



DESCRIPTION

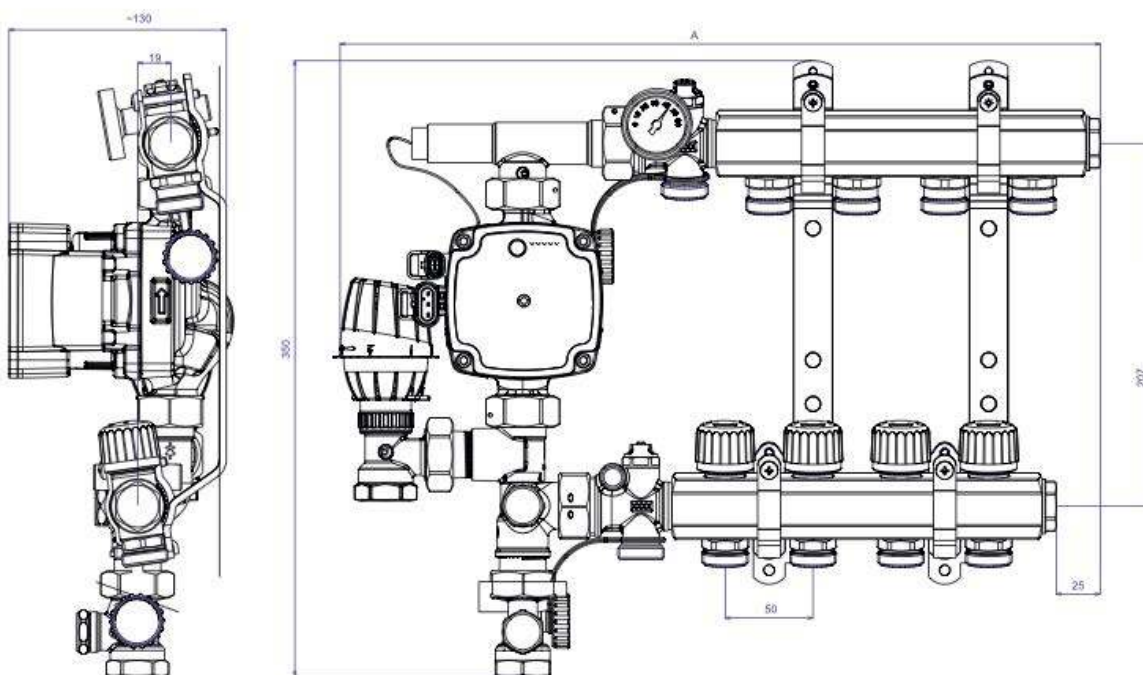
KVIKSHUNT

Shunt for floor heating installations, complete:

- of mixing kit with circulation pump (ErP Ready – 641/2009/EC – 622/2012/EC),
- thermostatic valve with remote sensor, non-return valve and balancing valve for balancing of return flow.
- Return manifold with thermostatic valves
- Galvanized steel brackets
- Self-sticking labels for circuits identification

Including 20/16 mm pex fittings.

DIMENSIONS



Circuits	2	3	4	5	6	7	8	9	10	11	12
A	333	383	433	483	533	583	633	683	733	783	833

Dimensions in mm

FIELDS OF APPLICATIONS

The new Pettinaroli KVIKSHUNT mixing kit with single temperature setting point can solve simply and cheaply the problem of mixed temperature heating systems.

The UPM3 AUTO pump (ErP Ready – 641/2009/EC – 622/2012/EC), is an electronic circulator able to adjust himself the performances to the installation requirements. So, the energy consumption will be reduced.

Thanks to the thermostatic head's remote sensor, the K7023 it's able to takes fluid from the primary heating circuit at high temperature (>55°C) and to mix it with the return to be able to supplies the secondary circuit with fluid at the right temperature (20-45°).

The remote sensor is placed in the sensor pocket.

MIXING KIT COMPONENTS

Thermostatic valve	Art. 760P – 3/4"
Non return valve	POM – DN20
Micrometric lockshield	Art. 993 – 3/4"
Remote sensor thermostatic head	Art.107LKIS
By-pass balancing valve	¾"
Pump	Grundfos UPM3 AUTO 15/70(*)
EEl Part2 or 3	≤ 0.20
P _{L,Avg}	≤ 25 W
P _{MAX}	≤ 52 W
Connecting Cable	1 m

TECHNICAL CHARACTERISTICS

Max. liquid teperature	80°C
Max. system presure	10 bar
Flow temperature range:	20-50 °C
Pump port-to-port length	130 mm
Pump ports diameter	G1"
Manifold inlet/outlet	3/4"x18 (Euro)
By-pass	0-800 l/h
Q _{max} at ΔP =3 m H ₂ O	2.800 l/h

(*) From 3 to 12 outlet . 2 outlet with UPM3 AUTO 15/50

MANIDOLD COMPONENTS

Manifolds	CW614N (UNI EN 12164) CuZn39Pb3
Brackets	Galvanized steel
Handwheels	ABS
O-ring	EPDM – NBR
Springs	Stainless steel
Stems	AISI 303
Stuffing-box	CW614N (UNI EN 12164) CuZn39Pb3
Headwork	CW614N (UNI EN 12164) CuZn39Pb3
Shutter	CW614N (UNI EN 12164) CuZn39Pb3

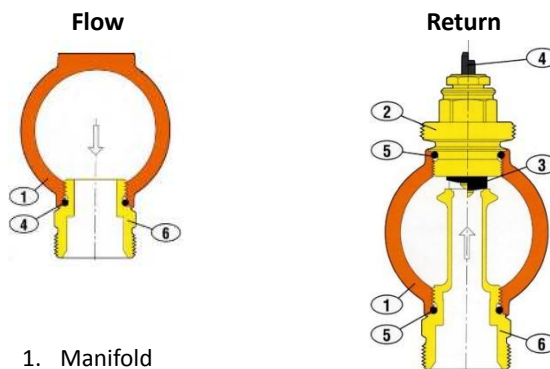
TECHNICAL SPECIFICATION

Max differential pressure	0.8 bar
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CONSTRUCTION DETAILS

The flow manifold is a full port manifold.

The return manifold is equipped with thermostatic headworks; by default, plastic handwheels control them.



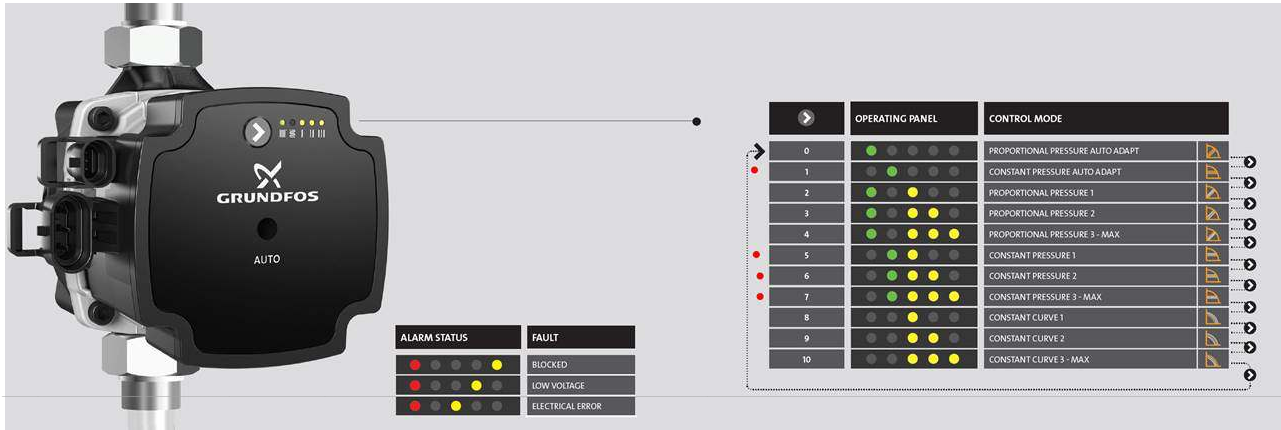
- 1. Manifold
- 4. O-Rings
- 6. Connection

- 1. Manifold
- 2. Headwork
- 3. Shutter
- 4. Stem
- 5. O-Rings
- 6. Connection

USER INTERFACE

By default the Grundfos UMP3 AUTO pump on the KVIKSHUNT is fixed on setting **constant pressure 3 (CP3)**. Marked as no. 7 below.

For underfloor heating, setting no. 1 (CP AUTO ADAPT), 5 (CP1), 6 (CP2) or 7 (CP3) (presetting) is recommended.



Setting selection

Settings can be changed pushing the button on the front of the pump. Settings are then displayed in order in a loop. When the button is released, the setting is chosen.

Below are displayed the recommended settings for underfloor heating:

	Display		Mode
1	● ● ● ● ●		Auto Adapt – Constant pressure
5	● ● ● ● ●		Constant pressure 1
6	● ● ● ● ●		Constant pressure 2
7	● ● ● ● ●		Constant pressure 3 (preset for underfloor heating)

Alarm status

If the circulator has detected one or more alarms, the bi-colored LED 1 switches from green to red. When an alarm is active, the LEDs indicate the alarm type as defined in the table below. If multiple alarms are active at the same time, the LEDs only show the error with the highest priority. The priority is defined by the sequence of the table. When there is no active alarm anymore, the user interface switches back to operation mode

Display	Indication	Pump operation	Solution
● ● ● ● ●	Rotor is blocked	Pump trying to start again every 1.33 sec.	Wait or de-block the shaft
● ● ● ● ●	Supply voltage too low	Only a warning - pump runs	Check the supply voltage
● ● ● ● ●	Electrical error	Pump stopped because of low supply voltage or serious failure	Check the supply voltage / exchange the pump