OPERATING LIMITS

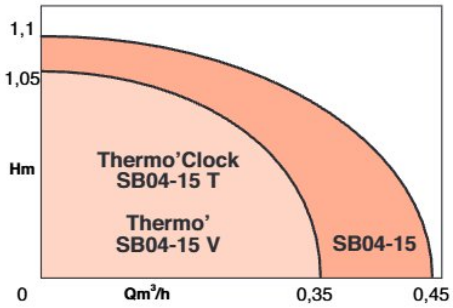
Flow up to:	0,45 m³/h
Maximum operating pressure:	10 bar
Minimum suction pressure:	0,2 bar*
Temperature range:	0° à + 95°C
Maximum ambient temperature:	+ 40°C
Water hardness (TH):	35°F
DN of ports:	ø 15

* at + 65° C

THERMO RANGE

SIMPLE DOMESTIC CIRCULATING PUMPS

Domestic hot water 50 Hz



APPLICATIONS

Faster circulation in domestic hot water distribution systems.
- Industrial systems.
- Solar circuits.
- Domestic installations.

Obtain instant hot water at the turn of a tap ; no stagnant water in the domestic hot water system.
Particularly suitable for boilers on the ground floor.

ADVANTAGES OF THE RANGE

- **Takes up little space**
  - **The Thermo and Thermo'clock versions include valve and stop-tap in just 138 mm between centres.**
- **Ultra Silent**
  - **Specially-designed mechanics.**
- **Reliable**
  - **New design to avoid the build-up of scale**
- **Rapid electrical connexions**
  - **Wide opening for the electric cables**
  - **Three widely-spaced levers**
  - **Very legible "Earth – Live – Neutral" markings**
  - **Ports easily accessible, for cables up to 2.5 mm²**
- **Easy to clean**
  - **Easily dismantled for any repairs to the components in contact with water**



Pumps On Line - www.pumps.co.za

THERMO RANGE

THE THERMO'CLOCK EXTRAS

Extra comfort
- The precision of the thermostat guarantees hot water at the temperature you want as soon as you turn the tap.

Extra safety
- Supports boilers in the fight against Legionnaires Disease
  Boilers arte increasingly incorporating automatic heat disinfection to kill Legionella.
  This operation involves raising the temperature of the water in the cistern to approx. 70°C.
  The "Thermal Disinfection" function of the Thermo'clock detects this operation and starts up to facilitate the circulation of water in the pipes.
- Automatic descaling

Extra economy
Energy:
- Reduced running time
- The Programmer provides an operation that suits the needs of users

Water:
- Less water wasted
- Instant distribution of hot water

Time:
- No more time lost waiting for hot water.

ADJUSTMENT



• The Icons
Time menu
Set the present time



Programmer Menu
Possible to program up to three time-slots (on/off) in any 24-hour period



Thermostat Menu
- Adjust the temperature settings
- Option of switching the "Thermal Disinfection" function on or off.



Display Menu
- Displays the present time or alternatively the minimum temperature set.
- If the message "Thermal Disinfection" is displayed, this function is activated

• Simple and intuitive adjustments
Turn to select an icon or set a parameter



Pressure > 3 sec:
Selects a menu
Short pressure:
Confirms the setting of a parameter





DESIGN

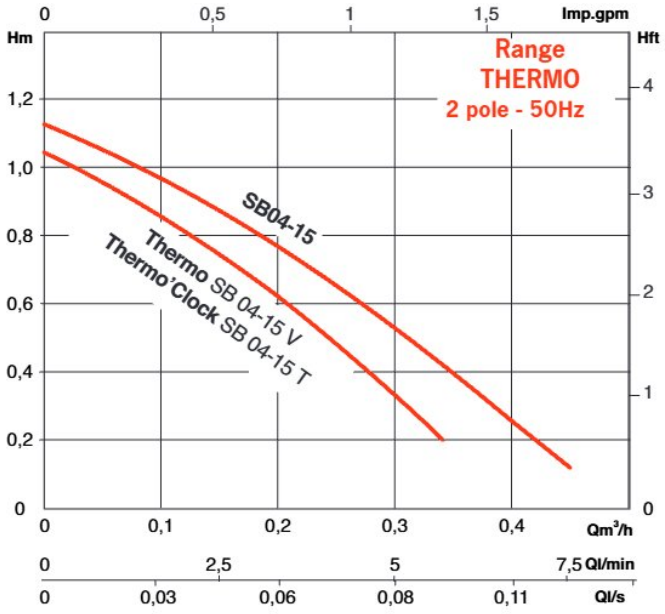
• Motor

Speed:	2600 tr/mn
Single winding:	230 V
Frequency:	50 Hz
Class of insulation:	155 (F)
Conformity:	NF EN 60.335.2.51 CE

BASIC CONSTRUCTION

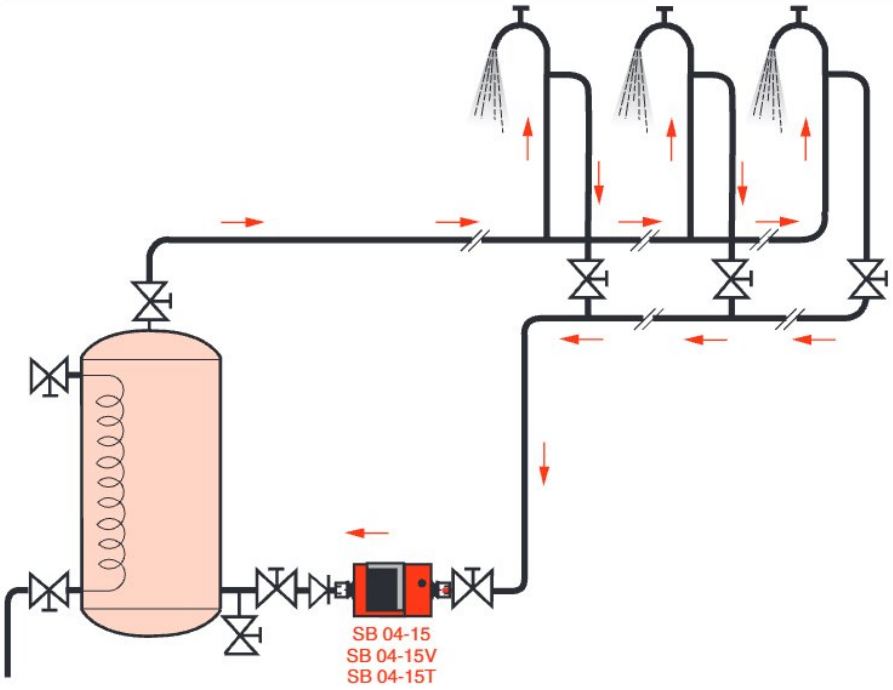
Main parts	Material
Body of pump	Brass
Body of motor	Polypropylene
Impeller	Composite material
Rotor shaft	Stainless steel
Bushes	Graphite
Rotor sleeve	Stainless steel
Pump joint	Ethylene Propylene

HYDRAULIC PERFORMANCE



Pumps On Line - www.pumps.co.za

INSTALLATION PLAN AND DETERMINING THE PUMP



Domestic hot water distribution loop

- Maximum temperature of the loop 60°C (D.T.U standard).
- Maximum recommended speed of flow between 0.5 and 1 m/s.
- Circulating pump mounted on the return leg of the loop, after the taps.

Overall length Piping	accommodates 1 to 10 tapping points
0 to 35 m	SB04-15 Thermo SB04-15 V Thermo'Clock SB04-15 T NSB05-15B
36 to 75 m	NSB10-15B
76 to 100 m	NSB15-15B

Selection for information purposes only, with the following criteria:

- Insulation Class 2 for the pipe-runs
- Hot water temperature: 60°C
- Fall of temperature round the system: 3°C
- Ambient temperature: 20°C
- External temperature: -7°C
- Ø of pipework: 15 mm

EXPLODED VIEW



• Thermo SB04-15V

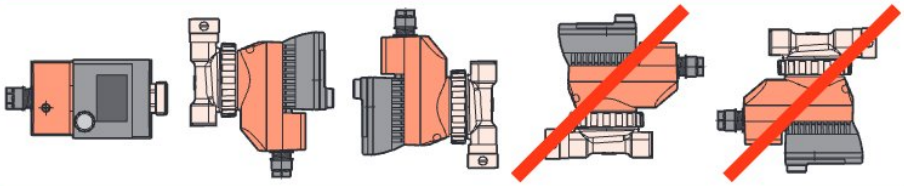


• Thermo'Clock SB04-15T

Pumps On Line - www.pumps.co.za

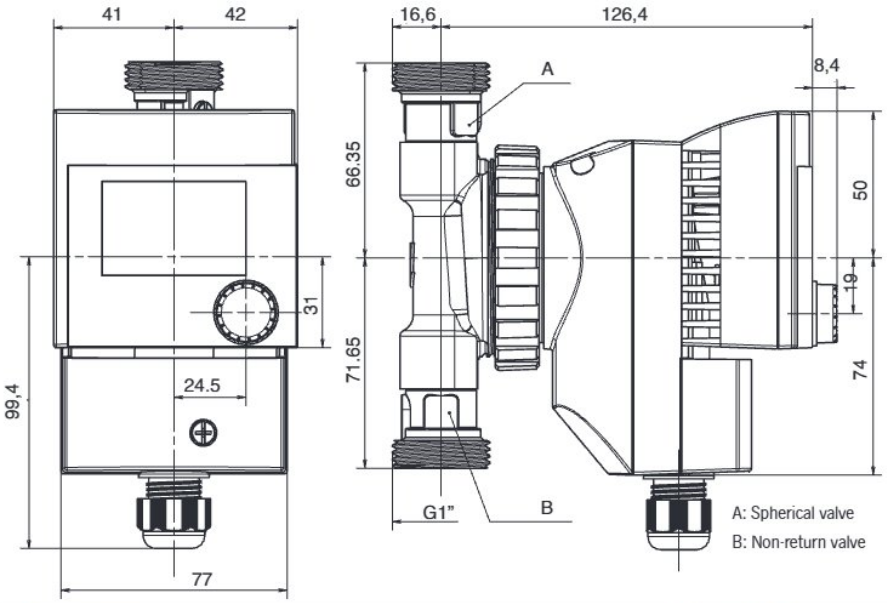
THERMO RANGE

POSITIONS FOR FITTING

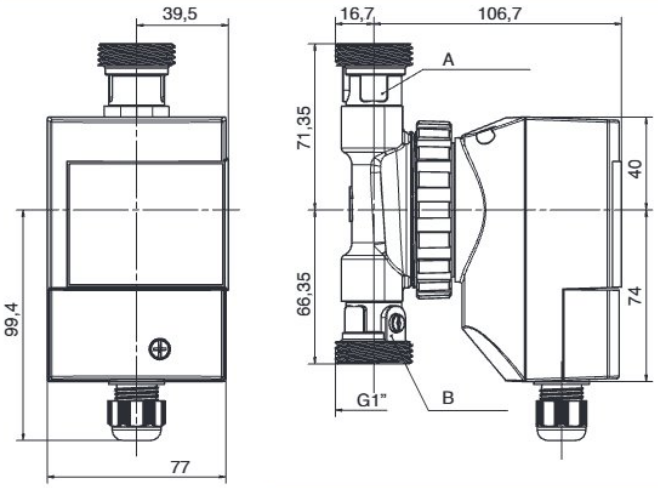


ELECTRICAL CHARACTERISTICS AND SIZES

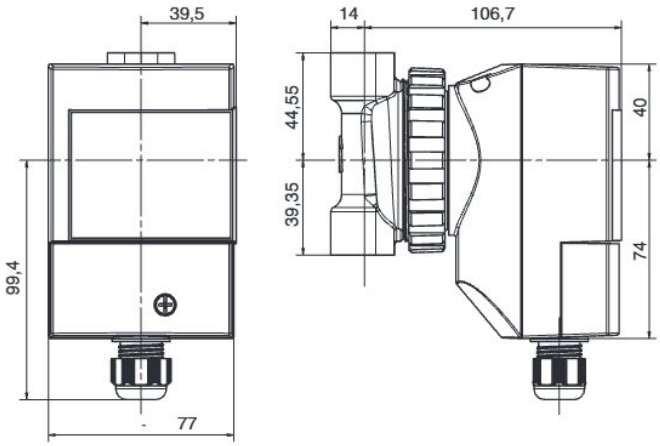
• **Thermo'Clock** SB 04-15T



• **Thermo** SB 04-15V



• **SB 04-15**



FEATURES

a) Electrical

All types in single-phase 230 V - 50 Hz
Standard voltage:
- tolerance 50 Hz ± 10 %,
- tolerance 60 Hz ± 6 %,

b) Fitting

- Fitted directly onto horizontal or vertical pipework, on the return leg of the distribution loop, after the taps.
- Axle of motor always horizontal.

Connection to the installation:
Depending on the model:
- with copper pipes, use soldered copper (R) connectors or screw-on brass (RU brass) connectors,
- with galvanised steel pipes use screw-on steel (RU) connectors.

c) Pack contains

- Supplied with joints, without connectors.

d) Maintenance

- Exchange standard of the appliance.

RECOMMANDED ACCESSORIES

- Soldered connectors
- Brass or steel union connectors
- Stop-cocks

REFERENCE FOR ORDER	MOTOR			PUMP		Connect to	
	Speed r.p.m.	P1 rating W	Amperage A	weight kg	Ø G mm	Soldered pipes	Threaded pipes
SB 04 – 15	2600	22	0,25	1,7	-	-	-
Thermo SB 04 – 15 V	2600	22	0,25	1,9	G1	RU 2022 (brass)	RU 1521 (brass)
Themo'clock SB 04 – 15 T	2600	22	0,25	2,1	G1	RU 2022 (brass)	RU 1521 (brass)

Pumps On Line - www.pumps.co.za