MAINTENANCE GUIDE





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Quality you can trust.

Quality is easy to promise – but it may turn out to be an empty promise in practice. Test marks and precise details of quality controls are a good guide to the right choice of product.



Test marks

Hansa fittings satisfy all the requirements of the pertinent standards (DIN, DVGW). Our products are in the lowest noise level class and the plastic parts coming into contact with water have been given KTW (plastics in drinking water) approval.

Constant checks and test procedures relating to noise emissions, operation and durability ensure consistently high quality standards. For example: Our endurance test involves 200.000 on/off and hot/cold operating cycles. UV radiation is employed to check the light fastness of the light-fast powder coatings used.









Warranty is good to have but hopefully never needed.

Bargains sometimes prove to be a false economy: If washers start to leak and replacement parts are soon out of stock, the only answer may be expensive repair work or even a whole new fitting.



Warranty coverage



There is no real need for a warranty for top quality fittings. So the best manufacturers can afford to be generous: Hansa for example guarantee all their products for two years, essential components for a whole five years and certain functional elements for up to five years. Hansa also guarantee the continued availability **of all replacement parts for up to ten years after discontinuation** of the product.

Hansa centres of excellence.

We conduct seminars on our current range at our regional Hansa centres. We would also be pleased to arrange seminars on your premises and can offer special training courses to suit your particular requirements.

For details of dates and route maps etc. please visit us on: www.hansa.de/Fachpartner/Schulung. We look forward to hearing from you.



Hansa Metallwerke AG Akademie Ringstraße 10 c 30457 Hannover Tel.:+49 511 94697-0 Fax:+49 511 4340-661

Hansa Metallwerke AG Robert Kahrmann-Str. 57 D-41334 Nettetal Tel.: +49 2153 9191-70 Fax: +49 2153 9191-777

Hansa Metallwerke AG Schulungszentrum Sigmaringer Str. 107 70567 Stuttgart Tel.: +49 711 1614-565 Fax: +49 711 1614-705

Hansa Metallwerke AG Schulungszentrum Dieselstraße 2-4 93133 Burglengenfeld Tel.: +49 9471 706-290 Fax: +49 9471 706-293

Pleased to meet you: our team of training experts.

The engineers, sales professionals and marketing specialists in our training team are all proven experts in their own fields. Thanks to their wealth of knowledge and experience of handling seminars and workshops, they are ideally qualified to deal with all training situations.



Brigitte Sießer, Karsten Gerhardt, Helmut Kumpfmüller, Georg Friedrichs, Barbara Weiß

Section 00

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Tools available from HANSA:

1 2 3	2 mm Allen key 2.5 mm Allen key 4 mm Allen key	59 9 59 9 59 9	901 906 911	028 367 170
4 5 6 7	2 mm hexagon screwdriver 2.5 mm hexagon screwdriver 3 mm hexagon screwdriver 4 mm hexagon screwdriver	59 9 59 9 59 9 59 9	911 911 913 913	524 184 052 053
8	13 mm / 17 mm /19 mm quick-fit wrench	59 9	910	035
9 10 11	13 mm / 45 mm / 50 mm hexagon ring spanner 38 mm / 41 mm hexagon ring spanner 30 mm / 34 mm hexagon ring spanner	59 9 59 9 59 9	905 912 912	190 780 108
12	Bushing extractor	59 9	906	409
13	Assembly key for tamper-proof aerator	59 9	905	789
14	HANSADESIGNO assembly key	59 9	912	228
15	Assembly and aerator key HANSANOVA pillar and wall valve	59 9	912	334
16	M 16.5 x 1 Cachée key M 18.5 Cachée key M 21.5 x 1 Cachée key M 24 x 1 Cachée key	59 9 59 9 59 9 59 9	913 913 913 913 913	242 201 133 134
17	34 mm HANSASTELA socket	59 9	913	092
18 19 20	Heavy-duty grease Grease sachet Legionella flushing set	59 9 59 9 59 9	901 901 912	040 546 853
21 22	Tool set (30/34 mm, 45/50 mm hexagon ring spanner; 2.5 mm A Chrome polish	59 9 llen k	913 (ey)	229

Section 01

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Unscrew the hand shower head from the shower hose (1). Unscrew the cover plate (2). Pull out the defective shower hose.

Attention!

Remove the bearing shells as well (**3**). Support the high-pressure hose and unscrew the shower hose (**4**). Fit a new shower hose and feed it back in. Take care to position the two shells correctly when doing so. The collar must face upwards (**3**). Screw on the cover plate and hand shower head (**2/1**).



Disassembling bath pillar spout if leaking 1992 onwards

Unscrew the pull knob (1). Remove the 2.5 mm stud (2). Lift off the bath pillar spout (3). Fit a complete new set of seals, order no. 59 910 121. Make sure the lip seal is always correctly positioned (4). Re-install in the reverse order of removal.

Attention!

The brass bearing shell must be fitted with the tapered side facing the seal (**4**).

Check operation and check for leaks

If water emerges at the hand shower head, the extension supplied (5) must be fitted.

With bath rim systems up to 1991 the diverter cannot be dismantled, it has to be completely removed.



Removing the entire diverter 1992 onwards

Refer to page 19 for disassembly of the bath pillar spout.

Remove the brass bearing shell and spring (**5**). The M 4 nut (**6**) only serves as a transportation safeguard and is to be removed on assembly.

Slacken off the bolt (7).

Insert the narrow end of the assembly key and screw out the spout holder (**8 - 10**). Fine thread (as many as 20 turns required for removal!) Turning the threaded sleeve pulls the square section upwards (spout holder).

Insert the broad end of the assembly key in the threaded sleeve and screw out the threaded sleeve (**11**).

Pull out and completely replace the diverter (**12**). Order no. 59 910 176.

Re-install in the reverse order of removal.

Attention!

Adjust the spout holder (9) to the required height (20 - 30 mm).

Section 02

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Tile rim system - height adjustment

Height adjustment involves slackening off / re-tightening the locking screws on the left and right of the Compact system in the specified sequence.

Unfasten the 19 mm locking nut (**1**). Slacken off by 2 turns - do not completely unscrew.

Unfasten the 10 mm nut (**2**). Slacken off by 2 turns - do not completely unscrew.

Tapping *firmly* with a plastic-headed hammer releases the locking mechanism (**3**).

Set the required height (490 - 650 mm) (4).

Align with a spirit level (5).

Re-tighten the 10 mm nut (6).

Re-fasten the 19 mm nut (7)!



Tile rim Disassembling retractor box - 5306 0300

Unscrew the hand shower head Remove the screw-type cover plate (M 70 x 1) Take out the shower head holder Screw out the 3 mm M 4 x 45 hexagon socket head bolts (3x) Lift off the hose bushing Pull out the shower hose and engage in the end position! Secure with a locking collar if necessary to prevent retraction Unscrew the shower hose Screw out the M 4 x 16 bolts (2x)Open up the silicone joint Take out the tile panel (inspection opening) Use a 10 mm open-ended spanner to slacken off the M 6 x 60 hexagon bolt Lift out the retractor box Remove the inlet and drain hose Replace the retractor box Assemble in reverse order Check operation and check for leaks

Important:

If the hose is not secured, the end of the hose could be drawn into the retractor box where it is then no longer accessible!

ATTENTION:

The pressure hose is subject to spring tension! Secure in position to prevent unintentional retraction into the retractor box!





Compact / Individual - Diverter without shut-off

Detach the knob (1).

Detach the cover plate and sleeve (2).

Unscrew the extension (3) (does not apply to one-hand mixer).

Unfasten the 45 mm nut and remove together with the stop (4).

Unscrew the 30 mm ring bolt using the ring spanner, order no.: 59 912 108 (**5**).

Pull out and replace the entire diverter. Order no. 59 912 269.

Install in reverse order.

Attention! Ensure correct position on re-installation (6).



Compact / Individual Diverter with shut-off - temperature control fitting

Shut off the water supply externally. Detach the knob (1). Detach the cover plate and sleeve (2).

Unscrew the extension (3).

Unfasten the 45 mm nut and remove together with the stop (4).

Unscrew the 30 mm ring bolt using the ring spanner, order no.: 59 912 108 (**5**)

Pull out and replace the entire diverter. Order no. 59 911 834

Install in reverse order.

Attention!

Ensure correct position on re-installation (6).

Check operation and check for leaks.





Compact / Individual - Bath spout

Remove the 2.5 mm stud (**2**). Lift off the bath pillar spout (**3**). Fit a complete new set of seals, order no. 59 912 276.

Re-adjusting the spout holder

Attention!

Adjust the spout holder (4) to the required height (40 - 48 mm).

Unfasten the 32 mm nut.

Insert the narrow end of the assembly key and screw out the spout holder. Fine thread (as many as 20 turns required for removal!)

Re-install in the reverse order of removal.

Check operation and check for leaks.



Bath / tile rim Shower hose replacement

Fully pull out and lock the hand shower head and shower hose (1).

Unfasten the screw-type cover plate (2), pull out the shower head holder (3) and take out the bearing shell (4).

Important:

If the hose is not secured, the end of the hose could be drawn into the retractor box where it is then no longer accessible!

Disassemble the shower hose (5).

Fit a new shower hose.

Re-install in the reverse order of removal.

ATTENTION:

The pressure hose is subject to spring tension! Secure in position to prevent unintentional retraction into the retractor box!





Installation of a 20 mm extension set with HANSACOMPACT tile rim systems Individual fittings for bath rim installation

Extension set 59 912 160 one-hand mixer

Disassembly

Shut off the water supply.

Disassemble the lever (1).

Detach the cap (2) and cover plate (3).

Unscrew the nut (4) using a 45 mm hexagon ring spanner.

Take out the cartridge (5) and insert (6).

Assembly

Attention!

Use the parts provided for extension, screw on the threaded sleeve (7), use the inserts (8), (9).

Insert the cartridge (10).

Attention!

The lug of the base plate must engage in the housing hole.

Secure the cartridge by way of the hexagon nut (11).

Attach the cap (12) and cover plate (13).

Assemble the lever (14).

Turn on the water supply.

Check operation and check for leaks!


Installation of a 30 mm extension set with HANSACOMPACT tile rim systems Individual fittings for bath rim installation

Extension set 59 912 162 thermostat

Disassembly

Shut off the water supply.

Slacken off the knob bolt and detach the temperature selector knob (1).

Slacken off the hexagon socket head bolt and disassemble the shut-off lever $(\mathbf{2})$.

Detach the cap (**3**) and cover plate (**4**).

Unscrew the ring nut (5) using a 50 mm hexagon ring spanner.

Detach the stop ring (6).

Assembly

Attention!

Use the parts provided, ring nut (7), spindle extension (8), lever holder (9) and stop ring (10) for extension.

Attention!

Heed the 38°C mark.

Secure the control element with the ring nut (7).

Attach the cap (9) and cover plate (8).

Assemble the shut-off lever (13).

Fit the temperature selector knob (14).

Turn on the water supply.

Check operation and check for leaks!



59 912 235 Diverter - Temperature control fitting / thermostat



Installation of a 30 mm extension set with HANSACOMPACT tile rim systems Individual fittings for bath rim installation

Extension set 59 912 235 diverter

Disassembly

Shut off the water supply. Firmly pull off the diverter knob (1). Detach the cap (2) and cover plate (3). Slacken off the bolt (4). Detach the spindle extension (5). Unscrew the ring nut (6) using a 45 mm hexagon ring spanner. Detach the stop ring (7).

Assembly

Attention!

Use the parts provided, stop ring (8), ring nut (9), spindle extension (10) and bolt (11) for extension.

Attach the stop ring (8).

Attention!

Heed the marks (8).

Secure the ring nut (9) using a 45 mm hexagon ring spanner.

Attach the spindle extension (10) with bolt (11) and secure.

Attention!

Heed the marks (11).

Attach the cover plate (12), cap (13) and diverter knob (14).

Turn on the water supply.

Check operation and check for leaks!



59 912 235 Diverter - One-hand mixer





Installation of a 30 mm extension set with HANSACOMPACT tile rim systems Individual fittings for bath rim installation

Extension set 59 912 235 diverter

Disassembly

Shut off the water supply. Firmly pull off the diverter knob (**1**). Detach the cap (**2**) and cover plate (**3**). Unscrew the ring nut (**4**) using a 45 mm hexagon ring spanner. Detach the stop ring (**5**).

Assembly

Attention!

Use the parts provided, stop ring (**6**), ring nut (**7**), spindle extension (**8**) and bolt (**9**) for extension. Shorten the stop ring (**6**).

Attach the stop ring (6).

Attention!

Heed the marks (6).

Secure the ring nut (7) using a 45 mm hexagon ring spanner.

Attach the spindle extension (8) with bolt (9) and secure.

Attention!

Heed the marks (8).

Attach the cap (11), cover plate (10) and diverter knob (12).

Turn on the water supply.

Check operation and check for leaks!





Installation of a 30 mm extension set with HANSACOMPACT tile rim systems Individual fittings for bath rim installation

Extension set 59 912 163 bath pillar spout

Disassembly

Shut off the water supply.

Unfasten the stud (1) and disassemble the bath pillar spout.

Use a 32 mm open-ended spanner to unfasten the bath pillar spout (**2**). Remove using an assembly key (**3**).

Assembly

Attention!

Use the spout holder (5) provided.

Attach the spout holder (5).

Attention!

Heed the marks (5, 6).

Unfasten the spout holder (**5**) using a 32 mm hexagon ring spanner. Secure using an assembly key (**7**).

Attention!

Heed the dimensions.

Fit the bath pillar spout by screwing in the stud (8).

Turn on the water supply.

Check operation and check for leaks!

Section 03.1

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One-hand mixer taps / two-handle mixer taps

Minimum flow pressure for spout-type one-hand mixer taps	0.5 bar
Minimum flow pressure for one-hand mixer taps with downstream resistance and / or automatic diverter	0.5 bar
Max. operating pressure	10.0 bar
Recommended operating pressure	1.0 - 5.0 bar
Max. test pressure	16.0 bar
Max. water temperature	90 °C

Two-handle taps are suitable for hot water supply by way of storage and pressurised flow heaters with thermal or hydraulic control.

Automatic water flow regulators, adjustable water flow limitation and the **anti-scald stop** cannot be used in conjunction with hydraulically controlled continuous flow heaters.

Heed the following for use in combination with continuous flow heaters.

	HANSAMIX one-hand mixers		
	Wash basin and kitchen Flow class A (15 l/min.) Minimum flow pressure	Bath/shower Flow class B (25 l/min.) Minimum flow pressure	
Hydraulically controlled	HANSAMIX one-hand mixer fully open.		
Electric: 18 kW	Output stage I = 1.5 bar Output stage II = 3 bar	Output stage I = 1 bar Output stage II = 2 bar	
Electric: 21 kW	Output stage I = 2 bar Output stage II = 4 bar	Output stage I = 1.5 bar Output stage II = 3 bar	
Gas: 13 l unit	Output stage I = 1.5 bar Output stage II = 2.5 bar	Output stage II = 1 bar	
* The continuous flow heater must be set in accordance with the manufacturer's specifications to the corresponding flow rate.			
Thermally controlled			
Electric: 21 W	1 bar	1 bar	
Gas: 13 unit	1 bar	1 bar	

Instructions for the care of HANSA fittings

Heed the following to maintain the superior surface quality:

Chrome, satin finish and painted surfaces are susceptible to acidic and abrasive cleaning agents and scouring pads.

Attention!

Coloured surfaces are to be treated with particular care on installation and during use. Process-related differences in colour may occur on painted surfaces.

Care:

To remove dirt or lime scale, clean fittings with a mixture of soap and water or diluted household vinegar, rinse with clean water and wipe dry.

Alcohol-based cleaning agents or disinfectants are not to be used on coloured surfaces and acrylic components. Refer to the above for notes on care.

Damage caused by inappropriate treatment is not covered by the HANSA warranty.

Procedure for removing lime scale deposits from Permatec surfaces (e.g. Murano plate)

1. Prepare an approx. 1 % citric acid solution

(available in shops as lime scale remover, possible alternative freshly squeezed lemon juice; CAUTION: Keep citric acid solution away from the eyes or open wounds, rinse off from the skin with water!).

2. Place part of a paper handkerchief or tissue paper on the affected area.

3. Apply drops of citric acid solution to the affected area (the purpose of the tissue paper is to stop the solution running off the affected area).

4. Leave for approx. 30 minutes. Do not allow to dry on (add more if necessary).

5. After approx. 30 minutes remove the tissue paper and wipe over gently with the damp paper if necessary but never rub vigorously with a dry paper tissue or the like.

6. Rinse the treated area with water prior to re-use. Repeat steps 2-5 several times if necessary if lime scale deposits are still visible.

Never use highly acidic lime scale removers containing hydrochloric acid, phosphoric acid or the like!

Never attempt to scratch off or scour lime scale deposits!



Connection diagram and operating conditions for low-pressure taps

While the unit is heating up, expansion water drips from the spout. This is a natural process which cannot and must not be obstructed.

It is not permissible to attach a hose extension, an aerator or a water flow regulator to the spout of the tap.

Experience shows that more water continues to flow after shutting off the tap in the case of non-pressurised storage heaters with plastic tanks.

This is nothing to do with the tap but is due to the material of the storage heater with plastic tank.

Set the flow rate as per DIN 44531 or in line with the specifications of the unit manufacturer.

Flow rate for: 5 | - unit: 5 l/min 10 | - unit: 6 l/min

Recommendation: Fit an angle valve with dirt trap.



HANSAECO control cartridge Water flow limitation

HANSADESIGNO HANSADELTA HANSASTAR HANSARONDA HANSAMIX HANSADISC HANSAVIVA HANSATWIST HANSAPRADO

Slacken off the bolt, order no. 59 904 755 with a 2.5 mm hexagon screwdriver and detach the lever (**1**).

Set the rear adjusting screw as required by turning anti-clockwise with a 2.5 mm hexagon screwdriver.

Recommended minimum water flow rate approx. 6 l/min.



Attention! Water flow limitation cannot be used with continuous flow heaters.



HANSAECO control cartridge Anti-scald stop

The anti-scald stop supplied as standard is not active in the as-delivered condition (1).

Proceed as shown in (2) to limit the hot water temperature and thus reduce the risk of scalding.

Sequence of operations:

Swivel the lever to the cold setting. Slacken off the bolt, detach the lever and cap.

Use two screwdrivers to prise off the stop ring (apply the screwdrivers to the toothed ring (**3**). Depending on the hot water temperature required, position the stop ring with the mark set to tooth 1, 2 or 3 and engage (**2**).

Fit the lever and swivel to the maximum hot position, then check the temperature.

Fit the cap and secure the lever firmly in position.



Attention!

The setting options given in the example only indicate temperature ranges.

Exact values cannot be attained as the temperature is influenced by pressure, the quantity tapped and the piping system.

Cannot be used with hydraulically controlled continuous flow heaters.



HANSAECO control cartridge: 3.5 Anti-scald stop

The anti-scald stop supplied as standard is not active in the as-delivered condition (**1**).

Proceed as shown in (**3**) to limit the hot water temperature and thus reduce the risk of scalding.

Sequence of operations: Slacken off the bolt, detach the lever and unscrew the cap (**2**). Detach the stop ring. Depending on the hot water temperature required, fit and engage with the mark set to tooth 1, 2 or 3 (**3**). Fit the lever and swivel to the maximum hot position, then check the temperature. Fit the cap and secure the lever firmly in position.



Attention!

The setting options given in the example only indicate temperature ranges.

Exact values cannot be attained as the temperature is influenced by pressure, the quantity tapped and the piping system.

Cannot be used with hydraulically controlled continuous flow heaters.



HANSAECO control cartridge: 4.0 Anti-scald stop

The anti-scald stop supplied as standard is not active in the as-delivered condition (1). Proceed as shown in (2) to limit the hot water temperature and thus reduce the risk of scalding.

Sequence of operations:

Slacken off the bolt,

detach the lever and cap.

Detach the stop ring.

Depending on the hot water temperature required, position the stop ring with the mark (**3**) offset by 1, 2 or 3 teeth and engage (**2**).

Fit the lever and swivel to the maximum hot position,

then check the temperature.

Fit the cap and secure the lever firmly in position.



Attention!

The setting options given in the example only indicate temperature ranges.

Exact values cannot be attained as the temperature is influenced by pressure, the quantity tapped and the piping system.

Cannot be used with hydraulically controlled continuous flow heaters.



Disassembling HANSAECO control cartridge One-hole mixer taps without swivel spout up to 1988

Fault

- I Reduced flow of water.
- II Water dripping from spout.
- III Water emerging in upper part of cartridge.

Cause

- I Dirt or lime scale deposits on aerator / spray head.
- I.I Cartridge soiled by the ingress of coarse construction dirt.
- II Ring nut loose.
- II.I Control edge damaged by silica sand.
- III Seal (8) damaged by water hammer.

Remedy

- I Unscrew the aerator (1) and clean (with vinegar). Completely replace if necessary.
- 1.1 Shut off the water. Swivel the lever approx. 45° out of the centre axis towards the cold setting and remove the plug (2). Slacken off the bolt, order no. 59 904 755 with a 2.5 mm have approximately approxi

2.5 mm hexagon screwdriver.

Detach the lever and cap $(\mathbf{3})$.

Use the hexagon ring spanner, order no. 59 905 190 to unscrew the 45 mm ring bolt, order no. 59 911 513 (5). Take out (6) and clean the cartridge, order no. 59 904 601. **Attention!** Do not dismantle the cartridge.

Re-install in the reverse order of removal.

Attention! Note (7).

II Re-tighten the 45 mm ring bolt.

Attention!

The stop ring and ring bolt are not included in the scope of delivery of replacement cartridges.

Re-use the existing components.

III Replace the entire cartridge.



Disassembling HANSAECO control cartridge 1989 onwards HANSAMIX HANSADISC

Shut off the water supply.

Open the lever (1) and remove the plug (2). Slacken off the bolt, order no. 59 904 755 with a 2.5 mm screwdriver (3) and detach the lever and cap (4). Use a screwdriver to prise off the anti-scald stop (5+6). Use pump pliers to lift off the claw (7). Use a 45 mm ring spanner to remove the nut (8). Pull out the cartridge (9). Assemble in reverse order. Ensure correct installation position (10). Turn the water supply back on.

Check operation and check for leaks.



Disassembling lever 2004 onwards

Shut off the water. Slacken off the bolt, order no. 59 904 755 using a 2.5 mm hexagon screwdriver (**1**). Detach the lever and cap (**2**).

HANSADESIGNO: Unscrew the lever, unfasten the stud, detach the lever cap.

HANSASTAR / HANSARONDA: Remove the (decorative) trim, unfasten the stud and detach the lever.





Disassembling HANSAECO control cartridge HANSADISC up to 1996 / 1997 onwards

Shut off the water. Remove the plug, slacken off the bolt, order no. 59 904 755 and detach the lever (**1**). Detach the cap and sleeve (**2**). Unscrew the driver and detach together with the threaded sleeve, outer sleeve and cartridge, order no. 59 904 601 (**3**). Re-install in the reverse order of removal.



Attention!

The lug of the base plate must engage in the housing hole (**4/5**).





HANSADISC 2002 onwards HANSATWIST HANSAPRADO

Fault

- I Reduced flow of water.
- II Water dripping from spout.
- III Water emerging in upper part of cartridge.

Cause

- I Dirt or lime scale deposits on aerator or spray head.
- I.I Cartridge soiled by the ingress of coarse construction dirt.
- II Ring nut loose.
- II.I Control edge damaged by silica sand.
- III Seal (7) damaged by water hammer.

Remedy

- I Unscrew the aerator/spray head and clean (with vinegar). Completely replace if necessary.
- I.I Shut off the water, remove the plug (1). Slacken off the bolt, order no. 59 904 755 with a 2.5 mm hexagon screwdriver. Detach the lever and cap (2+3). Use the hexagon ring spanner, order no. 59 905 190 to unscrew the 45 mm ring bolt, order no. 59 911 513 (4). Take out (5) and clean the cartridge, order no. 59 904 601. Attention! Do not dismantle the cartridge. Re-install in the reverse order of removal. Attention! Note (6).
- II Re-tighten the 45 mm ring bolt.
- II.I Refer to I.I, however replace the complete cartridge.

Attention!

The stop ring and ring bolt are not included in the scope of delivery of replacement cartridges.

Re-use the existing components.

III Replace the entire cartridge.



Disassembling HANSAECO control cartridge 3.5 HANSAPOLO

Fault

- I Reduced flow of water.
- II Water dripping from spout.
- III Water emerging in upper part of cartridge.

Cause

- I Dirt or lime scale deposits on aerator or spray head.
- I.I Cartridge soiled by the ingress of coarse construction dirt.
- II Ring nut loose.
- II.I Control edge damaged by silica sand.
- III Housing seal damaged.

Remedy

- I Unscrew the aerator/spray head (1) and clean (with vinegar). Completely replace if necessary.
- I.I Shut off the water. Remove the plug (2). Slacken off the bolt, order no. 59 904 755 with a 2.5 mm hexagon screwdriver. Remove the lever and cap (3). Use the hexagon ring spanner, order no. 59 912 108 to unscrew the 30 mm ring bolt, order no. 59 912 111 (5). Take out the cartridge 3.5, order no. 59 912 324 (6) and clean.

Attention! Do not dismantle the cartridge.

- Re-install in the reverse order of removal.
- II Re-tighten the 30 mm ring bolt.
- II.I Refer to I.I, however replace the complete cartridge.

Attention!

The stop ring and ring bolt are not included in the scope of delivery of replacement cartridges.

Re-use the existing components.

III Replace the entire cartridge.



Disassembling HANSAECO control cartridge 4.0 HANSAMOTION

Fault

- I Reduced flow of water.
- II Water dripping from spout.

Cause

- I Dirt or lime scale deposits on spray former or spray head.
- I.I Cartridge soiled by the ingress of coarse construction dirt.
- I.II Flow regulator (5) soiled.
- II Control edge damaged by silica sand.

Remedy

- I Clean the spray former/spray head (2) (with vinegar). Completely replace if necessary. Order no: 59 912 858 WT / 59 912 862 bath
- I.I Shut off the water. Push the red/blue cap upwards (1).
 Slacken off the bolt, order no. 59 904 755 with a 2.5 mm hexagon screwdriver.
 Detach the lever and cap. Remove the spray former (2).
 Use a hexagon ring spanner to unscrew the 36 mm

ring bolt, order no. 59 912 859 (**3**).

Take out and clean the cartridge 4.0,

order no. 59 904 601 01 (**4**).

Attention! Do not dismantle the cartridge.

Re-install in the reverse order of removal.

- I.II Refer to I.I, pull out the cartridge. Clean the flow regulator in the bottom of the housing or replace the complete base plate, order no: 59 912 860
 - II Re-tighten the 36 mm ring bolt.
- II.I Refer to I.I, however replace the complete cartridge.

Attention!

The ring bolt is not included in the scope of delivery of replacement cartridges. Re-use the existing components.


HANSAMOTION disassembling lever

Shower mixer tap:

Shut off the water. Remove the cap, use a 2.5 mm hexagon screwdriver to slacken off the bolt (**1**) and detach the lever (**2**).

Bath filler mixer tap:

Shut off the water. Push the cap upwards (**3**) (the HANSA logo must be at the rear). Use a 2.5 mm Allen key to screw out the bolt (**4**) and detach the lever (**5**).

Cartridge disassembly





HANSAMURANO Water constantly emerging from the water dish Asymmetrical spray pattern

Fault

- I Water emerging in upper part of control cartridge.
- II Asymmetrical spray pattern
- III Water dish damaged.

Cause

- I Eco control cartridge Murano leaking.
- II Diaphragm defective / water dish soiled.
- III Incorrect care.

Remedy

I Shut off the water.
Detach the decorative trim (1).
Remove the O-ring (2).
Unscrew the baffle M 30 x 1, 45 mm (3).
Remove the 36 mm plate securing nut (4).
Lift off the water dish with water distributor (5).
Detach the centring ring (6).
Unscrew the 45 mm M 55 x 1 nut (7).
Replace the Eco cartridge Murano (8),
order no.: 59 912 387
Assemble in reverse order.
Turn on the water supply.
Check operation and check for leaks.

- II Clean the water dish (refer to page 39).
 If not successful, perform steps (1)-(4).
 Replace diaphragm up to 01. 2005 with plate attachment as of 01.2005, order no: 59 912 521
- III Steps (1)-(5) Replace the water dish.



Fault

Water emerging between the tap housing and swivel spout.

Cause

Worn seals between housing and swivel spout, type 0119, order no. 59 904 964. 04 onwards: Order no. 59 912 646.

Remedy

Shut off the water, slacken off the bolt, order no. 59 904 755 and detach the lever (1).

Unscrew the sleeve by turning anti-clockwise (2). Twist and lift off the spout (3) and clean the spout sealing surface with wet sandpaper, 400 grit.

Replace the seals and grease with

HANSA grease, order no. 59 901 040.

Whilst twisting slightly, push on the spout downwards.

Perform further installation in the reverse order.





up to 90

Fault

Water emerging between the tap housing and swivel spout.

Cause

Worn seals between housing and swivel spout. Types 0112, 0114, 0123, 0124 Order no. 59 904 891; 2004 onwards: Order no. 59 912 646.

Remedy

Shut off the water. Slacken off the bolt (1), order no. 59 904 755 and detach the lever (2). With types 0112, 0114, 0123, 0124 unscrew the sleeve by turning anti-clockwise (3). With types 0112, 0114, 0123, 0124 twist and lift off the spout (4) and clean the spout sealing surface with wet sandpaper, 400 grit. Replace the seals and grease with HANSA grease, order no. 59 901 040.

Whilst twisting slightly, push on the spout (**4**) downwards. Perform further installation in the reverse order.





Kitchen tap with machine connection and pull-out spray 83 2004 onwards

Fault

- I Insufficient water flow for dishwasher.
- II Reduced flow of water.
- III Water emerging between the tap housing and swivel spout.

Cause

- I Lime scale deposits on upper section / defective.
- II Lime scale deposits on aerator / backflow preventer or defective.
- III Eco control cartridge or spray hose leaking.

Remedy

- I Firmly pull off the knob, screw out (19 mm) the upper section (1) and clean or replace.
- II Clean or replace the backflow preventer (2). Unscrew and clean or replace the aerator (3).

III Shut off the water, remove the plug (4). Slacken off the bolt, order no. 59 904 755 with a 2.5 mm hexagon screwdriver. Detach the lever and cap (5). Use the hexagon ring spanner, order no. 59 905 190 to unscrew the 45 mm ring bolt, order no. 59 911 513. Take out and clean the cartridge, order no. 59 904 601. Attention! Do not dismantle the cartridge. Re-install in the reverse order of removal. Attention! Note (6). Attention! The stop ring and ring bolt are not included in the scope ofdelivery of replacement cartridges. Re-use the existing components.

Replace the spray hose. Fit the hose stop in the correct position (700 mm).



Kitchen taps for open water heaters with machine connection

Fault

I Low-pressure tap: Insufficient water flow for dishwasher.

Cause

- I Angle valve not open far enough.
- II Restrictor fitted in pressure hose / connecting pipe.

Remedy

I Open the angle valve.

II Shut off the water supply.
Fit the restrictor from above.
To do so, remove the cartridge.
Prise off the stop ring, order no. 59 904 759 (1).
Use the hexagon ring spanner, order no. 59 905 190
to unscrew the 45 mm ring bolt, order no. 59 904 775 (2).
Take out the cartridge, order no. 59 904 601 (3).

Shorten the restrictor (4) to the correct length (heed equipment manufacturer's instructions) and insert from above in the cold water opening (right).

Re-install in the reverse order of removal.

Attention! The lug of the base plate must engage in the housing hole.

Turn the water supply back on. Check operation.



HANSARONDA mixer taps HANSADISC, from 1993 to 2002 with swivel spout

Fault

Water emerging between the tap housing and swivel spout.

Cause

Worn seals between housing and swivel spout. Order no. 59 904 891

Remedy

Shut off the water. Slacken off the bolt, order no. 59 904 755 and detach the lever (**1**). Unscrew the sleeve by turning anti-clockwise (**2**). Twist and lift off the spout (**3**) and clean the spout sealing surface with wet sandpaper, 400 grit. Replace the seals and grease (**4**) with HANSA grease, order no. 59 901 040. Whilst twisting slightly, push on the spout downwards. Perform further installation in the reverse order





HANSADISC 2002 onwards HANSATWIST HANSAPRADO

Fault

Water emerging between the tap housing and swivel spout.

Cause

Worn seals between housing and swivel spout. Order no. 59 911 498

Remedy

Shut off the water. Slacken off the bolt, order no. 59 904 755 and detach the lever (1). Unscrew the sleeve by turning anti-clockwise (2). Twist and lift off the spout (4) and clean the spout sealing surface with wet sandpaper, 400 grit. Replace the seals and grease (3/5) with HANSA grease, order no. 59 901 040. Whilst twisting slightly, push on the spout downwards.

Perform further installation in the reverse order.





HANSAVANTIS

Fault

Water emerging between the tap housing and swivel spout.

Cause

Worn seals between housing and swivel spout. Order no. 59 912 514

Remedy

Shut off the water. Slacken off the bolt, order no. 59 904 755 and detach the lever (1).

Unscrew the sleeve by turning anti-clockwise (2). Twist and lift off the spout (3) and clean the spout sealing surface with wet sandpaper, 400 grit.

Replace the seals and mechanical seals and grease (4) with HANSA grease, order no. 59 901 040.

Whilst twisting slightly, push on the spout downwards. Perform further installation in the reverse order.





HANSAPOLO

Fault

Water emerging between the tap housing and swivel spout.

Cause

Worn seals between housing and swivel spout. Order no. 59 912 117 (**7**)

Remedy

Shut off the water. Slacken off the bolt, order no. 59 904 755 and detach the lever (**1+2**). Remove the cap (**3**). Unscrew the screw cap (**4**) with a 30 mm hexagon ring spanner. Take out the cartridge (**5**), twist and lift off the spout (**6**) and clean the spout sealing surface with wet sandpaper, 400 grit. Replace the seals and mechanical seals and grease (**7**) with HANSA grease, order no. 59 901 040. Whilst twisting it slightly, push on the spout downwards. Perform further installation in the reverse order.





HANSAMIX up to 1995

Sealing the spout

Mix up to 95: The O-ring is located in the tap body.

Screw out the spout fastening screw (1) with a 2.5 mm Allen key.

Detach the spout downwards.

Replace the seal and mechanical seal (**4**). Service set, order no. 59 912 231

Assemble in reverse order.

HANSAMIX 1996 onwards HANSARONDA 1989 onwards

Sealing the spout

Screw out the spout fastening screw (1) with a 2.5 mm Allen key.

Detach the spout downwards.

Replace the seals (**4**). Service set, order no. 59 912 230

The segments and fastening screws (2 + 3) can be used to convert the spout from a fixed (2) to a swivel-type (3) version. This involves inserting the appropriate segment in the spout.



HANSARONDA STYLE Sealing the spout

Screw out the spout fastening screw (**1**) with a 12 mm Allen key.

Detach the spout downwards.

Replace the seals and mechanical seals (2).

By turning the stop plate through 180°, the spout can be converted from the swivel-type (**3**) to the fixed (**4**) version.



Surface-mounted diverter, order no. 59 910 803

Fault

- I Spout/hand shower dripping.
- II Diverter dripping at pull knob.
- III Diverter reverts to the bath when using the shower head.

Cause

- I Dirt particles between valve seat and seat seal.
- II Defective O-ring between tap housing and diverter.
- III Required min. holding pressure of 0.5 bar not being attained or water flow rate less than 7 l/min.

Remedy

- I Pull up and hold the pull knob (1). Screw out the diverter at the flats (2). Clean the seat and seal.
- II Replace the entire diverter (3).
- III Increase the water flow rate/pressure.

Install in reverse order.



Fault

- I Spout/hand shower dripping.
- II Diverter dripping at pull knob.
- III Diverter reverts to the bath when using the shower head.

Cause

- I Dirt particles between valve seat and seat seal.
- II Defective O-ring between tap housing and diverter.
- III Required min. holding pressure of 0.5 bar not being attained or water flow rate less than 7 l/min.

Remedy

- I Unscrew the shower hose (1). Unscrew the pull knob (2). Pull out the backflow preventer downwards (3). Screw out the diverter with a 10 mm Allen key (4). Clean the seat and seal (5).
- Il Replace the entire diverter (**5**). Order no.: 59 912 706
- III Increase the water flow rate/pressure.
 - Turn the pull knob through 90° to lock the diverter in position.

Install in reverse order.





Pushbutton diverter, order no. 59 912 870

Fault

- I Spout/hand shower dripping.
- Il Diverter dripping at pushbutton.
- III Diverter reverts to the bath when using the shower head.

Cause

- I Dirt particles between valve seat and seat seal.
- II Defective O-ring between tap housing and diverter.
- III Required min. holding pressure of 0.5 bar not being attained or water flow rate less than 7 l/min.

Remedy

- I Use a pointed object to remove the plug and slacken off the bolt with a 2 mm screwdriver (1). Detach the pushbutton (2). Screw out the diverter at the flats (3). Clean the seat and seal
- II Replace the entire diverter (4).
- III Increase the water flow rate/pressure.

Install in reverse order.

Section 03.2

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Disassembling cover plate on concealed models

HANSASTAR up to 1993 HANSAMIX HANSADISC

Shut off the water. HANSAMIX, HANSADISC: Remove the plug, slacken off the bolt with a 2.5 mm screwdriver and detach the lever (**1**).

HANSASTAR: Unfasten the decorative trim by turning anti-clockwise and detach (**5**). Slacken off the bolt and detach the lever.

Whilst supporting the sleeve, unscrew the pull knob (2) by turning anti-clockwise. Only applies to bath/shower mixer taps with pull knob control. Screw out the cover plate bolts (3). Detach the cover plate with cap (4).

Assemble in reverse order.



Disassembling cover plate on concealed models

HANSAMOTION HANSADESIGNO HANSADELTA HANSARONDA HANSARONDA STYLE HANSASTAR HANSATWIST HANSAPRADO

> Shut off the water. HANSADESIGNO, DELTA, TWIST and DISC: Remove the plug and slacken off the bolt with a 2.5 mm screwdriver.

HANSASTAR: Remove the (decorative) trim, unfasten the stud and detach the lever.

HANSARONDA: Remove the plug (up to 08.88) at the sleeve. Slacken off the bolt with a 2.5 mm hexagon screwdriver and detach the lever.

Whilst supporting the sleeve, unscrew the pull knob by turning anti-clockwise (2).

Not applicable to types 0286/0386/0185/0787/0985.

Screw out the cover plate bolts.

Detach the cover plate with cap (3).


Disassembling control cartridge on concealed models, type 0100 0100 1979 to 2000

Fault

- I Reduced flow of water.
- II Water dripping from spout or spray head.
- III Water emerging in upper part of cartridge.

Cause

- I. Dirt or lime scale deposits on downstream aerator or spray head.
- I.I Cartridge soiled by the ingress of coarse construction dirt.
- II. Ring bolt loose.
- II.I Cartridge defective on account of excessively high flow temperature (above 90° C) or control edge damaged by silica sand.
- III. Seal (5) damaged.

Remedy

- I Unscrew the aerator/spray head and clean (with vinegar). Completely replace if necessary.
- I.I Remove the cartridge (for disassembly of cover plate, refer to page 107-109). Prise off the stop ring, order no. 59 904 759 (1). Use the hexagon ring spanner, order no. 59 905 190 to unscrew the 45 mm ring bolt, order no. 59 904 775 (2). Take out the cartridge, order no. 59 904 601 (3) and clean.
 - Attention! Do not dismantle the cartridge. Re-install in the reverse order of removal.
 - Attention! The lug of the base plate must engage in the housing hole (4).
- II Re-tighten the 45 mm ring bolt.
- II.I Refer to I.I However replace the entire cartridge and reduce the flow temperature to max. 90 °C.
 - Attention! The stop ring and ring bolt are not included in the scope of delivery of replacement cartridges. Re-use the existing components.
 - III Replace the entire cartridge.



Installation of a 20 mm / 40 mm extension set on concealed models, type 0100 0100 1979 to 2000

Shut off the water supply. For disassembly of the cartridge, refer to page 111. Whilst supporting the sleeve, use a hexagon screwdriver (2 mm) to slacken off the stud inside the sleeve by 1-2 turns (**3+4**). Unscrew the sleeve by turning anti-clockwise. (Items **3+4** do not apply to a shower mixer tap).

Attention! Use the parts provided for extension (bolts and sleeves).

Screw on the extension sleeve by turning clockwise (**1+2**) and lock with a hexagon screwdriver. (Only applies to nos. 0284/0384/0184/0786/0984).

Place the seals in the insert (5).

Fit the insert such that the lug is positioned in the hole (6).

Attention! The lug of the base plate must engage in the housing hole.

Screw in the threaded sleeve and "tighten very firmly" with an open-ended spanner, flat bar or the like (**7**).

If a 20 mm extension is not sufficient, a second extension set can be fitted.

Insert the cartridge (8).

Secure the cartridge by way of the ring bolt (**9**). For fitting the cap, cover plate, knob and pull knob, refer to page 107-109.



Concealed models with automatic diverter

Fault

- I On opening, water runs out of both the bath spout and the shower head.
- II Automatic diverter does not remain in shower setting.

Cause

- I Soiling of area around automatic diverter and valve seat in the tap housing (**2**).
- Il Water pressure not sufficient to hold automatic diverter in position (less than 0.5 bar) or not enough water being drawn off (less than approx. 7 l/min.).

Remedy

I Shut off the water.

For removal of the cover plate, refer to page 107-109. Use a 19 mm socket spanner to screw out the automatic diverter (**1**) and clean the seat seal of the automatic diverter and the valve seat (**2**).

Re-install in the reverse order of removal.

II Increase the water flow rate/pressure.



HANSAVARIO concealed one-hand mixer tap. Removing the cartridge (1997 onwards)

Fault

- I Reduced flow of water.
- II Water dripping from spout or spray head.
- III Water emerging in upper part of cartridge.

Cause

- I Dirt or lime scale deposits on downstream aerator or spray head.
- I.I Cartridge soiled by the ingress of coarse construction dirt.
- II Ring bolt loose.
- II.I Cartridge defective on account of excessively high flow temperature or control edge damaged by silica sand.
- III Seal (5) damaged.

Remedy

- I Unscrew the aerator/spray head and clean (with vinegar). Completely replace if necessary.
- I.I Remove the cartridge

(refer to page 99 for disassembly of cover plate).

Prise off the stop ring, order no. 59 904 759 (1).

Use the hexagon ring spanner, order no. 59 905 190 to unscrew the 45 mm ring bolt, order no. 59 911 513 (**2**).

Take out the cartridge, order no. 59 904 601 (3) and clean.

Attention! Do not dismantle the cartridge.

Re-install in the reverse order of removal.

Attention! The lug of the base plate must engage in the housing hole (4).

- II Re-tighten the 45 mm ring bolt.
- II.I Refer to I.I, however replace the entire cartridge and reduce the flow temperature to max. 90 °C.
 - Attention! The stop ring and ring bolt are not included in the scope of delivery of replacement cartridges. Re-use the existing components.
- III Replace the entire cartridge.

Extension set

Removing the cartridge for VARIO type 0200/0201 (1-3)





Extension set

Fitting the extension set for VARIO type 0200/0201 (1-11)



VARIO set for converting one-hand mixer to MAT thermostat





Section 05.1

Surface-mounted thermostats	Page
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Minimum flow pressure without downstream resistance	0.5 bar
Minimum flow pressure with downstream resistance	1.0 bar
Max. operating pressure	10.0 bar
Recommended operating pressure	1.0 - 5.0 bar
Max. test pressure	10.0 bar
Max. water temperature	90 °C
Temperature selector knob setting ranges for	
Thermostatic mixer taps DN 15	20 ° - 60 °C
Thermostatic mixer taps DN 20	20 ° - 60 °C
Thermostatic one-hole mixer taps	20 ° - 58 °C
Safety limiter for thermostatic mixer taps	38 °C
Hot water connection	= left
Cold water connection	= right
Thermostatic mixer tans are designed for hot water supply	

Thermostatic mixer taps are designed for hot water supply from storage heaters and achieve maximum temperature accuracy in this case. Given adequate capacity, thermally controlled continuous flow heaters are also suitable.



Thermostatic mixer taps - General information

Thermostatic mixer taps for hydraulically continuous flow heaters DE-HANSAMAT	controlled
Minimum flow pressure without continuous flow hea	iter 0.5 bar
Required pressure + Pressure loss in continuous flow heater + Pressure loss in shower head or spout	0.5 bar
Max. operating pressure	10 bar
Recommended flow pressure	2.0 - 5.0 bar
Max. test pressure	16 bar
Max. permissible water temperature	90 °C
Safety limiter	38 °C
Hot water connection	= left
Cold water connection	= right
Flow rate/minimum flow rate	= Governed by capacity and temperature of continuous flow heater

Hydraulically controlled continuous flow heaters are only suitable for use in conjunction with continuous flow heater thermostatic mixer taps (DE-HANSAMAT)



Legionella flushing set: 59 912 853

A flow of 70° C hot water for 3 minutes is required at each tapping point. DVGW worksheet 552

This can be achieved with HANSA temperature regulators. By means of a lever, the temperature regulator can then be fully opened almost immediately (without altering the settings).



Re-adjustment for surface-mounted models

The temperature scale is adjusted at the factory for a hot water temperature of 60 °C. A 10 °C variation in the hot water temperature alters the mixed water temperature by approx. 1 °C. In the case of greater variations in temperature, the scale can be re-adjusted as follows:

Slacken off the knob bolt, return the knob to the 38 °C setting and detach (1).

Unfasten the M 4 hexagon socket head stud on the side (2). Stud, order no. 59 901 027 2 mm Allen key, order no. 59 901 028

Hold the knob mount with pliers to stop it turning (3).

Turn the front hexagon bolt to set the outlet temperature to 38 °C (4).

Clockwise = cooler (minus) Anti-clockwise = warmer (plus)

Fix in this setting again with the M 4 stud on the side (2).

Fit the knob and secure with the knob bolt.

Check operation.



Fault

- I No cold, hot or mixed water flow.
- II Reduced flow of water.
- III Cold water runs hot or vice versa.

Cause

- I Aerator clogged.
- II Upstream shut-off valves in S-connection not fully open or dirt traps clogged.
- III Backflow preventer defective.

Remedy

- I Unscrew the aerator (1) and clean (e.g. vinegar) or completely replace, order no. 59 902 088.
- II Turn the screw of the ball shut-offs in the direction of flow (2). Close the ball shut-off in the S-connection by turning the screw through 90° (3).
 Unfasten and pull out the backflow preventer unit (4). Clean or replace the strainer. Install in reverse order.
- III Close the ball shut-off in the S-connection by turning through 90° (3).
 Replace the entire backflow preventer unit (4).
 Install in reverse order.

Attention! Open both ball shut-offs again following re-installation.



Fault

Flow of hot or cold water only, mixing not possible.

Cause

Check operation to establish whether the temperature regulator is defective.

Functional test (applies to all thermostat makes):

Set to full water flow.

Set the temperature selector knob to 38 °C (1).

Shut off the cold water.

The thermostat must automatically shut off the hot water almost completely.

Turn on the cold water again.

Shut off the hot water.

The thermostat must automatically shut off the cold water almost completely. If the thermostat provides automatic shut-off in both cases, the temperature regulator is OK.

If one or both of the checks is not successful, the temperature regulator must be replaced.

Remedy

Close the ball shut-off in the S-connection by turning through 90° (2). Slacken off the knob bolt and detach the knob (3). Screw out the bolts on the side (4).

Pull out the temperature regulator by turning clockwise (5) and completely replace, order no. 59 901 608.

Stud, order no. 59 901 609.

Install in reverse order.

Attention! Open both ball shut-offs again following re-installation. Externally for Hansamatic.



HANSAMAT-HANSAMATIC surface-mounted (shower) 133 Replacing upper section

Fault

- I No cold, hot or mixed water flow.
- II Reduced flow of water.
- III Bath spout or shower head dripping.
- IV Cold water runs hot or vice versa.

Cause

- I Aerator or hand shower head clogged.
- II C/H inlet pipes not fully open.
- III Dirt traps clogged or upper section defective.
- IV Backflow preventer defective.

Remedy

- I Unscrew the aerator/hand shower head and clean (e.g. vinegar) or completely replace.
- II Fully open the C/H shut-offs.
- III Close the C/H shut-off.
 - Unfasten the screw plug on the side (1). Pull out the backflow preventer unit and clean the strainer (2).
 - Firmly pull off the flow control (**3**). Replace the entire upper section (**4**)! Install in reverse order.
- IV Close the C/H shut-off.
 - Replace the entire backflow preventer unit on the side (2). Install in reverse order.

Attention! Open both shut-offs again following re-installation.



HANSAMAT-HANSAMATIC Replacing temperature regulator

Fault

Flow of hot or cold water only, mixing not possible.

Cause

Check operation to establish whether the temperature regulator is defective. Functional test (applies to all thermostat makes):

Set to full water flow.

Set the temperature selector knob to 38 °C.

Shut off the cold water.

The thermostat must automatically shut off the hot water almost completely.

Turn on the cold water again.

Shut off the hot water.

The thermostat must automatically shut off the cold water almost completely.

If the thermostat provides automatic shut-off in both cases, the temperature regulator is OK.

If one or both of the checks is not successful, the temperature regulator must be replaced.

Remedy

Shut off the water.

Slacken off the knob bolt and detach the knob (1). Screw out the stud (2). Take out the temperature regulator (3) and completely replace, order no. 59 906 401. Install in reverse order.

Attention! Turn on the C/H water again following re-installation.







Re-adjustment for HANSATEMPRA HANSADESIGNO HANSAPRISMA

The temperature scale is adjusted at the factory for a hot water temperature of 60° C. In the event of variation, the temperature scale can be re-adjusted as follows:

Knob removal up to 1998:

Set the temperature selector knob to 38° and pull off firmly (2).

Knob removal from 1999 onwards:

Set the temperature selector knob to 38°. Unfasten the 2.5 mm stud (1) and detach the knob (2).

Re-adjustment

Lock the threaded bush in 38° position (3).

By turning the 2.5 mm hexagon socket head bolt, set the outlet temperature to 38 $^{\circ}C$ (**4**).

Clockwise = cooler (minus) Anti-clockwise = warmer (plus)

Fit the knob in 38° position and secure again if necessary.



HANSATEMPRA up to 1998 - Cleaning strainers

Fault

- I No cold, hot or mixed water flow.
- II Reduced flow of water.
- III Cold water runs hot or vice versa.

Cause

- I Aerator/hand shower head clogged.
- II Dirt traps/backflow preventer clogged.
- III Backflow preventer defective.

Remedy

- I Unscrew the aerator/hand shower head and clean (e.g. diluted vinegar) or completely replace.
- II-III Shut off the water externally. Use a 30 mm open-ended spanner to remove the tap (1). Clean the dirt traps (2). Remove the securing nipple by turning anti-clockwise with an Allen key (3). Replace the backflow preventer (4). Install in reverse order.

Attention!

When re-installing the backflow preventer, pay attention to the direction of flow and then turn on the cold/hot water externally.

Check operation.



HANSATEMPRA 1999 onwards HANSADESIGNO: Cleaning strainers

Fault

- I No cold, hot or mixed water flow.
- II Reduced flow of water.
- III Cold water runs hot or vice versa.

Cause

- I Aerator/hand shower head clogged.
- II Dirt traps/backflow preventer clogged.
- III Backflow preventer defective.

Remedy

- I Unscrew the aerator/hand shower head and clean (e.g. diluted vinegar) or completely replace.
- II-III Shut off the water externally. Remove the cover plates.

Up to 2003:

Use a screwdriver to prise apart the 2-piece cover plate (1).

2004 onwards:

Unfasten the 2-piece screw-type cover plate by turning anti-clockwise (1) and push against the wall (1a).

Use a 30 mm open-ended spanner to remove the tap (2). Clean the dirt traps (3). Remove the securing nipple by turning anti-clockwise with a 12 mm Allen key (4). Replace the backflow preventer (5). Install in reverse order.

Attention!

When re-installing the backflow preventer, pay attention to the direction of flow and then turn on the cold/hot water externally.



HANSATEMPRA up to 1998 Replacing upper section

Fault

Bath spout or shower head constantly dripping.

Cause

Ceramic upper section defective.

Remedy

Shut off the water externally. Firmly pull off the flow control (1). Use a screwdriver to prise off the stop ring (2), replace the entire ceramic upper section (17 mm) (3). Order no. 59 911 103. Install in reverse order. Turn the cold/hot water back on.



HANSATEMPRA 1999 onwards Setting water flow limitation (ECO button)

Unfasten the 2.5 mm knob bolt (1) and detach the knob (2). Turn the stop ring (3) to set the water flow as required (up to max. 20 l/min.).

The max. water flow can be attained by pressing the water flow ECO button.

Factory setting: ECO button not active!

The water flow ECO button is not suitable for hydraulic continuous flow heaters!




HANSATEMPRA up to 1998 Replacing temperature regulator

Fault

Flow of hot or cold water only, mixing not possible.

Cause

Check operation to establish whether the temperature regulator is defective. Functional test (applies to all thermostat makes):

Set to full water flow. Set the temperature selector knob to 38 °C (1). Shut off the cold water. The thermostat must automatically shut off the hot water almost completely. Turn on the cold water again. Shut off the hot water. The thermostat must automatically shut off the cold water almost completely.

If the thermostat provides automatic shut-off in both cases, the temperature regulator is OK.

If one or both of the checks is not successful,

the temperature regulator must be replaced.

Remedy

Externally shut off the cold/hot water. Firmly pull off the temperature selector knob (**1**). Use a screwdriver to prise off the stop ring (**2**). Use a 32 mm open-ended spanner to remove the threaded ring (**3**). Pull out the temperature regulator (**4**) and completely replace, order no. 59 911 080.

Attention!

On re-installing, make sure the temperature regulator is correctly positioned (**5**).



HANSATEMPRA 1999 onwards HANSADESIGNO Replacing temperature regulator

Fault

Flow of hot or cold water only, mixing not possible.

Cause

Check operation to establish whether the temperature regulator is defective. Functional test (applies to all thermostat makes):

Set to full water flow. Set the temperature selector knob to 38 °C (1). Shut off the cold water. The thermostat must automatically shut off the hot water almost completely. Turn on the cold water again. Shut off the hot water. The thermostat must automatically shut off the cold water almost completely. If the thermostat provides automatic shut-off in both cases, the temperature regulator is OK. If one or both of the checks is not successful, the temperature regulator must be replaced.

Remedy

Externally shut off the cold/hot water.

Slacken off the 2.5 mm knob bolt and detach the temperature selector knob ($\mathbf{2}$).

Use a screwdriver to prise off the stop ring $(\mathbf{3})$.

Use a 32 mm open-ended spanner to remove the threaded ring (**4**). Pull out the temperature regulator (**5**) and completely replace, order no. 59 911 525.

Since the end of 2005, all HANSA thermostats have been fitted with a temperature regulator to which a legionella flushing set, order no. 59 912 853 can be attached. Refer to page 125



HANSATEMPRA 1999 onwards HANSADESIGNO Replacing diverter upper section with shut-off

Fault

Bath spout or shower head constantly dripping.

Cause

Diverter upper section with shut-off defective.

Remedy

Shut off the water externally. Unfasten the 2.5 mm knob bolt (**1**). Detach the knob. Detach the stop ring (**2**). Remove the 30 mm ring bolt (**3**). Replace the entire diverter upper section with shut-off (**4**). Order no. 59 911 834 Install in reverse order. Pay attention to installation position! (**5**). Turn the cold/hot water back on. Check operation and check for leaks.

To facilitate removal, the diverter upper section can be pressed out on the temperature regulator side. This involves removing the temperature regulator. Refer to page 149.



HANSAPRISMA - Cleaning strainers and backflow preventer

Fault

- I No cold, hot or mixed water flow.
- II Reduced flow of water.
- III Cold water runs hot or vice versa.

Cause

- I Aerator/hand shower head clogged.
- II Dirt traps/backflow preventer clogged.
- III Backflow preventer defective.

Remedy

- I Unscrew the aerator/hand shower head and clean (e.g. diluted vinegar) or completely replace.
- II-III Shut off the water externally.
 Use a 30 mm open-ended spanner to remove the tap (1).
 Clean the dirt traps (2).
 Remove the securing nipple by turning anti-clockwise with a 12 mm Allen key (3).
 Replace the backflow preventer (4).
 Install in reverse order.

Attention!

When re-installing the backflow preventer, pay attention to the direction of flow and then turn on the cold/hot water externally.



Fault

Bath spout or shower head constantly dripping.

Cause

Ceramic upper section defective.

Remedy

Shut off the water externally. Unfasten the 2.5 mm knob bolt (**1**). Detach the knob. Replace the entire ceramic upper section (**2**). Order no. 59 911 103 Install in reverse order. Turn the cold/hot water back on.



Fault

Flow of hot or cold water only, mixing not possible.

Cause

Check operation to establish whether the temperature regulator is defective. Functional test (applies to all thermostat makes):

Set to full water flow.

Set the temperature selector knob to 38 $^{\circ}$ C (1).

Shut off the cold water.

The thermostat must automatically shut off the hot water almost completely. Turn on the cold water again.

Shut off the hot water.

The thermostat must automatically shut off the cold water almost completely.

If the thermostat provides automatic shut-off in both cases, the temperature regulator is OK.

If one or both of the checks is not successful,

the temperature regulator must be replaced.

Remedy

Externally shut off the cold/hot water.

Slacken off the 2.5 mm knob bolt and detach the temperature selector knob ($\mathbf{2}$).

Use a screwdriver to prise off the stop ring (3).

Use a 32 mm open-ended spanner to remove the threaded ring (**4**). Pull out the temperature regulator (**5**) and completely replace, order no. 59 911 525.

Since the end of 2005, all HANSA thermostats have been fitted with a temperature regulator to which a legionella flushing set, order no. 59 912 853 can be attached.



HANSATWISTER - Cleaning strainers and backflow preventer

Unscrew and clean the aerator (1).

Shut off the water supply. Screw out the 4 mm bolt (**2**) and detach the cover. Pay attention to the knobs! Screw out the backflow preventer unit (**3**) with a 19 mm open-ended spanner. Clean the backflow preventer with strainer (**4**).

Assemble in reverse order. Pay attention to the seal and inspection port (**5**).



HANSATWISTER - Replacing diverter upper section with shut-off

Shut off the water supply. Screw out the 4 mm bolt (1) and detach the cover. Pay attention to the knobs! Detach the flow control (2) and stop ring (3). Use the hook spanner provided to unfasten the nut (4). Replace the diverter upper section with shut-off (5). Order no.: 59 911 834

Assembly:

Install the diverter upper section with shut-off (5) paying attention to the correct installation position. Use a hook spanner to tighten the nut (4). Attach the stop ring (3) in the correct position. Fit the knob (2) in the engaging sleeve and knob fastener (6) at the same time. Fit the cover, paying attention to the seal and inspection port (7). Tighten the 4 mm bolt (1).



Shut off the water supply. Screw out the 4 mm bolt (**1**) and detach the cover. Pay attention to the knobs. Detach the flow control (**2**). Screw out the flow control upper section, 17 mm (**3**). Replace the upper section. Order no.: 59 912 218

Assembly:

Install (17 mm) the flow control upper section (**3**). Fit the knob (**2**) in the engaging sleeve and knob fastener (**5**) at the same time.

Fit the cover, paying attention to the seal and inspection port (4). Tighten the 4 mm bolt (1).



Screw out the 4 mm bolt (1) and detach the cover. Pay attention to the knobs! Detach the flow control (2). Turn the stop ring (3) to set the water flow as required (up to max. 20 l/min.).

The max. water flow can be attained by pressing the water flow ECO button.

Factory setting: Water flow ECO button not active.

Assembly:

Fit the knob (**2**) in the engaging sleeve and knob fastener (**5**) at the same time.

Fit the cover, paying attention to the seal and inspection port (4). Tighten the 4 mm bolt (1).

The water flow ECO button is not suitable for hydraulic continuous flow heaters!



Fault

Flow of hot or cold water only, mixing not possible.

Cause

Check operation to establish whether the temperature regulator is defective. Functional test (applies to all thermostat makes):

Set to full water flow. Set the temperature selector knob to 38 °C (1). Shut off the cold water. The thermostat must automatically shut off the hot water almost completely. Turn on the cold water again. Shut off the hot water. The thermostat must automatically shut off the cold water almost completely. If the thermostat provides automatic shut-off in both cases, the temperature regulator is OK. If one or both of the checks is not successful, the temperature regulator must be replaced.

Remedy

Shut off the water supply. Screw out the 4 mm bolt (1) and detach the cover. Pay attention to the knobs! Detach the temperature knob (2) and stop ring (3). Use the hook spanner provided to unfasten the nut (4). Replace the temperature regulator (5), order no. 59 911 525.

Assembly:

Fit the temperature regulator (5), paying attention to the installation position.

Use a hook spanner to tighten the nut (4).

Attach the stop ring (3) in the correct position.

Fit the knob (**2**) in the engaging sleeve and knob fastener (**6**) at the same time.

Fit the cover, paying attention to the seal and inspection port (7). Tighten the 4 mm bolt (1).

Since the end of 2005, all HANSA thermostats have been fitted with a temperature regulator to which a legionella flushing set, order no.: 59 912 853 can be attached.



Re-adjustment for HANSATWISTER

The temperature scale is adjusted at the factory for a hot water temperature of 60 °C. In the event of variation, the temperature scale can be re-adjusted as follows:

Screw out the 4 mm bolt (1) and detach the cover. Pay attention to the knobs. Detach the knob (2) and stop ring (3).

Use a suitable tool to lock the temperature spindle in position.

By turning the 2.5 mm hexagon socket head bolt, set the outlet temperature to 38 $^{\circ}$ C (4).

Clockwise = cooler (minus) Anti-clockwise = warmer (plus)

Assembly:

Attach the stop ring (**3**) in the 38 °C position.

Fit the knob (**2**) in the engaging sleeve and knob fastener (**6**) at the same time.

Fit the cover, paying attention to the seal and inspection port (5). Tighten the 4 mm bolt (1).



Re-adjustment for HANSARONDA STYLE thermostat

The temperature scale is adjusted at the factory for a hot water temperature of 60 °C. In the event of variation, the temperature scale can be re-adjusted as follows:

Set the temperature selector knob to 38 °C (1). Slacken off the 2.5 mm bolt (2). Detach the knob.

Open the flow control lever (3).

Set the water temperature with the knob holder to 38 °C (4).

Attach the knob at the 38 °C mark. Tighten the 2.5 mm bolt.

Check the outlet temperature, close the flow control lever.





Re-adjustment for HANSAMINIMAT

The temperature scale is adjusted at the factory for a hot water temperature of 60 °C. In the event of variation, the temperature scale can be re-adjusted as follows:

Detach the cap (1).

Unfasten the 2.5 mm stud (2).

Turn the temperature adjustment knob to set the the outlet temperature to 38° C (**3**).

Clockwise = cooler (minus) Anti-clockwise = warmer (plus)

Tighten the 2.5 mm stud (4).

Re-attach the cap (**5**).





Thermal disinfection / legionella flushing for HANSAMINIMAT

Detach the cap (1).

Fit the flushing lever (2).

Order no. 59 912 852

Swivel the flushing lever upwards (**3**) and flush the pipes.

Remove the flushing lever. Re-attach the cap (**1**).

A flow of 70 °C hot water for 3 minutes is required at each tapping point. DVGW worksheet W 552

This can be achieved with HANSA control elements. By means of a lever the temperature regulator can then be fully opened almost immediately (without altering the settings).



There is a risk of scalding during flushing, as the outlet temperature increases to above 70 °C!

Section 05.2

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Removing cover plate on concealed models with lever shut-off

Slacken off the knob bolt and detach the temperature selector knob (1).

Unfasten the stud in the shut-off lever and detach the lever (2). Slacken off the slotted screws (3) and detach the cover plate (4). Install in the reverse order, however attach the sleeve (5) to the control element before fitting the cover plate.

Attention! If the concealed thermostat has been installed too deeply:

Make use of the extension set for 45 - 80 mm installation depths.

HANSAMAT thermostats 1976 to 1997 silenced version as per DIN 4109

Removing cover plate on concealed models without lever shut-off

Slacken off the knob bolt and detach the temperature selector knob (1).

Slacken off the slotted screws (2) and detach the cover plate (3). Install in reverse order.

Attention! If concealed thermostats have been fitted too deeply: Use extension set.

50-85 mm installation depth possible.

Attention! If the hot and cold water connections were interchanged on installation, make use of the special temperature regulator for surface-mounted thermostats. Types: 0823, 0830, 0833, 0835, 0839 Order no. 59 901 668

> For concealed thermostats Types: 0802-0804; order no. 59 901 940

For concealed thermostats 3/4 Types: 0805; order no. 59 906 201



HANSAMAT concealed thermostat 1977 - 1997 Cleaning backflow preventer and strainers without lever shut-off

Fault

- I No cold, hot or mixed water flow.
- II Reduced flow of water.
- III Cold water runs hot or vice versa.

Cause

- I Aerator clogged.
- II Upstream shut-off valves not fully open.
- II.I Dirt traps clogged.
- III Backflow preventer defective.

Remedy

- I Unscrew the aerator (1) and clean the strainer element (e.g. vinegar) or completely replace.
- II Fully open the upstream shut-off valves (2).
- II.I Close the upstream shut-off valves (3).Unfasten and pull out the backflow preventer unit.Clean the strainers (4).Install in reverse order.
- III Close the upstream shut-off valves (3). Unfasten, pull out and replace the entire backflow preventer unit (4).Order no. 59 901 610.Install in reverse order.
 - Attention! Re-open both upstream shut-off valves following re-installation.

External upstream shut-off with Hansamatic!


HANSAMAT concealed thermostat 1977 - 1997 Replacing temperature regulator

Fault

Flow of hot or cold water only, mixing not possible.

Cause

Check operation to establish whether the temperature regulator is defective. Functional test (applies to all thermostat makes):

- 1. Slacken off the knob bolt and detach the knob.
- 2. Slacken off the slotted screws and detach the cover plate.
- 3. Attach the temperature selector knob in the 38 °C position (4) and set to full water flow.
- Shut off the cold water (5), the thermostat must automatically shut off the hot water almost completely. Turn the cold water back on (6).
- Shut off the hot water (7). The thermostat must automatically shut off the cold water almost completely. If the thermostat provides automatic shut-off in both cases, the temperature regulator is OK. If one or both of the checks is not successful, the temperature regulator must be replaced.

Remedy

Close the upstream shut-off valves (**5+7**), detach the temperature selector knob. Detach the cover sleeve (**8**).

Screw out the slotted screws,

pull out the temperature regulator by turning clockwise and completely replace (**9**), order no. 59 901 640.

Cheese head screw, order no. 59 901 641.

Install in reverse order.

Open both shut-off valves again.

For disassembly of the visible parts, refer to page 179.

Attention! External C/H shut-off valves with Hansamatic!



HANSAMAT concealed thermostat 1977 - 1997 Cleaning strainers

Fault

- I No cold, hot or mixed water flow. Reduced flow of water.
- II Thermostat leaking in closed position.

Cause

- I Dirt or lime scale deposits on aerator, hand shower head or automatic water flow regulator.
- II Upstream shut-off valves not fully open.
- III Dirt traps clogged.
- IV Shut-off stiff.
- V Seat in temperature regulator leaking.

Remedy

- I Unscrew the aerator etc. (1) and clean (e.g. vinegar) or completely replace.
- II Remove the cover plate (refer to page 179). Fully open the upstream shut-off valves (**2**).
- III Close the upstream shut-off valves (3) and open the shut-off valve (4).
 Unfasten and pull out the strainer elements and clean the strainers (5).
 Remove the four slotted screws (6) and pull out the temperature regulator by turning clockwise (7).

Clean both dirt traps of the temperature regulator (8). Flush the tap housing.

IV Replace the temperature regulator, order no. 59 904 501 (7). Re-install in the reverse order of removal.

Attention! Re-open both upstream shut-off valves following re-installation.

External C/H upstream shut-offs with Hansamatic!



HANSAMAT concealed thermostat 1977 - 1997 Replacing temperature regulator

Fault

- I Flow of hot or cold water only, mixing not possible.
- II Cold/hot water inlets interchanged.

Cause

- I Temperature regulator defective.
- II Cold/hot water inlets interchanged.

Remedy

I Check operation of the temperature regulator unit. Remove the cover plate (refer to page 179).

Fit the shut-off lever and open the shut-off valve by swivelling to the left (1).

Attach the temperature selector knob (2) and turn to the 38 °C position (3).

Shut off the cold water (**4**). The thermostat must automatically shut off the hot water almost completely.

Turn the cold water back on (5).

Shut off the hot water (**6**), the thermostat must automatically shut off the cold water almost completely.

- Attention! External C/H upstream shut-offs with Hansamatic! If the thermostat provides automatic shut-off in both cases, the temperature regulator is OK. If one or both of the checks is not successful, the temperature regulator must be replaced (7). Order no. 59 904 501.
- Il Remove the thermostat and connect correctly. No special temperature regulator available.



Installing extension set on concealed models with lever shut-off Types 0808/0810 1977 to 1997

For removal of the cover plate, refer to page 179

Close the C/H upstream shut-off valves (1). Remove the temperature regulator bolts (4x) and pull out the temperature regulator unit (2). Check whether both dirt traps are positioned on the temperature regulator. If this is not the case, remove the strainers from the body and fit onto the temperature regulator. Attach the extension set to the temperature regulator in the sequence shown (3-4-5). Align component (5) as shown by (6). Fit in the body using the bolts and centring washers provided (7). On type 0810, slacken off the sleeve of the H/C automatic diverter by 1-2 turns with a hexagon screwdriver (8), unscrew the sleeve provided by turning clockwise and k lock in position with a hexagon screwdriver.

Leak test

Open the C/H upstream shut-off valves (1). Seal the DN 15 wall outlet bend with a dummy cap (9). Fit and open the flow control lever. Check the extension set at the thermostat body for leaks.



Fault

- I No cold, hot or mixed water flow.
- II Reduced flow of water.
- III Cold water runs hot or vice versa.

Cause

- I Lime scale deposits on aerator/spray head or clogged.
- II Upstream shut-off valves not fully open.
- II.I Dirt traps clogged.
- III Backflow preventer defective.

Remedy

- I Unscrew the aerator/spray head (1) and clean (e.g. vinegar) or completely replace.
- Il For removal of the cover plate, refer to page 179. Fully open the upstream shut-off valves by turning anti-clockwise.
- II.I Close the upstream shut-off valves by turning clockwise (2). Unfasten the backflow preventer unit by screwing out the two bolts (3) and pull out completely. Clean the strainers (4). If fitted, silencer removal not applicable (refer to 6). Install in reverse order.
- III Close the upstream shut-off valves by turning clockwise (2). Unfasten, pull out and replace the entire backflow preventer unit (5), order no. 59 904 912. Install in reverse order.
 - Attention! Re-open both upstream shut-off valves following re-installation.

To disassemble, screw the bolts (**3**) into the threads (**6**) and press out the flange by screwing in the bolts. The backflow preventer insert can then be detached using water pump pliers.

Section 06

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Removing the complete assembly set HANSAVARIO thermostatic mixer taps

Shut off the water supply.

Remove the plug. Use a 2.5 mm hexagon screwdriver to slacken off the bolt (1) and detach the knob.

Screw out the pull knob by turning anti-clockwise (2). Only applies to bath/shower mixer taps with pull knob control. Not applicable to (**B**).

Screw out the bolts (**3**) and detach the cover plate (**4**).

Detach the sleeve (5).

Re-install in the reverse order of removal.

Note on HANSADESIGNO:

On assembly, first attach the shut-off ring to the control element and secure with the stud (6). Then screw the pin lever (7) onto the stud.



HANSAVARIO thermostats HANSAMAT temperature regulator

Removing a defective temperature regulator

For removal of the complete assembly set, refer to page 195 Shut off the C/H water, remove the 50 mm ring nut by turning anti-clockwise and pull off the temperature regulator to the front. Replace if defective.

Temperature regulator with shut-off, order no. 59 904 501 Temperature regulator without shut-off, order no. 59 901 640 Re-install in the reverse order of removal. Turn the C/H water back on

Removing C/H backflow preventer if defective or if dirt trap clogged

Shut off the C/H water.

Remove the backflow preventer by turning anti-clockwise and check operation. Replace if defective, order no. 59 911 508. Clean the dirt trap. Re-install in the reverse order of removal. Turn the C/H water back on.

For temperature re-adjustment, refer to page 207





HANSAVARIO Replacing upstream shut-off

Shut off the water externally.

Screw out the service unit with a 19 mm HANSA socket spanner (1)

and the shut-off unit with a 17 mm HANSA socket spanner (2),

order no.: 59 910 035.

Flush out.

Clean and if necessary replace the shut-off unit.

Order no.: 59 911 511.

Assemble in reverse order:

Turn on the water.

Check operation and check for leaks.



Fitting extension set VARIO-MAT 0804/0808 Removing temperature regulator

Shut off the water supply. For disassembly of the visible parts, refer to page 195.

Removal:

Remove the ring nut (1). Pull out the temperature regulator (2).

Installation:

Attach the inner extension sleeve (**3**) to the temperature regulator. Attach the centre extension sleeve (**4**) to the temperature regulator. Attach the outer extension sleeve (**5**) to the temperature regulator. Pay attention to the installation position!

Insert the temperature regulator in the concealed housing. Pay attention to the installation position!

Use the long 50 mm ring nut to secure the temperature regulator.

For fitting the cap, cover plate, knob and pull knob, refer to page 195.

40 mm extension available.







Fitting extension set VARIO-MAT 0804/0808 Removing and installing tie bolt

Whilst supporting the sleeve, use a hexagon screwdriver (2 mm) to slacken off the stud inside the sleeve by 1-2 turns (9). Unscrew the sleeve by turning anti-clockwise. (Items **9-14** do not apply to a shower mixer tap).

Attention! Use the parts provided for extension (bolts and sleeves).

Screw on the hexagon extension (**11**) and secure with a 2 mm stud (**12**). Screw on the sleeve (**13**) and use the stud (**14**) to lock in position (2 mm).

Screw on the cover plate extension (15).

For fitting the cap, cover plate, knob and pull knob, refer to page 195.



Re-adjustment for HANSAMAT thermostat 09. 2003 onwards

The temperature scale is adjusted at the factory for a hot water temperature of 60 °C. In the event of considerable variation, the temperature scale can be re-adjusted as follows:

Slacken off the knob bolt, return the knob to the 38 °C setting and detach (1).

Unfasten the 2 mm hexagon socket head stud on the side (**2**). Stud, order no. 59 901 027 2 mm Allen key, order no. 59 901 028

Hold the temperature spindle with pliers to stop it turning (3).

Turn the front hexagon bolt to adjust the outlet temperature to 38 $^{\circ}$ C (**4**).

Clockwise = cooler Anti-clockwise = warmer

Fix in this setting again with the 2 mm stud on the side (2).

Fit the knob and secure with the knob bolt.



Order no.: 59 912 382

HANSAMAT thermostat T1/2, DN 15 / T 3/4, DN 20 09. 2003 onwards: Cleaning strainers / backflow preventer defective

Fault

- I No cold, hot or mixed water flow.
- II Reduced flow of water.
- III Cold water runs hot or vice versa.

Cause

- I Aerator/hand shower head clogged.
- II Dirt traps clogged.
- III Backflow preventer defective.

Remedy

- I Unscrew the aerator/hand shower head and clean (e.g. diluted vinegar) or completely replace.
- II Remove the visible parts (refer to page 207).
 Shut off the water (1).
 Detach the stop ring (2). Unfasten the 50 mm nut (3).
 Pull out the temperature regulator and clean the dirt traps (4).
- Replace the backflow preventer: Screw out the 10 mm plug (5).
 Screw out the 12 mm backflow preventer (6) and replace, order no. 59 912 382.

Insert the backflow preventer (7) in the mount with strainer (8) (pay attention to the direction of flow). Screw the mount and plug (8+9) together. Insert the O-rings (10+11). Screw the backflow preventer into the tap housing (12). Turn the water supply back on. Check operation and check for leaks.



HANSAMAT thermostat T1/2, DN 15; 09. 2003 onwards 211 Replacing temperature regulator

Fault

Flow of hot or cold water only, mixing not possible.

Cause

Check operation to establish whether the temperature regulator is defective. Functional test (applies to all thermostat makes): Remove the visible parts (refer to page 207).

Cette full water flaw.

Set to full water flow.

Set the temperature selector knob to 38 °C.

Shut off the cold water (1).

The thermostat must automatically shut off the hot water almost completely. Turn on the cold water again.

Shut off the hot water (1).

The thermostat must automatically shut off the cold water almost completely.

If the thermostat provides automatic shut-off in both cases, the temperature regulator is OK.

If one or both of the checks is not successful,

the temperature regulator must be replaced.

Remedy

Shut off the cold/hot water (1).

Detach the stop ring (2).

Use a 50 mm ring spanner to remove the nut (3).

Pull out the temperature regulator (4) and completely replace,

order no. 59 901 640.

Check operation.

If not successful, the adapter is defective.

Pull out the adapter (**5**), order no. 59 912 381 using the bushing extractor, order no.: 59 906 409 and replace.

Assemble in reverse order.

If the upstream shut-off is leaking, screw out (17 mm) and completely replace (${\bf 6}).$

Special temperature regulator for interchanged C/H connections: Order no. 59 901 940.



HANSAMAT thermostat T3/4, DN 20; 09. 2003 onwards 213 Replacing temperature regulator

Fault

Flow of hot or cold water only, mixing not possible.

Cause

Check operation to establish whether the temperature regulator is defective. Functional test (applies to all thermostat makes): Remove the visible parts (refer to page 207). Set to full water flow. Set the temperature selector knob to 38 °C. Shut off the cold water (1). The thermostat must automatically shut off the hot water almost completely. Turn on the cold water again. Shut off the hot water (1). The thermostat must automatically shut off the cold water almost completely. If the thermostat provides automatic shut-off in both cases, the temperature regulator is OK. If one or both of the checks is not successful, the temperature regulator must be replaced. Remedy

Shut off the cold/hot water (1).

Detach the stop ring (2).

Use a 50 mm ring spanner to remove the nut (3).

Pull out the temperature regulator (**4**) and completely replace, order no. 59 912 331.

If the upstream shut-off (5), order no. 59 912 383 is leaking, screw out (17 mm) and completely replace.

Temperature regulator for interchanged C/H connections: Order no. 59 912 461.

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Recommended fitting heights

Mirror	1750	-	1850 mm
Shelf	1120	-	1200 mm
Lotion dispenser	1000	-	1050 mm
Soap dish	900	-	950 mm
Towel rail	800	-	850 mm

The dimensions given are average values, consult the customer to establish exact fitting heights! Pay attention to the tile pattern!

Our brochure **Planning with HANSA** also contains useful information.
Section 08

Two-handle taps / pillar valves	Page
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HANSA-NOVA pillar-type wall outlet valve Types 0091, 0093, 0086, 0096

Fault

I Reduced flow of water.

II Valve dripping at spout.

Cause

- I Dirt or lime scale deposits on aerator or automatic water flow regulator.
- Il Upper section soiled by the ingress of coarse construction dirt.
- III Control edge of ceramic disc damaged by silica sand.

Remedy

- I Unscrew the aerator (1) and automatic water flow regulator (2) (up to 12. 1997) and clean (with vinegar) or completely replace. Re-install in the reverse order of removal.
- II Shut off the water.

Unscrew the aerator (1). Slacken off the bolt (3) and detach the wing knob $(4)^*$.

Unscrew the upper section (5) with a 27 mm spanner,

order no.: 59 912 334

Clean the upper section under running water.

Re-install in the reverse order of removal.

Attention! On re-installing the upper section (5) make sure the lugs (6) of the upper section are inserted in the slots of the outlet valve (7).
Attach the wing knob such that the bolt (3) is located in the upper section hole (8).

III Refer to II, however replace the entire upper section (5).

* 01. 1999 onwards

Turn the wing knob through 90° and detach (bayonet catch)



Replacing ceramic disc upper section at machine shut-off valve up to 03.1988

Close the angle shut-off valve.

Use a screwdriver to disassemble the diverter housing (1).

Detach the diverter housing (2).

Screw out the ceramic disc upper section, order no. 59 906 904 with a 19 mm open-ended spanner (**3**). Check the upper section for dirt and clean in water if necessary.

Attention! Do not dismantle the upper section.

Re-install the upper section (4).

Close the upper section by turning the upper section spindle clockwise as far as it will go (**5**).

Attach the diverter housing and secure with a bolt (6).

Attention! The retaining clip must be unfastened (7).



Check for leaks. Connect the machine hose.



The upper section, order no. 59 905 181 is supplied complete with the diverter housing.



T1/2 ceramic inner upper section Order no. 59 905 114

Converting upper section from clockwise closing to anti-clockwise closing

Remove the engaging sleeve and disc (1). Turn the stop ring through 180° (2+3). Pay attention to the marks when doing so. R = Clockwise L = Anti-clockwiseRe-attach the disc and engaging sleeve.

In situ conversion only!





T1/2 ceramic inner upper section Order no. 59 905 114

Conversion of knob mounting

Use must be made of the appropriate engaging sleeve to suit the knob.

Knob A:

Small knob mount = as-delivered condition No conversion required. Attach knob A.

Knob B:

Large knob mount (engaging sleeve)

Detach the knob insert (1). Remove the clip (2). Fit the green engaging sleeve (3). Attach and engage knob **B**.



T1/2 ceramic inner upper section Order no. 59 905 114

Conversion of valve seat seal

Shut off the cold/hot water.

Replace the upper section and screw in. It must be possible to screw in the upper section easily and fully by hand. If not, insert the HANSA spindle upper section 59 901 015.

Turn on the cold/hot water.

If the tap leaks at the spout (seat damaged), shut off the water, remove the upper section again, remove the upper section seal (1) with support ring and insert the thicker seal (2) provided.

Attention! Insert the thick seal (2) with the narrow side facing the ceramic disc (3) (the supprt ring (4) is not required).

If the tap is then still leaking, insert the HANSA spindle upper section 59 901 015.

Attention! Cannot be used for electric overflow fittings (open systems).

Section 09

Two-handle taps	Page
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Fault

I Tap constantly dripping

Cause

I Ceramic upper section leaking

- II Spout seal defective
- III Spray regulator defective / soiled

Remedy

I Replace the ceramic upper section, right 1/2" 17 mm; 90° closing Order no: 59 912 665 (**3**).

Replace the ceramic upper section, left 1/2" 17 mm; 90° closing Order no: 59 912 666 (**4**).

- II Slacken off the 3 mm bolt and lift off the spout (**2**). Replace the spout seal, order no.: 59 912 661
- III Clean or completely replace the laminar spray regulator (**1**). M 16 x 1 - Order no.: 59 912 662 HANSAQUADRIS M 18 x 1 - Order no. 59 912 675 HANSAQUADRIS ART

Section 10

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HANSAVAROX 4001/4000 installation position

When installing the VAROX concealed box 4001 at the carcass stage, attention must be paid to the installation position.

4001 with upstream shut-off

The box must be installed such that the upstream shut-offs are aligned with the water inflow. (Rotation in 180° steps is possible) (1).

If the installation position is not observed, the upstream shut-off will be on the outgoing end and thus not active.

4000 without upstream shut-off

The box can be installed in any horizontal position. (Rotation in 90° steps is possible) (**2**).

ATTENTION: The direction of flow changes on flushing!



HANSAVAROX concealed one-hand mixer taps. Disassembling visible parts and cover plate mount

Remove the plug, slacken off the knob bolt with a 2.5 mm hexagon screwdriver (1) and detach the lever (2). Unscrew the diverter pushbutton (3). Remove the cover plate bolts (4). Detach the cover plate and sleeve (5). Remove the cross-head bolts (6) and locating plate (7). Disengage the bracket of the diverter (8) (bath/shower only). Remove the cover plate mount (9).

Assemble in reverse order: Do not over-tighten the cross-head bolts (6) to avoid blocking the diverter.

Pay attention to the correct fastening holes (10).

```
240
```

4000 ...

4001 ...







HANSAVAROX Disassembling operating unit

Shut off the water. Turn the bayonet nut anti-clockwise (tensions the spring) (**1**).

Pull out the operating unit (**2**). Also remove the connecting pipes (4x) and replace if necessary.

Re-installation:

Tension the bayonet nut by turning anti-clockwise (pay attention to marking!). Insert the connecting pipes in the operating unit (not applicable on replacing operating unit). Insert the operating unit - the unit locks automatically -(pay attention to marking).





HANSAECO 60+

HANSAVAROX Concealed one-hand mixer taps: Cartridge replacement

Fault

- I Reduced flow of water.
- II Water dripping from spout.
- III Water emerging in upper part of cartridge.

Cause

- I Dirt or lime scale deposits on aerator or spray head.
- I.I Cartridge soiled by the ingress of coarse construction dirt.
- II Ring nut loose.
- II.I Cartridge defective on account of excessively high flow temperature (above 90 °C) or control edge damaged by silica sand.
- III Seal (5) damaged.

Remedy

- I Unscrew the aerator and clean (with vinegar). Completely replace if necessary.
- I.I For disassembly of the visible parts, refer to page 239. Shut off the water.

Remove the anti-scald stop (1).

Use the hexagon ring spanner, order no. 59 905 190 to unscrew the 45 mm ring bolt, order no. 59 911 513 (**2**). Take out the cartridge, order no. 59 904 601 (**3**) and clean.

Attention! Do not dismantle the cartridge.

Re-install in the reverse order of removal.

Attention! Note (4).

- II Re-tighten the 45 mm ring bolt.
- II.I Refer to I.I, however replace the entire cartridge and reduce the flow temperature to max. 90 °C.

Attention!

The stop ring and ring bolt are not included in the scope of delivery of replacement cartridges.

Re-use the old components.

III Replace the entire cartridge.



HANSAVAROX Concealed one-hand mixer taps - Cartridge replacement

For disassembly of the visible parts, refer to page 239. Shut off the water. Detach the anti-scald stop (**1**). Unfasten the nut (**2**) with a 30 mm hexagon ring spanner. Pull out and if necessary replace the cartridge (**3**). Order no. 59 912 324

Assemble in reverse order. Turn the water supply back on. Check operation and check for leaks.

For disassembly of the visible parts, refer to page 239. Shut off the water. Unfasten the nut (1) with a 34 mm hexagon ring spanner. Detach the anti-scald stop (2). Pull out and if necessary replace the cartridge (3). Order no. 59 904 601 01

Assemble in reverse order. Turn the water supply back on. Check operation and check for leaks.



hot



Flushing as per DIN 1988

with HANSA pressure test plug

Shut off the water: 4000...(external) 4001...(with integrated upstream shut-off)

Alternately remove the fitted plugs.

Flush cold water via the lower outlet (bath).

Flush hot water via the upper outlet (shower).

Re-install the fitted plugs.

Shut off the water supply.





Flushing as per DIN 1988

Bath with HANSA pressure test plug

Shut off the water: 4000...(external) 4001...(with integrated upstream shut-off)

Remove the fitted plugs: Turn on the cold water (**1**), flush and shut off again. Turn the pressure test plug through 90° (**2**). Turn on the hot water (**3**), flush and shut off again. Re-install the fitted plugs, shut off the water.

Flushing as per DIN 1988

Shower with HANSA pressure test plug

Shut off the water: 4000...(external) 4001...(with integrated upstream shut-off)

Remove the fitted plugs: Turn on the hot water (1), flush and shut off again. Turn the pressure test plug through 90° (2). Turn on the cold water (3), flush and shut off again. Install the fitted plugs: Shut off the water.







Flushing as per DIN 1988 with HANSA flushing plug 59 912 794

Shut off the water externally.

Replace the pressure test plug (1) with the flushing plug (2).

Turn on the cold/hot water and flush.

Replace the flushing plug (2) with the pressure test plug (1).

Turn on the cold/hot water externally.



Pressure test

When using a HANSAFILL bath filler and drain set, order no. **0516** 0100, the lower outlet must be sealed with the plug with O-ring in the protective cap when performing the pressure test.

ATTENTION!

First insert the plug with O-ring in the **pressure test plug** and then in the housing.




HANSAVAROX extension set

Extension: 20 mm, max. 40 mm possible

For disassembly of the visible parts, refer to page 239. For disassembly of the operating unit, refer to page 241. Insert the spacer ring (**1**) and lock in position.

Tighten the securing bolts with a 2.5 mm hexagon screwdriver (**2**).

Insert the extensions (3).

Fit the operating unit (4).

Fit the locating flange and cover plate mount (5). Do not over-tighten the cross-head bolts (6) to avoid blocking the diverter.

Pay attention to the correct fastening holes (7).

Extension by 40 mm requires the use of 4 additional 4.5 x 120 cross-head bolts !



HANSAVAROX: Disassembling diverter

Shut off the water externally.

Remove the visible parts (refer to page 239).

Remove the operating unit (refer to page 241).

A Remove the circlip (1) with circlip pliers. Pull out the diverter (2).

B Remove the clip. Pull out the diverter (2).

> Clean or replace the diverter. When installing the VAROX concealed box at the carcass stage, attention must be paid to the installation position.

Install in reverse order.

Check operation and check for leaks.

Turn on the cold/hot water externally.

Diverter order no.:

59 912 985 Softpush 59 912 998 without Softpush



HANSAVAROX safety device

Type LB safety device as per DIN EN 1717 - Bath spout safety device beneath the bath rim in private households.

Remove the operating unit. Refer to page 241. Remove the circlip (**1**) with circlip pliers. Pull out and if necessary replace the vacuum breaker (**2**).

Pull out the connecting pipes (**3**). Check and if necessary replace the backflow preventer (**4**).

The backflow preventers are located in the mixed water outlets.





HANSAVAROX thermostats

Removing a defective temperature regulator

Shut off the C/H water externally. For disassembly of the visible parts, refer to page 239.

Temperature regulator with shut-off. Order no. 59 912 843 Unfasten the 36 mm nut (**1**) by turning anti-clockwise, pull off the temperature regulator to the front.

Temperature regulator without shut-off. Order no. 59 911 525 Remove the 36 mm nut (**2**). Pull out the temperature regulator.

Replace if defective.

Re-install in the reverse order of removal. Pay attention to the installation position. Turn the C/H water back on.

Re-adjustment

Lock the temperature spindle in position (3).

By turning the 2.5 mm hexagon bolt, set the outlet temperature to 38 °C (**4**). Clockwise = cooler Anti-clockwise = warmer

Check operation and check for leaks.





(3) 59 913 081

2 59 912 754

HANSAVAROX determining installation depth

Determine the correct installation depth by measuring the distance between the brass lug and the top edge of the tile.

Correct installation (1):

The dimension must be between 28 and 53 mm.

Installation too deep (2):

Dimension = 54 - 74 mm: Use the extension set 59 912 754.

Installation too shallow (3):

Dimension less than 28 mm: Use the cover plate extension 59 913 081.

Can only be used for decorative sets with 170 mm diameter!



HANSAVAROX cover plate extension

Determine the correct installation depth by measuring the distance between the brass lug and the top edge of the tile.

Installation too shallow:

Dimension less than 28 mm: Use the cover plate extension 59 913 081.

Can only be used for decorative sets with 170 mm diameter!

Extension: 12 mm

For disassembly of the visible parts, refer to page 239.

Insert the extension (1).

Fit the locating flange and cover plate mount (**2**). Do not over-tighten the cross-head bolts (**3**) to avoid blocking the diverter.

Pay attention to the correct fastening holes (4).



4000 up to 04. 2009











HANSAVAROX 4000 0000 up to April 2009 HANSAVAROX 4000 0000 from May 2009 onwards

Up to April 2009, the installation depth for the Hansvarox pre-fitted housing is between min. **83 and max. 108 mm.**

This installation depth applies to the pre-fitted housing

Art. no. 4000 0000 without upstream shut-off

As of May 2009, the installation depth for the Hansvarox pre-fitted housing is between min. **73 and max. 98 mm.**

HANSAVAROX 4001 0000

The installation depth for

Art. no. 4001 0000 min. 83 mm to max. 108 mm

remains unchanged

Section 11

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Check list for electronic taps

1) Check the power supply

-Mains voltage being applied?

-Plug-in power supply unit OK?

-Sufficient battery voltage?

-Connectors OK?

-Cable damaged?

-Solar cell damaged/soiled?

2) Check the water supply

-External water supply? -Angle valves OK? -S-connections shut off? -Upstream shut-off with Varox / Public? -Aerator soiled?

3) Check the tap

-Sensor damaged? -Sensor soiled? -Sensor gummed up?

-Mechanical damage to control button? -Start / stop button defective?

Lithium battery: 2CR5, 6 V DL 245, 6 V DL 223 A, 6 V CRP 2 P, 6 V

General information on HANSA electronic taps, however depending on the current software version

Tiptronik up to 2008: Setting water run-on time

Press the start/stop button 1 x (water flows).

Press the start/stop button 1 x and keep it pressed (water stops and starts to flow again after a brief delay).

The run-on time commences (2 seconds - 3 minutes) as soon as the water starts to flow again.

The run-on time is determined by holding the start/stop button.

Example:

Hold for 7 seconds / water flows for 7 seconds. Release the button. The run-on time is set to 7 seconds.

When the tap is next started it stops after 7 seconds.

Tiptronik from 2008 onwards: Setting water run-on time

Press 2 x - wait 10 seconds.

Press 4 x - wait 1 second.

Press 2 x - keep pressed for 10 seconds the second time, the water then starts to flow.

Then keep pressed for the length of the required run-on time.

Example:

Hold for 7 seconds / water flows for 7 seconds. Release the button. The run-on time is set to 7 seconds.

When the tap is next started it stops after 7 seconds.

General information on HANSA electronic taps, however depending on the current software version

Solar function - mode of operation:

The special solar cells of the HANSA Mix S / Designo S permit the conversion of light from a whole range of different sources into energy. The broad absorption and processing range of the cells is the key to their suitability for a wide variety of applications. As of a solar voltage of 3.6 V the sensor is supplied with solar energy. At lower voltages operation is maintained by the built-in lithium battery. Switching to the battery power supply is accompanied by a reduction in the energy consumption of the electronics to extend the battery service life. Tests have shown that illumination values as of 60 lux may be sufficient to generate a solar voltage of at least 3.6 V. The voltage value generated is however highly dependent on the nature and the strength of the light source as well as the distance involved and the angle of incidence. It is therefore not possible to define a general limit value as of which sufficient voltage will be available.

Operational reliability:

The electronics are provided with a safety feature which ensures that the valve closes. Renewed switch-on is prevented if the battery voltage drops and proper switching of the valve is thus no longer guaranteed. The need for battery replacement is indicated by flashing of the red LED on object detection in the sensor eye.

The valve is pulse-controlled. When the valve is open, removal of the built-in battery or disconnection of the control line between the electronics and the valve therefore results in continuous flow.

1. Start-up

- 1.1. Installation in accordance with fitting instructions
- 1.2. Water supply must be ensured.
- 1.3. Remove the sticker from the sensor eye.
- 1.4. Following initial object detection (usually on removing the sticker), water starts to flow and automatic sensor calibration commences. This process takes roughly 20 seconds. If the tap does not switch on after removing the sticker, briefly press the Hansa control button.
- 1.5. As soon as water starts to flow, move hand out of the sensor range.
- 1.6. Wait the sensor is adjusted automatically by the electronics, water flows for approx. 4-5 sec.
- 1.7. The tap switches off the water and is ready for operation after approx. 20 seconds.

Important: After initial switch-on, move hand immediately out of the sensor range so as not to influence calibration.

2. Electronics re-start and sensor re-calibration

(re-starting is necessary to alter the settings)

If initial commissioning is inadvertently performed prior to installation and the sensor setting is therefore not satisfactory, the electronics can be re-started. Proceed as follows:

- 2.1 Briefly press the button twice in quick succession.
- 2.2 The red LED flashes several times.
- 2.3 Press the button again once and keep it pressed (approx. 6 sec.).
- 2.4 The red LED flashes 4 times, then release the button.
- 2.5 Wait 15 sec.
- 2.6 Briefly hold one hand in front of the sensor until water starts to flow.
- 2.7. As soon as water starts to flow, move hand out of the sensor range.
- 2.8. Wait the sensor is adjusted automatically by the electronics, water flows for approx. 4-5 sec.
- 2.9. The tap switches off the water and is ready for operation after approx. 20 seconds.

Important: Electronics re-start only takes place if the electronics have been programmed for the transmission output stage. This stage is set at the factory on delivery. If, after proceeding as described in Item 2.1. onwards, water does not flow automatically for 4 - 5 sec., programming to one of the transmission output stages 2 - 5 has already been performed. In this case re-starting is only possible as described in Item 4 by re-programming to one of the 5 transmission output stages.

3. Problem rectification in the case of reflection

One of the following fault symptoms is apparent despite re-starting the electronics:

- Automatic flow of water with no object
- Constant switch-on/switch-off
- Switch-on in passing

Any of these problems means that automatic calibration was not successful. The sensor system must be provided with a different reference point during calibration (ideally the palm of a hand). Proceed as follows:

- 3.1 Briefly press the button twice in quick succession.
- 3.2 The red LED flashes.
- 3.3 Press the button again once and keep it pressed (approx. 6 sec.).
- 3.4 The red LED flashes 4 times, then release the button.
- 3.5 Wait 10 sec.
- 3.6 Hold the palm of the hand vertically approx. 0 4 cm in front of the Perlator on a level with the sensor field.
- 3.7 Water flows over the palm of the hand.
- 3.8 Hold the palm of the hand steady in this position until the water cuts out after approx. 4 5 sec.
- 3.9 As soon as the water cuts out, immediately move the hand out of the sensor range.
- 3.10 The tap switches off and is ready for operation <u>after approx. 10 seconds</u>.

IMPORTANT: Repeat the procedure if the setting is not satisfactory. However, hold the palm of the hand slightly closer to or further away from the Perlator (trial and error). If such influencing of the sensor does not achieve the desired success after several attempts, proceed as described in Item 4.

4. Setting the transmission output:

This setting option is only to be employed after several failed attempts at implementing Items 2 and 3.

Particularly with chromium steel basins it may be appropriate to reduce the transmission output if the sensor system receiver is reacting too sensitively (tap switching on and off without an object despite implementing Items 2 and 3). Over-reduction can detract from ease of operation!

- 4.1 Briefly press the button twice in quick succession.
- 4.2 The red LED flashes.
- 4.3 Press the button again once and keep it pressed (approx. 6 sec.).
- 4.4 The red LED flashes 4 times, then release the button.
- 4.5 Press the button again within 5 sec. and keep it pressed.
- 4.6 Keep pressing and wait until the red LED flashes.
- 4.7 The LED flashes 1 to 5 times.
 1 x flashing = max. transmission output, 2 x....3 x....4 x
 5 x flashing = min. transmission output
 Release the button as soon as the required transmission output
 (number of flashing pulses) has been attained.
- 4.8 Immediately after releasing the button, calibration is implemented as described in Item 1.5. (water flows for approx. 4 5 sec.).
- 4.9 Continue as described in Item 1.5. onwards.
- 4.10 Influencing of the calibration process by a different reference point (hand), as described in Item 3.6. onwards, is also possible but experience has shown this to be unnecessary.

5. Setting the water run-on time:

- 5.1 Press the button in the sensor eye for approx. 6 sec.
- 5.2 The red LED in the sensor flashes once.
- 5.3 Release the button.
- 5.4 Press the button again and keep it pressed (0.5 to 4.0 sec.).
- 5.5 Water starts to flow immediately.
- 5.6 Release the button again after the desired period (0.5 to 4.0 sec.), the flow of water stops.
- 5.7 The duration of the previously forced water flow is the new programmed "water run-on time" (0.5 to 4.0 sec.).
- 5.8 The tap is ready for operation with the newly stored water running time.

This programming procedure can be repeated as often as required.



HANSAELEKTRONA

Use a screwdriver to prise off the cap (1).

Slacken off the knob bolt and detach the knob (2).

Take out the plug with solenoid valve (**3**) and completely replace. Order no. 59 910 748

Install in reverse order.



HANSAELEKTRONA Replacing O-ring

Slacken off the bolt (1).

Detach the spout (2).

Replace the seal and mechanical seal (3+4).

Order no: 59 910 233



HANSAELEKTRONA Installation procedure - Spout locking mechanism

Remove the spout fastening screw (1). Lift off the spout (2).

Take out the stops (**3**) and re-insert in the required position.

Stops can be inserted in any position. An asymmetrical arrangement is also possible.





HANSAELEKTRONA Plug disassembly procedure

Remove the knob (refer to page 277).

Slacken off the 2.5 mm bolts (3x) (1).

Pull out the plug (2).

Disconnect the cable (3).



HANSAELEKTRONA Disassembling electronics

Remove the plug (refer to page 283).

Slacken off the 2.5 mm bolts (2x).

Detach the electronics and disconnect the cable.

Pull the cable carefully through the tap body, taking care not to damage the cable!





HANSA Elektrona - concealed up to 05.02

Remove the aerator (1). Remove the front panel bolts (2). Pull off the front panel to the front.

Alter the sensor range if necessary (3).

Assemble in reverse order.

Fault

I No function II No / little water III Constant flow of water

Cause

I Check the power supply / fuse, transformer or electronics defective.

- II Check the water supply, solenoid valve defective.
- III Lime scale deposits on aerator / clogged.

Remedy

- I Check the fuse in the control box.
 - Replace the transformer / electronics (4) if necessary.
- II Replace the solenoid valve (5).
- III Unscrew and clean the aerator
 - (e.g. diluted vinegar) or completely replace.
 - Adjust the sensor range (3).





Fault - Cause - Remedy			
Problem / fault	Possible cause	Remedy	
No flow of water	Black object "Long-term Off" activated Angle valves closed Angle valves/dirt trap clogged Hoses twisted/kinked	Sensor does not recognise black Terminate "Long-term Off" Open angle valves Clean angle valves/dirt trap Connect hoses properly	
Sensor flashing	Sensor soiled/dirty Reflection (autom. water stop after one min. constant flow)	Clean/uncover sensor Remove object or "Autoset"	
With battery operation only With mains operation only Sensor constantly lit	Battery flat/defective Battery incorrectly inserted Power failure Break in power supply Brief power cut	Replace battery Insert battery correctly Check power supply Check cable/connection Unplug power supply unit for 10 sec.	
Constant flow of water	Reflection at wash basin Power cut during flow of water Hoses incorrectly fitted Valve defective	"Autoset" Re-establish power supply Connect hoses properly Clean / replace solenoid	
Tap switching automatically	Sensor soiled Reflection at wash basin	Clean sensor "Autoset"	
Insufficient flow of water	Insufficient supply pressure Angle valves not open far enough Angle valves/dirt trap clogged Perlator clogged Non-return valves defective Flow limiter	Check supply pipe Open angle valves further Clean angle valves/dirt trap Clean/replace Perlator Replace non-return valves Remove flow limiter	
Flashing during flow of water	Battery flat	Replace battery	
Tap dripping	Expansion in boiler (low-pressure tap only) Valve soiled	Clean valve and dirt traps Check water supply	
Incorrect water temperature	Angle valves/dirt trap clogged Problem with water supply	Clean valve and dirt traps Check water supply	
HANSACONTROL does not react ("Komfort" models only)	Incorrect operation Button defective	Refer to HANSACONTROL operating manual Replace electronics	


Notes on programming

Press the control button slowly and evenly - if the control button has to be pressed several times in succession, leave a distinct pause each time after pressing.

Water flows whilst making the settings! Unscrew the spray head if necessary and replace with a hose. Flashing pulses and/or flow of water during programming are normal.

Take care when using tools to actuate the function button (risk of damage).

Do not reach into the sensor range during calibration!

HANSACONTROL functions Centrally positioned LED (up to 2003) - remote control Offset LED (2004 onwards) - with control button

All "Komfort" models are provided with a HANSACONTROL button. This unique button makes the tap versatile and even more convenient to use.

Cleaning mode (refer to page 293) Temporary interruption of water flow (interval) For convenient cleaning of tap and wash basin Can be terminated at any time by pressing button or automatically (after 2 min.).

Constant On (refer to page 293) Constant flow of water. For filling wash basin, containers, etc. Can be terminated at any time by pressing button or automatically (after max. 2 min.).

Programming water running time (refer to page 295) "Constant On" setting (1-20 min.).

24-hour hygiene flushing (refer to page 297) Flushing 24 hours after last use To prevent water stagnation Permanently set flushing time 5 seconds.

Setting water run-on time (refer to page 297) The water run-on time can be set as required (running time approx. 0.5 - 4 seconds).

Autoset - automatic calibration (refer to page 299) Available for all Hansa taps. The sensor range is automatically set to the wash basin. Ensures maximum convenience and stops the tap running automatically.

Manual setting of sensor range (refer to page 301) The sensor range can be set manually to the wash basin. Ensures maximum convenience and stops the tap running automatically.







HANSACOBRA "Cleaning mode" function

Brief Off

Temporary interruption of water flow (interval). For convenient cleaning of tap and wash basin. Can be terminated at any time by pressing button or automatically (after 2 min.).

Setting:

Press the control button 2 x (double click). The tap flashes 5 x as confirmation and the flow of water stops.

Premature termination

Press the control button 1 x - water starts to flow.

HANSACOBRA "Constant On" function

Constant On

Constant flow of water. For filling wash basin, containers, etc. Can be terminated at any time by pressing button or automatically (after max. 2 min.).

Setting:

Press the control button for 2 seconds. The tap flashes 5 x as confirmation and the water starts to flow (max. 2 min.).

Premature termination

Press the control button 1 x - the flow of water stops.



HANSACOBRA "Water running time" function

Programming water running time

"Constant On" setting (1-20 min.)

Press the control button 1×2 seconds. The tap flashes $1 \times as$ confirmation and the water starts to flow (4 sec.).

Then press again and hold. After 5 sec. the tap starts to flash. Keep the button pressed until the desired water run-on time has been attained.

```
Each flashing pulse extends the running time by 1 minute
```

Example: $5 \times \text{flashing}$, then release = $5 \times \text{minutes running time}$

1 x flashing	=	1 min. water running time
2 x flashing	=	2 min. water running time
3 x flashing	=	3 min. water running time
-	-	-
-	-	-
-	-	-
19 x flashing	=	19 min. water running time
20 x flashing	=	20 min. water running time





HANSACOBRA "Hygiene flushing" function

24-hour hygiene flushing

Flushing 24 hours after last use Permanently set flushing time 5 sec.

Activation:

Press the control button for 24 seconds. The tap flashes $2 \times as$ confirmation and the water starts to flow (4 sec.).

Deactivation:

Press the control button for 24 seconds. The tap flashes 5 x as confirmation.

HANSACOBRA "Water run-on time" function

Setting water run-on time

The water run-on time can be set as required (running time approx. 0.5 - 4 sec.).

Setting:

Press the control button for 6 seconds. The tap flashes 1 x as confirmation.

Press the control button again 1 x and keep it pressed for 0.5 to 4 sec. The water run-on time is set to 0.5 to 4 sec.

Release the control button, the tap flashes 1 x as confirmation.



HANSACOBRA "Autoset" function

Autoset - automatic calibration

Available for all Hansa taps. The sensor range is automatically set to the wash basin. Ensures maximum convenience and stops the tap running automatically.

Setting:

Briefly press the control button 2 x (double click). The tap flashes 5 x as confirmation.

Press the control button for 5 sec.

The tap flashes 4 x (wait 15 sec.).

The water starts to flow (4 sec.).

Wait a further 20 sec.

The tap is ready for operation.



HANSACOBRA function "Manual setting of sensor range"

Manual setting of sensor range

The sensor range can be set manually to the wash basin. Ensures maximum convenience and stops the tap running automatically.

Setting

Press the control button 2 x (double click) and keep it pressed 1 x 5 seconds. The tap flashes 4 x as confirmation (wait 5 sec.).

The sensor range can now be set:

- 1 x press = range 1
- 2 x press = range 2
- 3 x press = range 3
- 4 x press = range 4

5 x press = range 5

6 x press = range 1

The water starts to flow (4 sec.).

Wait a further 20 sec.

The tap is ready for operation.



HANSACOBRA Battery replacement

Shut off the water (1). Screw out the 3 mm bolt (2). Detach the electronics and unplug the connector (3). Remove the battery compartment (4) and replace the battery (6 V, lithium DL245 or 2CR5), order no.: 59 911 670

Assemble in reverse order.

Up to 2003:

Press the reset button 1 x. Water flows for approx. 4 sec. Then wait 10 sec. The tap switches automatically to standby (function).

2004 onwards:

Re-start: The tap switches automatically to standby after approx. 20 sec.

It is easier to detach the electronics after removing the aerator.



HANSACOBRA Cleaning strainers/aerator

Shut off the water. Unscrew the aerator (1). Clean the element or completely replace (2). Unfasten the pressure hose (3). Clean or replace the strainer (4).

Assemble in reverse order.



HANSACOBRA 2000 onwards Replacing plug

Fault

I Temperature adjuster stiff

II Temperature control lever broken off

Cause

Dirt or lime scale deposits

Remedy

I Remove dirt and lime scale deposits.

II Replace the temperature control lever.

Close the angle valves.

Use a screwdriver to prise off the cap (1+3).

Screw out the 2 mm bolt (**2**), paying attention to the washers! To facilitate disassembly, completely pull out the temperature control plug with lever, order no.: 59 911 686 (**4**).

Clean and grease the plug (order no.: 59 901 040) If cleaning is not successful, replace the plug.

Dismantling temperature control plug Screw out the 2 mm bolt (**5**). Pull apart the temperature control lever (**6**) and temperature control plug (**7**). Replace the lever.

Assemble in reverse order.





HANSACOBRA concealed wash basin tap 04 onwards 309 Cleaning strainer/Perlator

Fault

I Reduced flow of water.

Cause

I Lime scale deposits on aerator / clogged.

II Lime scale deposits on dirt trap / clogged.

Remedy

I Unscrew and clean the aerator (e.g. diluted vinegar) or completely replace. II Screw out the aerator (1). Remove the cover and bolt (2). Slide the cover plate and electronics forwards. Shut off the water (3), detach the electrical connections (4). Remove the cover plate and electronics. Screw out the valve bolts (5). Unfasten the 30 mm nut and take out the valve block. Clean the strainer, order no. 59 911 076 (6) and aerator (1) or replace.

Assemble in reverse order.

For alteration of basic settings, refer to page 271-275.



HANSACOBRA concealed urinal tap Cleaning strainer

Slacken off the 3 mm bolt (1). Fold forwards and raise the cover and remove together with the electronics (2).

Shut off the water (**3**). Disconnect the power supply (**4**). Screw out the cross-head bolts (**5**). Pull out and clean or replace the strainer (**6**).

Assemble in reverse order.



HANSACOBRA surface-mounted urinal tap Battery replacement

Turn the 7 mm securing shaft (1) through 180°. Detach the electronics (2). Slacken off the cross-head bolts and remove the battery cover (3). Replace the battery (6 V, lithium DL245 or 2CR5, order no.: 59 911 670)

Assemble in reverse order.

Re-start:

The tap switches automatically to standby after approx. 20 sec.

Check operation!



HANSACOBRA surface-mounted urinal Cleaning strainer

Slide back the cover plate (**1**), shut off the water (**2**), 3 mm and unfasten the union nut (**3**). Slacken off the 3 mm bolt (**4**) and detach the tap. Clean or replace the strainer (**5**). Order no.: 59 911 694

Assemble in reverse order.



HANSACOBRA - Remote control unit operation

The remote control unit provides special functions and enables factory-defined basic settings to be altered.

These basic settings should only be changed in exceptional circumstances.

Activation of the tap

Before using the remote control unit, the tap must be activated for signal reception.

Activation is implemented: For wash basin taps

- 1. After approx. 2 min. constant water flow (water stop)
- 2. By pressing the Comfort button (1 x 10 sec.) for the "AUTOSET" function

For urinal taps

After every flushing operation.

The remote control unit can then be used for a 5-minute period to change the settings.

Selection of functions and deactivation of remote control unit Repeatedly press the "ON" button to select the required functions (the corresponding display lights) or switch off the remote control unit (none of the displays lights).

The remote control unit is switched off automatically after 15 seconds.

How to use the remote control unit

Aim the remote control unit exactly at the sensor eye (distance 15-20 cm) and press the appropriate button.

 The tap acknowledges the signals received:

 5 x short flash:
 Setting altered by 1 step

 2 x short flash:
 Min. or max. setting attained

Further details can be found in the fitting instructions.

Order no.: 59 911 716

With effect from 07/03 no remote control unit is required for the wash basin tap.









Alteration of sensor range



Select function,

press buttons for step-by-step change

Check the altered sensor range!



Alteration of water running time Basic setting approx. 1.5 sec.



Select function,

press for 0 to 3 sec. change Check the altered water running time!



Restoration of basic setting



Select function,

press button to obtain factory-defined basic setting

Tap flashes for 60 sec.!



HANSACOBRA remote control unit Functions for wash basin taps up to 07/03



Constant On/Brief Off switching via remote control unit



Select function

Activate with buttons End "Constant On"

End "Brief Off"





Autoset Sensor range adjustment



Select function,

activate with button









Alteration of sensor range



Select function,

press buttons for step-by-step change Check the altered sensor range!



Alteration of dwell time

Basic setting approx. 9 sec.



Select function

Press buttons for 7 to 20 sec.

change

Check the altered dwell time!



Alteration of water running time

Basic setting approx. 7 sec.



Select function,

press buttons for 0 to 15 sec. change Check the altered water running time!



HANSACOBRA remote control unit Functions for urinal taps



Restoration of basic setting

Select function, press button to obtain factory-defined basic setting

Tap flashes 10 x!





Test mode Normal function is disabled, sensor eye lights on detecting an object



Select function,

activate with button



MURANO E

Fault	Cause	Remedy
No flow of water	Angle valves closed Angle valves/dirt trap clogged Hoses twisted/kinked Solenoid valves soiled / defective	Open angle valves Clean angle valves/dirt traps Connect hoses properly Clean/check dirt traps at solenoid valve
	Flow limiter clogged Battery flat/defective Battery incorrectly inserted	Clean flow limiter Replace battery Check battery polarity and insert battery correctly
	Sensor/solenoid valves not connected	Check and if necessary make sensor/solenoid valve connections
	Cleaning mode active (beep every 3 sec.)	Terminate cleaning mode or wait 3 min.
	Sensor cables interchanged Water in sensor connector	Re-connect sensor cables Dry connector
	Electrically conductive film on sensor cover	Clean sensor cover, apply water- repellent film
	Sensor cable defective or damaged Electronics defective	Replace electronics/tap Replace electronics
Constant flow of water	Solenoid valve defective Excessively high water run-on time setting	Check solenoid valves Shorten water run-on time
Tap switching automatically	Disturbance pulse Poor/no earth connection	Clean sensor surfaces Check/make earth connection
Insufficient flow of water	Insufficient supply pressure Angle valves not open far enough Angle valves/dirt trap clogged Non-return valves defective Flow limiter defective Solenoid valve defective	Check supply pipe Open angle valves further Clean angle valves/dirt traps Replace non-return valves Replace flow limiter Check solenoid valves
No acoustic signal on inserting battery?	Battery inserted at an angle Battery defective Electronics defective	Take out battery, wait 2 min., then insert again Check/replace battery Replace electronics

Fault	Cause	Remedy
No acoustic signal Change in run-on time or cleaning mode setting?	Sensor defective Sensor wire defective Incorrect operation Electronics defective Touching rhythm too fast or too slow	Check sensors Check sensor wire and connectors Observe operating manual Replace electronics Change rate of touching sensor. Touch evenly
Tap dripping?	Solenoid valve soiled Solenoid valve incorrectly installed	Clean solenoid valve Install solenoid valve correctly
Formation of lime scale on glass dish?	Hard water	Clean tap
Water temperature cannot be adjusted?	Problem with water supply Solenoid valve not switching Dirt traps soiled Mixing cartridge defective Temperature control lever broken	Check cold and hot water supply Check solenoid valves Clean dirt traps Replace mixer cartridge Replace temperature control lever
Control lever stiff?	Mixing cartridge defective	Replace mixer cartridge
Tap only comes on after touching secondary sensor?	Sensor wire interchanged	Check sensor wires After replacing sensor wires: Take out battery / wait briefly, then re-insert
Adjustment mode (water running time) cannot be activated?	No flow of water prior to start of adjustment action Sensor wire defective Incorrect operation Electronics defective Touching rhythm too fast or too slow	Start flow of water, then adjust Check sensor wire and connectors Observe operating manual Replace electronics Change rate of touching sensor. Touch evenly
Tap constantly emitting 3 acoustic signals?	Battery: Voltage < 5 V	Replace battery
Acoustic signal very quiet	Protective sheet on signal generator (next to battery compartment)	Remove protective sheet

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Function



HANSAMURANO E Function / Automatic - Manual

Temperature adjustment at temperature control lever (5) (secondary sensor)

A Automatic

Proximity switch-on. Switch-off after a pre-set time (between 5 and 30 sec.).

B Manual

Switch-on by touching sensor plate. Switch-off by touching sensor plate again.

or

Proximity switch-on and switch-off (approx. 2 to 5 cm above sensor plate).




HANSAMURANO E Function / Cleaning mode: Shut-off of tap for cleaning (3 minutes):

Activation:

Do not actuate the tap, water must not flow

Touch the secondary sensor 4 x. When doing so move the finger out of the sensor range each time and then touch again - an acoustic signal sounds. Touching the main sensor activates the cleaning mode. Confirmation is provided by a short signal.

The setting is stored by touching the secondary sensor. A long signal sounds.

An acoustic signal sounds every 3 sec. during shut-off.

Deactivation:

Repeating the setting operations terminates the rest time.

Procedure for removing lime scale residue from Permatec surfaces (e.g. Murano plate)

1. Prepare an approx. 1% citric acid solution (available in shops as lime scale remover, possible alternative freshly squeezed lemon juice; Caution: Keep citric acid solution away from the eyes or open wounds, rinse off from the skin with water!).

2. Place part of a paper handkerchief or tissue paper on the affected area.

3. Apply drops of citric acid solution to the affected area (the purpose of the tissue paper is to stop the solution running off the affected area).

4. Leave for approx. 30 minutes. Do not allow to dry on (add more if necessary).

5. After approx. 30 minutes remove the tissue paper and wipe over gently with the damp paper if necessary but never rub vigorously with a dry paper tissue or the like.

6. Rinse the treated area with water prior to re-use.

Repeat steps 2-5 several times if necessary if lime scale deposits are still visible.

Never use highly acidic lime scale removers containing hydrochloric acid, phosphoric acid or the like!

Never attempt to scratch off or scour lime scale deposits!







HANSAMURANO E Function / Setting water run-on time

Actuate the tap, water flows.

Touch the secondary sensor 4 x, move the finger approx. 5 cm to move out of the sensor range - an acoustic signal sounds. The flow of water stops.

Touching the main sensor sets the run-on time.

Each touch extends the run-on time by 5 seconds (up to max. 30 seconds).

On the 7^{th} touch, the run-on time starts again at 5 seconds.

The setting is stored by touching the secondary sensor. An acoustic signal sounds.



HANSAMURANO E Battery replacement

Slacken off the bolts (1) and remove the battery compartment cover.

Battery check:

A drop in battery voltage to below 5 V is indicated by 3 constant acoustic signals. Only 1 acoustic signal sounds if the voltage is adequate.

Replace the battery (**2**). Pay attention to installation position.

Close the cover.



HANSARONDA STYLE electronic

Fault	Cause	Remedy
Problem / fault	Possible cause	Remedy
No flow of water Sensor flashing	Black object "Long-term Off" activated Angle valves closed Backflow preventer/dirt trap clogged Sensor soiled/dirty Reflection (autom. water stop after	Sensor does not recognise black Terminate "Long-term Off" Open angle valves Clean backflow preventer/dirt trap Clean/uncover sensor Remove object or "Autoset"
	one min. constant flow) Battery flat/defective Battery incorrectly inserted	Replace battery Insert battery correctly
Constant flow of water	Reflection at wash basin Power cut during flow of water Solenoid / diaphragm defective	"Autoset" Re-establish power supply Replace solenoid
Tap switching automatically	Sensor soiled Reflection at wash basin	Clean sensor "Autoset"
Insufficient flow of water	Insufficient supply pressure S-connection not open far enough Dirt trap clogged Perlator clogged Non-return valves defective Flow limiter	Check supply pipe Open S-connection further Clean dirt trap Clean/replace Perlator Replace non-return valves Remove flow limiter
Flashing during flow of water	Battery flat	Replace battery
Tap dripping	Solenoid / diaphragm defective	Replace solenoid
Incorrect water temperature	Problem with water supply	Check water supply
HANSACONTROL does not react	Incorrect operation Button defective	Refer to operating manual Replace electronics



Notes on programming

Press the control button slowly and evenly - if the control button has to be pressed several times in succession, leave a distinct pause each time after pressing.

Water flows whilst making the settings. Unscrew the spray head if necessary and replace with a hose. Flashing pulses and/or flow of water during programming are normal.

Take care when using tools to actuate the function button (risk of damage).

Do not reach into the sensor range during calibration!

HANSARONDA STYLE electronic "HANSA Control"

All HANSARONDA style models are provided with a HANSACONTROL button. This unique button makes the tap versatile and even more convenient to use.

Cleaning mode (refer to page 337) Temporary interruption of water flow (interval). For convenient cleaning of tap and wash basin. Can be terminated at any time by pressing button or automatically (after 2 min.).

Constant On (refer to page 337) Constant flow of water. For filling wash basin, containers, etc. Can be terminated at any time by pressing button or automatically (after max. 2 min.).

Programming water running time (refer to page 339) "Constant On" setting (1-20 min.)

24-hour hygiene flushing (refer to page 341) Flushing 24 hours after last use. Permanently set flushing time 5 seconds.

Setting water run-on time (refer to page 341) The water run-on time can be set as required (running time approx. 0.5 - 4 seconds).

Autoset - automatic calibration (refer to page 343) Available for all Hansa taps. The sensor range is automatically set to the wash basin. Ensures maximum convenience and stops the tap running automatically.

Manual setting of sensor range (refer to page 345) The sensor range can be set manually to the wash basin. Ensures maximum convenience and stops the tap running automatically.





HANSARONDA STYLE electronic "Cleaning mode" function

Brief Off

Temporary interruption of water flow (interval). For convenient cleaning of tap and wash basin. Can be terminated at any time by pressing button or automatically (after 2 min.).

Setting:

Press the control button 2 x The tap flashes 3 x as confirmation and the flow of water stops (max. 2 minutes).

Press the control button 1 x - water starts to flow.

HANSARONDA STYLE electronic "Constant On" function

Constant On

Constant flow of water. For filling wash basin, containers, etc. Can be terminated at any time by pressing button or automatically (after max. 2 min.).

Setting:

Press the control button for 3 seconds. The tap flashes 2 x as confirmation and the water starts to flow (factory pre-setting: approx. 2 min.).

Termination: Press the control button 1 x - the flow of water stops.

If the water running time setting has been altered, the tap flashes in line with the running time set (e.g. 5 x = 5 minutes).



HANSARONDA STYLE electronic Programming "Constant On" water running time

Programming water running time

"Constant On" setting (1-20 min.)

Activation:

Press the control button 1 x 3 seconds. The tap flashes as confirmation. Press and hold the control button. After approx. 5 sec. the tap starts to flash.

Each flashing pulse extends the water running time by 1 minute

Example: 5 x flashing, then release = 5 minutes water running time

1 x flashing	=	1 min. water running time
2 x flashing	=	2 min. water running time
3 x flashing	=	3 min. water running time
	-	
	-	
	-	
19 x flashing	=	19 min. water running time
20 x flashing	=	20 min. water running time

On release, the time set is indicated by flashing pulses. $5 \times \text{flashing} = 5 \text{ minutes}.$

The tap starts to flash (the number of flashing pulses indicates the programmed water running time). After the last flashing pulse, press the control button. The setting time starts after 5 seconds.




HANSARONDA STYLE electronic "Hygiene flushing" function

24-hour hygiene flushing

Flushing 24 hours after last use. Permanently set flushing time 5 seconds.

Activation:

Press the control button for 24 seconds. The tap flashes 2 x as confirmation and the water starts to flow (4 seconds).

Deactivation:

Press the control button for 24 seconds. The tap flashes 5 x as confirmation.

HANSARONDA STYLE electronic "Water run-on time" function

Set the water run-on time. The water run-on time can be set as required (running time approx. 0 - 4 sec.).

Setting:

Press the control button for 5 seconds. The tap flashes 1 x as confirmation.

Press the control button again 1 x and keep it pressed for 0 to 4 seconds. The water run-on time is set to 0 to 4 seconds.

Release the control button, the tap flashes 1 x as confirmation.



HANSARONDA STYLE electronic Autoset

Autoset - automatic calibration

Available for all Hansa taps. The sensor range is automatically set to the wash basin. Ensures maximum convenience and stops the tap running automatically.

Setting:

Briefly press the control button 2 x The tap flashes 3 x as confirmation.

Press the control button for 10 sec.

The tap flashes 4 x (wait 10 sec.).

The water starts to flow (4 sec.).

Wait a further 20 sec.

The tap is ready for operation.

Attention!

Do not reach into the sensor range.





HANSARONDA STYLE electronic Manual setting of sensor range

The sensor range can be set manually to the wash basin. Ensures maximum convenience and stops the tap running automatically.

Setting

Press the control button 2 x and 1 x 5 seconds. The tap flashes 4 x as confirmation (wait 5 sec.).

The sensor range can now be set:

1 x press = range 1

- 2 x press = range 2
- 3 x press = range 3
- 4 x press = range 4
- 5 x press = range 5
- 6 x press = range 6

7 x press = range 1

The water starts to flow (4 sec.).

Wait a further 10 sec.

The tap is ready for operation.











HANSARONDA STYLE electronic Battery replacement

Shut off the water at the S-connection (2.5 mm) or mask the sensor. Slacken off the 2 mm bolt (1) and open the battery compartment (2).

Replace the battery (**3**) (6 V lithium, DL 223 A or CR-P2P), paying attention to correct polarity (**4**). Order no.: 59 912 443 Close the battery compartment (**5**) again, tighten the 2 mm bolt and turn on the water or remove the masking tape from the sensor.

Wait 20 seconds, the tap switches automatically to standby.

Check operation (6).



HANSARONDA STYLE electronic Temperature limitation (anti-scald stop)

Temperature setting: Variable

Slacken off the 3 mm knob bolt and lift off the temperature selector knob (1).

Detach the stop ring (**2**) and turn to set the required water temperature.

Re-attach the stop ring.

Attach the temperature selector knob and tighten the knob bolt (3 mm) ($\mathbf{3}$).





Fixed setting



HANSARONDA STYLE electronic Fixed temperature setting

Variable (factory setting)

The outlet temperature required can be set at the temperature selector knob (**2**).

Factory setting for anti-scald stop: Not active The hot water temperature can be limited by adjusting the stop ring.

Fixed setting (conversion)

Slacken off the 3 mm knob bolt and detach the temperature selector knob (1).

Set the desired water temperature (2).

Detach the stop ring (**3**) (anti-scald stop) and fit the locating ring provided instead (**4**). Order no.: 59 912 920

Attach the temperature selector knob and tighten the 3 mm knob bolt (**5**).



HANSARONDA STYLE electronic Wash basin electronic wall mixer tap

Fault

- I No cold, hot or mixed water flow.
- II Reduced flow of water.
- III Cold water runs hot or vice versa.

Cause

- I Aerator/strainer seal clogged.
- II Dirt traps/backflow preventer clogged.
- III Backflow preventer defective.

Remedy

- I Unscrew and clean the aerator (e.g. diluted vinegar) or completely replace.
- II-III Shut off the water at the S-connection (2.5 mm) (1). Use a 30 mm open-ended spanner to remove the tap. Clean/replace the dirt traps (2).
 Seal with strainer: Order no. 59 911 076
 Remove the securing nipple by turning anti-clockwise with a 12 mm Allen key (3).
 Replace the backflow preventer (4). Install in reverse order.

Attention!

When re-installing the backflow preventer, pay attention to the direction of flow and then turn on the cold/hot water.





HANSADESIGNO HANSAMIX Electronic (E); Solar (S); Tiptronik (T)

Fault	Cause	Remedy
Problem / fault	Possible cause	Remedy
No flow of water	Black object "Long-term Off" activated Angle valves closed Angle valves/dirt trap clogged Hoses twisted/kinked Sensor soiled/dirty	Sensor does not recognise black Terminate "Long-term Off" Open angle valves Clean angle valves/dirt trap Connect hoses properly Clean/uncover sensor
Sensor flashing	Reflection (autom. water stop after one min. constant flow)	Remove object or "Autoset"
With battery operation only	Battery flat/defective	Replace battery
With mains operation only Sensor constantly lit	Battery incorrectly inserted Power failure Break in power supply Brief power cut	Insert battery correctly Check power supply Check cable/connection Unplug power supply unit for 10 sec.
Constant flow of water	Reflection at wash basin Power cut during flow of water Hoses incorrectly fitted Solenoid / diaphragm defective	"Autoset" Re-establish power supply Connect hoses properly Replace solenoid
Tap switching automatically	Sensor soiled Reflection at wash basin	Clean sensor "Autoset"
Insufficient flow of water	Insufficient supply pressure Angle valves not open far enough Angle valves/dirt trap clogged Perlator clogged Non-return valves defective Flow limiter	Check supply pipe Open angle valves further Clean angle valves/dirt trap Clean/replace Perlator Replace non-return valves Remove flow limiter
Flashing during flow of water	Flashing during flow of water	Replace battery
Tap dripping	Expansion in boiler (low-pressure tap only) Solenoid / diaphragm defective	None, normal with boiler Replace solenoid
Incorrect water temperature	Angle valves/dirt trap clogged Problem with water supply	Clean valve and dirt traps Check water supply
HANSACONTROL does not react ("Komfort" models only)	Incorrect operation Button defective	Refer to HANSACONTROL operating manual Customer service







HANSADESIGNO E S T HANSAMIX E S T

Fault

- I No cold, hot or mixed water flow.
- II Reduced flow of water.
- III Cold water runs hot or vice versa.

Cause

- I Aerator clogged.
- II Dirt traps/backflow preventer clogged.
- III Backflow preventer defective.

Remedy

- I Unscrew the aerator (1) and clean (e.g. diluted vinegar) or completely replace.
- II-III Shut off the water.Clean the dirt traps (2).Disassemble the tap, remove the connecting hose.Replace the backflow preventer (3).Install in reverse order.

Attention!

When re-installing the backflow preventer, pay attention to the direction of flow and then turn on the cold/hot water externally.



HANSADESIGNO E S T HANSAMIX E S T Battery replacement

Shut off the water or mask the sensor. Slacken off the 2 mm bolt (**1**) and remove the cap (**2**).

Replace the battery (**3**) (6 V lithium, DL 223 A or CR-P2P), paying attention to correct polarity (**4**). Fit the cap (**2**). Tighten the 2 mm bolt. Turn on the water or remove the masking tape from the sensor.

Wait 20 seconds. The tap switches automatically to standby.

Check operation.

In the case of Solar and Tiptronik take care not to damage the cable!



HANSADESIGNO E S T HANSAMIX E S T Replacing M 28 x 1 solenoid

Shut off the water and mask the sensor. Slacken off the 2 mm bolt (1) and detach the cover (2). Unplug the connector (3). Remove the battery (4). Slacken off the 2 mm bolt and lift off the battery holder (5). Use a screwdriver / Allen key, 6 mm to screw out the solenoid (6).

Replace the M 28 x 1 solenoid. Order no.: 59 912 240. Assemble in reverse order. Turn on the water, remove the masking tape from the sensor.

Wait 20 seconds. The tap switches automatically to standby (7).

Check operation.


HANSADESIGNO E S T HANSAMIX E S T Disassembling temperature control plug

Shut off the water or mask the sensor. Slacken off the 2 mm bolt and detach the cover. Remove the battery if necessary. Slacken off the 2 mm bolt and lift off the battery holder.

Slacken off the M 4 bolt (1) and pull out the temperature control plug (2) to the right.

Clean and grease the plug (order no.: 59 901 040). If cleaning is not successful, replace the plug. Order no.: 59 912 446. Assemble in reverse order. Turn on the water or remove the masking tape from the sensor.

Wait 20 seconds. The tap switches automatically to standby (**3**).

Check operation.



HANSADESIGNO Tiptronik (T) HANSAMIX Tiptronik (T) Position of sensor / electrical connections

- 1 Cover / button with electronics
- 2 Battery holder
- 3 Connector between button and solenoid with diaphragm
- 4 Solenoid with diaphragm
- 5 Temperature control plug
- 6 Battery



HANSADESIGNO electronic (E) HANSAMIX electronic (E) Position of sensor / electrical connections

- 1 Cover
- 2 Battery holder and battery
- 3 Connector between sensor and solenoid with diaphragm
- 4 Sensor
- 5 Solenoid with diaphragm
- 6 Power supply unit
- 7 Power supply unit/sensor connector



HANSADESIGNO electronic (S) HANSAMIX electronic solar (S) Position of sensor / electrical connections

- 1 Cover with photovoltaic cells
- 2 Battery holder and battery
- 3 Connector between sensor and solenoid with diaphragm
- 4 Sensor
- 5 Solenoid with diaphragm
- 6 Solar connector





HANSADESIGNO E S T HANSAMIX electronic E S T Fixed temperature setting

The factory setting for the outlet temperature is "variable".

A fixed outlet temperature can be set by removing the ever.

HANSAMIX To do so detach the cap. Set the desired outlet temperature, slacken off the 2 mm bolt. Detach the lever and put it in a safe place. Fit the cap.

HANSADESIGNO

Slacken off the 2 mm bolt

(hold the lever whilst doing so to avoid altering the temperature setting). Detach the lever.

Slacken off the 2 mm bolt, lift off the cover, take the cap out of the cover and attach, fit the cover again.

Designo:	The cap (1) is located in the cover of the tap (2).
Mix:	Detach the cap from the lever. Put the lever in a safe place.



HANSADESIGNO electronic E S T HANSAMIX electronic E S T Hot water temperature limitation

Factory setting: Temperature limitation not active

Slacken off the 2 mm bolt. Detach the cover and remove the battery if necessary. Use a screwdriver or 2 mm Allen key to set the desired water temperature. The temperature control lever moves when doing so (anti-clockwise = colder).

ATTENTION!

Use the rear bolt for setting the temperature limitation!

Assemble in reverse order. Wait 20 seconds. The tap switches automatically to standby.

Check operation.





HANSADESIGNO E S HANSAMIX electronic E S "Cleaning mode" function

Brief Off

Temporary interruption of water flow (interval). For convenient cleaning of tap and wash basin. Can be terminated at any time by pressing button or automatically (after 2 min.).

Setting:

Press the control button 2 x. The tap flashes 3 x as confirmation and the flow of water stops (max. 2 minutes).

Press the control button 1 x - water starts to flow.

HANSADESIGNO E S HANSAMIX electronic E S "Constant On" function

Constant On

Constant flow of water. For filling wash basin, containers, etc. Can be terminated at any time by pressing button or automatically (after max. 2 min.).

Setting:

Press the control button for 2 seconds. The tap flashes 2 x as confirmation and the water starts to flow (max. 2 minutes).

Termination:

Press the control button $1 \times -$ the flow of water stops.



HANSADESIGNO E S HANSAMIX electronic E S Programming "Constant On" water running time

Programming water running time

"Constant On" setting (1-20 min.)

Activation:

Press the control button 1 x 3 seconds. The tap flashes as confirmation. Press and hold the control button, after approx. 5 sec. the tap starts to flash.

Each flashing pulse extends the water running time by 1 minute

Example: 5 x flashing, then release = 5 minutes water running time

1 x flashing	=	1 min. water running time
2 x flashing	=	2 min. water running time
3 x flashing	=	3 min. water running time
-	-	-
-	-	-
-	-	-
19 x flashing	=	19 min. water running time
20 x flashing	=	20 min. water running time

On release, the time set is indicated by flashing pulses: $5 \times \text{flashing} = 5 \text{ minutes}$

The tap starts to flash (the number of flashing pulses indicates the programmed water running time). After the last flashing pulse, press the control button. The setting time starts after 5 seconds.



HANSADESIGNO E S HANSAMIX electronic E S Water run-on time

The water run-on time can be set as required (running time approx. 0 - 5 sec. Factory setting: 1 sec.). Software version 2.16

Setting:

Press the control button for 6 seconds. The tap flashes 1 x as confirmation.

Press the control button again 1 x and keep it pressed for 0 to 6 seconds.

The water run-on time is set to 0 to 6 seconds.

Release the control button, the tap flashes 1 x as confirmation.





The brochure **"Bath and Shower"** also contains useful information.

HANSACANYON

Fault	Cause	Remedy
No flow of water?	Angle valves closed Angle valves/dirt trap clogged Hoses twisted/kinked Solenoid valves soiled / defective Flow limiter clogged	Open angle valves Clean angle valves/dirt traps Connect hoses properly Clean/check dirt traps at solenoid valve Clean flow limiter
No power		Check power supply
Constant flow of water	Problem with power supply/socket Power supply unit defective Solenoid valve connection not made Water in sensor connector Connecting lead / connector between	Check power supply and socket Replace power supply unit Check and if necessary make solenoid valve connection Dry connector Replace the corresponding assembly
	keypad and el. mixer defective or damaged "On" button defective / sticking Electronics defective Solenoid valve defective	Check and if necessary replace "On" button Replace electronics Check solenoid valves
Insufficient flow of water?	Insufficient supply pressure Angle valves not open far enough Angle valves/dirt trap clogged Non-return valves defective Flow limiter Solenoid valve defective	Check supply pipe Open angle valves further Clean angle valves/dirt traps Replace non-return valves Replace flow limiter Check solenoid valves
Flashing red spout il- lumination and no flow of water? Water temperature cannot be adjusted?	Problem with water supply or little difference in temperature between hot and cold water supply pipe Dirt traps soiled Mixer cartridge defective Electric drive defective Electronics defective Control button sticking Sensing element defective	Check water supply Clean dirt traps Replace mixer cartridge Check electric drive Check electronics Check control button for freedom of movement Replace entire control element
No spout illumination, no water Spout illumination on,	Incorrect electrical connection Solenoid valve defective	Check electrical connection Green illumination of electronics unit if OK Replace solenoid valve
Tap dripping	Solenoid valve soiled Solenoid valve incorrectly installed Tap body tilting forwards	Replace entire control element Clean solenoid valve Install solenoid valve correctly Align tap by way of tilting flange
Formation of lime scale on glass lip / tap?	Hard water	After use, clean tap and drip rim at glass lip and rub dry



Attach the seal (1) to the shank of the tap. Pay attention to the installation position! Remove the ferrite core (2) on the underside of the tap. Position the tap on the wash basin. Take care not to damage the cable!

Guide the control cable (**3**) through the seal, thrust washer, tilting flange and nut and secure.

Align the tap (**5**): To do so, turn the 3 mm bolts at the tilting flangein the required direction (tightening the bolts aligns the tap).

Tighten the 30 mm nut (6).

Clip the ferrite core (**4**) back on after securing the tap. Check the flow regulator (4 l/min.) (**7**).

Important note on alignment!

The bolts press directly onto the ceramic surface. Excessive tightening could cause damage!

If, due to the fact that the ceramic surface is not flat (production-related), the tap is set at too much of an angle, alignment must be performed!

A = Seal
B = Thrust washer
C = Tilting flange
D = Nut



HANSACANYON wash basin tap installation

Screw the flange for attaching the control block by approx. 8 - 12 mm (**7**) (corresponds to roughly 5 turns) onto the base of the tap.

Use 2 hexagon socket head bolts (3 mm) to secure the control block (8).

Plug in the connectors (9).

Connect the 19 mm connecting hoses (**10**) with angle valves. Pay attention to the strainers when doing so (strainer acts as seal).

Establish the water and power supply. Check operation.









HANSACANYON wash basin Cleaning strainers

Fault

Reduced flow of water.

Cause

- I Strainers clogged.
- II Strainers in pressure hose clogged.
- III Solenoid valve and flow limiter.

Remedy

- Remove the cover (1).Pull out the strainer (2) with a bushing extractor and clean.Pay attention to the installation position (weld to rear).
- II Unscrew the 19 mm pressure hoses.
 Take out the dirt traps and clean (3)
 (e.g. diluted vinegar) or completely replace.
- III Clean the solenoid with diaphragm.
 Remove the control block, clean the restrictor (4) or replace.
 Re-install the control block.

Perform cleaning regularly:

Apply "UNIPOL" cleaning agent to a cloth (5).

Spread evenly over the glass lip (6+7) and allow to take effect.

Use a soft cloth to remove residue from the glass lip (6+7).



HANSACANYON wash basin Replacing solenoid with diaphragm

Shut off the water supply. Unplug the solenoid connector. Screw out (17 mm) the solenoid (**1**) and replace. Order no.: 59 912 947

Assemble in reverse order. Turn on the water.

Check operation.



HANSACANYON wash basin Replacing control motor

Fault

Outlet temperature does not change.

Cause

- I Problem with water supply (external).
- II Control motor defective.
- III Upper section defective.

Remedy

- I Check water supply Shut off the water supply. Unplug the connector. Remove the 2 mm bolts (**1**).
- II Detach and replace the control motor $(\mathbf{2})$.
- III Unscrew the 27 mm union nut.

Take out and replace the upper section $(\mathbf{3})$.





HANSACANYON wash basin Functions (firmware version 5.0)



Real temperature display (firmware version 5.0)

Water temperature		Display
< 15 °C	< 59 °F	blue
15 - 45 °C	59 - 113 °F	9-segment display
> 45 °C	> 113 °F	red

On renewed switch-on, the temperature last set is displayed.



HANSACANYON wash basin settings Cleaning mode (firmware version 5.0)

Set tap to cleaning mode:

Press and hold the temperature setting button for 5 sec. (1).

The tap starts to flash.

ON/OFF button: Press 1 x ON (2) and 1 x OFF (3).

The tap is in cleaning mode for 600 sec. (10 min.) (the white light is on during this period).

After 570 sec. (9 min. 30 sec.) the tap starts to flash. The cleaning mode is terminated after 600 sec.

Press the temperature setting button for 5 sec. (1), the tap starts to flash. ON/OFF button: Press 1 x ON (2) and 1 x OFF (3). Cleaning mode is terminated.

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Shut off the water supply externally (1). Cut open the cleaning cover flush with the tiles (2). Slacken off the 4 mm bolts (3). Press off the flushing block (5) by screwing in the 4 mm pressing-off screw (4) and then remove and dispose of the block. Pull the backing sheet off the sealing strip and bond on. Press on the seal (6).




Taking care not to damage the O-rings, insert the valve block (**1**) and secure with 4 mm bolts (**2**). Pull the backing off the velcro strip (**3a**) and affix the electronics (**3b**) to the valve block. Plug in the 12 V power supply connector (**4**). Plug in the connectors of the solenoid valves (**5**).



Connectors

- 1 Left solenoid valve
- 2 Right solenoid valve
- 3 Mixer motor connection

- 4 12 V power supply
 5 Temperature sensor
 6 Mixer motor earth
 7 Front panel earth
 8 Lighting control A, (5-pin)
 9 Lighting control B, (5-pin, plugged)



Screw (17 mm) the telescopic connection (**5a**) into the front panel and attach the telescopic block to the telescopic rod (**5b**)! Grease the telescopic rod! Connect the 12 V power supply connector (**6**) and the earth cable to the front panel. Attach the centring aids (**7**) to the securing lug and tighten the front panel slightly using 4 mm M 6 x 90 bolts (**8**).

Check operation.

Align first before tightening!





HANSACANYON concealed

On completion of functional test:

Align the front panel (9) and tighten the 4 mm bolts (8).

Position the cover plate (**10**) from underneath at an angle, fit in position and secure with 2.5 mm bolts (**11**).



HANSACANYON concealed

To remove the flushing block, slacken off the 4 mm bolts (1) and press out by screwing in the pressing-off screw (2). Take out and dispose of the flushing block.

Grease the telescopic connection (**3**) and assemble. This operation must be performed before fitting the valve block as otherwise assembly is not possible.

Insert the valve block (4). When doing so, take care not to damage the O-rings and secure with the 4 mm bolts (5).

Then screw (17 mm) the telescopic connection to the valve block (**6**).



HANSACANYON concealed Replacing control motor

Fault

No change in temperature.

Cause

- I Control motor defective.
- II Upper section defective.

Remedy

Remove the complete assembly set. Shut off the water supply. Unplug the connection and detach the electronics. Remove the 2 mm bolts (**1**).

Unfasten and take out the valve block (1).

I Detach and replace the control motor (2).

II Unscrew the 27 mm union nut. Take out and replace the upper section (**3**).

Assemble in reverse order.







HANSACANYON concealed Replacing solenoid with diaphragm Checking backflow preventer

Shut off the water supply. Disassemble the complete assembly set. Unplug the connector. Screw out the 17 mm solenoid (**1**) and replace. Order no.: 59 912 947 Slacken off the 4 mm bolts (**2**) and take out the valve block to the right. Clean or replace the backflow preventer (**3**).

Assemble in reverse order. Turn on the water.

Check operation.



Settings:

Re-start (refer to page 415)

Setting water running time (normal function) (refer to page 417)

The water running time can be set as required

(running time approx. 0.5 - 4 sec.).

Constant On: Triggering (refer to page 419)

Constant flow of water.

For filling wash basin, containers, etc.

Can be terminated automatically or at any time by pressing button (after max. 2 min.).

Constant On: Programming water running time (refer to page 419)

"Constant On" setting (1-20 min.)

Brief Off (refer to page 421)

Temporary interruption of water flow (interval).

For convenient cleaning of tap, shower etc.

Automatic termination (after 2 min.) or at any time by pressing button.

12/24-hour hygiene flushing (refer to page 423) Flushing 12/24 hours after last use.

Flushing 12/24 hours after last use.

Manual setting of sensor range (refer to page 425) The sensor range can be set manually to the wash basin. Ensures maximum convenience and stops the tap running automatically.

4180 / 4181 HANSAPUBLIC with control button Wash basin - electronic

Fault - Cause - Remedy			
Problem / fault	Possible cause	Remedy	
Flashing during flow of water	Battery flat	Replace battery	
No flow of water	Black object	Sensor does not recognise black	
Sensor flashing	Sensor soiled/dirty Reflection (autom. water stop after one min. constant flow)	Clean/uncover sensor Remove object or "Autoset"	
Constant flow of water	Reflection at wash basin Power cut during flow of water Valve defective Sensor soiled	"Autoset" Re-establish power supply Customer service Clean sensor	
Tap switching automatically	Reflection at wash basin Insufficient supply pressure	"Autoset" Check supply pipe	
Insufficient flow of water	Perlator clogged Non-return valves defective 4181	Clean/replace Perlator Replace non-return valves	
Tap dripping	Diaphragm soiled	Clean / replace solenoid	
Incorrect water temperature	Problem with water supply	Check water supply	
HANSACONTROL does not react	Battery flat/defective Battery incorrectly inserted Button defective Incorrect operation	Replace battery Insert battery correctly Replace electronics	
	and the second		





4180 / 4181 HANSAPUBLIC with control button Wash basin - electronic Start-up

Remove the sticker from the sensor eye.

Following initial object detection (usually on removing the sticker), water starts to flow and automatic sensor calibration starts at the same time. This process takes roughly 20 seconds. If the tap does not switch on after removing the sticker, briefly press the Hansa control button.

As soon as water starts to flow, move hand out of the sensor range. Wait - the sensor is adjusted automatically by the electronics, water flows for approx. 4-5 sec.

The tap switches off the water and is ready for operation after approx. 20 seconds.

Important: After initial switch-on, move hand immediately out of the sensor range so as not to influence calibration.

Autoset / re-start

Settings can be altered within 15 min. after re-start/start-up

Briefly press the control button 2 x, the LED flashes 5 x. Then press and hold 1 x 5 sec. - the LED flashes 4 x.

Wait 15 seconds (do not reach into the sensor range). Water flows for 4 seconds. Ambient calibration then commences. The process takes approx. 20 seconds. Do not reach into the sensor range during calibration.

The tap is then ready for operation.

• Press	# Flashing pulses	Setting water run-on time
1 x 5 sec.	2	Factory pre-setting approx. 1 sec.
B	0 sec. = 0 sec.	
	1 sec. = 1 sec.	
	2 sec. = 2 sec.	S OK
	3 sec. = 3 sec.	
1 x 0 sec 5 sec.	4 sec. = 4 sec.	
€	5 sec. = 5 sec.	4

4180 / 4181 HANSAPUBLIC with control button Wash basin - electronic

Water run-on time (normal function)

On - by putting hand in sensor range (approx. 1 - 25 cm)

Off - when hand is moved out of sensor range

(Water run-on time: Factory setting approx. 1 sec.)

Setting water run-on time (setting range 0 sec. to max. 5 sec.) Press 1 x 5 sec. Sensor flashes 1 x. Press 1 x and hold until the desired water run-on time has been attained.



• Press	Flashing pulses	Termination of Cons	stant On
Off			
		2	ΟΚ



4180 / 4181 HANSAPUBLIC with control button Wash basin - electronic

Triggering Constant On

Press 1 x 2-5 sec., LED flashes 4 x, water on.

For filling vessels.

Can be terminated at any time by pressing button Θ or automatically on completion of programmed time.

Press \odot 1 x for 2 - 5 sec. Confirmation of function 4 x $\clubsuit \rightarrow$ Water flows.

Termination of Constant On

Press 1 x, water stops.

If the water running time setting has been altered, the tap flashes in accordance with the set running time (e.g. 5 x = 5 minutes).

Programming Constant On

(Factory setting approx. 2 minutes) Setting range 1 min. to max. 20 min. Press 1 x for min. 2 sec. (max. 5 sec.).

Press 1 x 5 sec., LED starts to flash.

 $1 \times \text{flashing} = 30 \text{ sec. running time.}$

Each flashing pulse extends the running time by 30 seconds. Max 40 x flashing = 20 minutes running time

O Press	# Flashing pulses	Triggering Brief Off
On 2 x short	3 x •	approx. 2 min.

O Press	Flashing pulses	Termination of Brief Off
Off		
1 x		OK

4180 / 4181 HANSAPUBLIC with control button Wash basin - electronic Triggering Brief Off

For convenient cleaning of tap and wash basin / shower cubicle **On** - Press \odot 2 x **Off** - After pre-set time or press \odot 1 x

Press \odot 2 x Confirmation of function \rightarrow 3 x ***** (flashing pulse groups) (flashing signal is repeated during Brief Off running time)

(Factory setting approx. 2 minutes, cannot be altered.)

4	2	2

O Press	# Flashing pulses	12 / 24-hour hygiene flushing
1 x 24 sec.		12 / 24 h active
	1 x * off 2 x * on, 12 h (short) 3 x * on, 24 h (short)	12 / 24 h inactive
	4 x ⇔ on, 12 h (long) 5 x ⇔ on, 24 h (long)	
0	Flushing time = Constant	Ø

4180 / 4181 HANSAPUBLIC with control button Wash basin - electronic

12 / 24-hour hygiene flushing

The tap flushes automatically if it has not been used for more than 12 or 24 hours. This discharges stagnant water and stops the odour trap drying out. (Factory setting: Function not activated)

The number of flashing signals indicates the hygiene flushing setting.

E.g. (release after 3^{rd} flash = 24 hours, short)

Activating/deactivating hygiene flushing Press \odot 1 x and hold for 24 sec. After approx. 5 sec. 1 x $\circledast \rightarrow$ after approx. 10 sec. 6 x \circledast continue

holding Θ , after approx. 24 sec. the flashing signals commence.

 $1 \times \textcircled{}{} \rightarrow \text{Deactivated}$

- 2 x \Rightarrow On \rightarrow 12 hours after last use (flushing time: short)
- 3 x $\clubsuit \rightarrow$ On \rightarrow 24 hours after last use (flushing time: short)

 $4 \times \oplus \rightarrow On \rightarrow 12$ hours after last use (flushing time: long) $5 \times \oplus \rightarrow On \rightarrow 24$ hours after last use (flushing time: long)





4180 / 4181 HANSAPUBLIC with control button Wash basin - electronic Manual setting of sensor range

The sensor range can be set manually to the wash basin / surroundings. This ensures maximum convenience and stops the tap running automatically.

Setting

Press the control button $2 \times and 1 \times 5$ seconds. The tap flashes $4 \times as$ confirmation (wait 5 sec.).

The sensor range can now be set:

1 x press = range 1

- 2 x press = range 2
- 3 x press = range 3
- 4 x press = range 4
- 5 x press = range 5
- 6 x press = range 6
- 7 x press = range 7
- 8 x press = range 8

9 x press = range 1

Wait a further 15 sec.

The water starts to flow (4 sec.).

The tap is ready for operation.



Settings:

Autoset / re-start (refer to page 429)

For making settings

Normal function: Setting water running time (refer to page 429) The water running time can be set as required (running time approx. 2 sec. - 120 sec.)

Constant On: Programming water running time (refer to page 431) "Constant On" setting Constant flow of water (1 min. - 20 min.). For filling vessels etc. Can be terminated at any time by pressing button or automatically (after max. 20 min.).

Brief Off (refer to page 431)

Temporary interruption of water flow (interval). For convenient cleaning of tap, shower etc. Can be terminated automatically or at any time by pressing button (after 2 min.).

24-hour forced flushing (refer to page 433)

Flushing 24 hours after last use.

Permanently set flushing time 5 seconds.

Sensor range

The sensor functions in the range 0 - 5 cm (proximity sensor).

4190 HANSAPUBLIC with control button Shower - electronic

Fault - Cause - Remedy			
Problem / fault	Possible cause	Remedy	
No flow of water	Black object	Sensor does not recognise black	
Sensor flashing	Sensor soiled/dirty Reflection (autom. water stop after one min. constant flow)	Clean/uncover sensor Remove object or "Autoset"	
No HANSACONTROL button function	Battery flat/defective Incorrect battery polarity Incorrect operation Button defective	Replace battery Make proper connection Replace electronics	
Flashing during flow of water	Battery flat Insufficient battery voltage	Replace battery Replace battery	
Constant flow of water	Reflection Power cut during flow of water Solenoid / diaphragm defective Sensor soiled	"Autoset" Re-establish power supply Clean / replace solenoid Clean sensor	
Tap switching automatically	Reflection Insufficient supply pressure	"Autoset" Check supply pipe	
Insufficient flow of water	Spray head / Perlator clogged Strainers/non-return valves defective (operating unit)	Clean / replace spray head/Perlator Clean / replace strainers/non-return valves	
Tap dripping	Diaphragm soiled	Clean / replace solenoid	
Incorrect water temperature	Problem with water supply Control element incorrectly adjusted/defective	Check water supply Adjust/replace control element	
Settings cannot be programmed		Implement re-start	

42	8
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• Press	Flashing pulses	Function: Autoset/re-start
2x		
0		
1 x 5 sec.		ОК
2		3



4190 HANSAPUBLIC with control button Shower - electronic Autoset / re-start

Detach label, press • 1 x briefly in sensor range - start of calibration Do not reach into sensor range during calibration (approx. 20 sec.)!

Note:

Settings can only be made within 15 minutes after re-start / start-up.

Re-start (for making settings): Briefly press \odot 2 x, then press \odot 1 x for 5 sec.

4190 HANSAPUBLIC with control button Shower - electronic

Normal function (flow of water)

Hand in sensor range triggers flow of water/stops flow of water

On - by putting hand briefly in sensor range (0 - 5 cm)

Off - after pre-set time

or by putting hand briefly in sensor range

(Factory setting approx. 45 sec.)

Setting duration of water flow

(setting range 2 sec. to max. 120 sec.) Press \odot 1 x for 5 sec. until \clubsuit 1 x \rightarrow release Press \odot 1 x and hold until desired water run-on time has been attained.

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430
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O Press	Flashing pulses	Termination of Constant On
off 1 x 0		OK 9



4190 HANSAPUBLIC with control button Triggering Constant On

For filling vessels.

Can be terminated at any time by pressing button \odot or automatically on completion of programmed time.

Press 1 x 2-5 sec., LED flashes 4 x, water on

Termination of Constant On

Press 1 x, water stops.

If the water running time setting has been altered, the tap flashes in accordance with the set running time (e.g. $5 \times = 5$ minutes).

Programming Constant On

(Factory setting approx. 2 minutes) Setting range 1 min. to max. 20 min. Press 1 x for min. 2 sec. (max. 5 sec.). Press 1 x 5 sec., LED starts to flash, 1 x flashing = 60 sec. running time. Each flashing pulse extends the running time by 60 seconds. Max 20 x flashing = 20 minutes running time.



off 1x	• Press	Flashing pulses	Termination of Brief Off
A A	off 1x	E Co	OK



4190 HANSAPUBLIC with control button Triggering Brief Off

Press \odot 2 x Confirmation of function \rightarrow 3 x ***** (flashing pulse groups) (flashing signal is repeated during Brief Off running time)

For convenient cleaning of tap and wash basin / shower cubicle \boldsymbol{On} - Press $\boldsymbol{\odot}$ 2 x

Off - After pre-set time or press \odot 1 x (Factory setting approx. 15 minutes).

Factory setting: Cannot be altered.

The tap flushes automatically if it has not been used for more than 12 or 24hours. This discharges stagnant water and stops the odour trap drying out. (Factory setting: Function not activated)

The number of flashing signals indicates the hygiene flushing setting.

E.g. (release after 3^{rd} flash = 24 hours, short)

Activating/deactivating hygiene flushing Press \odot 1 x and hold for 24 sec. After approx. 5 sec. 1 $x \ rightarrow \rightarrow$ after approx. 10 sec. 6 x $\ rightarrow$ continue

holding $\boldsymbol{\Theta}$, after approx. 24 sec. the flashing signals commence.

 $1 \times \clubsuit \rightarrow \text{Deactivated}$

2 x \Rightarrow \rightarrow On \rightarrow 12 hours after last use (flushing time: short) 3 x \Rightarrow \rightarrow On \rightarrow 24 hours after last use (flushing time: short)

 $4 \times \bigstar \rightarrow On \rightarrow 12$ hours after last use (flushing time: long) $5 \times \bigstar \rightarrow On \rightarrow 24$ hours after last use (flushing time: long)


Settings:

Normal function: Setting water running time (refer to page 437) The water running time can be set as required (running time approx. 2 - 180 sec.)

Constant On: Triggering (refer to page 439)

Constant flow of water. For filling wash basin, containers, etc. Can be terminated at any time by pressing button or automatically (after max. 3 min.).

Activating/deactivating 24-hour hygiene flushing (refer to page 441) Flushing 24 hours after last use.

Permanently set flushing time 5 seconds.

4191 HANSAPUBLIC shower mixer tap with START / STOP BUTTON

Fault - Cause - Remedy			
Problem / fault	Possible cause	Remedy	
No start/stop button function	Battery flat/defective	Replace battery	
	Battery: Incorrect polarity	Make proper connection	
	Button defective	Replace start/stop button	
Constant flow of water	Power cut during flow of water	Replace battery	
	Solenoid / diaphragm defective	Replace solenoid	
Tap switching automatically	Insufficient supply pressure	Check supply pipe	
Insufficient flow of water	Shower head clogged	Clean/replace shower head	
	Non-return valves defective	Replace non-return valves	
Tap dripping	Diaphragm soiled / defective	Clean/replace solenoid	
Incorrect water temperature	Problem with water supply	Check water supply	
	Control element incorrectly adjusted/defective	Adjust/replace control element	



4191 HANSAPUBLIC shower mixer tap with START / STOP BUTTON Normal function (water running time)

Pressing button \odot triggers flow of water or stops flow of water.

On - by pressing button Off - by pressing button again or after pre-set time

(Factory setting approx. 45 sec.)

Setting duration of water flow (setting range: 2 - max. 180 sec.)

Press \odot 2 x \rightarrow Water: on-off

Wait 10 sec.

Press \odot 5 x \rightarrow Water: *on-off-on-off-on*

Brief interval between pressing for 5th and 6th time

Keep \odot pressed 1 x \rightarrow Water: *Off* \rightarrow *after approx. 10 sec. water starts to flow*

Keep the button pressed until the desired water run-on time has been attained.





4191 HANSAPUBLIC shower mixer tap with START / STOP BUTTON Triggering Constant On

For filling vessels, e.g. during cleaning

Press \odot 1 x for 10 sec. Water 5 sec. on + 5 sec. off Water on \rightarrow Constant On triggered

Can be terminated at any time by pressing button or automatically after pre-set time.

(Factory setting approx. 120 seconds)





4191 HANSAPUBLIC shower mixer tap with START / STOP BUTTON 24-hour hygiene flushing

Factory setting: Function not activated

The tap flushes automatically if it has not been used for more than approx. 24 hours. This discharges stagnant water and stops the odour trap drying out.

Activating 24-hour hygiene flushing

Press \odot 2 x \rightarrow Water: on-off Wait 10 sec. Press \odot 4 x \rightarrow Water: on-off-on-off Keep \odot pressed 1 x for 24 sec. \rightarrow Water on-off-on-off

Confirmation of activation: 2 x water flow Flushing time permanently set to approx. 5 seconds

Deactivating 24-hour hygiene flushing

Press \odot 2 x \rightarrow Water: on-off Wait 10 sec. Press \odot 4 x \rightarrow Water: on-off-on-off Press \odot 1 x and hold for 24 sec. \rightarrow Water on \rightarrow after 5 sec. off 10 sec. on \rightarrow 22 sec. off

Confirmation of deactivation: 5 x water flow



4190 HANSAPUBLIC battery replacement

No function if battery (splashwater-proof) flat.

Battery replacement procedure: Slacken off the 2.5 mm bolt (**1**, **2**). Pull off the knob and cover plate to the front (**3**). Remove the battery and unplug the connector (**4**). Replace the battery (splashwater-proof), order no.: 59 913 158. Plug the connector (**4**) back in and insert the battery. Attach the cover plate and knob, paying attention to the installation position. Tighten the 2.5 mm bolts (**1**, **2**).

Wait 20 seconds (**6**), the tap is then ready for operation again.

4191 HANSAPUBLIC battery replacement

No function if battery (splashwater-proof) flat.

Battery replacement procedure: Slacken off the 2.5 mm bolt (**1**, **2**). Pull off the knob and cover plate to the front (**3**). Remove the battery and unplug the connector (**4**). Replace the battery (splashwater-proof), order no.: 59 913 158. Plug the connector (**4**) back in and insert the battery. Attach the cover plate and knob, paying attention to the installation position. Tighten the 2.5 mm bolts (**1**, **2**).

Section 12

Valves, concealed diverters	Page
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Disassembling multi-way diverter if leaking 02. 1998 onwards

Slacken off the 2.5 mm knob bolt and detach the knob (1).

Detach the cover plate and sleeve (2).

Unfasten and detach the 22 mm threaded sleeve (3).





Disassembling multi-way diverter if leaking 02. 1998 onwards

Remove the guide collar (1).

Detach the adapter (2).

Remove the spindle by turning anti-clockwise (3).

Remove the circlip (4).

Detach the rotary plate (**5**). (Detach with M 5 x 60 bolt on both sides if necessary).

Remove the 19 mm screw plug by turning anti-clockwise (6).

Pull out the entire plug (**7**) and replace. Order no. 59 911 746

Install in reverse order.

Attention!

On re-installation (**5**), make sure the pin in the concealed housing coincides with the groove in the rotary plate (**5a**).



Disassembling multi-way diverter if leaking up to 01. 1998

Firmly pull off the diverter knob (1).

Unscrew the round nut (2).

Detach the cover plate and unscrew the guide sleeve $(\mathbf{3})$.

Firmly pull off the entire spindle (4).



Disassembling multi-way diverter if leaking up to 01. 1998

Remove the engaging sleeve (5).

Use a 19 mm socket spanner to remove the hexagon nut (6). Pull off the rotary plate (7) by hand. Use a 19 mm socket spanner to remove the screw plug (8).

Remove the diverter plug (**9**) and replace. Order no. 59 910 917

Prior to re-installation, lubricate the diverter plug with HANSA grease. Order no: 59 901 040

Re-install in the reverse order of removal.





HANSA concealed valves with lockable sliding cover plate

The installation depth is the dimension between the top edge of the housing sleeve and the surface of the wall. The sliding cover plate is pressed against the wall by a knurled nut to ensure snug contact.

With the HANSA concealed valve a uniform transition from the cover plate to the knob can be achieved by sawing off the spindle in a prepared groove as required.

Installation depth table:

Measurement result:	Corresponds to an installation depth of:	Length of guide sleeve
X = 0 to 35 mm	10 - 45 mm	25 mm
Y = 35 to 70 mm	45 - 80 mm	60 mm
Z = 70 to 105 mm	80 - 115 mm	95 mm

Example "Y"

To determine the installation depth, use a rule to measure the distance between the top edge of the tile and the upper section. If the dimension "Y" is as in the example, this corresponds to an upper section installation depth of 45 - 80 mm.





Fitting concealed valve spindle with minimum and maximum installation depth

Press the sliding cover plate (1) against the wall and secure with the knurled nut (2).

For an installation depth of 30-45 mm, the clamp (**3**) is fitted in the upper of the three machined grooves on the valve spindle.

With an installation depth of 10-30 mm, the lower groove is visible after securing the cover plate. The clamp is fitted in this groove (**4**).

The spindle is sawn off at the centre groove (5).

ATTENTION!

Only saw off here (**X**) as otherwise the flow control can no longer be attached.



Concealed valve

Fault

Water emerging at the spindle.

Cause

Spindle O-ring defective.

Remedy

Close the valve. Separate water pipe shut-off is not required as the valve cone seals off the valve when screwed down.

Detach the knob (1). Press the spring clip off the spindle (2). Order no. 59 901 017

Unscrew the brass threaded spindle, order no. 59 902 708 and the knurled nut, order no. 59 902 621 and remove the cover plate (**3**). Screw out the spindle sleeve at the 17 mm hexagon (**4**) and pull out the spindle (**5**).

Replace the O-ring (**6**), order no. 59 902 338 and lubricate: HANSA grease, order no. 59 901 040.

Install in reverse order.

Open the valve and check for leaks.



Fine adjustment of control lever

Fit the ceramic upper section (1), circlip (2) and nut (3). Screw on the nut without applying force. Attach the control lever (4) and check alignment (5) (do not lock the knob).

If the control lever is not properly aligned, correct by turning clockwise.

Detach the control lever (6). Use a 17 mm socket spanner to tighten the nut (7).

Attach and lock the control lever (8).

Check operation and check for leaks.

Section 14

Showers	Page
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Showers, shower systems, hand shower heads

Minimum flow pressure without downstream resistance	0.5 bar
Minimum flow pressure with downstream resistance	1.0 bar
Max. operating pressure	10.0 bar
Recommended operating pressure	1.0 - 5.0 bar
Max. test pressure	10.0 bar
Max. water temperature	90 °C
Temperature selector knob setting ranges for	
Thermostatic mixer taps DN 15	20°- 60 °C
Thermostatic mixer taps DN 20	20°- 60 °C
Thermostatic one-hole mixer taps	20°- 58 °C
Safety limiter for thermostatic mixer taps	38 °C
Hot water connection	= left
Cold water connection	= right



For quicker drainage, tilt the shower plate / hand shower head after use.

The system developed by HANSA keeps the hand shower head free from lime scale deposits. The pores forming the water spray are embedded in elastic material and surrounded by a fixed ring. This makes it difficult for lime scale deposits to form. If this does happen, the combination of hard and soft materials makes cleaning particularly easy: Briefly flex the "rubber cushion" once with the ball of the thumb or a cloth and the lime scale will come loose, thus unclogging the pores.

Clean the shower head under running water with a towel or soft brush.





HANSARAIN - Replacing perforated disc

Disassemble (24 mm) the plate shower head (1).

Unscrew the spray outlet (4), clamping it in a vice if necessary (loosen the spray outlet with the ball of the thumb).

Take out the perforated disc (**2**) and replace it with the perforated disc 59 912 908.

Press the perforated disc (**3**) firmly into the spray outlet, working outwards from the centre.

Lubricate the perforated disc and thread with the grease provided to prevent seizure of the perforated disc.

Perform further assembly in reverse order.











HANSACLEAR LUX

Fault - Cause - Remedy				
Problem / fault	Possible cause	Remedy		
2x red flashing	Low battery charge	Charge battery		
No light - on pressing button	Battery not properly inserted Battery flat Battery defective Dummy inserted	Insert battery properly Charge battery Replace battery (59 913 054) Insert battery		
No light - with flow of water	Battery not properly inserted Battery flat Battery defective Flow sensor defective Dummy inserted Switched off manually	Insert battery properly Charge battery Replace battery Clean flow sensor Insert battery Switch on manually		
No flow of water?	Strainers soiled	Clean strainers		
Battery not charged / charging time > 4h	Power supply unit defective / not plugged in Battery defective Charging station defective Battery not properly inserted No power Dummy inserted	Plug in / replace power supply unit until blue indicator lamp on charger lights Replace battery Replace charging station Insert properly Check supply Insert battery		

- Never place the contacts of the battery removed on conductive objects.
- · Never attempt to short-circuit, dismantle or modify the battery, charger, hand shower head and power supply unit.
- Never expose the battery to naked flames or temperatures in excess of 60°C. as this could cause the battery to overheat, catch fire, rupture or start to leak.
- Never store the battery in the vicinity of metallic objects.
- Never use the battery for other products.
- · Only ever make use of the genuine HANSA charger with the corresponding power supply unit.
- Never use leaking batteries. If electrolyte comes into contact with the eyes, skin or clothing. thoroughly rinse the area affected with water and consult a doctor.
- The battery is to be used and charged at ambient temperatures between 0° and 40°C (store the battery at an ambient temperature of between -20° and 30°C and a relative humidity of between 45% and 85%).
- Never subject the battery to severe impact, as it could overheat, catch fire, rupture or start to leak.

WARNING

- This product is to be stored out of the reach of children. If there are children in the vicinity. make sure there is no danger of injury from the product.
- Small items could be swallowed and should therefore be kept out of the reach of children.


1 x 2 sec.= off



HANSA CLEARLUX - Light functions without flow of water

Memory effect:	The last setting selected is stored and re-used
	when next switched on.

Example 1: Press 1 x = Light on, automatic colour change

The colour changes every 5 seconds until: Press 1 x = Stop with current colour Press 1 x = Start of automatic colour change Press 1 x 2 seconds = OFF (possible at any time) (current settings are stored)

Memory effect: The last setting selected is stored and re-used when next switched on.

In the example, the colour "white" is the last setting made.

Example 2: Press 1 x = Light on, manual colour change

The colour changes on switching Press 1 x = Start of automatic colour change Press 1 x = Stop with current colour Press 1 x = Start of automatic colour change Press 1 x 2 seconds = OFF (possible at any time) (current settings are stored)



Memory effect: The last setting selected is stored and re-used when next switched on.

Example 3:

Water on = Light on, automatic colour change The colour changes every 5 seconds Press 1 x = Stop with current colour Press 1 x = Start of automatic colour change Press 1 x 2 seconds = OFF (possible at any time) Water stop = Light off (current settings are stored)

Memory effect: The last setting selected is stored and re-used when next switched on.

In the example, the colour "white" is the last setting made.

Example 4:

Water on = Light on, manual colour change

The colour changes on switching Press 1 x = Start of automatic colour change Press 1 x = Stop with current colour Press 1 x = Start of automatic colour change Press 1 x 2 seconds = OFF (possible at any time) Water stop = Light off (current settings are stored)







HANSA CLEARLUX - Cleaning

To avoid lime scale and soap deposits, the hand shower head should be cleaned at regular intervals.

Never use abrasive pads or alcohol-based or corrosive cleaning agents.

In the event of a reduced flow of water, unscrew the hand shower head and clean the strainer. **Repeat cleaning at regular intervals.**



HANSA CLEARLUX - Charging battery pack

If the hand shower head flashes (red) when switched on (1), the battery needs charging.

To do so, release (2) and take out (3-4) the battery pack. Insert the battery in the charging station. Connect the charging station to the power supply (5-7).

Charging has been completed when the charge indicator switches from CHARGE to READY (**8**). The process takes roughly 3 to 4 hours if the battery is completely flat.

A dummy battery can be inserted whilst charging (no light function with dummy battery).

Remove the charged battery from the charging station and insert it in the hand shower head (**9-11**).

When switched on, the hand shower head flashes in green (**12**) (battery adequately charged).









80/80



90/90





HANSA installation example

Recommended fitting heights (the illustration is only intended as an example)

Overhead shower attachment	2000 - 2200 mm
Side shower attachments	700 - 1400 mm
Shower tap	1050 mm

The dimensions given are average values. Consult the customer to establish exact fitting heights!

> Our brochure Bath and Shower also contains useful information.

- Minimum size of shower:

80 cm with 3 side shower attachments 90 cm with 6 side shower attachments



Draining shower hose to minimize the risk of legionella formation

On installation, make sure the height of the hand shower head mount and the height of the shower hose are coordinated to ensure full drainage via the drain valve, order no. **0405** 0100.

Completely replace if faulty.

Check operation.



Sports shower - spray adjustment

Fault

I Too much / not enough water. II Spray too close to the wall.

Cause

I Incorrect setting. II Incorrect shower head setting.

Remedy

I Slacken off the 4 mm bolt (**1**) and detach the sports shower head. Use a screwdriver (**2**) to set the required water flow rate:

Anti-clockwise	=	more
Clockwise	=	less

Attach and secure the sports shower head. Check the water flow.

II Slacken off the bolt (3).

Move the spray regulator to the required position and secure.

Section 16

Safety modules	Page
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Safety module with pressure reducer up to 2001	489
Pressure reducer as of 2002	491



Safety module

Fault

I Safety valve drips when storage tank is not heating up.

Il Reduction in water flow.

Cause

I Cold water pressure too high due to absence of pressure reduction valve. II Seat of safety valve soiled.

Remedy

I Fit pressure reduction valve.

II Vent and thoroughly flush the safety valve (2). If leakage persists: Replace valve upper section with valve seat (3). Order no: 59 904 642 - 6 bar

Or replace entire valve block.

This ensures renewal of all components of relevance to safety. Make sure the seals are properly fitted (4).





Fault

I Reduction in water flow.

II Increase in back pressure (safety valve constantly dripping).

Cause

- I Strainer in control insert on inlet end heavily soiled.
- II Seat of pressure reduction valve soiled or damaged.
- II.I Cold water infiltrating hot water pipe through defective taps.

Remedy

I Clean or completely replace the control insert.

II To do so relieve the load on the pressure reducer (7). Remove the 24 mm upper section housing with spring, pressure screw and sliding ring (8). Prise out the control insert (9).

Clean the strainers (**10**) or replace the entire control insert, order no. 59 901 981.

Prior to re-installation, clean the inner surface (11)

with wet sandpaper, 400 grit.

Fit the control insert (12).

Attention! The lug on the side must engage in the mating hole in the housing.

Insert the spring, pressure screw and sliding ring in the upper section housing and install. Set the pressure reduction valve.

II.I Check the taps and backflow preventer (thermostat).



Fault

I Reduction in water flow.

II Increase in back pressure (safety valve constantly dripping).

Cause

I Strainer in pressure reducer housing soiled (2002 onwards).

- II Valve seat of control insert soiled or damaged.
- II.I Cold water infiltrating hot water pipe through defective taps.

Remedy

Shut off the water externally.

I Unscrew the screw plug (**13**). Turn on the water and flush the strainer (**14**) in situ. Shut off the water. Replace the strainer if necessary. Screw in the screw plug (**13**).

- II For replacement of control insert, refer to page 489 Items **7** to **11**
- II.I Check the taps and backflow preventer (thermostat).

Section 20

Older models	Page
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Mechanical diverter	515



Hansa lever mixer Removing surface-mounted lever mixer upper sections (no longer available as a complete unit)

Shut off the water.

Screw out the M 4 stud on the side using a screwdriver with 3 mm wide blade (old models) or a 2 mm Allen key (new models) (1).

If the slotted screw is removed, use a new hexagon socket head stud.

Order no. 59 901 027

Use a 32 mm spanner or pliers with smooth jaws to unfasten the upper section (**2**). Upper section order no. 59 901 547

Re-installation

Move the lever upwards.

Slide up the L-ring as far as it will go.

Insert the upper section whilst twisting slightly.

Screw in the upper section cap by 3 to 4 turns (3).

Turn the water back on.

Press down the lever (4).

Continue carefully screwing in the upper section until no water drips from the spout. Give the upper section cap a further quarter of a turn and secure the upper section in this position with the stud (**4**).



Hansa lever mixer Removing concealed lever mixer upper sections (no longer available as a complete unit)

Shut off the water. Screw out the M 4 stud on the side using a screwdriver with 3 mm wide blade (old models) or a 2 mm Allen key (new models) (**1**). If the slotted screw is removed, use a new hexagon socket head stud. Order no. 59 901 027 Use a 32 mm spanner or pliers with smooth jaws to unfasten the upper section (**2**). Upper section order no. 59 901 549

Re-installation

Move the lever upwards.

Slide up the L-ring as far as it will go.

Insert the upper section whilst twisting slightly.

Screw in the upper section cap by 3 to 4 turns (3).

Turn the water back on.

Press down the lever (4).

Continue carefully screwing in the upper section until no water drips from the spout.

Give the upper section cap a further quarter of a turn and secure the upper section in this position with the stud (4).



I Water dripping from spout.

Il Water emerging at the ball, at the stud on the side or at the gap between the upper section and the housing.

Cause

I Upper section not screwed in far enough.

II Dirt particles at valve seat.

III Worn seals.

Remedy

- Re I Unfasten the M 4 stud on the side (**1 or 2**). Screw in the upper section by a further quarter of a turn and secure in this position (**1 or 2**).
- Re II Take out the upper section and remove any dirt particles at the valve seat.

Re III Remove the upper section and replace the seals (**3**, **4**, **5** and **6**). Set of seals for lever mixer, order no. 59 904 886.





I. With the concealed lever mixer turned off, hot water runs into the cold water pipe or vice versa.

Il Water dripping from the bath spout or out of the shower head.

Cause

I Plunger leaking due to absence of or defective plastic snap ring (1). Order no. 59 901 026

I.I Abnormal wear in tap housing.

II Damage to rubber element at plunger (2).

Remedy

Re I Remove the upper section. Fit or replace the plastic snap ring (1).

The open part of the snap ring must be opposite the lower recess in the rubber element.

- Re I.I Remove the concealed tap.
- Re II. Remove and replace the upper section. Order no. 59 901 549.



Fault

Water emerging between the tap housing and swivel spout.

Cause

Worn O-rings between housing and swivel spout. Order no. 59 902 346

Remedy

Shut off the water. Screw out the bolt at the swivel spout (1). Order no. 59 902 079 Twist and lift off the spout (2).

Replace the O-rings (**3**) - and apply grease. HANSA grease, order no. 59 901 040 Install in reverse order. Screw the bolt with seal back in.





Attention! Plunger mixer already fitted with conversion kit by customer service




Fault

- I Tap dripping at spout or shower head when turned off.
- II Water emerging at lever.
- III Shower head and bath run simultaneously when the tap is turned on.

Cause

- I Set of seals defective due to foreign matter.
- II Refer to 1.
- III Damage to fixed rubber element at plunger.

Remedy

- Re I and II Replace the set of seals Order no. 59 905 861 (**1-13**) with bushing extractor. Order no. 59 906 997 without bushing extractor.
- Re III Replace the plunger Order no. 59 905 863 (**1-10**). Order the bushing extractor (**12**) separately (order no. 59 906 409).



Maintenance for all TASTAMAT MODELS (no longer available as a complete unit)

Fault

Water dripping from spout.

Cause

- I Upper section not tightened firmly enough.
- II Coarse particles between seat seal and valve cone.

Remedy

- Re I Detach the button and use a 17 mm socket spanner order no. 59 904 175 to re-tighten the upper section (1+4).
- Re II Shut off the water. Detach the button (1). Screw out the upper section using a 17 mm socket spanner (2 + 3).
 Remove any particles.
 Install the upper section in reverse order (3+4).

Fault

Button does not engage or is not reset

Cause

Switching mechanism defective.

Remedy

Replace the upper section, order no. 59 901 043: Shut off the water and detach the button. Screw out the upper section using a 17 mm socket spanner, order no. 59 904 175 (**1-3**). Install the upper section in reverse order (**3+4**).



Fault

Hot water flows on pressing the blue button on the mixer tap

Cause

Damage to centre O-ring at temperature control plug.

Remedy

Replace the centre O-ring: Order no. 59 902 351 Shut off the water and remove the temperature control knob on the side (1).

Remove the circlip (2).

Pull out the temperature control plug $({\bf 3}).$

Replace the O-ring (4).

Whilst twisting slightly, fit the lubricated temperature control plug - HANSA grease, order no. 59 901 546.

Fault

Water emerging at base.

Cause

- I Aerator not tightened sufficiently or aerator seal defective.
- Il Damage to both outer temperature control plug O-rings (5).

Remedy

Re I Re-tighten the aerator or replace the seal.

Order no. 59 902 274

Re II Shut off the water and replace the O-ring (1-3).

Order no. 59 902 351

Whilst twisting slightly, fit the lubricated temperature control plug - HANSA grease, order no. 59 901 040.



HANSAMAT

Fault

- 1. Automatic diverter does not remain in shower head position when using shower.
- 2. Water runs out of spout and shower head.

Cause

- I Water pressure less than 0.5 bar, water flow rate less than 7 l/min. Il Pushbutton diverter defective.
- dirt particles between valve seat and seal.

Remedy

Re I Increase the water flow rate/pressure.

Re II Scew out the M 5 slotted screw with spring lock washer (1), order no. 59 901 633.

Press the pushbutton diverter (**3**), order no. 59 901 632, forwards with a screwdriver (**4**) through the slot at the bottom of the spout and take out. Clean the diverter seals or replace the entire diverter. Install in reverse order.

Attention!

On installation, use a screwdriver to press in the pushbutton diverter (5) through the slot at the bottom of the spout (do not press on the pushbutton) until the M 5 cheese head screw with spring lock washer (6) can easily be screwed in from underneath. The M 5 cheese head screw must engage in the annular groove of the diverter (3, arrow).



Spout/shower head mechanical diverter

Fault

Water runs out of spout and shower head simultaneously.

Cause

Diverter plug defective

Remedy

Remove the screw (1).

Detach the diverter lever (**2**) and take out the stop plate (**3**). Remove the circlip (**4**). Replace the diverter plug (**5**).

Install in reverse order.

Plug, complete (without diverter lever)	Order no. 59 902 200
Screw	Order no. 59 902 266
Circlip	Order no. 59 902 208
Diverter lever	Order no. 59 902 205

Attention!

Check whether the stop plate is moulded into the diverter lever. If this is the case, do not fit a separate stop plate (**3**).

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Modern sanitary fittings are made of a wide range of different materials to satisfy the design and function requirements of our customers. To ensure a long service life and to avoid damage and dissatisfaction, certain criteria and the compatibility of materials and cleaning agents must be borne in mind both when using the products and when performing regular cleaning.

1. Planning of cleaning work in the public and commercial sector

The public and commercial sector ranges for example from hospitals and the foodstuffs industry to sports facilities, hotels and motorway service stations, all of which have very different requirements with regard to the cleaning of sanitary fittings in terms of the degree of soiling and formation of lime scale deposits. Planning of the cleaning work is essential for the selection of a suitable cleaning agent and the methods to be employed and should at least take account of the following: The type of location, the cleaning intervals and scope (basic or maintenance cleaning) and the nature and condition of the products installed (substrate and surface materials).

2. Surfaces of sanitary fittings

The most commonly encountered type of surface is a chromium-nickel surface complying with the requirements of DIN EN 248. Other surface materials used include:

Stainless steel, plastics including powder coatings and liquid paints, anodized aluminium, PVD coatings (hard metallic-effect layers) and special electroplated surfaces such as gold and Aranja.

Coloured, non-metallic surfaces (e.g. white, bronze) are generally more susceptible than metallic surfaces, particularly with respect to scratches. Before starting cleaning it is advisable to establish the nature of the sanitary fitting surface concerned.

3. Cleaning agents for sanitary fittings

Acids are an essential part of cleaning agents for removing lime scale deposits. The following should however always be observed as regards the care of fittings:

- Only use cleaning agents expressly intended for the given purpose.
- Never use cleaning agents containing hydrochloric, formic or acetic acid as these could cause severe damage.
- Never use detergents containing chlorine bleaching agents.
- Cleaning agents containing phosphoric acid are not always suitable.
- Never use any abrasive cleaning materials and objects such as scouring powder, scouring pads and microfibre cloths, as these can cause damage (scratching).
- Cleaning agents are never to be mixed.

4. Cleaning of sanitary fittings

Always heed the usage instructions of the cleaning agent manufacturers. Points to be noted:

- Cleaning is to be performed to suit the requirements.
- The particular requirements for the object concerned are to be borne in mind as regards the concentration and application time of the cleaning agent.
- The application time should never exceed that specified by the manufacturer.
- Regular cleaning stops the formation of lime scale deposits.
- Never spray cleaning solution directly onto the fittings, but rather onto the cleaning cloth or sponge, as otherwise the spray mist could ingress into openings and gaps in the fittings and cause damage.
- After cleaning, always rinse with clear, cold water to completely remove any traces of cleaning agent.

Important:

Residues of cosmetic products such as liquid soaps, shampoos and shower gels can also cause damage.
 Here again: It is important to carefully rinse off residue after use with clear, cold water.
 Any existing surface damage will be propagated by the action of cleaning agents.

5. Procedure for removing lime scale deposits from other surfaces HANSAMURANO glass dish

- Prepare an approx. 1% citric acid solution (available in shops as lime scale remover. Caution: Keep citric acid solution away from the eyes or open wounds, rinse off from the skin with water!).
- Place part of a paper handkerchief or tissue paper on the affected area.
- Apply drops of citric acid solution to the affected area (the purpose of the tissue paper is to stop the solution running off the affected area).
- Leave for approx. 30 minutes. Do not allow to dry on (add more if necessary).
- After approx. 30 minutes, remove the tissue paper and wipe over gently with the damp paper if necessary but never rub vigorously with a dry paper tissue or the like.
- Rinse the treated area with water prior to re-use. Repeat steps 2-5 several times if necessary if lime scale
 deposits are still visible.

Other surfaces/materials such as crystal glass

These are best cleaned using a soft, dry cloth. Stubborn marks, such as grease, can be removed by rubbing gently with a window leather rinsed out in clean, hot water. Never use chemicals or detergents for cleaning crystal glass mirrors. Soap residue in crystal glass soap dishes may dull the glass over a period of time. The glass should therefore be regularly rinsed with hot water to remove the soap residue. Glass items can of course also be cleaned in a dishwasher, provided that the glass cleaning cycle is selected.

Plastics must not come into contact with acetone (e.g. nail varnish remover) and alcohol (e.g. perfume, hair spray). Only treat with anti-static plastic cleaner or washing-up liquid and water. Avoid lengthy exposure to heat (e.g. direct sunlight) or contact with hot objects.

Important:

Never use highly acidic lime scale removers containing hydrochloric acid, phosphoric acid or the like. Never attempt to scratch off or scour lime scale deposits!

6. Maintenance and general safety information

- Angle valves, concealed valves and other shut-off elements should be actuated every three months and checked for leaks and proper operation.
- Turn the temperature selector knob at the thermostat through the entire temperature range from coldest to hottest setting once a month with the water turned fully on. This dislodges and flushes out any deposits and thus extends the service life of your HANSA thermostat.
- Spray regulators, strainers and spray outlets in showers should be cleaned at regular intervals. Minor deposits at the spray outlets can be removed by rubbing with the ball of the thumb or by running a soft brush over them.

Safety instructions for working on electrical units (e.g. power supply unit, changing bulbs etc.): Take care to shut off the power supply before working on such items, e.g. pull the mains connector.

Note on halogen lamps: When replacing, take care not to touch the glass bulb with bare hands as the grease film deposited would burn on and so considerably shorten the service life of the lamp.

ATTENTION! Important advice!

The entire system should be thoroughly inspected and if necessary serviced once a year by a qualified plumber.

7. Warranty

Warranty claims cannot be accepted in the event of non-compliance with the care and usage instructions, inexpert handling or external influences. This warranty does not cover wearing parts.

FAQ - Frequently asked questions

Your question: Our possible answer

Severe lime scale deposits have formed on some surfaces. What should I do or what have I done wrong? HANSA taps can be treated with any approved tap cleaning agent. It is important to observe the manufacturer's specifications with regard to concentration and application time. After cleaning, rinse the tap with clear, cold water and rub dry. Never use caustic and scouring cleaning agents. We recommend always drying off the tap after use if the water is hard.

My shower is not properly hot in winter, but there is no problem with the wash basin. Hot water supplied via continuous flow heater.

This situation arises from the physical conditions in the continuous flow heater. The water entering the house is much colder than in summer. The continuous flow heater can only raise the temperature of a certain volumetric flow of water by a certain amount. The volumetric flow drawn off from the shower is greater than that at the wash basin tap and so cannot attain the same final temperature. This situation is less common in summer as the temperature of the cold water and thus of the hot water is higher.

I have noticed reddish marks in the tile joints in the splash area of the taps. Are my taps going rusty? Such discoloration is caused by constituents of the water. The taps are made of dezincification-resistant brass (MS 63) and so cannot rust. They do not contain iron.

How long do the swivel spout O-rings last?

This type of O-ring only provides a seal at the outermost surface. Factors such as motion-induced friction, water quality or the ingress of cleaning or scouring agents, as well as excessive loading from hanging up buckets etc. will lead to premature wear.

What causes the dark ring to form around my wash basin tap?

This is the result of lime scale deposits and dirt particles left when water dries out in this area, particularly in the case of objects with a matt finish. The only remedy in this case is thorough cleaning, keeping the area concerned as dry as possible, cleaning at regular intervals with neutral scoap and thorough rinsing.

What is the reason for a bluish or greyish film forming on the wash basin tap which is impossible to remove?

This is generally caused by a substance in the cleaning agent used, often acids or alcohols. Hair spray or perfume aerosols may also have the same effect. The film can usually be removed with a mild chrome polish. Heed the care information to avoid renewed formation.

Where can I see HANSA taps, who can I contact for specific information on different sizes and surfaces? Assistance can be obtained from authorised plumbers and the associated wholesalers.

Where can I obtain spare parts and for how long?

Spare parts are guaranteed to be available for 10 years as of the discontinuation of production of the series concerned. Common spare parts are however usually available for much longer. They can be obtained from authorised plumbers.

I want to replace the complete assembly set on my old HANSA concealed ceramic mixer. Are the latest sets suitable for the old concealed housing?

Yes, all the available HANSA-Vario complete assembly sets (Twist, Viva, Disc, Mix, Ronda, Star, Designo) can be used with all concealed HM ceramic mixers from 1979 onwards. Use cannot be made of HANSAVAROX complete assembly sets.

I would like to replace the control cartridge on my single-lever mixer, the tap is of low-pressure type or is supplied by a continuous flow heater. Will the convertional control cartridge fit? Yes, our control cartridge 59 904 601 is suitable for high and low pressure and for use with continuous flow heaters.

I am a qualified plumber and have replaced the leaking control element of a Vario 0808 concealed thermostat. The problem still persists, what can I do?

With our HANSA-Vario housings from 1997 onwards, the tap housing contains an additional plastic adapter which may have a hairline crack. If this is the case, take out and replace the adapter 59 911 514.

Can an existing concealed HM housing be converted to a thermostat?

In the case of the Hansa Vario concealed housing as of 1997, conversion of HM to thermostat 0808 with shut-off is possible. For the predecessor model (concealed HM 0100), the kit 0822 is available for converting a single-lever shower mixer tap to a thermostatic shower mixer tap. Conversion is simplest for the HANSAVAROX concealed housing.

The H/C connections were inadvertently interchanged when performing concealed installation. What can we do?

Opposed adapters are available for HM and thermostat for the concealed Vario housing. These provide correction for the flow directions. HM adapter 59 911 429, therm. adapter 59 911 430. Special operating units are available for such cases for HANSAVAROX and this is therefore not a problem.

The concealed housing has been fitted too deeply into the wall or the tiles have been built up too much. Are extensions available?

Yes, extension sets are available for all HANSA concealed housings.

A cover plate extension can be obtained from HANSA ServicePlus for dealing with housings which project too far.

Some years ago I fitted a bath rim system. Water has now started emerging at the outlet to the diverter. What should I do?

This can only be caused by a damaged seal or O-ring in the outlet. Please replace the seals and O-rings using our set of seals 59 910 121. With the new bath rim system (2001 onwards) it is sufficient to replace the upper section of the diverter.

Many years ago we fitted a concealed/surface-mounted thermostat. For a while now the control action has not been satisfactory. How can this be rectified?

Lime scale has probably formed on the valve cone and is preventing the thermostat setting the correct temperature. It is advisable to replace the entire regulator unit; it is also worth checking the backflow preventers and strainers and cleaning or replacing them if necessary.

In a supermarket, the electronic system fitted no longer cuts out. What is the answer?

Continuous running of the electronics may be an indication of a defective solenoid valve no longer closing. Please change the solenoid valve, check the power supply and examine whether the aerator is clogged.

Water is emerging from the swivel spout of my tap.

If the leak is beneath the swivel spout, replace the seals at the swivel spout (does not apply to pull-out spray). If the leak is above the swivel spout, the cartridge is probably leaking and the water is dripping through to the swivel spout.

Can consumers purchase taps straight from the manufacturer? No, HANSA employ a three-stage product distribution system (HANSA – wholesaler– plumber – consumer).

Why has the lever on my mixer tap become very stiff?

Our patented grease supply system ensures relatively long smooth operation. The cartridge should however be replaced if particles have been washed out of the pipes and have damaged the surface of the ceramic discs.

Who should consumers contact in the event of a complaint?

The person to contact is the plumber who performed the installation work. He will be only too pleased to help.

What could be the cause if the concealed valve still leaks following replacement of the ceramic upper section? Either clean or remove lime scale deposits from the seat or - if possible - fit a new seat.

Why is the puller rod so difficult to move?

Bend the copper tubes slightly apart (the rod may be catching). Fit the joint correctly.

Why is there no thermostat control action?

There may be several reasons for this: Dirt from the pipes at the strainer, a defective backflow preventer or line scale deposits on the regulating cone. We recommend turning the temperature selector knob from the coldest to the hottest setting roughly every 3-4 weeks with the water turned on. This stops the regulating cone becoming gummed up.

Why does the knob not remain engaged on the shut-off and diverter upper section? The knob is not properly engaged and is resting on the cover plate - fit an extension set.

Can I reduce the water flow with a HANSA mixer tap?

Yes, the water flow can be infinitely restricted by way of the screw in the back of the control cartridge.

Is the HANSA concealed housing intrinsically safe?

Shower connection in combination with our connecting bend. Filler sets in combination with a vacuum breaker A2 or a safety device LB, which can be integrated into our HANSA-Varox housing.

Do HANSA thermostats have to be set on site? No – they are pre-set at the factory.

Which control cartridge do I need for a 23 year old Hansamix wash basin tap? The current control cartridge HANSAECO 59 904 601 is suitable.

Can I convert a thermostat with lever shut-off to one without?

With our HANSA-Varox housing this can be done by simply replacing the operating unit; it is however important for concealed valves to be fitted downstream of the mixer in the flow direction.

Where can I obtain HANSA taps? From an authorised plumber.

How do I obtain spare parts? From an authorised plumber.

Do you offer products for the disabled?

Yes, please consult a sanitary fittings wholesaler or your plumber.

I have noticed changes in the surface of my tap.

The likely problem is the cleaning agent used.

Generally speaking, use can be made of any approved cleaning agent for sanitary fittings.

Three important aspects should however always be borne in mind:

1. Always heed the specifications of the cleaning agent manufacturer with regard to concentration.

2. Always heed the specifications of the cleaning agent manufacturer with regard to application time.

3. After cleaning, always rinse the tap with clear, cold water.

Water is coming out of the side of the spout on a kitchen single-lever mixer.

The spout is sealed off from the tap body by 2 seals (wearing parts). Either the seals have become worn or foreign matter has caused damage. To eliminate the problem, replace the seals and clean the spout to remove lime scale and dirt deposits from the pipes.

Water always runs from both outlets with a concealed lever mixer for bath and shower.

There may be several feasons for this: Lime scale deposits on the diverter seat, a defective diverter seal or a worn diverter seat. In the first case, clean the diverter housing, in the second case replace the seal and in the third case call in the HANSA CUSTOMER SERVICE to cut out and replace the seat.

The cutter can be loaned out to plumbers from the factory.

My two-handle tap squeaks and is stiff.

Replace the upper section, as the ceramic discs are no longer greased.

Water no longer flows out of an electronic tap with battery

Check the solenoid valve. If this is working, check whether the Perlator is soiled. Check the battery voltage. Check angle valves/strainers.

Tap dripping under the wash basin.

Pipe assembly leaking; the tap connection is sealed with O-rings which may be leaking. Replace the pipe assembly and possibly the control cartridge.

Problems with Perlator spray.

Soiling of or lime scale deposits on inside of Perlator, Perlator seal defective, clean or remove lime scale deposits from inside of Perlator, replace the seal.

Wash basin plug does not close properly when lowered.

Seal for flared section of drain missing or not functioning properly. Disassemble the drain fittings again and re-establish the seal with suitable putty. DIN EN 274 allows for the escape of 1 litre within 1 hour.

The surface of the left side of a surface-mounted shower tap has become very dull.

This is not a surface defect, the left side (hot water side) becomes very hot when water is drawn off. Water can thus evaporate more easily and lead to greater lime scale deposits. The problem can be avoided by rubbing the tap dry after use.

Old, pre-1979 concealed plunger mixer no longer works properly (cross flow). Remove the entire tap, as the body has become eroded.

Remove the entire tap, as the body has become eroded. Repair not possible. Fit a new concealed mixer (e.g. HANSA-Varox).

After a few days or weeks cartridges always start to leak at the top. What could be the problem? Water hammer in the piping system. Probably a defective flush valve or the like. Rectify the cause.

Automatic switch-on or constant operation with Cobra electronic wash basin.

The fault is probably due to basin reflection. Remedy: Place a cloth in the front of the basin and perform Autoset. Keep the black knob on the underside pressed for approx. 15 seconds. The LED flashes 2x after approx. 5 sec. and a further 2 x after approx. 10 sec., then release. The electronics reset automatically. The setting is retained in the permanent memory.

I own a Cobra electronic mixer tap, the electronics are always flashing and do not always switch. Check the battery voltage and replace the battery if necessary.

WATER HAMMER in general.

Check pipe attachment, flow rate and dimensioning. The pipe material used is also a factor. Ensure conformity with standards (e.g. fit safety device, vacuum breaker etc.). Fit water hammer damper.

Low-pressure tap carries on dripping.

Low-pressure taps are supposed to drip (water expansion). If they drip for a very long time, check the connecting pipes (interchanged CU pipes). Also check for contamination of the spray regulator.

When I shut off my concealed thermostatic tap and turn it on again shortly afterwards, the water emerging at first is extremely hot. Why?

This is due to the control element with integrated shut-off. This unique unit has been supplied exclusively by HANSA for more than 30 years worldwide. As the hot water seat is opened first there may be a very brief increase in water temperature, which the control element then immediately re-adjusts to the desired temperature. To save energy, our aim is to make hot water available at the tap as quickly as possible.



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