve Ø 11 mm

- Door drilling Ø 12.5 mm

For door thickness mm	Cat. No.
For straight supports	
38–42	909.03.870
43–47	909.03.871
48–52	909.03.872
53–57	909.03.873
58–62	909.03.874
63–67	909.03.875
68–72	909.03.876
For inclined supports (60°)	
35–50	909.03.150
45–70	909.03.160
60–85	909.03.170
For inclined supports (45°)	
35–50	909.04.863
45–70	909.04.864
60–85	909.04.865

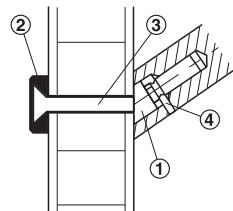
→ For wooden, plastic and metal doors

For one-sided installation (visible)



For straight supports

- ① washer
- ② blank escutcheon (stainless steel) Ø 30 mm
- ③ screw, M12
- ④ threaded bolt, M6



For inclined supports

- ① washer
- ② blank escutcheon (stainless steel) Ø 30 mm
- ③ spacer sleeve Ø 11 mm
- ④ threaded bolt, M6

> Door drilling Ø 12.5 mm

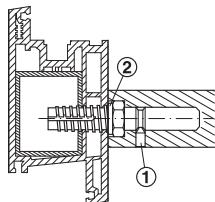
For door thickness mm	Cat. No.
For straight supports	
40–44	909.03.880
45–49	909.03.881
50–54	909.03.882
55–59	909.03.883
60–64	909.03.884
65–69	909.03.885
For inclined supports (60°)	
35–50	909.03.830
45–70	909.03.836
55–85	909.03.835
For inclined supports (45°)	
35–50	909.04.866
45–70	909.04.867
55–85	909.04.868

Order reference

Two mounting sets are required for each door handle when installed on one side.

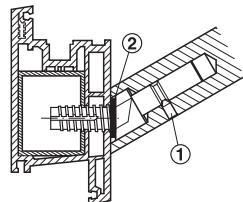
→ For wooden, plastic and metal doors

For one-sided installation (concealed)



For straight supports

- ① threaded bolt, M6
- ② washer



For inclined supports

> Thread Ø: 11.8 mm
> Version: With self-tapping thread
> Door drilling Ø 10 mm

Screw length mm	Cat. No.
For straight supports	
28	909.04.800
48	909.04.801
For inclined supports (60°)	
28	909.04.810
For inclined supports (45°)	
28	909.04.869

Order reference

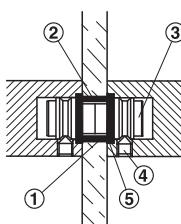
Two mounting sets are required for each door handle when installed on one side.

Mounting set

- Area of application: For Startec model PH 2124, 2125, 2128, 2129 door handles

→ For glass doors

For installation in pairs



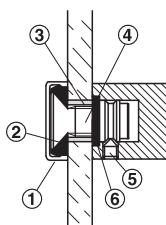
- ① sheath
- ② drill hole Ø 16 mm
- ③ screw, M8
- ④ threaded bolt, M6
- ⑤ washer

- Door drilling Ø 16 mm

For door thickness mm	Cat. No.
8	909.04.845
10	909.04.846
12	909.04.847

→ For glass doors

For one-sided installation (visible)



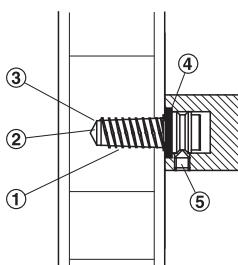
- ① blank escutcheon Ø 30 mm
- ② sheath
- ③ drill hole Ø 16 mm
- ④ screw, M8
- ⑤ threaded bolt, M6
- ⑥ washer

- Door drilling Ø 16 mm

For door thickness mm	Cat. No.
8	909.04.840
10	909.04.841
12	909.04.842

→ For wooden doors

For one-sided installation (concealed) with screw-in sleeve



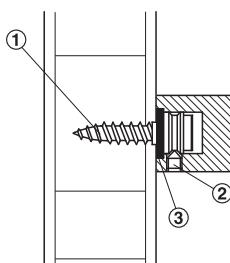
- ① screw-in sleeve
- ② screw, M10
- ③ drill hole Ø 13.5 mm
- ④ washer
- ⑤ threaded bolt, M6

- Door drilling Ø 13.5 mm

	Cat. No.
Mounting set	909.04.850

→ For wooden doors

For one-sided installation (concealed) with wood to metal dowel

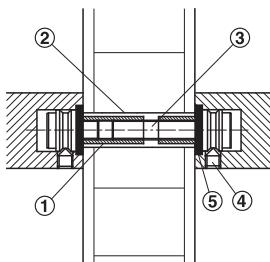


- ① thread, DIN 7998
- ② threaded bolt, M6
- ③ washer

	Cat. No.
Mounting set	909.04.851

→ For wooden, plastic and metal doors

For installation in pairs



- ① spacer sleeve
- ② drill hole Ø 12 mm
- ③ screw, M8
- ④ threaded bolt, M6
- ⑤ washer

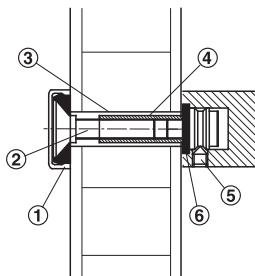
- Door drilling Ø 12 mm

For door thickness mm	Cat. No.
35–50	909.04.853
45–70	909.04.848
60–85	909.04.849



→ For wooden, plastic and metal doors

For one-sided installation (visible)



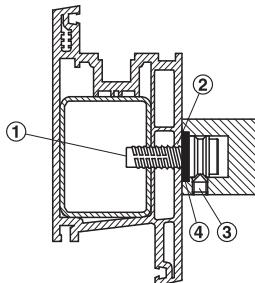
- ① blank escutcheon Ø 30 mm
- ② screw, M8
- ③ drill hole Ø 12 mm
- ④ spacer sleeve
- ⑤ threaded bolt, M6
- ⑥ washer

- Door drilling Ø 12 mm

For door thickness mm	Cat. No.
35–50	909.04.854
45–70	909.04.843
55–85	909.04.844

→ For wooden, plastic and metal doors

For one-sided installation (concealed)



- ① thread Ø 11.8 mm
- ② drill hole Ø 10 mm
- ④ threaded bolt, M6
- ④ washer

- Thread Ø: 11.8 mm
- Version: With self-tapping thread
- Door drilling Ø 10 mm

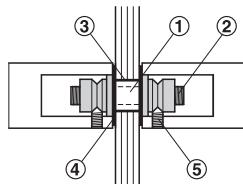
	Cat. No.
Mounting set	909.04.852

Mounting set

- Area of application: For Startec model PH 2136 door handle

→ For glass doors

For installation in pairs

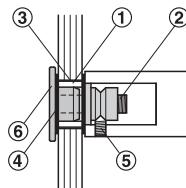


- ① drill hole Ø 13 mm
- ② threaded bolt, M8
- ③ sheath
- ④ washer
- ⑤ grub screw, M6

- Door drilling Ø 13 mm

For door thickness mm	Cat. No.
8–12	909.09.733

For one-sided installation (visible) with cover rose



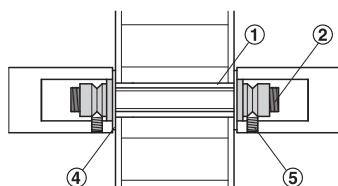
- ① drill hole Ø 13 mm
- ② threaded bolt, M8
- ③ sheath
- ④ washer
- ⑤ grub screw, M6
- ⑥ cover rose Ø 25 mm

- Door drilling Ø 13 mm

For door thickness mm	Cat. No.
8–12	909.09.730

→ For wooden doors

For installation in pairs

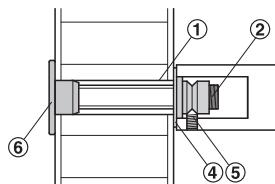


- ① drill hole Ø 10 mm
- ② threaded bolt, M8
- ③ sheath
- ④ washer
- ⑤ grub screw, M6

- Door drilling Ø 10 mm

For door thickness mm	Cat. No.
38–55	909.09.727
55–80	909.09.728

For one-sided installation (visible) with cover rose



- ① drill hole Ø 10 mm
- ② threaded bolt, M8
- ③ sheath
- ④ washer
- ⑤ grub screw, M6
- ⑥ cover rose Ø 25 mm

- Door drilling Ø 10 mm

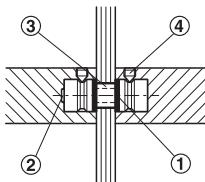
For door thickness mm	Cat. No.
38–55	909.09.723
55–80	909.09.724

Mounting set

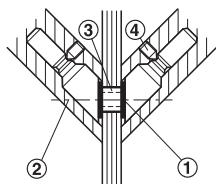
> Area of application: For door handles model PH 1121 and PH 1122

→ For glass doors

For installation in pairs



For straight supports



For inclined supports

- ① Washer
- ② Threaded bolt, M8
- ③ Sheath
- ④ Threaded bolt, M6

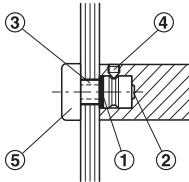
> Door drilling Ø 12.5 mm

For glass thickness mm	Cat. No.
For straight supports	909.04.884
8–12	909.04.885

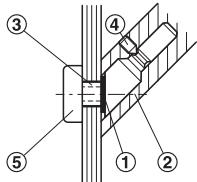
Order reference

Two mounting sets are required for each pair of door handles when installed in pairs.

For one-sided installation (visible) with cover rose



For straight supports



For inclined supports

- ① Washer
- ② Screw, M8
- ③ Sheath
- ④ Threaded bolt, M6
- ⑤ Cover rose

> Door drilling Ø 12.5 mm

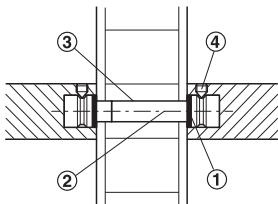
For glass thickness mm	Cat. No.
For straight supports	909.04.886
8–12	909.04.887

Order reference

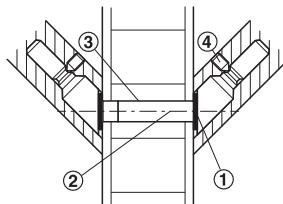
Two mounting sets are required for each door handle when installed on one side.

→ For wooden doors

For installation in pairs



For straight supports



For inclined supports

- ① Washer
- ② Threaded bolt, M8
- ③ Threaded sleeve, M8
- ④ Threaded bolt, M6

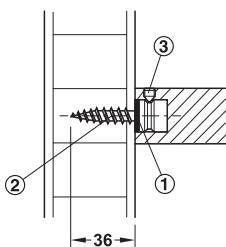
> Door drilling Ø 11.5 mm

For door thickness mm	Cat. No.
For straight supports	909.04.878
35–50	909.04.880
45–70	909.04.882
60–85	909.04.883
For inclined supports (45°)	909.04.879
35–50	909.04.881
45–70	909.04.883
60–85	909.04.883

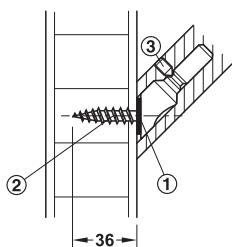
Order reference

Two mounting sets are required for each pair of door handles when installed in pairs.

For one-sided installation (concealed) with wood to metal dowel



For straight supports



For inclined supports

- ① Washer
- ② Wood to metal dowel
- ③ Threaded bolt, M6

> Door drilling Ø 6 mm

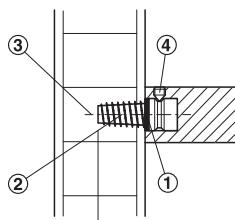
Version	Cat. No.
For straight supports	909.04.876
For inclined supports (45 °)	909.04.877

Order reference

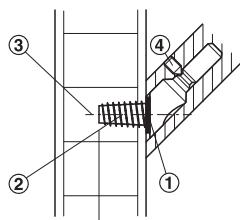
Two mounting sets are required for each door handle when installed on one side.

→ For wooden doors

For one-sided installation (concealed) with screw-in sleeve



For straight supports



For inclined supports

- ① Washer
- ② Screw-in sleeve
- ③ Screw, M8
- ④ Threaded bolt, M6

> Door drilling Ø 11.5 mm

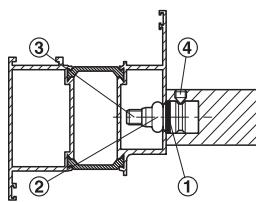
Version	Cat. No.
For straight supports	909.04.874
For inclined supports (45 °)	909.04.875

Order reference

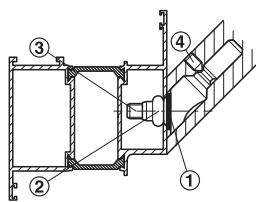
Two mounting sets are required for each door handle when installed on one side.

→ For metal and plastic doors

For one-sided installation (concealed) with M8 rivet nut (provided on site)



For straight supports



For inclined supports

- ① Washer
- ② Rivet nut, M8, provided on site
- ③ Screw, M8
- ④ Threaded bolt, M6

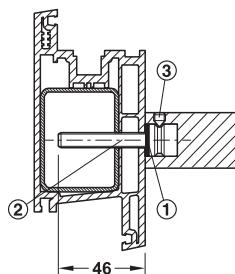
> Door drilling Ø 11 mm

Version	Cat. No.
For straight supports	909.04.870
For inclined supports (45 °)	909.04.871

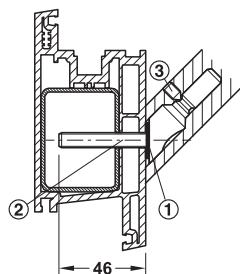
Order reference

Two mounting sets are required for each door handle when installed on one side.

For one-sided installation (concealed) with self-tapping special screw



For straight supports



For inclined supports

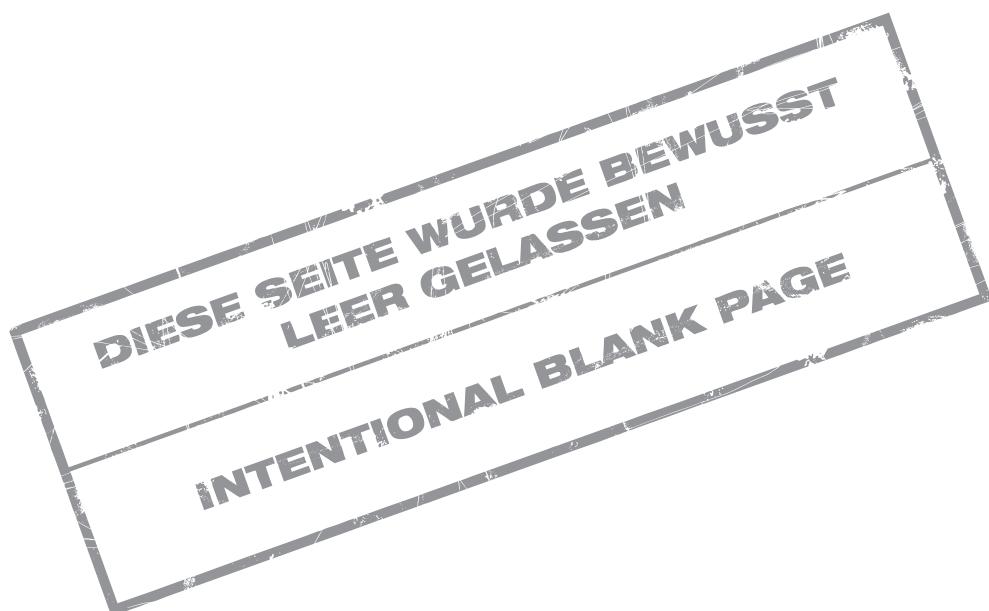
- ① Washer
- ② Screw, M8, with self-tapping thread
- ③ Threaded bolt, M6

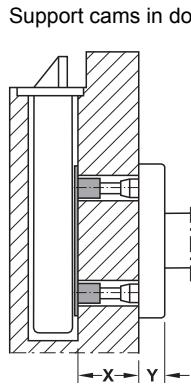
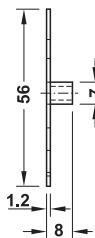
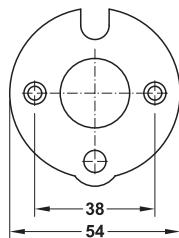
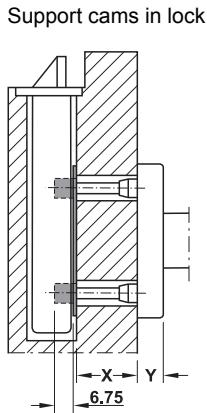
> Door drilling Ø 7 mm

Version	Cat. No.
For straight supports	909.04.872
For inclined supports (45 °)	909.04.873

Order reference

Two mounting sets are required for each door handle when installed on one side.



Screw length $L = X + Y$ Screw length $L = X + Y + 5 \text{ mm}$

> Area of application:

For fixing half sets (inside) in combination with pull handles (outside)

> Material:

Stainless steel

Supplied with

1 adapter plate

VersionInsert M4 with 2 screws
M4 x 35 mm**Cat. No.**

909.82.100

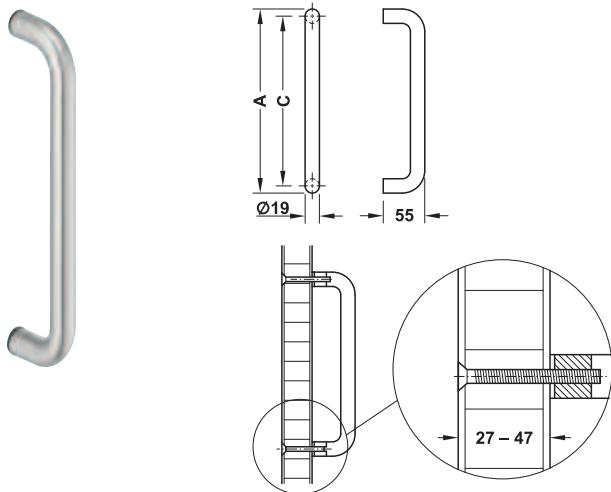
Insert M5 without screws

909.82.101

Order reference

One mounting set is required for each pull handle when installed on one side.
Please order screws for M5 insert separately.

Model PH 2142



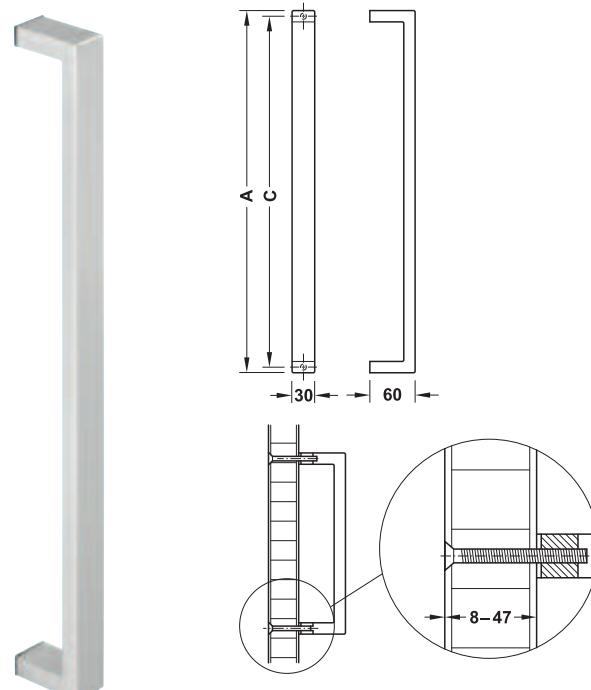
- Material: Stainless steel
- Finish: Matt
- Installation: One-sided, for through-hole fixing with screw 27 – 47 mm
- For door thickness: 27 – 47 mm
- Drill hole Ø: Door drilling 8 mm

Supplied with

- 1 Spindle part with thread
1 Mounting set

Diameter mm	Dim. A mm	Dim. C mm	Cat. No.
19	244	225	903.03.162
	319	300	903.03.163

Model PH 2143



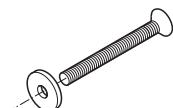
- Material: Stainless steel
- Finish: Matt
- Installation: One-sided, for through-hole fixing with screw 8 – 47 mm
- For door thickness: 8 – 47 mm
- Drill hole Ø: Door drilling 8 mm

Supplied with

- 1 Spindle part with thread
1 Mounting set

Cross section mm	Dim. A mm	Dim. C mm	Cat. No.
30 x 15	465	450	903.03.264
	615	600	903.03.266

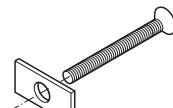
Mounting set for model PH 2142 for other door thicknesses



- Installation: One-sided, for through-hole fixing with screw
- Drill hole Ø: Door drilling 8 mm

For door thickness mm	Dimensions mm	Cat. No.
7 – 27	M6 x 40	909.00.320
47 – 67	M6 x 80	909.00.322
67 – 87	M6 x 100	909.00.323

Mounting set for model PH 2143 for other door thicknesses

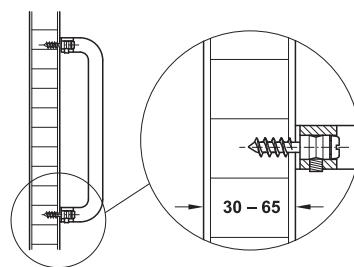
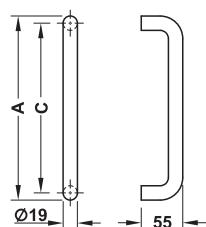


- Installation: One-sided, for through-hole fixing with screw
- Drill hole Ø: Door drilling 8 mm

For door thickness mm	Dimensions mm	Cat. No.
33 – 77	M6 x 90	909.00.331

1

Model PH 2142



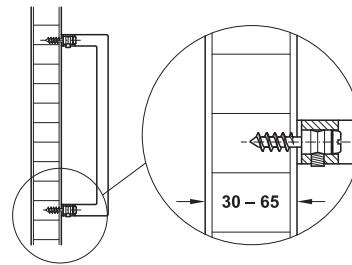
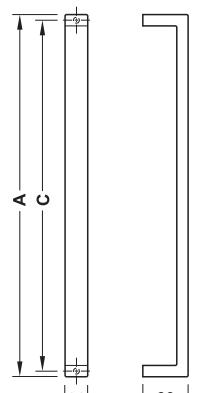
- Material: Stainless steel
- Finish: Matt
- Installation: One-sided,
for concealed fixing with screw
- For door thickness: 30 – 65 mm

Supplied with

- 1 Aperture part without thread
1 Mounting set

Diameter mm	Dim. A mm	Dim. C mm	Cat. No.
19	244	225	903.03.172
	319	300	903.03.173

Model PH 2143



- Material: Stainless steel
- Finish: Matt
- Installation: One-sided,
for concealed fixing with screw
- For door thickness: 30 – 65 mm

Supplied with

- 1 Aperture part without thread
1 Mounting set

Cross section mm	Dim. A mm	Dim. C mm	Cat. No.
30 x 15	480	450	903.03.274
	630	600	903.03.276

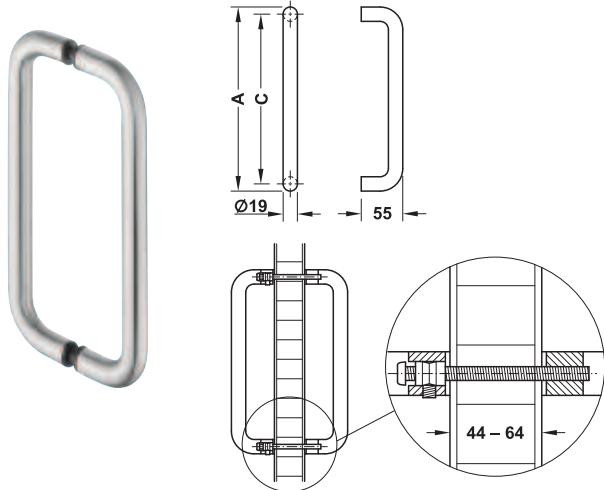
**Mounting set for model PH 2142, 2143
for other door thicknesses**



- Installation: One-sided,
for concealed fixing with screw

For door thickness mm	Dimensions mm	Cat. No.
65 – 87	5 x 45	909.00.341

Model PH 2142



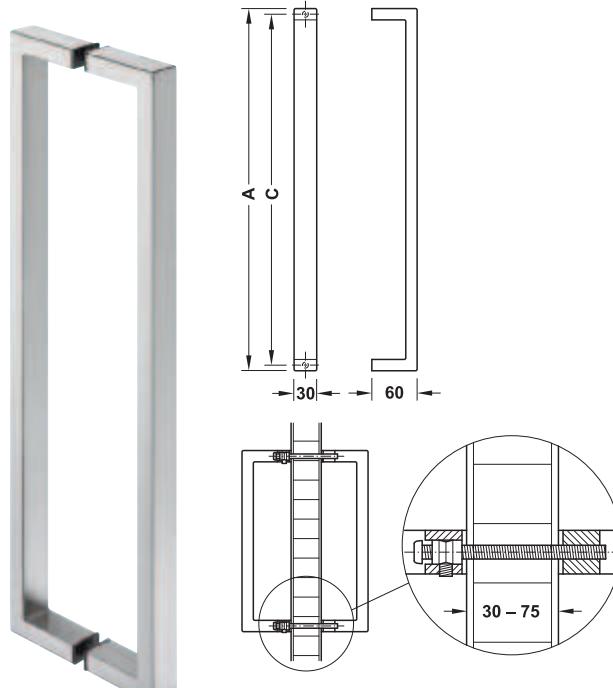
- Material: Stainless steel
- Finish: Matt
- Installation: In pairs
- For door thickness: 44 – 64 mm
- Drill hole Ø: Door drilling 8 mm

Supplied with

- 1 Spindle part with thread
- 1 Aperture part without thread
- 1 Mounting set

Diameter mm	Dim. A mm	Dim. C mm	Cat. No.
19	244	225	903.03.152
	319	300	903.03.153

Model PH 2143



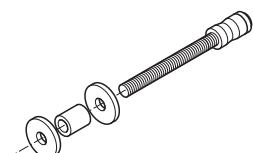
- Material: Stainless steel
- Finish: Matt
- Installation: In pairs
- For door thickness: 30 – 75 mm
- Drill hole Ø: Door drilling 8 mm

Supplied with

- 1 Spindle part with thread
- 1 Aperture part without thread
- 1 Mounting set

Cross section mm	Dim. A mm	Dim. C mm	Cat. No.
30 x 15	465	450	903.03.254
	615	600	903.03.256

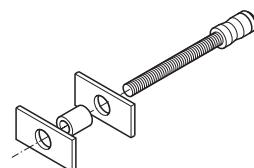
Mounting set for model PH 2142 for other door thicknesses



- Installation: In pairs
- Drill hole Ø: Door drilling 8 mm

For door thickness mm	Dimensions mm	Cat. No.
8 – 24	M6 x 50	909.00.300
24 – 44	M6 x 70	909.00.301
64 – 84	M6 x 110	909.00.303

Mounting set for model PH 2143 for other door thicknesses

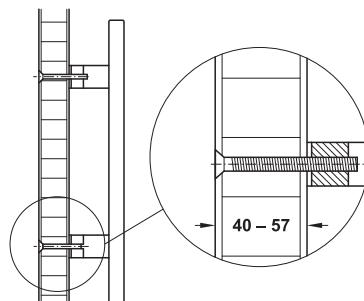
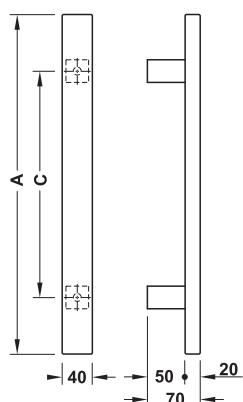


- Installation: In pairs
- Drill hole Ø: Door drilling 8 mm

For door thickness mm	Dimensions mm	Cat. No.
8 – 25	M6 x 50	909.00.310

1

Model PH 2144



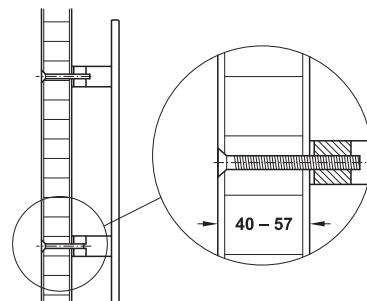
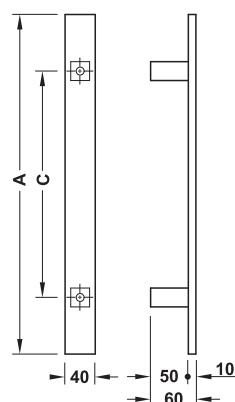
- Material: Stainless steel
- Finish: Matt
- Installation: One-sided, for through-hole fixing with screw
- For door thickness: 40 – 57 mm
- Drill hole Ø: Door drilling 10 mm

Supplied with

- 1 Spindle part with thread
1 Mounting set

Cross section mm	Dim. A mm	Dim. C mm	Cat. No.
40 x 20	450	300	903.03.463
	600	450	903.03.464

Model PH 2145



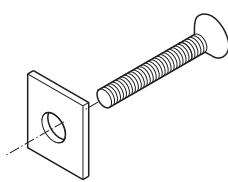
- Material: Stainless steel
- Finish: Matt
- Installation: One-sided, for through-hole fixing with screw
- For door thickness: 40 – 57 mm
- Drill hole Ø: Door drilling 10 mm

Supplied with

- 1 Spindle part with thread
1 Mounting set

Cross section mm	Dim. A mm	Dim. C mm	Cat. No.
40 x 10	450	300	903.03.563
	600	450	903.03.564

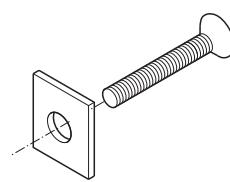
Mounting set for model PH 2144 for other door thicknesses



- Installation: One-sided, for through-hole fixing with screw
- Drill hole Ø: Door drilling 10 mm

For door thickness mm	Dimensions mm	Cat. No.
8 – 27	M8 x 40	909.00.380
25 – 42	M8 x 55	909.00.381
55 – 72	M8 x 85	909.00.383
60 – 77	M8 x 90	909.00.384

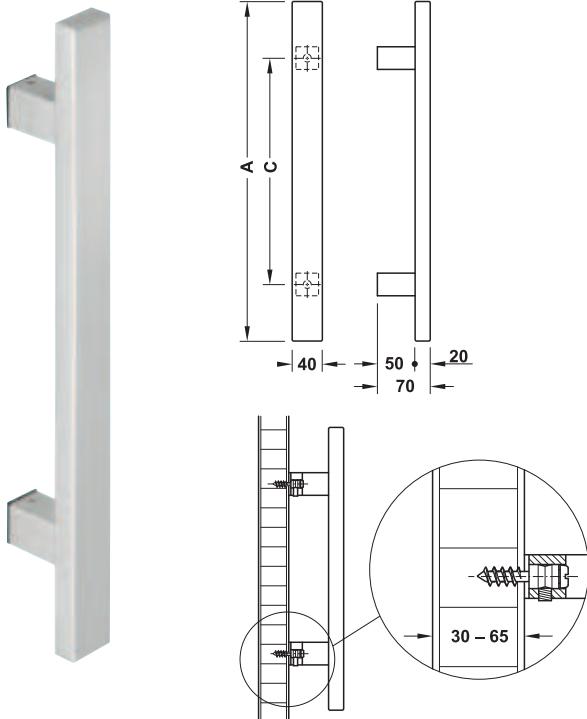
Mounting set for model PH 2145 for other door thicknesses



- Installation: One-sided, for through-hole fixing with screw
- Drill hole Ø: Door drilling 10 mm

For door thickness mm	Dimensions mm	Cat. No.
8 – 27	M8 x 40	909.00.390
25 – 42	M8 x 55	909.00.391
55 – 72	M8 x 85	909.00.393
60 – 77	M8 x 90	909.00.394

Model PH 2144



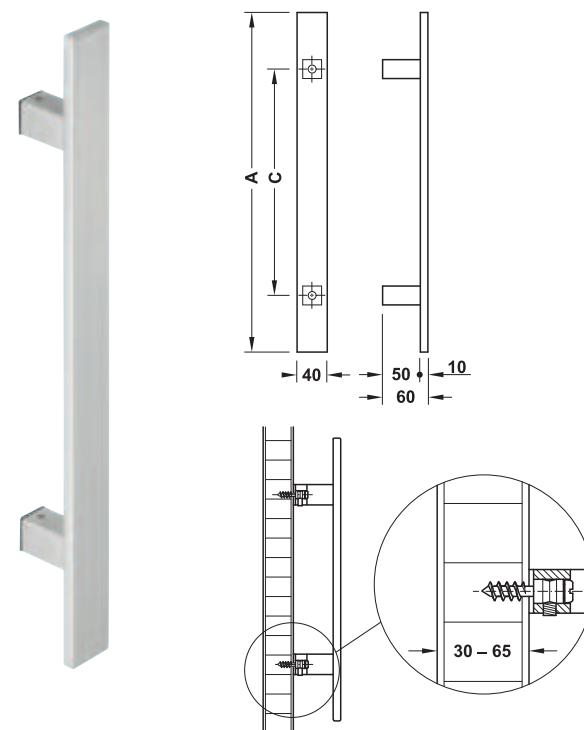
- Material: Stainless steel
- Finish: Matt
- Installation: One-sided,
for concealed fixing with screw
- For door thickness: 30 – 65 mm

Supplied with

- 1 Aperture part without thread
1 Mounting set

Cross section mm	Dim. A mm	Dim. C mm	Cat. No.
40 x 20	450	300	903.03.473
	600	450	903.03.474

Model PH 2145



- Material: Stainless steel
- Finish: Matt
- Installation: One-sided,
for concealed fixing with screw
- For door thickness: 30 – 65 mm

Supplied with

- 1 Aperture part without thread
1 Mounting set

Cross section mm	Dim. A mm	Dim. C mm	Cat. No.
40 x 10	450	300	903.03.573
	600	450	903.03.574

**Mounting set model PH 2144, 2145
for other door thicknesses**

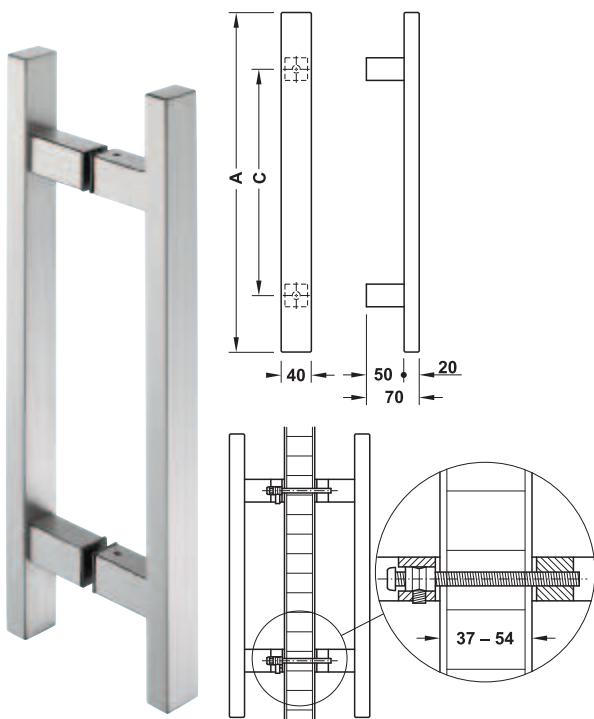


- Installation: One-sided,
for concealed fixing with screw

For door thickness mm	Dimensions mm	Cat. No.
65 – 87	6 x 45	909.00.401

1

Model PH 2144



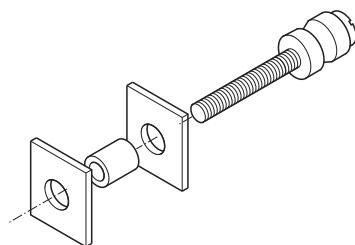
- Material: Stainless steel
- Finish: Matt
- Installation: In pairs
- For door thickness: 37 – 54 mm
- Drill hole Ø: Door drilling 10 mm

Supplied with

- 1 Spindle part with thread
- 1 Aperture part without thread
- 1 Mounting set

Cross section mm	Dim. A mm	Dim. C mm	Cat. No.
40 x 20	450	300	903.03.453
	600	450	903.03.454

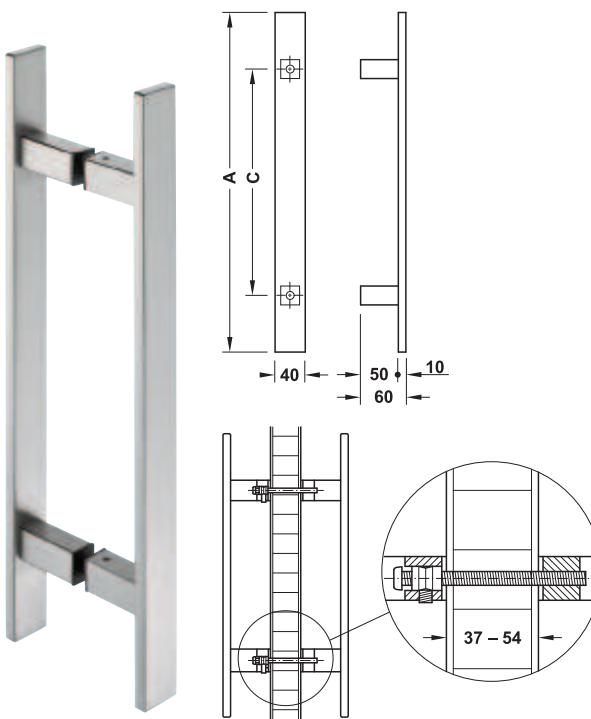
Mounting set for model PH 2144 for other door thicknesses



- Installation: In pairs
- Drill hole Ø: Door drilling 10 mm

For door thickness mm	Dimensions mm	Cat. No.
7 – 24	M8 x 50	909.00.360
22 – 39	M8 x 65	909.00.361
52 – 69	M8 x 95	909.00.363
67 – 84	M8 x 110	909.00.364

Model PH 2145



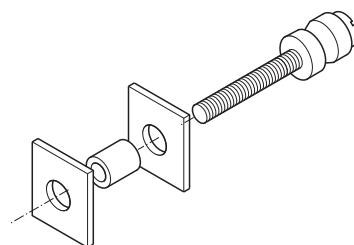
- Material: Stainless steel
- Finish: Matt
- Installation: In pairs
- For door thickness: 37 – 54 mm
- Drill hole Ø: Door drilling 10 mm

Supplied with

- 1 Spindle part with thread
- 1 Aperture part without thread
- 1 Mounting set

Cross section mm	Dim. A mm	Dim. C mm	Cat. No.
40 x 10	450	300	903.03.553
	600	450	903.03.554

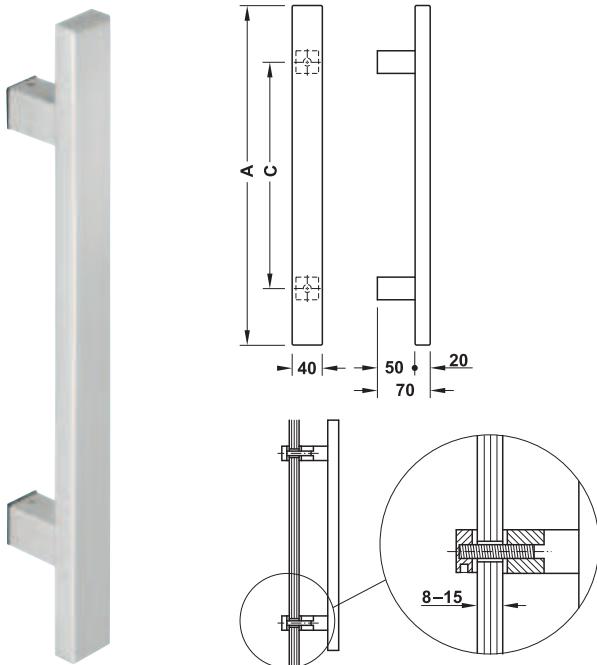
Mounting set for model PH 2145 for other door thicknesses



- Installation: In pairs
- Drill hole Ø: Door drilling 10 mm

For door thickness mm	Dimensions mm	Cat. No.
7 – 24	M8 x 50	909.00.370
22 – 39	M8 x 65	909.00.371
52 – 69	M8 x 95	909.00.373
67 – 84	M8 x 110	909.00.374

Model PH 2144



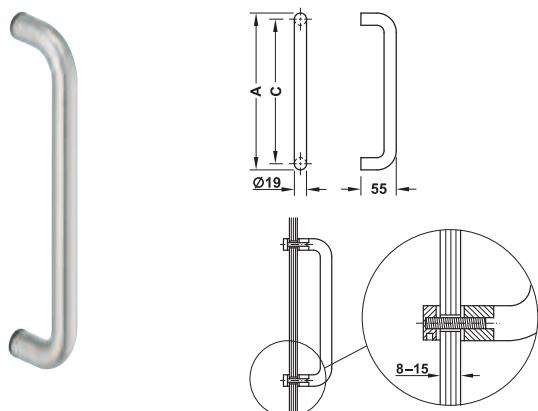
- Material: Stainless steel
- Finish: Matt
- Installation: One-sided, visible
- For door thickness: 8 – 15 mm
- Drill hole Ø: Door drilling 14 mm

Supplied with

- 1 Spindle part with thread
- 1 Mounting set with dummy rose

Cross section mm	Dim. A mm	Dim. C mm	Cat. No.
40 x 20	450	300	903.03.493
	600	450	903.03.494

Model PH 2142



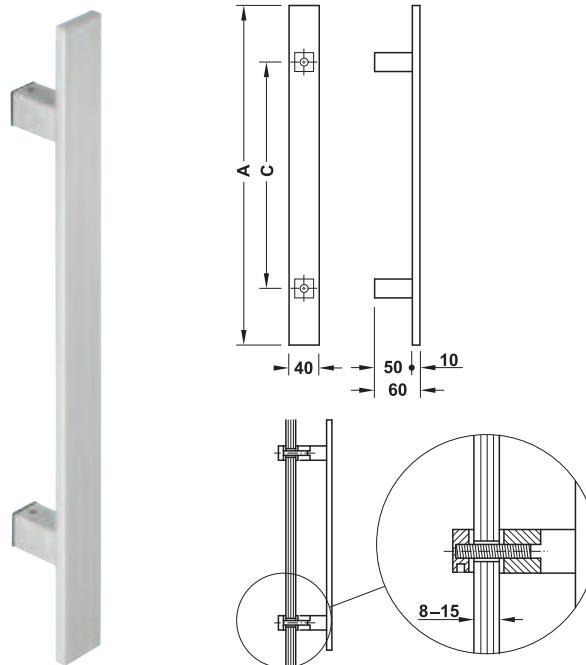
- Material: Stainless steel
- Finish: Matt
- Installation: One-sided, visible
- For door thickness: 8 – 15 mm
- Drill hole Ø: Door drilling 12 mm

Supplied with

- 1 Spindle part with thread
- 1 Mounting set with dummy rose

Diameter mm	Dim. A mm	Dim. C mm	Cat. No.
19	244	225	903.03.192
	319	300	903.03.193

Model PH 2145



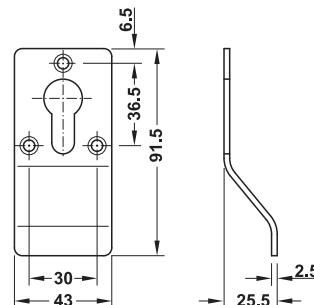
- Material: Stainless steel
- Finish: Matt
- Installation: One-sided, visible
- For door thickness: 8 – 15 mm
- Drill hole Ø: Door drilling 14 mm

Supplied with

- 1 Spindle part with thread
- 1 Mounting set with dummy rose

Cross section mm	Dim. A mm	Dim. C mm	Cat. No.
40 x 10	450	300	903.03.593
	600	450	903.03.594

Handle escutcheon



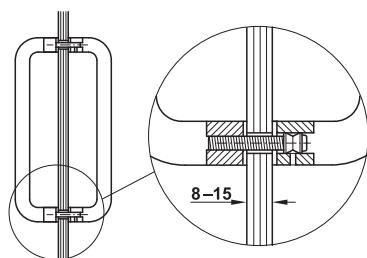
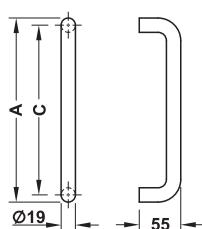
Supplied with

- 1 Handle escutcheon
- Fixing material for door thickness ≥28 mm

Version	Cat. No.
With PC aperture	902.52.846

1

Model PH 2142



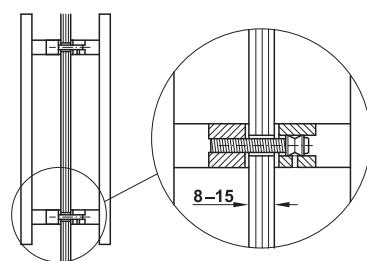
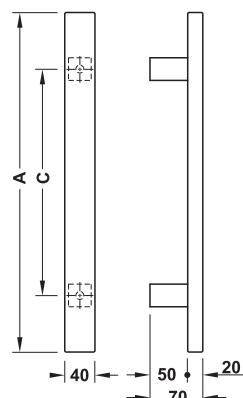
- Material: Stainless steel
- Finish: Matt
- Installation: In pairs
- For door thickness: 8 – 15 mm
- Drill hole Ø: Door drilling 14 mm

Supplied with

- 1 Spindle part with thread
- 1 Aperture part without thread
- 1 Mounting set

Diameter mm	Dim. A mm	Dim. C mm	Cat. No.
19	244	225	903.03.182
	319	300	903.03.183

Model PH 2144



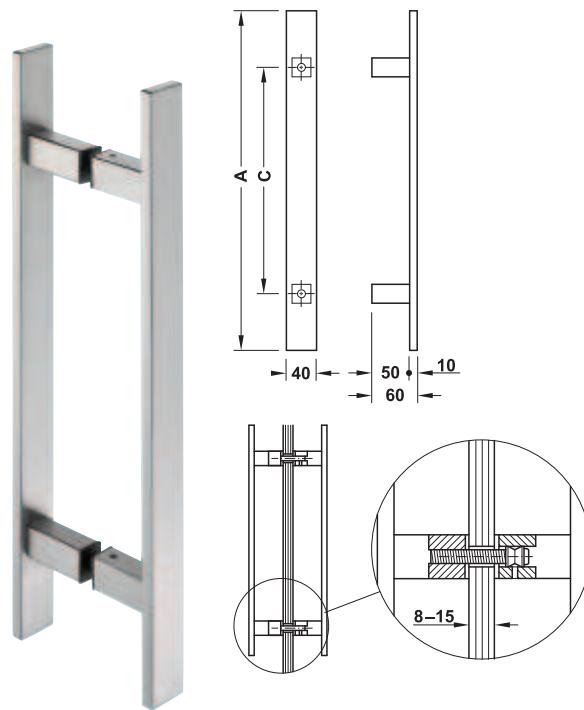
- Material: Stainless steel
- Finish: Matt
- Installation: In pairs
- For door thickness: 8 – 15 mm
- Drill hole Ø: Door drilling 14 mm

Supplied with

- 1 Spindle part with thread
- 1 Aperture part without thread
- 1 Mounting set

Cross section mm	Dim. A mm	Dim. C mm	Cat. No.
40 x 20	450	300	903.03.483
	600	450	903.03.484

Model PH 2145



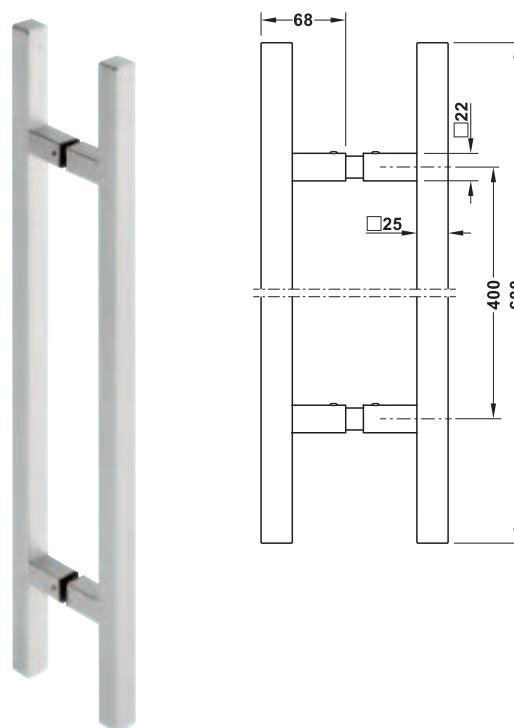
- Material: Stainless steel
- Finish: Satin
- Installation: In pairs
- For door thickness: 8–15 mm
- Drill hole Ø: Door drilling 14 mm

Supplied with

- 1 spindle part with thread
1 aperture part without thread
1 mounting set

Cross section mm	Dim. A mm	Dim. C mm	Cat. No.
40 x 10	450	300	903.03.583
	600	450	903.03.584

DGH-B-INT 2016, HDE-en, 03/16; Dimensional data not binding. We reserve the right to alter specifications without notice.



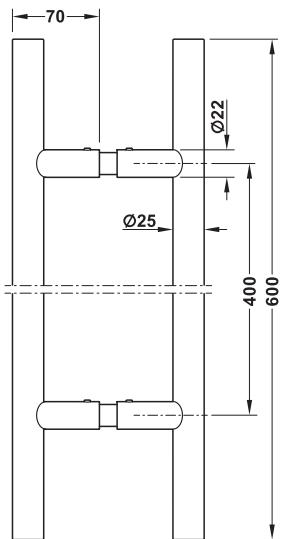
- Material: Stainless steel
- Installation: In pairs
- For door thickness: 8–50 mm
- Drill hole Ø: Glass drilling 13 mm, wood drilling 8.5 mm

Supplied with

- 1 spindle part with thread
1 aperture part without thread
1 mounting set for wood and glass
Threaded bolt M8x40 mm, M8x80 mm and rubber layer for glass

Cross section mm	Dim. A mm	Dim. C mm	Satin stainless steel	Brass coloured PVD coated	Graphite black PVD coated
25 x 25	600	400	903.00.980	903.00.988	903.00.983

1

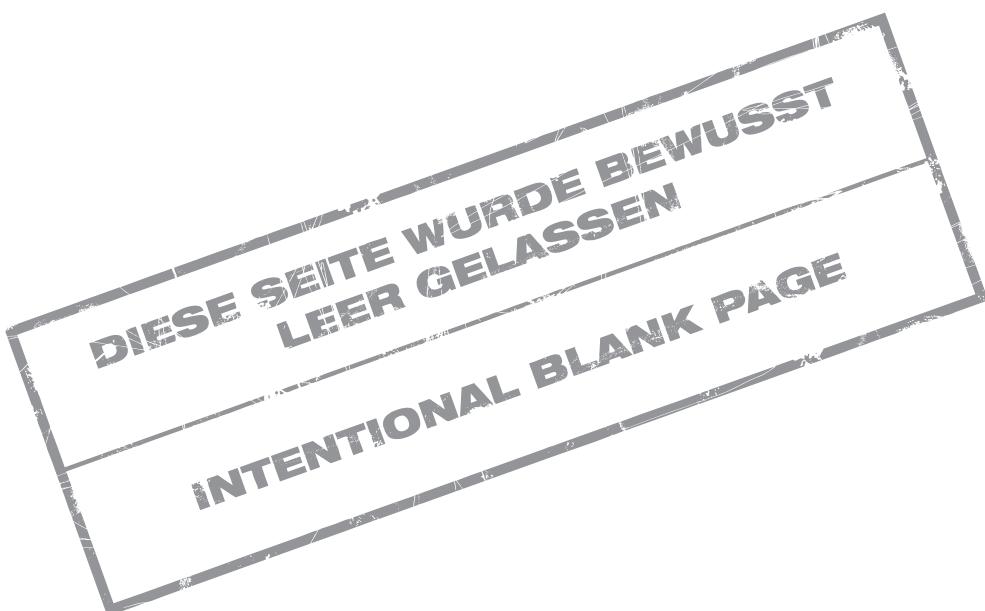


• Material:	Stainless steel
• Installation:	In pairs
• For door thickness:	8–50 mm
• Drill hole Ø:	Glass drilling 13 mm, wood drilling 8.5 mm

Supplied with

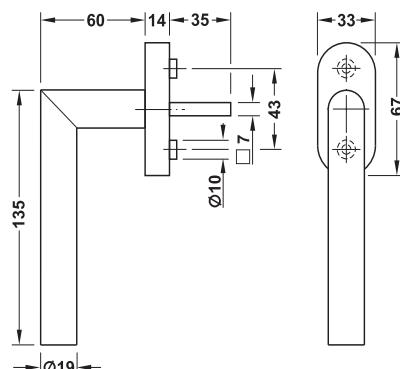
- 1 spindle part with thread
- 1 aperture part without thread
- 1 mounting set for wood and glass
- Threaded bolt M8x40 mm, M8x80 mm and rubber layer for glass

Cross section mm	Dim. A mm	Dim. C mm	Satin stainless steel	Brass coloured PVD coated	Graphite black PVD coated
Ø 25	600	400	903.06.030	903.06.038	903.06.033



1

Model WH 2171



- Material: Stainless steel
- Version: 90° ball catch mechanism for tilt and turn windows, pivot-fitted

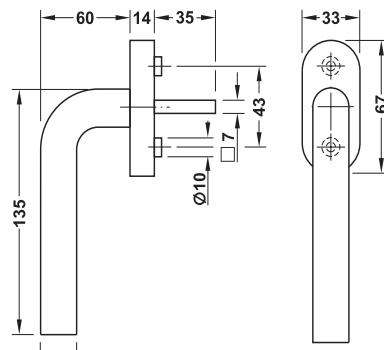
Supplied with

- 1 window handle
- 2 threaded screws M5 x 40 mm
- 1 square spindle 7 x 70 mm (35 mm protruding)



Model series	Satin	Polished	Brass coloured, PVD coated
Model WH 2171	972.30.380	972.30.381	972.30.384

Model WH 2172



- Material: Stainless steel
- Version: 90° ball catch mechanism for tilt and turn windows, pivot-fitted

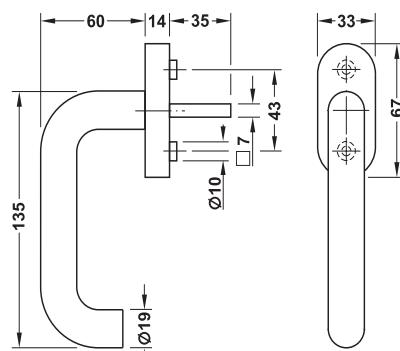
Supplied with

- 1 window handle
- 2 threaded screws M5 x 40 mm
- 1 square spindle 7 x 70 mm (35 mm protruding)



Model series	Satin	Polished	Brass coloured, PVD coated
Model WH 2172	972.30.390	972.30.391	972.30.394

Model WH 2170



- Material: Stainless steel
- Version: 90° ball catch mechanism for tilt and turn windows, pivot-fitted

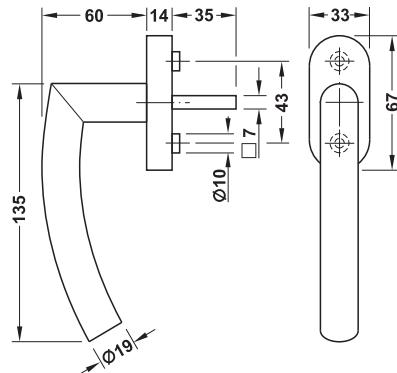
Supplied with

- 1 window handle
- 2 threaded screws M5 x 40 mm
- 1 square spindle 7 x 70 mm (35 mm protruding)



Model series	Satin	Polished	Brass coloured, PVD coated
Model WH 2170	972.30.370	972.30.371	972.30.374

Model WH 2189



- Material: Stainless steel
- Version: 90° ball catch mechanism for tilt and turn windows, pivot-fitted

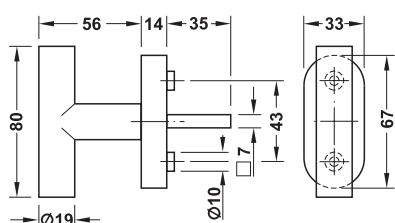
Supplied with

- 1 window handle
- 2 threaded screws M5 x 40 mm
- 1 square spindle 7 x 70 mm (35 mm protruding)



Model series	Satin	Polished	Brass coloured, PVD coated
Model WH 2189	972.30.400	972.30.401	972.30.404

Model WH 2110



- Material: Stainless steel
- Version: 90° ball catch mechanism for tilt and turn windows, pivot-fitted

Supplied with

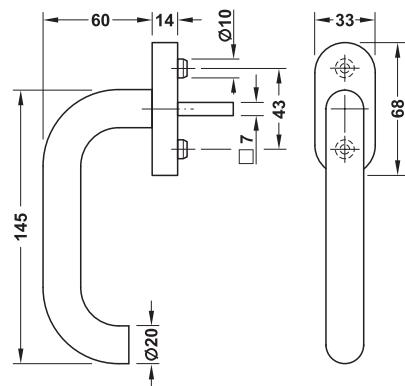
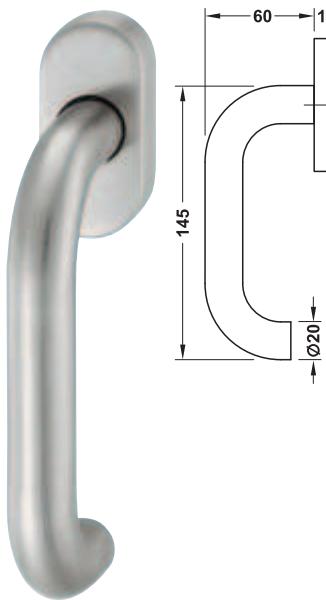
- 1 window handle
- 2 threaded screws M5 x 40 mm
- 1 square spindle 7 x 70 mm (35 mm protruding)



Model series	Satin	Polished	Brass coloured, PVD coated	Bronze coloured, PVD coated
Model WH 2110	972.30.360	972.30.361	972.30.364	972.30.368

1

Model PWH 4102



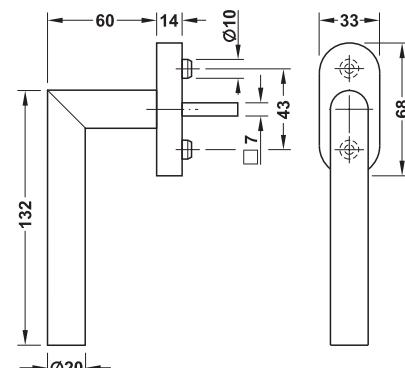
- Material: Stainless steel
- Version: 4-position 90° ball catch mechanism for tilt and turn windows, pivot-fitted ball bearing, with 7 mm square spindle

Supplied with

- 1 window handle
- 2 threaded screws M5 x 45 mm
- 2 square spindles 7 mm, 24/32 and 36/42, supplied separately

Finish	Cat. No.
Satin	972.30.066

Model PWH 4103



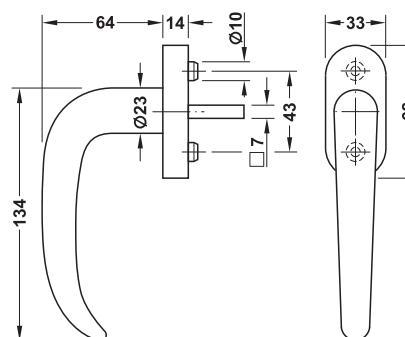
- Material: Stainless steel
- Version: 4-position 90° ball catch mechanism for tilt and turn windows, pivot-fitted ball bearing, with 7 mm square spindle

Supplied with

- 1 window handle
- 2 threaded screws M5 x 45 mm
- 2 square spindles 7 mm, 24/32 and 36/42, supplied separately

Finish	Cat. No.
Satin	972.30.068

Model PWH 4104



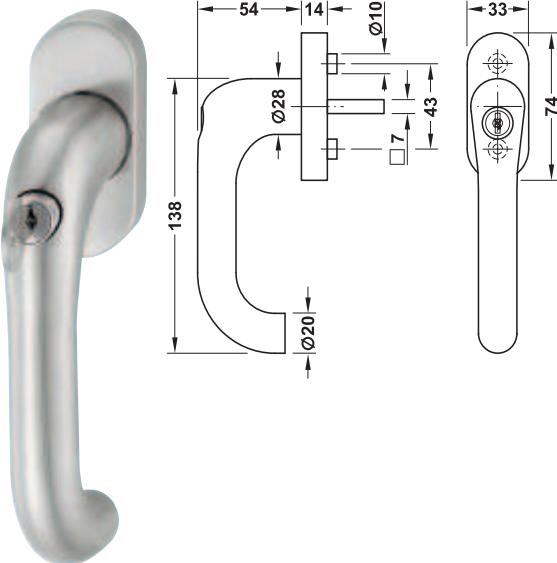
- Material: Stainless steel
- Version: 4-position 90° ball catch mechanism for tilt and turn windows, pivot-fitted ball bearing, with 7 mm square spindle

Supplied with

- 1 window handle
- 2 threaded screws M5 x 45 mm
- 2 square spindles 7 mm, 24/32 and 36/42, supplied separately

Finish	Cat. No.
Satin	972.30.070

Model PWH 4102



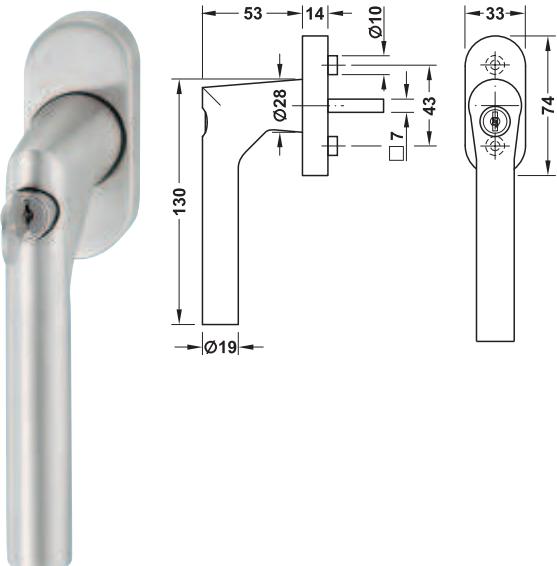
- Material: Stainless steel
- Version: 4-position 90° ball catch mechanism for tilt and turn windows, pivot-fitted ball bearing, lockable, with 7 mm square spindle
- Standard: Tested to DIN EN 1627:2011 table B1, partial test of tilt and turn fittings in compliance with EN 13126-3

Supplied with

- 1 window handle
- 2 threaded screws M5 x 50 mm
- 2 square spindles 7 mm, 24/32 and 36/42, supplied separately
- 2 keys

Finish	Cat. No.
Satin	972.30.072

Model PWH 4103



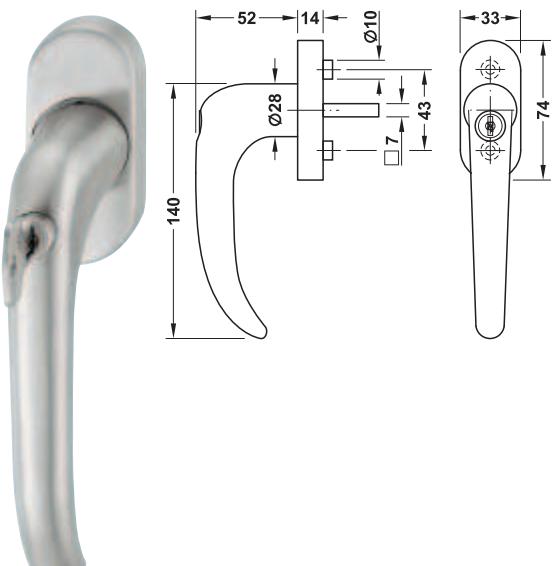
- Material: Stainless steel
- Version: 4-position 90° ball catch mechanism for tilt and turn windows, pivot-fitted ball bearing, lockable, with 7 mm square spindle
- Standard: Tested to DIN EN 1627:2011 table B1, partial test of tilt and turn fittings in compliance with EN 13126-3

Supplied with

- 1 window handle
- 2 threaded screws M5 x 50 mm
- 2 square spindles 7 mm, 24/32 and 36/42, supplied separately
- 2 keys

Finish	Cat. No.
Satin	972.30.074

Model PWH 4104



- Material: Stainless steel
- Version: 4-position 90° ball catch mechanism for tilt and turn windows, pivot-fitted ball bearing, lockable, with 7 mm square spindle
- Standard: Tested to DIN EN 1627:2011 table B1, partial test of tilt and turn fittings in compliance with EN 13126-3

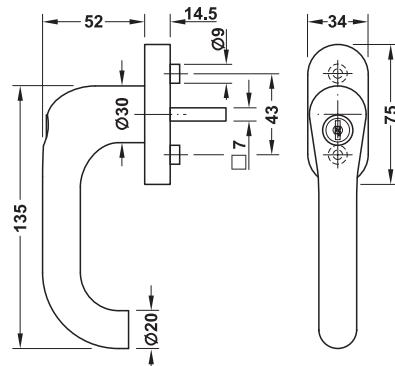
Supplied with

- 1 window handle
- 2 threaded screws M5 x 50 mm
- 2 square spindles 7 mm, 24/32 and 36/42, supplied separately
- 2 keys

Finish	Cat. No.
Satin	972.30.076

1

Model PWH 4102 TBT



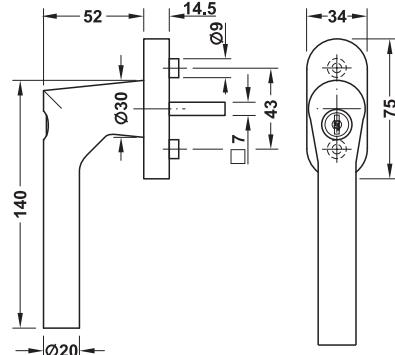
- Version: 4-position 90° ball catch mechanism for tilt and turn windows, with TBT function, pivot-fitted ball-bearing, lockable, with square spindle 7 mm

Supplied with

- 1 window handle
- 1 square spindle 7 mm (35 mm protruding)
- 1 key

Material	Finish	Cat. No.
Stainless steel	Satin	972.40.000
Aluminium	Silver coloured	974.40.061

Model PWH 4103 TBT



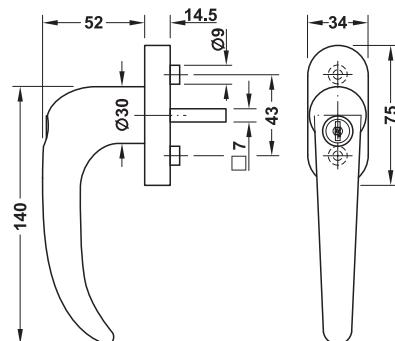
- Version: 4-position 90° ball catch mechanism for tilt and turn windows, with TBT function, pivot-fitted ball-bearing, lockable, with square spindle 7 mm

Supplied with

- 1 window handle
- 1 square spindle 7 mm (35 mm protruding)
- 1 key

Material	Finish	Cat. No.
Stainless steel	Satin	972.40.002
Aluminium	Silver coloured	974.40.071

Model PWH 4104 TBT



- Version: 4-position 90° ball catch mechanism for tilt and turn windows, with TBT function, pivot-fitted ball-bearing, lockable, with square spindle 7 mm

Supplied with

- 1 window handle
- 1 square spindle 7 mm (35 mm protruding)
- 1 key

Material	Finish	Cat. No.
Stainless steel	Satin	972.40.004
Aluminium	Silver coloured	974.40.081

HÄFELE



LOCKING SYSTEMS

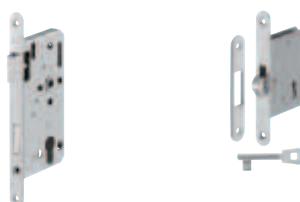


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2



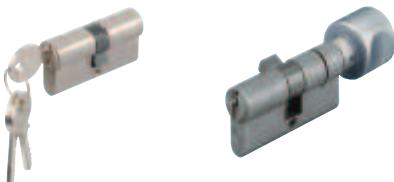
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Products	For hinged doors	Backset mm						Forend mm				Closure		Page					
		40	45	50	55	57	60	65	80	82	16	18	20	24	25	CB	Bathroom/WC	PC	none
For hinged doors																			
	Grade 1				✓						✓	✓	✓		✓	✓			2.11
	Magnetic mortise lock			✓							✓				✓	✓			2.12
	Grade 2			✓							✓	✓	✓		✓	✓	✓		2.13–2.15
	Left/right reversible			✓							✓	✓	✓		✓	✓	✓		2.16–2.18
	Grade 3, for wet rooms			✓			✓	✓				✓	✓				✓		2.19
	With two backsets	✓						✓				✓				✓			2.20
	Grade 3			✓		✓	✓				✓	✓			✓	✓	✓		2.21–2.23
	Mortise deadlock			✓								✓				✓	✓		2.27–2.29
	Mortise latch lock			✓								✓						✓	2.30
	Grade 3, mortise latch lock			✓								✓					✓		2.31
For fire resistant doors																			
	Grade 3				✓						✓	✓			✓				2.24
			✓		✓		✓	✓			✓	✓				✓			2.25
				✓		✓						✓				✓			2.26
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	Lock				✓						✓				✓				2.32, 2.34
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	With hook latch				✓						✓				✓		✓	✓	2.35, 2.36
	With compass bolt		✓								✓				✓	✓	✓		2.37, 2.38
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	Tubular deadbolt			✓		✓				✓				✓					2.40, 2.41

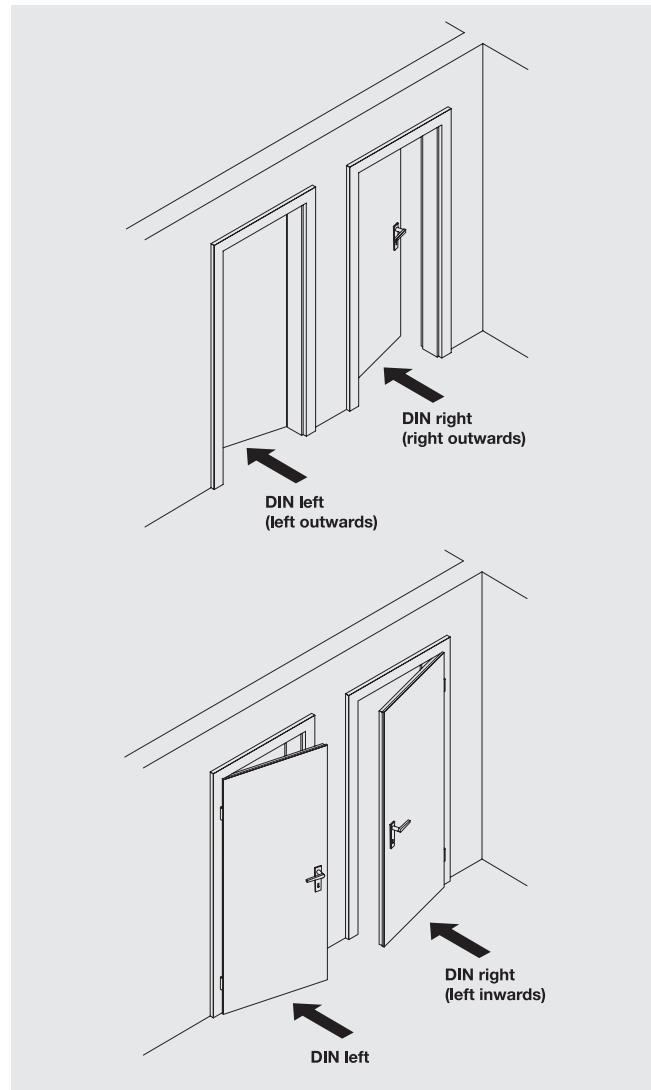
Mortise locks

The mortise locks in this catalogue have been categorized into the following different usage areas:

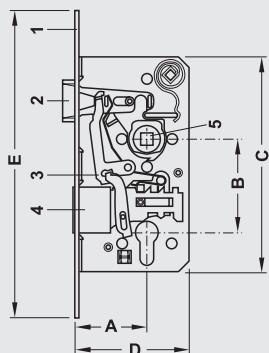
- > For residential areas and projects
- > For external building doors
- > For sliding doors
- > For double action doors
- > For escape routes
- > For fire resistant doors
- > Narrow frame locks

Opening direction

The usable designations can be derived from the access direction.



Lock components and dimensions



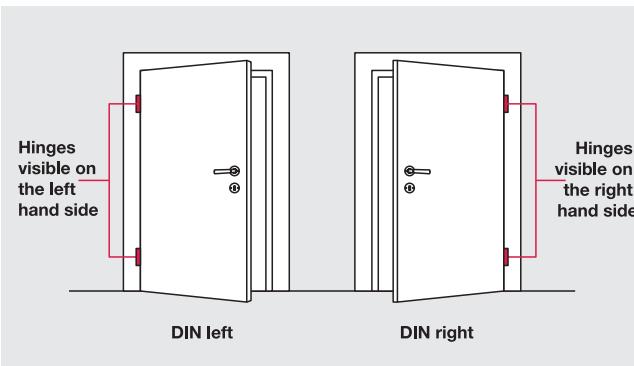
- 1 Forend
2 Latchbolt
3 Key action assembly
4 Deadbolt
5 Lever follower, hub spring

- A Backset
B Distance
C Case height
D Case width
E Forend length
F Forend width

Door mounting – DIN left or DIN right

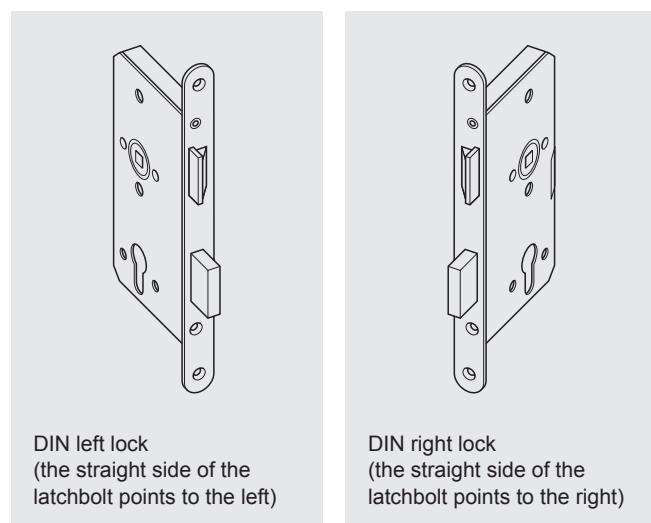
The opening direction determines left or right hand doors. The door direction or handing according to DIN 107 is determined as follows:

- > Visible position of the door hinges on the left = **DIN left**
- > Visible position of the door hinges on the right = **DIN right**



Lock handing

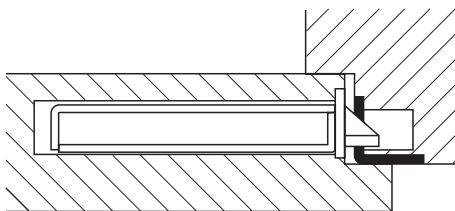
In accordance with the door directions, the mortise locks are also classified as DIN left hand and DIN right hand locks:



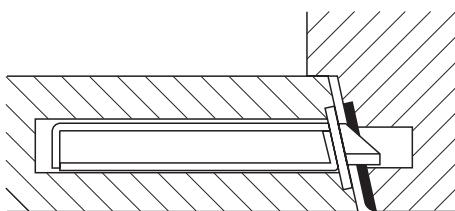
Type of door

The choice of mortise lock also depends on the type of the door:

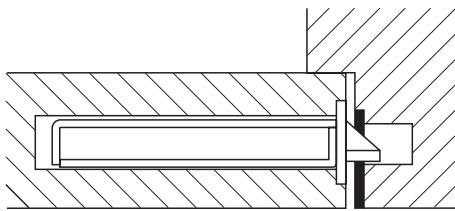
- > Profile of a rebated door with mortise lock (forend protruding on one side)



- > Profile of a flush door with angled front edge and mortise lock (forend protruding on both sides and at an angle to the lock case)



- > Profile of a flush door with mortise lock forend protrudes on both sides



Test symbol

The special quality of a mortise lock can be certified by various institutes with an appropriate test seal.

Closure

The mortise locks in this catalogue are categorised into the following locking types:

- > CB cipher bit
- > WC/bathroom for bathroom doors
- > PC prepared for profile cylinder

Latchbolt

The latchbolt has the task to keep the door panel closed.

The material or special surface treatments (nickel plating, chrome plating, Teflon coating etc.) have an influence on the glide quality of the latchbolt.

Latchbolt cushioning

In order to reduce locking noise, sound absorbing elements can be fitted in the area of the latchbolt and the lever follower.

Modified latchbolt heads, e.g. by installing sound absorbing rollers, are also used for sound absorption.

Deadbolt

According to DIN 18251, the deadbolt in the locked (secured) position has the task to prevent access by unauthorized persons.

By turning the key or lock handle once or twice, the deadbolt is pre-locked 1-turn or 2-turn.

An increased deadbolt throw makes the lock more secure.

Key action

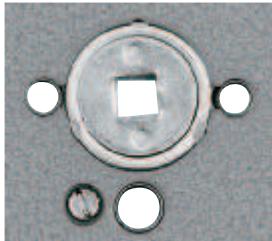
The latchbolt can be operated with the key.

Lever follower

Many different mortise lock lever followers are available, some of which are special versions. The basic functionality of the versions shown in this catalogue can be described as follows:

Lever follower housing

Various lever followers are also housed in special ring systems made from metal or plastic. The increased bearing surface of the follower reduces wear in both the axial and radial directions. The glide quality can also be improved by the choice of ring material.



Motor mortise lock

As part of an access control system, motor mortise locks fulfil the following tasks:

- > The door is kept locked in such way to comply with the requirements of insurance companies.
- > The accessibility of the door from the inside and outside can be authorized in a controlled manner via a control.
- > A panic release allows free exit at any time from the inside (escape route function).

Standardization in compliance with DIN

Mortise locks can be tested according to DIN 18251 and assigned to 5 lock categories:

Grade 1

- > Lock for interior doors (interior door lock for infrequently used door)
- > Backset 55 mm
- > Lock cover secured in two places
- > max. door weight 40 kg*
- > Infrequent use

Grade 2

- > Lock for more frequently used interior doors (interior door lock)
- > Backset 55 mm
- > Lock cover secured in at least two places
- > Door weight 40–50 kg*
- > Standard use

Grade 3

- > Lock for external apartment doors
- > Backset 55 mm
- > Lock cover secured in at least three places
- > Door weight 50–60 kg*
- > Moderate use
- > Type tested according to DIN 18257 with firmly fixed fittings with 200,000 latchbolt operations and 50,000 deadbolt operations

Grade 4

- > Lock for high user frequency and increased burglary prevention
- > Backset 55–100 mm
- > Lock cover secured in at least three places
- > Door weight greater than 60 kg*
- > Frequent use
- > Type tested according to DIN 18257 with firmly fixed fittings with 500,000 latchbolt operations and 100,000 deadbolt operations

Grade 5

- > Lock for high user frequency and increased burglary prevention
- > Backset 55–100 mm
- > Lock cover secured in at least three places
- > Door weight greater than 60 kg*
- > Frequent use
- > Type tested according to DIN 18257 with firmly fixed fittings with 500,000 latchbolt operations and 100,000 deadbolt operations

* The door weight refers to a standard door with size 2 x 1 m.

**Classification of mechanically operated locks and striking plates in compliance with
EN 12209:2003**

The performance features are defined by this European Standard in order to ensure that the different products are comparable.

11-digit classification key in accordance with EN 12209:2003

Position										
1	2	3	4	5	6	7	8	9	10	11
Category of use	Durability and load on latchbolt	Door weight and closing force	Suitability for use on fire resistant and smoke control doors	Safety	Corrosion resistance and temperature	Security and drilling protection	Field of door application	Type of key operation and locking	Type of spindle operation	Key identification

Meaning of individual positions in classification key:

Position	Possible grades	Meaning
1 Category of use	1 – 3	1 = for use by persons who are inclined to take the utmost care and are unlikely to use the fittings incorrectly, e.g. in residential areas 2 = for use by persons who are inclined to take the utmost care but may possibly use the fittings incorrectly, e.g. office doors 3 = for use by members of the public who are unlikely to take the utmost care and are extremely likely to use the fittings incorrectly, e.g. in public buildings
2 Durability and load on latchbolt	A – C, F – H, L – M, R – S, W – X	A = 50,000 test cycles, no load on latchbolt B = 100,000 test cycles, no load on latchbolt C = 200,000 test cycles, no load on latchbolt F = 50,000 test cycles, 10 N load on latchbolt G = 100,000 test cycles, 10 N load on latchbolt H = 200,000 test cycles, 10 N load on latchbolt L = 100,000 test cycles, 25 N load on latchbolt M = 200,000 test cycles, 25 N load on latchbolt R = 100,000 test cycles, 50 N load on latchbolt S = 200,000 test cycles, 50 N load on latchbolt W = 100,000 test cycles, 120 N load on latchbolt X = 200,000 test cycles, 120 N load on latchbolt
3 Door weight and closing force	1 – 9	1 = door weight up to 100 kg, max. 50 N closing force 2 = door weight up to 200 kg, max. 50 N closing force 3 = door weight above 200 kg or specified by the manufacturer, max. 50 N closing force 4 = door weight up to 100 kg, max. 25 N closing force 5 = door weight up to 200 kg, max. 25 N closing force 6 = door weight above 200 kg or specified by the manufacturer, max. 25 N closing force 7 = door weight up to 100 kg, max. 15 N closing force 8 = door weight up to 200 kg, max. 15 N closing force 9 = door weight above 200 kg or specified by the manufacturer, max. 15 N closing force
4 Suitability for use on fire resistant and smoke control doors	0 – 1	0 = not approved for use on fire resistant and smoke control doors 1 = suitable for use, subject to satisfactory fire test report of lock contribution to fire resistance. This fire test report is outside the scope of application of this standard.
5 Safety	0	0 = no safety requirements
6 Corrosion resistance and temperature	0, A – G	0 = no defined corrosion resistance, no temperature requirement A = low corrosion resistance, no temperature requirement B = moderate corrosion resistance, no temperature requirement C = high corrosion resistance, no temperature requirement D = very high corrosion resistance, no temperature requirement E = moderate corrosion resistance, temperature requirement –20 °C to +80 °C F = high corrosion resistance, temperature requirement –20 °C to +80 °C G = very high corrosion resistance, temperature requirement –20 °C to +80 °C

7 Security and drilling protection	1 – 7	1 = minimum security and no drilling protection 2 = low security and no drilling protection 3 = moderate security and no drilling protection 4 = high security and no drilling protection 5 = high security with drilling protection 6 = very high security and no drilling protection 7 = very high security with drilling protection
8 Field of door application ¹	A – H, J – N, P, R	A = mortise lock, unrestricted application (hinged door and sliding door) B = mortise lock, hinged door C = mortise lock, sliding door D = rim lock, unrestricted application (hinged door and sliding door) E = rim lock, hinged door F = rim lock, sliding door H = mortise lock, hinged door, supported forend J = rim lock, unrestricted application (hinged door and sliding door) K = mortise lock, hinged door, locked from inside L = mortise lock, sliding door, locked from inside M = rim lock, hinged door, locked from inside N = rim lock, sliding door, locked from inside P = mortise lock, hinged door, supported forend, locked from inside R = rim lock, hinged door (inwards opening only), locked from inside S = mortise lock, unrestricted application (hinged door and sliding door), locked from inside T = rim lock, unrestricted application (hinged door and sliding door), locked from inside
9 Type of key operation and locking	0, A – H	0 = not applicable A = cylinder lock, manual locking B = cylinder lock, automatic locking C = cylinder lock, manual locking with intermediate locking D = lever lock, manual locking E = lever lock, automatic locking F = lever lock, manual locking with intermediate locking G = lock without key operation, manual locking H = lock without key operation, automatic locking
10 Type of spindle operation	0 – 4	0 = lock without lever follower 1 = lock with knob or sprung lever handle operation 2 = lock with unsprung lever handle operation 3 = lock for heavy duty sprung lever handle operation 4 = lock for heavy duty sprung lever handle operation specified by the manufacturer
11 Key identification requirement	0, A – H	0 = no requirement A = min. 3 detaining elements B = min. 5 detaining elements C = min. 5 detaining elements, extended number of effective differs D = min. 6 detaining elements E = min. 6 detaining elements, extended number of effective differs F = min. 7 detaining elements G = min. 7 detaining elements, extended number of effective differs H = min. 8 detaining elements, extended number of effective differs

¹ **Note:** Cylinder locks that cannot be identified for locking from inside (as the cylinder is not supplied with the lock) must be graded according to letter A to J.

Example: "Mortise lock, profile cylinder" (certified in compliance with EN 12209:2003)

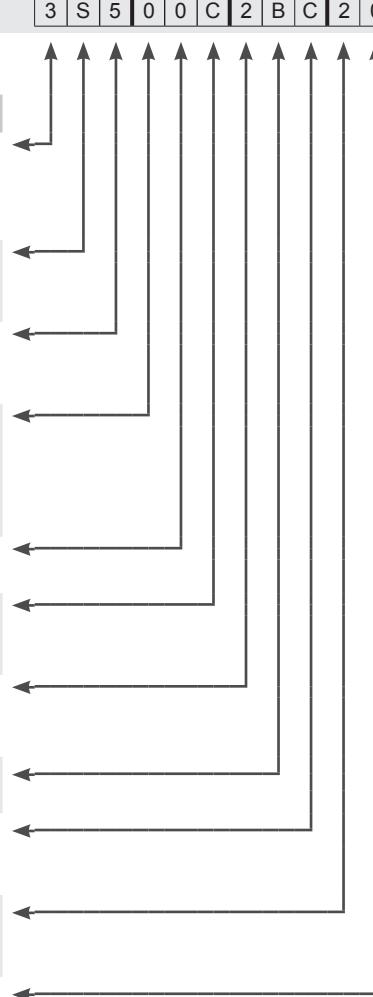
2



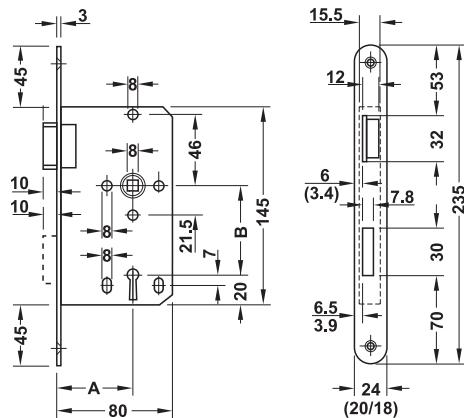
- Classification code:

3 S 5 0 0 C 2 B C 2 0

Position	Meaning
1 Category of use	Grade 3: For use by members of the public who are unlikely to take the utmost care and are extremely likely to use the fittings incorrectly, e.g. in public buildings
2 Durability and load on latchbolt	Grade S: 200,000 test cycles, 50 N load on latchbolt
3 Door weight and closing force	Grade 5: Door weight up to 200 kg, max. 25 N closing force
4 Suitability for use on fire resistant and smoke control doors	Grade 0: Not approved for use on fire resistant and smoke control doors
5 Safety	Grade 0: No safety requirement
6 Corrosion resistance and temperature	Grade C: High corrosion resistance, no temperature requirement
7 Security and drilling protection	Grade 2: Low security and no drilling protection
8 Field of door application	Grade B: Mortise lock, pivot door
9 Type of key operation and locking	Grade C: Cylinder lock, manual locking with intermediate locking
10 Type of spindle operation	Grade 2: Lock with unsprung lever handle operation
11 Key identification	Grade 0: No requirement



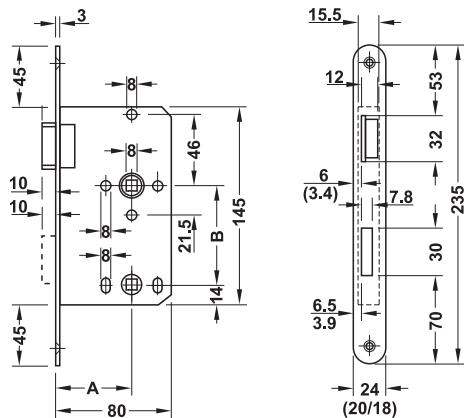
Mortise lock, cipher bit



Dim. in brackets refer to forend width 18/20 mm

- Area of application: For rebated (forend 18/20 mm) or flush (forend 24 mm) wooden doors
- Material: Forend: Steel, stainless steel or brass, latchbolt, deadbolt and lever follower: Polyamide, lock case: Steel
- Closure: Cipher bit
- Deadbolt: 1 turn
- Forend: Round
- Lever follower: 8 mm
- Distance B: 72 mm
- Standard: In compliance with DIN 18251, part 1

Mortise lock, WC/bathroom



Dim. in brackets refer to forend width 18/20 mm

- Area of application: For rebated (forend 18/20 mm) or flush (forend 24 mm) wooden doors
- Material: Forend: Steel, stainless steel or brass, latchbolt, deadbolt and lever follower: Polyamide, lock case: Steel
- Closure: WC/bathroom
- Deadbolt: 1 turn
- Forend: Round
- Lever follower: 8 mm
- Deadbolt follower: 8 mm
- Distance B: 78 mm
- Standard: In compliance with DIN 18251, part 1

Supplied with
1 Mortise lock
1 Key

Forend width mm	Mounting	Stainless steel matt	Brass, polished with protective lacquer	Steel, silver colour lacquered
Backset A 55 mm				
18	DIN left	911.01.111	–	911.01.107
	DIN right	911.01.112	–	911.01.108
20	DIN left	911.01.075	911.01.073	911.01.067
	DIN right	911.01.076	911.01.074	911.01.068
24	DIN left	911.01.085	–	911.01.077
	DIN right	911.01.086	–	911.01.078

Forend width mm	Mounting	Stainless steel matt	Brass, polished with protective lacquer	Steel, silver colour lacquered
Backset A 55 mm				
18	DIN left	911.01.117	–	911.01.113
	DIN right	911.01.118	–	911.01.114
20	DIN left	911.01.095	911.01.091	911.01.087
	DIN right	911.01.096	911.01.092	911.01.088
24	DIN left	911.01.105	–	911.01.099
	DIN right	911.01.106	–	911.01.100