

# Accessories for installation

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# Accessories for installation

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no 1911



Self tapping screw,  
Torx nr. 15.

Stainless steel: 1911.00  
Brass: 1911.90

Code, length:  
A = 13 mm  
B = 16 mm  
Code should be placed after article no. when ordering.

no 1921



M4 machine screw, Torx no. 15,  
incl. threaded bush.

Nickel plated: 1921.00  
Brass: 1921.90

Code, length:  
C = 84 mm  
D = 100 mm  
E = 40 mm  
Code should be placed after article no. when ordering.



no 1922



M4 machine screw, Torx nr. 15.

Nickel plated: 1922.00  
Brass: 1922.90

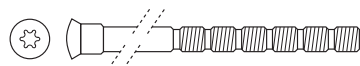
Code, length:  
C = 84 mm  
D = 100 mm  
E = 40 mm  
Code should be placed after article no. when ordering.

no F60001



Threaded bush for M4 machine screw,  
nickel plated, polygonal. For Randi-  
Line® lever handles, roses and back-  
plates.

Nickel plated: F60001  
Brass: M60001



no **F60002**



Threaded bush for M4 machine screw, nickel plated. For Line 18® lever handles, roses and backplates.

no **87030-87038**



Grub screw M6 for fixing of Randi-Line lever handles.

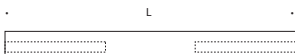
- M6 x 4,8 mm, for ø16 mm levers in stainless steel **87036**
- M6 x 5,7 mm, for ø19 mm levers in stainless steel **87037**
- M6 x 7,2 mm, for ø22 mm levers in stainless steel **87038**
  
- M6 x 4,8 mm, for ø16 mm lever handles in brass **87030**
- M6 x 5,7 mm, for ø19 mm lever handles in brass **87031**
- M6 x 7,2 mm, for ø22 mm lever handles in brass **87032**

no **56042-82574**



Spindle 8x8 mm for lever handles. Electro zinc-coated.

- 8 x 8 x 80 mm **56042**
- 8 x 8 x 90 mm **82564**
- 8 x 8 x 96 mm **82566**
- 8 x 8 x 108 mm **56044**
- 8 x 8 x 114 mm **82568**
- 8 x 8 x 120 mm **82570**
- 8 x 8 x 128 mm **56045**
- 8 x 8 x 137 mm **82572**
- 8 x 8 x 160 mm **82574**



no **82534-82536**



Spindle 8x8 mm, for Classic-Line lever handles, ø13 and ø14 mm. Electro zinc-coated.

- 8 x 8 x 92 mm **82534**
- 8 x 8 x 118 mm **82536**

no **82616-82618**



Spindle 8x8 mm, for Line 18® lever handles. Electro zinc-coated.

8 x 8 x 124 mm **82616**  
8 x 8 x 100 mm **82618**

no **74040-74043**



Split spindle.

8 x 8 mm, dt = 39-69 mm **74040AB**  
8 x 8 mm, dt = 58-82 mm **74040CD**  
9 x 9 mm, dt = 39-69 mm **74043AB**  
9 x 9 mm, dt = 58-82 mm **74043CD**



no **56049-56192**



Randi half spindle for doors with bore from one side only. Electro zinc-coated.

8 x 8 x 49 mm **56049**  
8 x 8 x 59 mm **56050**  
8 x 8 x 69 mm **56051**  
8 x 8 x 79 mm **56052**

9 x 9 x 49 mm **56180**  
9 x 9 x 59 mm **56181**  
9 x 9 x 69 mm **56182**  
9 x 9 x 79 mm **56183**

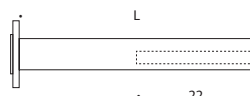
10 x 10 x 49 mm **56190**  
10 x 10 x 59 mm **56191**  
10 x 10 x 69 mm **56192**

no **56060-56062**



Spindle for one side fixing.

8 x 8 x 49 mm **56060**  
8 x 8 x 59 mm **56061**  
8 x 8 x 69 mm **56062**



# no 53002/MX

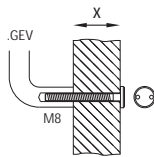


M8 screw (pignosed), bolt through fixing for pull handles ø14, ø16, ø19 mm, incl. washers ø28x2 mm. Supplied in pairs.

- Dt. 10-22 mm incl. fittings for glass fixing! 53002/MA
- Dt. 23-30 mm 53002/MB
- Dt. 31-42 mm 53002/MC
- Dt. 43-54 mm 53002/MD
- Dt. 55-66 mm 53002/ME
- Dt. 67-78 mm 53002/MF

Brass: 53003/MX

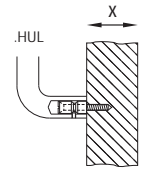
X = code for door thickness (Dt)



# no 53050T



Face fixing for pull handles ø14, ø16, ø19 mm, incl. washers ø28x2 mm. Supplied in pairs. For pin sides only.

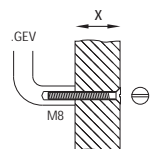


# no 74071/GX



M8 screw, cross-slot, for bolt through fixing of pull handles ø14, ø16, ø19 mm, incl. washers ø28x2 mm. Supplied in pairs.

- Dt. 10-22 mm incl. fittings for glass fixing! 74071/GA
- Dt. 23-30 mm 74071/GB
- Dt. 31-42 mm 74071/GC
- Dt. 43-54 mm 74071/GD
- Dt. 55-66 mm 74071/GE
- Dt. 67-78 mm 74071/GF
- Dt. 79-90 mm 74071/GG

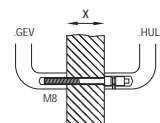


# no 53040/SX



M8 assembly screw, back to back fixing for pull handles ø14, ø16, ø19 mm, incl. washers ø28x2 mm. Supplied in pairs.

- Dt. 10-22 mm incl. fittings for glass fixing! 53040/SA
- Dt. 23-30 mm 53040/SB
- Dt. 31-42 mm 53040/SC
- Dt. 43-54 mm 53040/SD
- Dt. 55-66 mm 53040/SE
- Dt. 67-78 mm 53040/SF
- Dt. 79-90 mm 53040/SG



no 60040



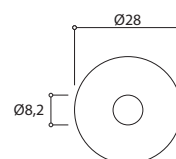
Fitting for installation of pull handles,  $\varnothing 14$ ,  $\varnothing 16$ ,  $\varnothing 19$  mm, on glass doors. Supplied in pairs.

no 53019/2



Washers  $\varnothing 28 \times 2$  mm, for stainless steel pull handles  $\varnothing 14$ ,  $\varnothing 16$ ,  $\varnothing 19$  mm. Supplied in pairs.

Brass: 53018/2

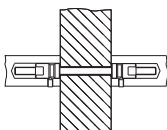


no 73040SX



M8 assembly screws, back to back fixing of Line 18<sup>®</sup> pull handles.

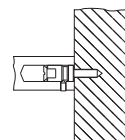
Dt. 10-42 mm 73040SABC  
Dt. 43-78 mm 73040SDEF



no 73045T



M8 screws for face fixing of Line 18<sup>®</sup> pull handles. For doors thicker than 30 mm. Supplied in pairs.

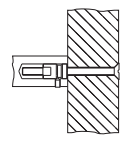


# no 73046GX



M8 screw for bolt through fixing of Line 18° pull handles. Supplied in pairs.

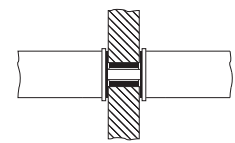
- Dt. 10-22 mm      73046GA
- Dt. 23-42 mm    73046GBC
- Dt. 43-54 mm    73046GD
- Dt. 55-78 mm    73046GEF



# no 60045



Fitting for installation of Line 18° pull handles on glass doors. Supplied in pairs.



# no 55262



Rubber buffer, black, for door stops 1600 and 1601.

# no 55274



Rubber buffer, black, for door stop 1604.

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no 83002

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Rubber buffer, black,  
for door stop 1602.

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no 55286

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Rubber buffer, grey,  
for door stop 1606.

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no 55293

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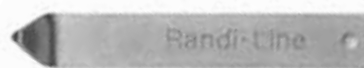


Rubber buffer, grey,  
for door stop 1607.

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no 1952

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Rose remover.

Stainless steel: 1952.00

# no 1953.P1



The Randi drilling jig is for mounting of lever handles with roses and Randi Plug System 38. The attached steel bushes comply with DIN and Ö-Norm for bolt-through fixing.

Note: Drill from both sides of the door using  $\varnothing 8$  mm bit.

# no 1955-15

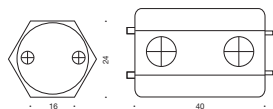


Torx bit, Torx no. 15.

# no 1961



Universal key for M8, M10 and M12 assembly screws (pignosed).



# no 1963



Key (pignosed) for bathroom.

no 1964



Red plastic lever handle, 8x8 mm spindle, for temporary use on construction sites etc.

no 68012



Bathroom-pin (pignosed) for bathroom escutcheons.

no 73219-73224



Extension piece for Randi lever handles  $\varnothing 16$  mm and  $\varnothing 19$  mm. Can be fixed to backplates and roses.

Stainless steel:  
Length 20 mm 73219  
Length 30 mm 73220

Brass:  
Length 20 mm 73223  
Length 30 mm 73224

$\varnothing 19$



## Randi-Line® fittings in satin stainless steel (AISI 304)

Randi-Line® lever handles and other fittings feature satin stainless steel as standard, ideal for modern buildings and offering optimum corrosion protection in ordinary atmospheric conditions. This flexible range of products can be used anywhere, indoors or out, for houses and buildings, and combined in innumerable variations.

### Material and surface

Stainless steel is well-suited for use where high demands are made of durability, hygiene and corrosion resistance, as it forms a thin, protective oxide membrane, which gives a strong, sealed and protective surface highly resistant to mechanical wear.

The alloy used is designated AISI 304, with the following material specification:

Chrome .....	18-19%
Nickel.....	8-10%
Carbon .....	≤ 0,07%
Manganese .....	≤ 2%

(according to EN 10088)

Despite the inclusion of substances such as nickel, stainless steel is considered to be non-allergenic for use as lever handles, fittings and the like.

A number of subcomponents can be made in other materials, such as polymer, brass or aluminium. These are used to improve the product's function, production and durability.

### Maintenance and cleaning

Function and fitting of lever handles and fittings should be checked regularly. Any loose fixings should be tightened and all surfaces cleaned.

The protective oxide membrane on stainless steel can be attacked in industrial and urban areas, where sulphur and nitrogen oxide levels can be high, plus in coastal areas where high levels of chloride can occur, causing the surface to run and form red-brown spots reminiscent of rust. Such occurrences are however only superficial and can be easily prevented or removed by ordinary cleaning.

Recommended cleaning materials are hot water, mild detergent, soft brush or synthetic scouring sponge. In special circumstances, a polishing agent suitable for stainless steel can be used. Never use scouring sponge or steel wool, as these can damage the surface!

Guarantee applies only if the products are correctly fitted and maintained.

### Environmental conditions

Stainless steel does not emit any harmful fumes or metals if used alone. It is generally classified as non-environmentally dangerous waste, but since it contains heavy metals, should be disposed of as iron/metal industrial waste, to ensure correct sorting and recirculation.

No safety datasheet or environmental marking are available for Randi-Line® products.

### Further information

In the event of uncertainty as to use, maintenance or disposal of Randi-Line® lever handles and fittings, please contact the distributor for advice and guidance.

## Novo-Line® bathroom fittings in satin stainless steel

Novo-Line® bathroom fittings are made in satin stainless steel as standard – either AISI 304 or AISI 316 – ideal for modern buildings and providing optimum corrosion protection. They can be used anywhere indoors, and are ideal for wardrobes, toilets and bathrooms, where they contribute with optimum function and quality.

### Material and surface

Stainless steel is well-suited for use where high demands are made of durability, hygiene and corrosion resistance, as it forms a thin, protective oxide membrane, which gives a strong, sealed and protective surface highly resistant to mechanical wear.

The alloy used for the 2800 range is designated AISI 304, with the following material specification:

Chrome .....	18-19%
Nickel.....	8-10%
Carbon .....	≤ 0,07%
Manganese .....	≤ 2%

(according to EN 10088)

The alloy used for the 2900 range is designated AISI 316, with the following material specification:

Chrome .....	16,5-18%
Nickel.....	10-12%
Carbon .....	≤ 0,07%
Manganese .....	≤ 2%
Molybdenum .....	2-3%

(according to EN 10088)

Despite the inclusion of substances such as nickel, stainless steel is considered to be non-allergenic for use as lever handles, fittings and the like. A number of subcomponents can be made in other materials, such as polymer, brass or aluminium. These are used to improve the product's function, production and durability.

### Maintenance and cleaning

Function and fitting of bathroom fittings should be checked regularly. Any loose fixings should be tightened and all surfaces cleaned.

The protective oxide membrane on stainless steel can be attacked in industrial and urban areas, where sulphur and nitrogen oxide levels can be high, plus in coastal areas where high levels of chloride can occur, causing the surface to run and form red-brown spots reminiscent of rust. Such occurrences are however only superficial and can be easily prevented or removed by ordinary cleaning.

Recommended cleaning materials are hot water, mild detergent, soft brush or synthetic scouring sponge. In special circumstances, a polishing agent suitable for stainless steel can be used. Never use scouring sponge or steel wool, as these can damage the surface!

Guarantee applies only if the products are correctly fitted and maintained.

### Environmental conditions

Stainless steel does not emit any harmful fumes or metals if used alone. It is generally classified as non-environmentally dangerous waste, but since it contains heavy metals, should be disposed of as iron/metal industrial waste, to ensure correct sorting and recirculation.

No safety datasheet or environmental marking are available for Novo-Line® products.

### Further information

In the event of uncertainty as to use, maintenance or disposal of Novo-Line® bathroom fittings, please contact the distributor for advice and guidance.

## Novo-Line® bathroom fittings with polyester-varnished surface

Novo-Line® bathroom fittings are made in stainless steel as standard – either AISI 304 or AISI 316 – and supplied with a varnished surface in a range of standard colours. They can be used anywhere indoors, and are ideal for wardrobes, toilets and bathrooms, where they contribute with optimum function and quality.

### Material and surface

Stainless steel is well-suited for use where high demands are made of durability, hygiene and corrosion resistance, as it forms a thin, protective oxide membrane, which gives a strong, sealed and protective surface highly resistant to mechanical wear.

The alloy used for the 2800 range is designated AISI 304, with the following material specification:

Chrome .....	18-19%
Nickel.....	8-10%
Carbon .....	≤ 0,07 %
Manganese .....	≤ 2 %

(according to EN 10088)

The alloy used for the 2900 range is designated AISI 316, with the following material specification:

Chrome .....	16,5-18%
Nickel.....	10-12%
Carbon .....	≤ 0,07%
Manganese .....	≤ 2%
Molybdenum .....	2-3%

(according to EN 10088)

Despite the inclusion of substances such as nickel, stainless steel is considered to be non-allergenic for use as lever handles, fittings and the like. A number of subcomponents can be made in other materials, such as polymer, brass or aluminium. These are used to improve the product's function, production and durability.

Bathroom fittings are supplied with thermo-hardened polyester varnish surfaces (~80 my), giving extremely good corrosion- and weather resistance, plus colour retention. The surface is also highly impact- and chemical resistant.

### Cleaning and maintenance

Function and fitting of bathroom fittings should be checked regularly. Any loose fixings should be tightened and all surfaces cleaned.

The best method for cleaning varnished surfaces is ordinary washing with a mixture of hot water and mild detergent. Clean only using a soft cloth or sponge, using an ordinary soft washing-up brush if necessary. Never use a scouring agent or sponge or steel wool, as they can damage the surface.

Periodical cleaning using mineral-based turpentine can be necessary in maritime or industrial areas with heavy atmospheric pollution to ensure that decorative and protective properties are retained. Never use cleaning agents containing ketones, esters or

alcohols. If in doubt, contact your distributor for advice and guidance. Guarantee applies only if the products are correctly fitted and maintained.

### Environmental conditions

Stainless steel does not emit any harmful fumes or metals if used alone. Hardened polyester varnish contains no solvents which can emit harmful fumes. It is generally classified as non-environmentally dangerous waste, but since it contains heavy metals, should be disposed of as iron/metal industrial waste, to ensure correct sorting and recirculation.

No safety datasheet or environmental marking are available for Novo-Line® products.

### Further information

In the event of uncertainty as to use, maintenance or disposal of Novo-Line® bathroom fittings, please contact the distributor for advice and guidance.

## Line 18® fittings in satin stainless steel (AISI 304)

Line 18® lever handles and other fittings feature satin stainless steel as standard, ideal for modern buildings and offering optimum corrosion protection in ordinary atmospheric conditions. They can be used anywhere inside or out on houses and buildings.

### Material and surface

Stainless steel is well-suited for use where high demands are made of durability, hygiene and corrosion resistance, as it forms a thin, protective oxide membrane, which gives a strong, sealed and protective surface highly resistant to mechanical wear.

The alloy used is designated AISI 304, with the following material specification:

Chromium .....	18-19%
Nickel.....	8-10%
Carbon .....	≤ 0,07 %
Manganese .....	≤ 2 %

(according to EN 10088)

Despite the inclusion of substances such as nickel, stainless steel is considered to be non-allergenic for use as lever handles, fittings and the like. A number of subcomponents can be made in other materials, such as polymer, brass or aluminium. These are used to improve the product's function, production and durability.

### Maintenance and cleaning

Function and fitting of lever handles and fittings should be checked regularly. Any loose fixings should be tightened and all surfaces cleaned.

The protective oxide membrane on stainless steel can be attacked in industrial and urban areas, where sulphur and nitrogen oxide levels can be high, plus in coastal areas where high levels of chloride can occur, causing the surface to run and form red-brown spots reminiscent of rust. Such occurrences are however only superficial and can be easily prevented or removed by ordinary cleaning.

Recommended cleaning materials are hot water, mild detergent, soft brush or synthetic soft sponge. In special circumstances, a polishing agent suitable for stainless steel can be used. Never use scouring sponge or steel wool, as these can damage the surface!

Guarantee applies only if the products are correctly fitted and maintained.

### Environmental conditions

Stainless steel does not emit any harmful fumes or metals if used alone. It is generally classified as non-environmentally dangerous waste, but since it contains heavy metals, should be disposed of as iron/metal industrial

waste, to ensure correct sorting and recirculation.

No safety datasheet or environmental marking are available for Line 18® products.

### Further information

In the event of uncertainty as to use, maintenance or disposal of Line 18® lever handles and fittings, please contact the distributor for advice and guidance.



# Mounting of Randi Lever handles cc-30

**1** Insert the part of the plug with the longest legs into the lock body, from the side where you do not want visible screws. Attach the other part of the plug from the opposite side of the door, onto the legs of the plug. Cut the legs of the plug flush with the door panel.



**4** Cut off the screws at the marked notch, note that maximum screw length is the thickness of the door minus 1 mm. Insert the assembly screws into the legs of the plug. With the Randi-Plug® the screws are guided into the thread on the other side. The plug expands and is held in position in the lock body.



**2** Insert the spindle-side of the lever handle – turn the rose to make the bushes fall into the holes of the plug.



**5** Not until this point, tighten the grub screw. Turn the key until you feel that the screw penetrates into the spindle, and tighten until the screw is firmly fixed.



**3** Attach the other part of the lever handle loosely. Turn the rose to align the screw holes. NB! Do not tighten the grub screw yet!



**6** Check again that the lever handle moves freely. See next page for mounting with rose covers.



### Lever handle with Randi rose covers– concealed fixing

- 7** • Push the cover rose over the lever handle
- Attach the cover rose to the rose beneath with the notch facing downward
- Hold the cover rose in position at the bottom
- Click it into position with firm pressure at the top

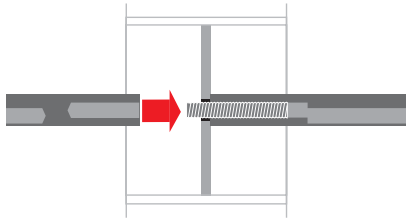


- 8** Finally mounted door-handle with Randi-Cover.

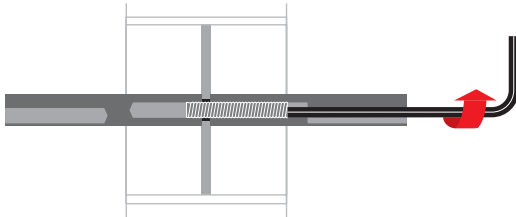


# Installation of two-piece split spindle

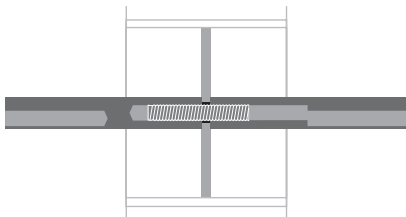
Install the two-piece split spindle from both sides of the lock. (Order no. 74040)



Fit the hexagon socket screw into the section of the spindle that has a center bore for the hexkey. Insert the spindle section into the lock from one side, and press the other section against the lock from the other side. The thinnest wall of both spindle sections must face towards the front edge of the door. This will allow the grub screw of the lever handle to break through the wall of the square spindle when fitting the lever handle. (See fitting instructions for lever handles)



**2** Next, use the hexkey to screw the hexagon socket screw from the one spindle section half-way into the other section to connect the two spindle sections.



**3** Finally, mount roses or plates and then the lever handle. Note: do not tighten the grub screw in the handle until at this point. Tighten until you feel that the screw breaks through the spindle wall, and tighten a little more until the screw is firmly in place.

NB: Randi split spindles for locks with split follower-functions. They are not for standard doors. All installation work should comply with relevant standards and legislation

# Drilling Jig

Spindle  
8, 8.5, 9, 10 mm

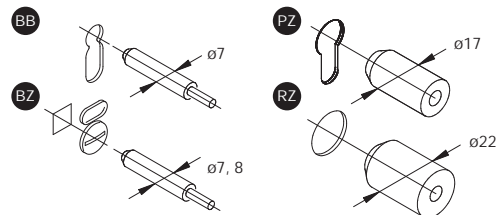
Ø 8, 8.5, 9, 10 mm

Escutcheon



The Randi drilling jig is for mounting of lever handles with roses and Randi Plug System 38. The attached steel bushes comply with DIN and Ö-Norm for bolt-through fixing. Note: drill from both sides of the door using Ø 8 mm bit.

- 1** Loosen the fitting screw, and insert the centre pin (Ø 8 mm, 8.5, 9 or 10) into the spindle socket. Tighten the screw again.
- 2** Loosen the fitting screw, and adjust the slide to the relevant lock centers. Tighten the screw again.
- 3** Loosen the fitting screw, and insert the centre pin into the cylinder/keyhole. Tighten the screw again.



**4** Use a Ø 8 mm bit to drill from both sides of the door.

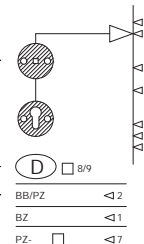


Example  $\nabla$  2:

For roses

Matches DIN locks

For profile cylinders (PZ)



# Mounting of Randi Lever handle cc-38

If the door features no pre-drilled  $\varnothing 8$  mm holes with a cc distance of 38 mm, use the Randi drilling jig. The jig is described on the opposite page. Note that the lock must be according to the DIN standard and have bolt-through screws.

- 1** Insert the lever handle from the side where you do not want visible screws using the attached Randi-Plug's into the door's lock
- Make sure that the rose is in contact with the door panel
  - Cut the legs of the plug flush with the door panel
  - Attach the other part of the lever handle loosely
  - Turn the rose to align the screw holes



- 3** NB! Not until this point, tighten the grub screw.
- Tighten until you feel the screw penetrating the spindle
  - Then tighten a little more until the screw is firmly in place



- 2** Cut off the screws at the marked notch. Note: that maximum screw length is the thickness of the door minus 1 mm
- Insert the assembly screws into the legs of the plug
  - Press the screws in until they meet resistance from the thread lock in the p
  - Tighten the assembly screws
  - Check that the lever handle can move freely



## Lever handle with Randi rose cover – no visible fixings

- 4** Push the cover rose over the lever handle
- Attach the cover rose to the rose beneath with the notch facing downward
  - Hold the cover rose in position at the bottom
  - Click it into position with firm pressure at the top



# Installation of door knob/lever combination

**1** Insert the knob into the backplate bush. Fit the assembly screw into the knob through the backplate and tighten as much as possible with the hexkey.



**2** Insert the threaded end of the spindle into the assembly screw and turn until the length of the spindle fits the thickness of the door. Measured from the inside of the doorplate, the length of the spindle must be 14 mm + the door thickness, 28 mm + the door thickness



**3** IMPORTANT: Leave minimum 1 mm between the assembly bolt and the four-sided end of the spindle so that the spindle can move freely 90° clockwise. Otherwise the lever handle will not work properly.



**4** Before inserting the spindle into the lock body case, check that the bore in the receiving end of the spindle points to the front edge of the door (turn the spindle counter-clockwise until it does).



**5** Fit the other backplate and handle onto the spindle. NOTE: Do not tighten the grub screw yet.

Align the backplate and mark the screw positions with a bradawl. When fitting bolt-through screws, remove the handles and backplates and drill from both sides with a 6 mm bit. Replace the handles and backplates and fit the screws. If bolt-through screws need to be shortened, cut the screws at the marks (maximum length is the door thickness less 1 mm). Check that the lever handle moves freely.



**6** Not until this point, tighten the grub screw. Turn the key until you feel that the screw penetrates into the spindle, and tighten until the screw is firmly fixed. Check again that the lever handle moves freely





## Codes for ordering lever handles

All lever handles are supplied with instructions.

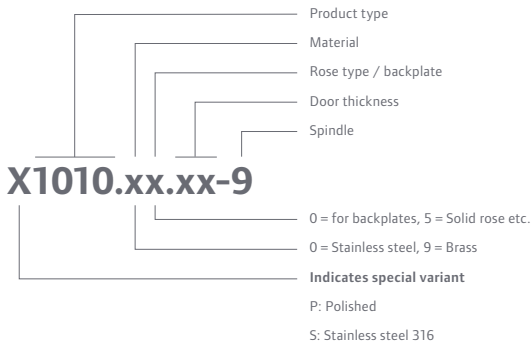
Door thicknesses	40 mm	34-58 mm	58-82 mm
Code	E	AB	CD

Randi lever handles can be supplied with spindle in the following dimensions:

7 x 7 mm	France
8 x 8 mm	Standard (8 mm supplied unless other dimensions are specified)
8,5 x 8,5 mm	Austria
9 x 9 mm	German fire doors

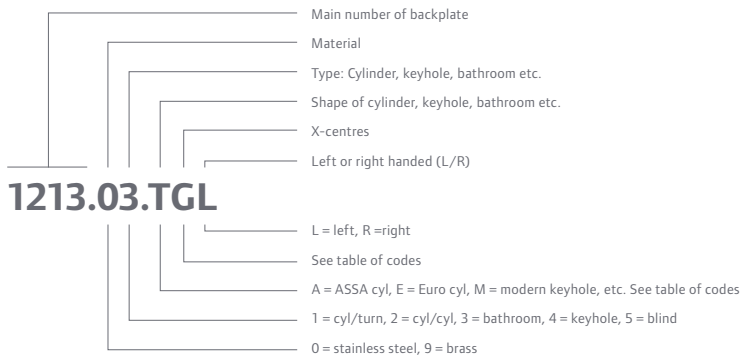
### Ordering lever handles – product description breakdown

Product numbers consist of 9 digits with separate code meanings.



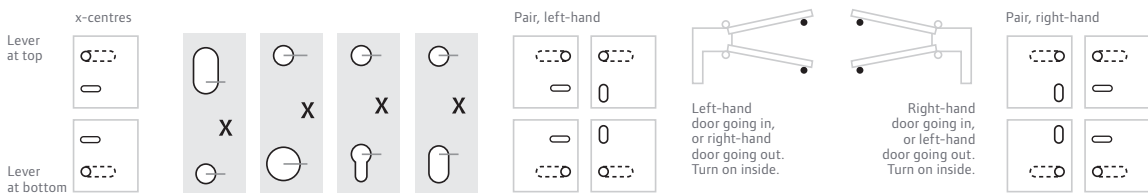
### Ordering backplates – product description breakdown

Product numbers consist of 9 digits with separate code meanings.



## Table of codes for ordering backplates

		Cylinder				Bathroom		Keyhole				
		A	E	K	R	H	T	B	C	D	M	S
X-centres mm	Code for X	-20-		Ø22	Ø29	Ø40						
116,0	V						TV					
115,0	Y	AY										
110,0	U		EU					BU				
105,0	A	AA				HA	TA					
103,5	B	AB				HB	TB					
98,5	Z		EZ									
92,0	C		EC					BC	CC		MC	
90,0	J		EJ				TJ	BJ				
88,0	O		EO									
85,0	N		EN									
78,0	D		ED	KD			TD	BD	CD		MB	
74,0	E						TE					
73,5	F		EF	KF								
72,0	G		EG	KG			TG	BG	CG	DG	MG	SG
70,0	H		EH				TH	BH			MH	
69,0	K				RK		TK					
68,0	L	AL					TL					
63,0	T						TT					
57,0	M		EM				TM	BM	CM	DM	MM	SM
55,0	P		EP				TP	BP	CP	DP	MP	SP
48,5	R					UR						



X-centres is the distance between the centre of the lever hole and the centre of the keyhole. The illustration shows the X-centres in the different types of keyholes and backplates.