INSET MIXING VALVES

Thermostatic mixing valves

Technical data sheet







Inset mixing valve

The T81 range of inset mixing valve are compact mixing valves specially designed for sanitary installations requiring inset installation. They allow to obtain water at a preset and constant temperature. The T81 family of concealed mixers is equipped with a compact thermoplastic cartridge, CP7. This removable and interchangeable cartridge facilitates the maintenance of the device, ensures protection against legionella, is precise and highly reliable. The performance of the T81 family of mixers complies with the EN1111 standard.

- Customisation available : all devices may be supplied bare to allow any customisation of handles, rosettes and dials
- High reliability and precision of CP7 thermostatic cartrtidge
- Modular, interchangeable mechanism
- Max. flow rate from 32 to 50l/min

- Conform to EN1111
- Easy maintenance and installation
- Excellent regulation
- Protection agains legionella
- Anti-scald protection

Technical features	
Maximum static pressure	10 bar
Minimum operating pressure	1 bar
Maximum flow rate under 3 bar	421/min
Hot water temperature	85°C (60-70°C recommended)
Minimum temperature variation between inlets	10°c
Maximum pressure variation between inlets	1.5 bar
Setting range	15 to 50°C

Approvals

ACS

CP7 cartridge

The CP7 thermoplastic cartridge is specifically designed for incorporation. The cartridge offers the best temperature regulation and flow capacity with one single geometry. The CP7 cartridges has many advantages :

- Outstanding reliability
- Anti-scalding safety and regulation : compliance with EN1111
- Anti-limescale with polymer body : low sensitivity to limescale
- Can be preset at a specific temperature
- Light weight

This cartridge regulates the mixed water temperature thanks to a wax element. Depending on the temperature of the mixed water, this element will expand or retract to adjust the hot and cold water dosage until the desired temperature is reached. For example, if the water is too hot, the wax element will expand and push a "stem" out of the cartridge, like an actuator. This will act on the distributor which will increase the quantity of cold water and decrease the quantity of hot water.

The answer against legionella

The thermostatic cartridge can be dismantled, replaced and protects from legionella thanks to a thermal shock. En effet il est possible de procéder à un choc thermique. By simply removing the rosette and turning the cartridge to the maximum hot position, the device allow the hot water circulate. Bacteria is killed above 60°C.

Application

For bathrooms and any other sanitary fittings requiring inset installation :

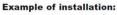
• Shower cubicles

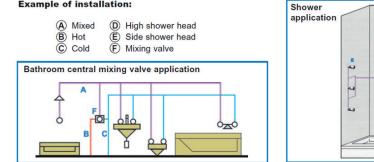
- Prefabricated shower panels
- Sinks



Installation

The water is mixed as closed as possible to the points of use regarded as being « at risk », like showers, the volume of water between the mixer receiving very hot water (> 50° C) and the final supply pipework is less than 3litre in compliance with the regulation.





Description

This model is composed of 2 free outlet without flow tap. Provide it f is directly connected to shower head or a spout. The embedding kit and the temperature kit are included with the mixing valve.



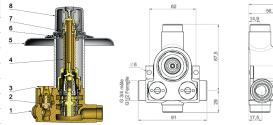
Model T8137

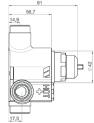
Thermostatic mixing valves

Туре	Connection	Flow rate	Ref.	Weight (kg)
Complete mixing valve, rosette 150mm, standard handle	F 1/2" M3/4"	50l/min	T8137S	1,75
Complete mixing valve, rosette 150mm, standard handle	F 1/2" M3/4"	50l/min	T8137C	1,85

Nomenclature and materials

N°	Description	Materials
1	Body	Brass CB770S
2	Replacement cartridge	TCP7
3	Valve	Brass + EPDM + Stainless steel
4+7	Kembedding kit	Brass + plastic
5	Rosette	Brass
6	Temperature kit	ABS
8	Handle	ABS







Description

This mixing valve has one high outlet. The embedding kit and the temperature kit are included with the mixing valve.

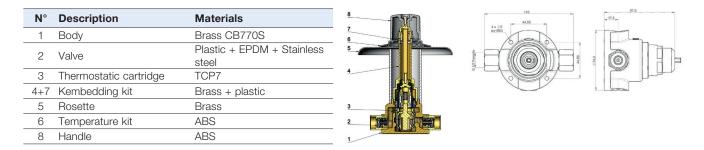


Model T8175

Thermostatic mixing valves

Туре	Connection	Flow rate	Ref.	Weight (kg)
Complete mixing valve, rosette 150mm, standard handle	F 1/2"	42l/min	T8175S	2,1
Complete mixing valve, rosette 150mm, consulate handle	F 1/2"	42l/min	T8175C	2,2
Complete mixing valve, rosette 150mm, no handle	F 1/2"	42I/min	T8175SM	1,8
Bare mixing valve	F 1/2"	42l/min	T8175	1,5

Nomenclature et materials



Replacement cartridge



For mixing valve type	Cartridge type	Ref.
T8137	CP7	TCP7
T8175	GP7	1687

Kembedding kit



This installation kit is designed for all inset mixing valves that are fitted with a TCP7 cartridge, such as the T8137, T8147, T8175. It consists of a length adaptor, friction unit (pipe-nut), plastic bushing and a square tube.

For mixing valve type	Ref.
T8137	- 22T108375NM
T8175	- 221108375INIVI

ABS temperature kit



For mixing valve type	Ref.
T8137	— 22T108376
T8175	221106376

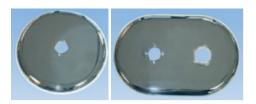
Handles



For mixing valve type	Standard handle art.number	Consulate handle art. number
T8137	T108193	T108262
T8175	T108193	T108262

Manette consulat chromée Manette standard chromée

Chrome rosette fitting



Description	Ref.
Standard	22T108193
Consulat	22T108262
Thala white	22T107870
Thala chromium	22T107871

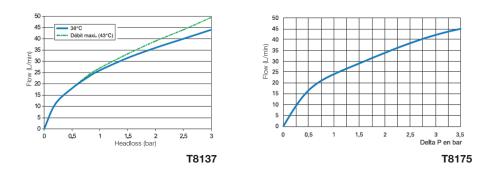
Oval chrome rosette fitting		
Ø130mm chrome rosette fitting		
For mixing valve type	Ref.	
T8137	T109819	
T8175	T109819	

Cartridge extractor

Ø150mm chrome rosette fitting		
For mixing valve type	Ref.	
T8137	T109813	
T8175	T109813	

	For mixing valve type	Ref.
-	T8137	TB120014
	T8175	TB120014

Fonctionnement



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