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# Mixing valve NiTea®

The NiTea is a mixing valve for professional coffee machines capable of delivering hot water for the preparation of infusions at the desired temperature and with a high degree of accuracy and stability. The system is able to mix the hot water coming from the boiler and the cold water coming from the water network passively, without any power supply, granting the mixed water always at the optimal temperature.
The valve is able to behave in a reactive way thanks to an actuator with shape memory material that varies mixing ratio by compensating any possible fluctuation of the working conditions. The possibility of setting the brewing temperature makes the system able to meet the needs of the most demanding users without increasing the complexity of the traditional hydraulic circuit of the machine.

Advantages:

- No power supply
- High accuracy, stability and reliability
- Semplified installation

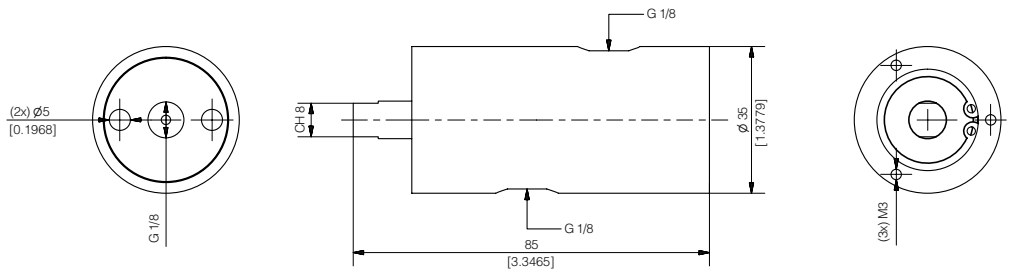


## MAIN APPLICATIONS

- Coffee machines
- Beverage equipments

## TECHNICAL INFORMATION

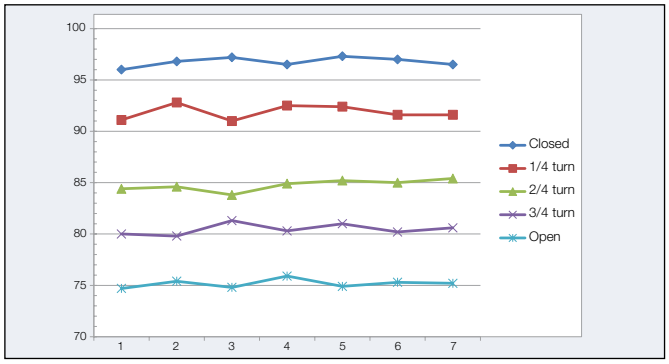
| | |
|---|---|
| Hot component temperature | 110 - 135 °C / 230 - 275 °F |
| Cold component temperature | 5 - 35 °C / 41 - 95 °F |
| Range of setting temperature of the mixed water | 78 - 98 °C / 172 - 208 °F (boiling) |
| Range of setting | Continuous |
| Accuracy | ± 2 °C / 3.6 °F |
| Cold component work pressure | 1 - 9 bar / 14.5 - 130.5 psi |
| Threaded inlet - outlet | G 1/8 inch |
| Weight | 450 g / 0.99 lb |
| Materials standard compliant | EC 1935/2004 NSF51 |




Dimensions in mm [inches]

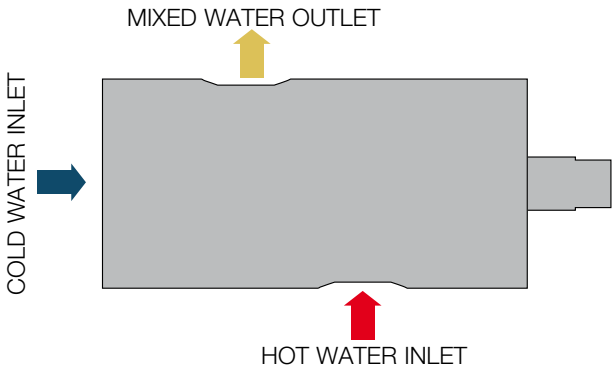
## PERFORMANCE

Pressure cold component = 6 bar / 87 psi
Spilled water = 400 g / 0.88 lb
The corrispondence between the plug position and temperature is indicative because the setting is continous.

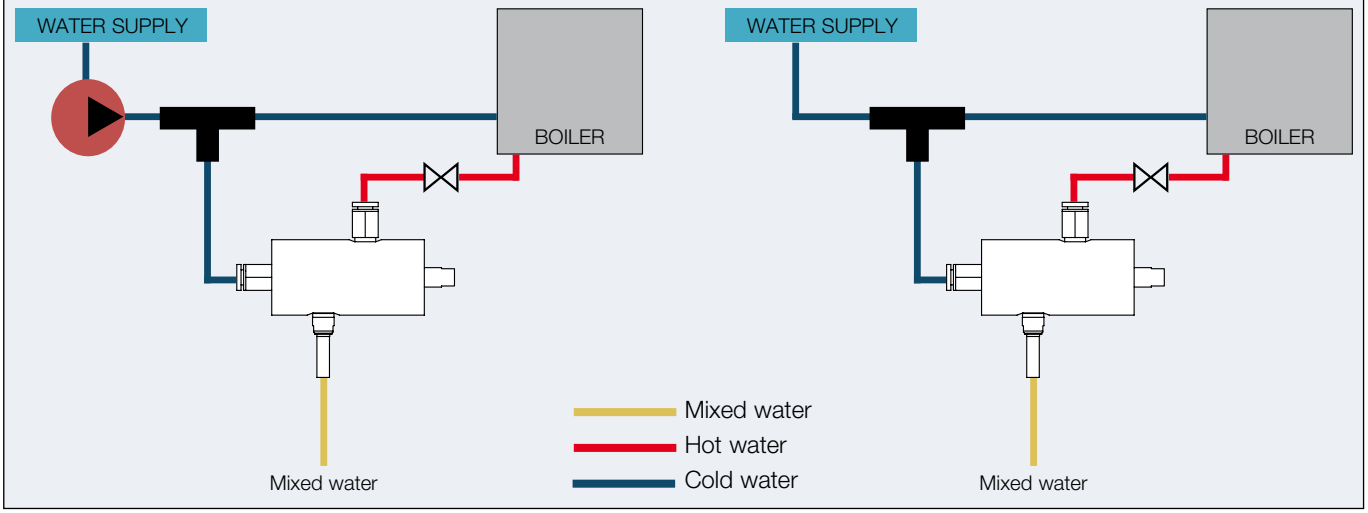



## DESIGN AND OPERATION PRINCIPLE

The SMA actuator spring moves the shutter to mix hot and cold water; when there is no hot water (boiler outlet valve closed) the bias spring closes the cold water inlet.




## OPERATION PRINCIPLE




Fluid-o-Tech reserves the right to alter the specifications indicated in this catalogue at any time and without prior notice.

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