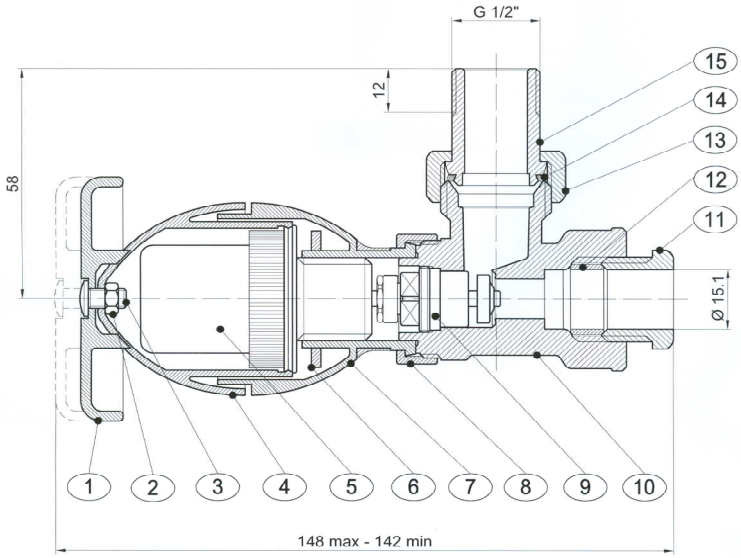
ART. 550 1/2"

Thermostatic valve

SECTION



TABLE

Ref.	Parts	Material	Q.ty
1	Handwhell	Axtrolac PLM25 (ABS)	1
2	Nut 3/16"W	EN12164-CW614N	1
3	Screw 3/16"W	EN12164-CW614N	1
4	Superior grip shell	BAYBLEND T45 (PC+ABS)	1
5	Thermostatic cup	Cu+AISI 304+therm. liquid	1
6	Ring compression	AISI 304	1
7	Shell bottom knob	BAYBLEND T45 (PC+ABS)	1
8	Nut	EN12164-CW614N	1
9	Valve	AISI 304+CW614N+EP	1
10	Body G 1/2"	EN12420-CW617N	1
11	Nut	EN12164-CW614N	1
12	Ring	P.T.F.E.	1
13	Nut G 3/4"	EN12420-CW617N	1
14	O-Ring 17,17 x 1,78	NBR	1
15	Union G 1/2"	EN12420-CW617N	1

DESCRIPTION

Burnished brass thermostatic valve with handle in high quality plastic material for iron pipe.

STANDARD FEATURES

Thermostatic head with liquid sensor.
- *Temperature range: 5 ÷ 110°C*
- *Max. working pressure: 10 Bar*

- *Minimum head calibration: 10°C in position 1*
- *Maximum head calibration: 30°C in position 5*
- *Weight: 559 g*

Idrosfer declines every responsibility if products that are not compatible with materials used for the construction of their valves are identified.
To be used as a guide only, Idrosfer reserves the right to modify these details if deems it appropriate and without giving prior notice.

ASSEMBLY, USE AND MAINTENANCE INSTRUCTION

EQUIPMENT PRESSURE DESCRIPTION: RADIATOR VALVES

USE

The intercepted fluid must be compatible with the construction materials: brass (copper alloys).

WARNING!

IT IS USEFUL TO EMPTY THE TAP AND THE SYSTEM COMPLETELY WHEN THE INTERCEPTED FLUID COULD SOLIDIFY AT TEMPERATURES LOWER THAN 0°C (FOR EX., WATER) AND INCREASE ITS VOLUME DAMAGING ITS SEALING.

ASSEMBLY

Before installing make sure the pipe into which the valve is screwed does not show impurities that may damage the ball and the seat tightness causing leaking.

To seal the threadings use a dope compatible with the intercepted fluid without exceeding to avoid unuseful efforts when assembling.

After installing make sure the tap does not undergo stresses due to an exceeding anchorage distance or to unparallel pipes, then, support the pipes with the proper clamps.

The tap must be manoeuvred exclusively with the lever handle supplied with the kit without using any other supplementary lever handles.

MAINTENANCE

Before take a valve apart, make sure that the pipe are not under pressure.

Every six months check the tap visually to verify there are no defects that may cause problems when using it and, if the case, replace it. Before acting on the tap make sure that the pipes are not under pressure.
We are not responsible in case of tampering without our authorization, in this case the warranty expires.

WASTE DISPOSAL

After replacement of the tap, it must be disposed according to the laws (about the waste disposal) of the Country of destination.
The waste (disused tap) can also be identified as recyclable material.

LIST OF INCOMPATIBLE SUBSTANCES

Many chemical substances react in a dangerous way when they come in touch with others.

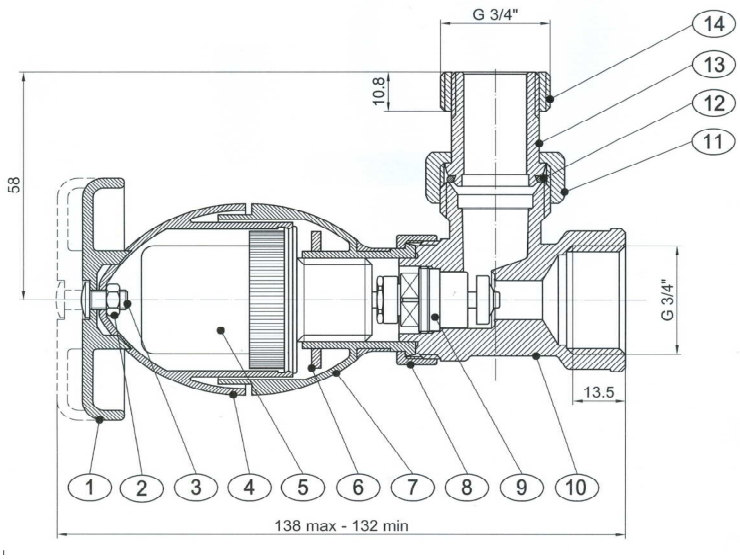
Please find below a list of the main incompatible substances, by way of a non-limiting example.

Acetylene	with copper (piping), halogens, silver, mercury and their compounds
Acetone	with concentrated mixtures of sulphuric and nitric acid
Acetic acid	with chromic acid, nitric acid, hydroxyls, ethylene glycol, perchloric acid, peroxides and permanganates
Chromic acid	with acetic acid, naphthalene, camphor, alcohol, glycerol, turpentine and inflammable fluids
Nitric acid	with acetic, chromic and cyanogenic acid, aniline, carbon, hydrogen sulphide ,fluids, gases and substances that are promptly nitrated
Oxalic acid	with silver and mercury
Perchloric acid	with acetic anhydride, bismuth and its alloys, alcohol, paper, wood, fats and other organic substances
Hydrogen sulphide	with nitric acid and oxidants.
Sulphuric acid	with chlorates, perchlorates, permanganates and water.
Alcohols and Polyols	with nitric acid.
Anhydrous ammonia	with mercury, halogens, calcium hypochlorite and hydrogen fluoride
Ammonium nitrate	with acids, metal powders, sulphur, combustible materials
Aniline	with nitric acid and hydrogen peroxide
Silver	with acetylene, oxalic acid, tartaric acid and ammonic compounds
Arsenic (materials containing	with any reducing agent
Azidos	with water.
Chlorine dioxide	with ammonia, methane, phosphine, hydrogen sulphide
Bromine	with ammonia, acetylene, butadiene, butane, hydrogen, sodium carbide, turpentine and
Activated carbon	with all oxidizing agents, calcium hypochlorite
Cyanides	with acids and alkali
Chlorates	with ammonia salts, acids, metal powders, sulphur, finely pulverized organic and flammable compounds and carbon
Chlorine	with ammonia, acetylene, butadiene, petrol and other by-products of oil, hydrogen, sodium carbide, turpentine and finely pulverized metals
Chloroform	with sodium and potassium
Chlorides	with sulphuric acid
Dichloromethane	with sodium and potassium
Chlorine dioxide	with ammonia, methane, phosphine, hydrogen sulphide
Fluorine	with all other chemical substances
(White) phosphorus	with air, oxygen, alkali, reducing agents
Hydrocarbons in general	with fluorine, chlorine, formic acid, chromic acid, sodium peroxide
Hydrogen sulphate	with nitric acid vapours and oxidizing gasses
Iodine	with acetylene and ammonia
Hypochlorite	with acids, activated carbon
Flammable fluids	with ammonium nitrate, chromic acid, hydrogen peroxide, nitric acid, sodium peroxide and halogens
Mercury	with acetylene, fulminic acid, hydrogen
Alkaline metals(e.g. calcium potassium, sodium)	with water, carbon dioxide, carbon tetrachloride, and other chlorinated hydrocarbons
Ammonium nitrate	with acids, metal powders, flammable fluids, chlorates, nitrates, sulphur and finely pulverized organic substances or flammable compounds
Nitrites and Nitrates	with acids
Nitroparaffin	with inorganic bases, amines
Calcium oxide	with water
Oxygen	with oils, fats, hydrogen, flammable fluids, solids and gasses
Phosphorus pentoxide	with water
Potassium perchlorate	with sulphuric acid and other acids.
Potassium permanganate	with glycerol, ethylene glycol, benzaldehyde and sulphuric acid
Hydrogen peroxide	with chromium, copper, iron, most other metals and their salts, flammable fluids and other combustible materials, aniline and nitromethane
Sodium peroxide	with any oxidizable substance, such as methanol, glacial acetic acid, acetic anhydride, benzaldehyde, carbon disulphide, glycerol, ethyl acetate and furfural.
Potassium	with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane
Copper	with acetylene, azide and hydrogen peroxide
Sodium	with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane
Sodium azide	with lead, copper and other metals. This compound is usually employed as a preservative, but it forms unstable and explosive compounds with metals
Selenium	with reducing agents
Sulphides	with strong acids
Carbon tetrachloride	Sodium, potassium

ART. 550 3/4"

Thermostatic valve

SECTION



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4	Superior grip shell	BAYBLEND T45 (PC+ABS)	1
5	Thermostatic cup	Cu+AISI 304+therm. liquid	1
6	Compression ring	AISI 304	1
7	Shell bottom knob	BAYBLEND T45 (PC+ABS)	1
8	Nut	EN12164-CW614N	1
9	Valve	AISI 304+CW614N+EP	1
10	Body G 3/4"	EN12420-CW617N	1
11	Nut G 3/4"	EN12420-CW617N	1
12	O-Ring 17,17 x 1,78	NBR	1
13	Union G 1/2"	EN12420-CW617N	1
14	Reduction 1/2" x 3/4"	EN12164-CW614N	1

DESCRIPTION

Burnished brass thermostatic valve with handle in high quality plastic material for iron pipe.

STANDARD FEATURES

Thermostatic head with liquid sensor.
- Temperature range: 5 ÷ 110°C
- Max. working pressure: 10 Bar

- Minimum head calibration: 10°C in position 1
- Maximum head calibration: 30°C in position 5
- Weight : 457 g

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ASSEMBLY, USE AND MAINTENANCE INSTRUCTION

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USE

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To seal the threadings use a dope compatible with the intercepted fluid without exceeding to avoid unuseful efforts when assembling.

After installing make sure the tap does not undergo stresses due to an exceeding anchorage distance or to unparallel pipes, then, support the pipes with the proper clamps.

The tap must be manoeuvred exclusively with the lever handle supplied with the kit without using any other supplementary lever handles.

MAINTENANCE

Before take a valve apart, make sure that the pipe are not under pressure.

Every six months check the tap visually to verify there are no defects that may cause problems when using it and, if the case, replace it. Before acting on the tap make sure that the pipes are not under pressure.
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Nitric acid	with acetic, chromic and cyanogenic acid, aniline, carbon, hydrogen sulphide ,fluids, gases and substances that are promptly nitrated
Oxalic acid	with silver and mercury
Perchloric acid	with acetic anhydride, bismuth and its alloys, alcohol, paper, wood, fats and other organic substances
Hydrogen sulphide	with nitric acid and oxidants.
Sulphuric acid	with chlorates, perchlorates, permanganates and water.
Alcohols and Polyols	with nitric acid.
Anhydrous ammonia	with mercury, halogens, calcium hypochlorite and hydrogen fluoride
Ammonium nitrate	with acids, metal powders, sulphur, combustible materials
Aniline	with nitric acid and hydrogen peroxide
Silver	with acetylene, oxalic acid, tartaric acid and ammonic compounds
Arsenic (materials containing	with any reducing agent
Azidos	with water.
Chlorine dioxide	with ammonia, methane, phosphine, hydrogen sulphide
Bromine	with ammonia, acetylene, butadiene, butane, hydrogen, sodium carbide, turpentine and
Activated carbon	with all oxidizing agents, calcium hypochlorite
Cyanides	with acids and alkali
Chlorates	with ammonia salts, acids, metal powders, sulphur, finely pulverized organic and flammable compounds and carbon
Chlorine	with ammonia, acetylene, butadiene, petrol and other by-products of oil, hydrogen, sodium carbide, turpentine and finely pulverized metals
Chloroform	with sodium and potassium
Chlorides	with sulphuric acid
Dichloromethane	with sodium and potassium
Chlorine dioxide	with ammonia, methane, phosphine, hydrogen sulphide
Fluorine	with all other chemical substances
(White) phosphorus	with air, oxygen, alkali, reducing agents
Hydrocarbons in general	with fluorine, chlorine, formic acid, chromic acid, sodium peroxide
Hydrogen sulphate	with nitric acid vapours and oxidizing gasses
Iodine	with acetylene and ammonia
Hypochlorite	with acids, activated carbon
Flammable fluids	with ammonium nitrate, chromic acid, hydrogen peroxide, nitric acid, sodium peroxide and halogens
Mercury	with acetylene, fulminic acid, hydrogen
Alkaline metals(e.g. calcium potassium, sodium)	with water, carbon dioxide, carbon tetrachloride, and other chlorinated hydrocarbons
Ammonium nitrate	with acids, metal powders, flammable fluids, chlorates, nitrates, sulphur and finely pulverized organic substances or flammable compounds
Nitrites and Nitrates	with acids
Nitroparaffin	with inorganic bases, amines
Calcium oxide	with water
Oxygen	with oils, fats, hydrogen, flammable fluids, solids and gasses
Phosphorus pentoxide	with water
Potassium perchlorate	with sulphuric acid and other acids.
Potassium permanganate	with glycerol, ethylene glycol, benzaldehyde and sulphuric acid
Hydrogen peroxide	with chromium, copper, iron, most other metals and their salts, flammable fluids and other combustible materials, aniline and nitromethane
Sodium peroxide	with any oxidizable substance, such as methanol, glacial acetic acid, acetic anhydride, benzaldehyde, carbon disulphide, glycerol, ethyl acetate and furfural.
Potassium	with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane
Copper	with acetylene, azide and hydrogen peroxide
Sodium	with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane
Sodium azide	with lead, copper and other metals. This compound is usually employed as a preservative, but it forms unstable and explosive compounds with metals
Selenium	with reducing agents
Sulphides	with strong acids
Carbon tetrachloride	Sodium, potassium