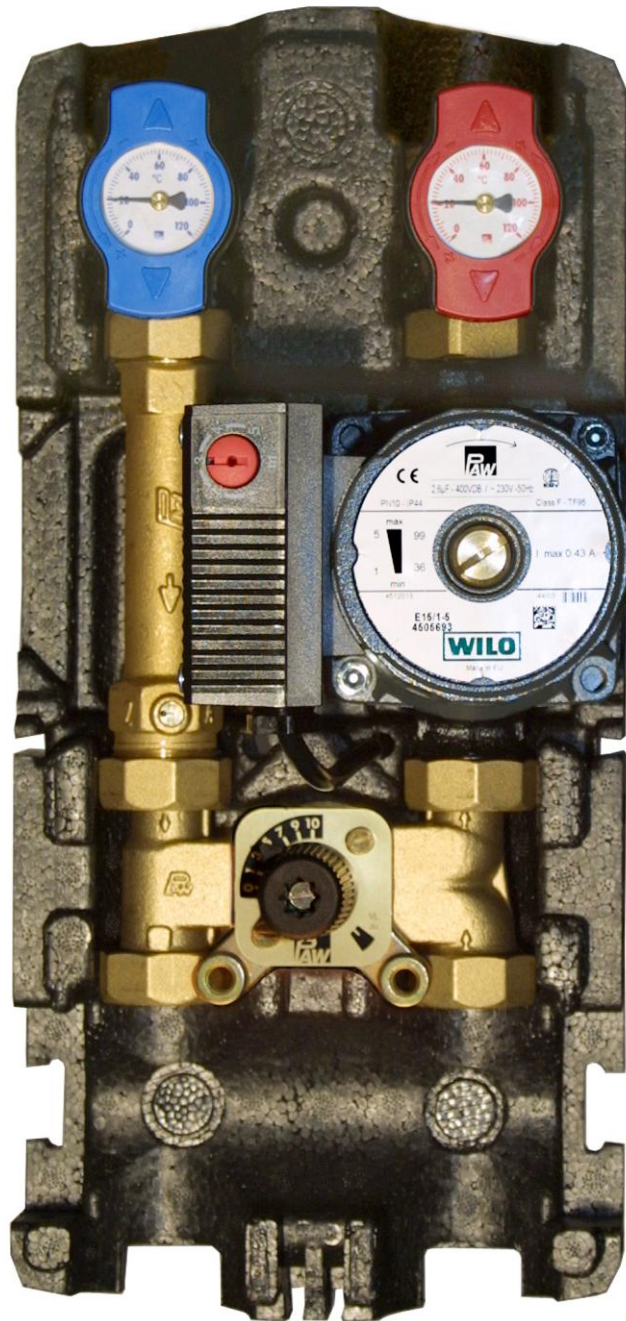




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Installation and User Guide

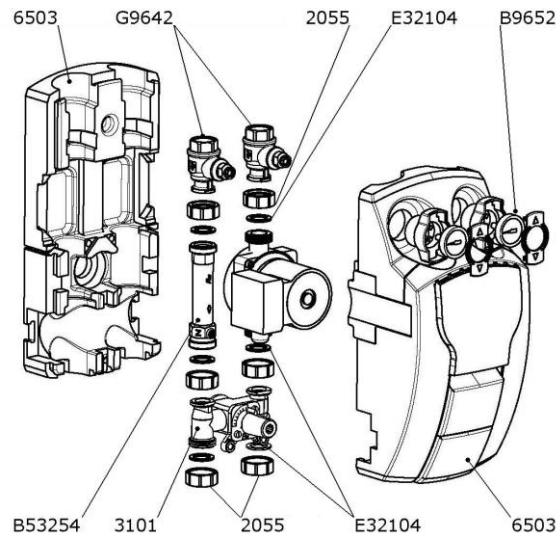
Low Temperature Zone Module K32
Residential Series – 3/4" with 3-way Mixing Valve



08/2006

Note: Product Information is subject to change without notice and supersedes all previous publications.

Scope of Supply



Pos.	Art. Code	Description	Quantity
1	G9642	Ball valve with integral thermometer 3/4"	2
2	B53254	Return pipe, brass, 3/4" x 130 mm/5.12"	1
3	3101	3-way mixing valve DN20, brass	1
4	Circulator	Heating circulation pump, 115 V, 60 Hz	1
5	B9652	Set of thermometer handles (red/blue) for heating DN20, 0-120°C/30-250°F	1
6	2055	Union nut DN 3/4", 1"F, brass	6
7	E32104	Gasket for union nut 1", EPDM	6
8	6503	Set of thermal insulation shells for heating circuit 3/4" V404	1

Technical Data

Low temperature zone module K32- residential series – 3/4"

MATERIAL	
Fittings	Brass
Seals	NBR / EPDM
Thermal insulation	EPP
SPECIFICATIONS	
Maximum operating pressure	8 bar/116 psi
Maximum supply temperature	110°C/230°F; short-term 130°C/260°F
DIMENSION	
Inlet	1" BSP male thread flat seat
Outlet	3/4" BSP female thread
Distance	90 mm / 3.5 inch
Overall length	255 mm / 10 inch
Height of thermal insulation	385 mm / 15.15 inch
Width of thermal insulation	180 mm / 7.09 inch

General Information

PAW heating zone modules are designed so that they can be mounted directly onto a PAW modular distribution manifold.

Threaded transition pieces (adapters) make it possible to mount PAW heating zone modules onto PAW modular distribution manifolds of different dimensions.

If necessary, PAW heating zone modules can be switched from design type “Right - hand supply” to “Left –hand supply” and vice-versa.

PAW heating zone modules can be equipped with a pressure bypass valve.

The integrated flow check valve prevents wrong circulation in the return line of the PAW heating zone modules. If necessary, this device can be opened intentionally.

Instructions for Installation and Start-Up

Safety Instructions

Make sure that only skilled and trained professionals are carrying out installation.

Do not use technical equipment that is defective or broken!

All operations must be conducted in accordance with the national Building Code regulations and local Electrical Code rules!

Only skilled and trained electrical personnel are authorized to carry out wiring operations. All field wiring made during installation must comply with:

- ◆ **National Electrical Code NFPA 70 and any other national, state, provincial or local codes or requirements.**
- ◆ **In Canada, CSA C22.1 Canadian Electrical Code Part 1, and any other local codes!**

Flow Check Valve

All PAW heating zone modules are equipped with a flow check valve integrated into the return pipe. The flow check valve is spring-loaded. Opening pressure is 200 mm/8" water column.

The flow check valve has to be put into open position for filling, drainage and venting. Put the adjusting pin into “A”= (open) position (see black mark).

During operation this pin must be in “Z” position (closed)!

Installation Instructions for Flow Port Change-Over

Lift forward and remove the front thermal insulation shell. Hold in place the thermometer handles to prevent them from falling out. Remove rear thermal insulation shell above the return pipe.

PAW heating zone modules with integrated mixing valve: Adjust mixing valve following the assembly instructions for flow connection inversion.

Change return pipe and pump (together with the respective upper ball valve).

Pay attention to the flow direction of the pump! Turn the pump head so that the terminal box is showing to the top or centre of the group of valves and fittings.

Install thermal insulation shell only upon completion of installation and commissioning.

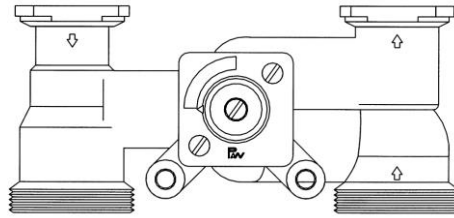
Start-Up

Before start-up: make sure that all union nuts are fastened tightly.

Install thermal insulation only after pressure/leak test. Finally install the thermometers and handles.

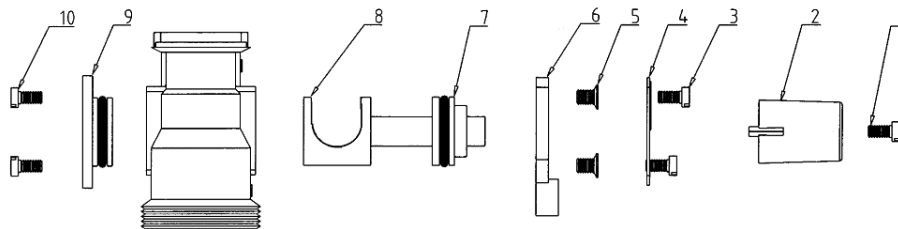
Instructions for Supply Port Changeover

Change from Right-hand supply flow to Left-hand supply flow



The 3-way mixing valve shown in the above illustration is mounted with R.H. flow. This can be seen from the front view:

- Both stacked pipes are R.H. side
- The cast-in marks (R.H. arrows) show to the top
- The scale of the mixer is shown with 9 o'clock (pos. 0) to 12 o'clock (pos. 10)
- On the top cover (scale) can be read "Vorlauf Rechts" (Right-hand supply).



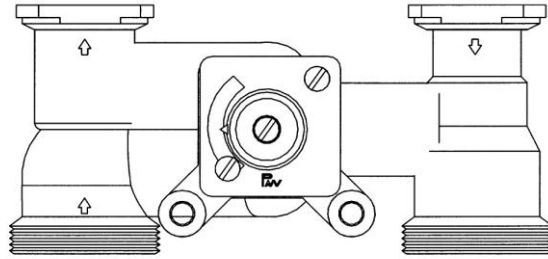
Procedure:

1. Unscrew the slotted screw (1).
 2. Remove the adjusting knob (2) from the plug rod (cock).
 3. Unscrew slotted screws (3).
 4. Remove top cover (4)
 5. Unscrew both slotted screws (5).
- Attention!:** These slotted screws may be fastened very tightly! Please make sure to use a geometrically true screwdriver.
6. Remove front plate (6).
 7. Extract gland nut (7) and the plug (8) from the mixing valve body.
 8. Unscrew rear slotted screws (10) of the mixing device.
 9. Remove rear cover (9) from mixing device and install the cover on the other side of the mixing device using the screws (10).
 10. Mount gland nut (7) and the plug (8) into the duct of the mixing device.
 11. Fasten tightly front plate (6) using the slotted screws (5).
 12. Turn top cover (4) so that you can read "Vorlauf links" (Left-hand supply) and the scale is running anti-clockwise from 10.30 (pos. 0) to 7.30 (pos. 10). Tighten top cover (4) using the slotted screws (3).
 13. Mount the adjusting knob (2) onto the plug rod (cock).

Attention!: At one end the plug is flat so that the knob (2) can catch in only into one particular lock position (angle) (pointer shows to the flat end).

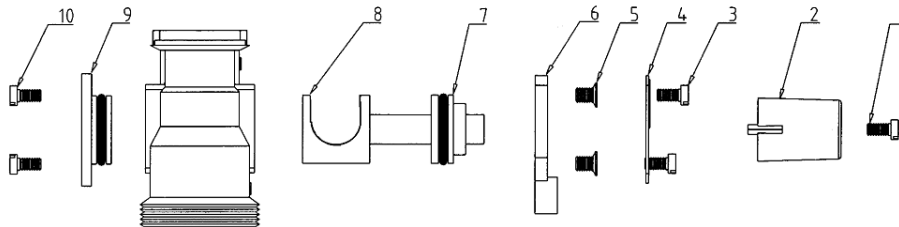
Fasten tight knob onto plug using the slotted screw (1).

Change from Left-Hand to Right-Hand Supply



The 3-way mixing valve shown in the above illustration is mounted with L.H. supply. This can be seen from the front view:

- Both stacked pipes are L.H. side
- The cast-in marks (L.H. arrows) show to the top
- The scale of the mixer is shown with 10:30 (pos. 0) to 7:30 (pos. 10)
- On the top cover (scale) can be read "Vorlauf Links" (Left -hand supply).



Proceaire:

1. Unscrew the slotted screw (1).
2. Remove the adjusting knob (2) from the plug rod (cock).
3. Unscrew slotted screws (3).
4. Remove top cover (4)
5. Unscrew both slotted screws (5).

Attention!: These slotted screws may be fastened very tightly! Please make sure to use a geometrically true screwdriver.

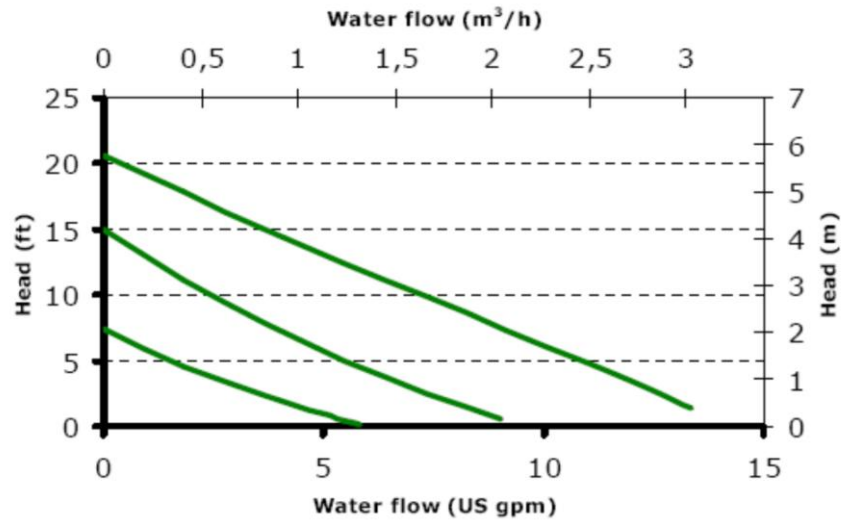
6. Remove front plate (6).
7. Extract gland nut (7) and the plug (8) from the mixing valve body.
8. Unscrew rear slotted screws (10) of the mixing device.
9. Remove rear cover (9) from mixing device and install the cover on the other side of the mixing device using the screws (10).
10. Mount gland nut (7) and the plug (8) into the duct of the mixing device.
11. Fasten tightly front plate (6) using the slotted screws (5).
12. Turn top cover (4) so that you can read "Vorlauf Rechts" (R.H. supply) and the scale is running clockwise from 9:00 (pos. 0) to 12:00 (pos. 10). Tighten top cover (4) using the slotted screws (3).
13. Mount the adjusting knob (2) onto the plug rod (cock).

Attention!: At one end the plug is flat so that the knob (2) can catch in only into one particular lock position (angle) (pointer shows to the flat end).

Fasten tight knob onto plug using the slotted screw (1).

WILO PUMPS

Star S 16 U



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All Classic Star and Circo Star circulator pumps manufactured by WILO AG are warranted to the original user only to be free of defects in materials and workmanship for a period of 30 months from the date of manufacture or 24 months from the date of installation whichever expires first. WILO liability under this warranty shall be limited to repairing or replacing at WILO's option, without charge, F.O.B. the closest WILO distributor or service depot, any Classic or Circo Star pump.

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All claims under this warranty must be returned to an authorized WILO distributor for processing along with proof of purchase. Installation date and replacement date. WILO authorized distributor will then contact WILO for final product evaluation and processing.

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