

## THREE WAY MIXING VALVE WITH PISTON OBTURATOR - K297



### Description

K297 mixing valve can be used in hydronic heating and cooling systems, for an effective control of the temperature of water delivered to the system. The mix between flow from central unit and return from the system is modulated by a piston obturator with linear characteristic.

K274J actuator (24 V – 3 points floating or 0-10 V), that can be purchased separately, is completely integrated with Giacoklima thermoregulation systems.

### Versions and product codes

| Product code | DN | Threaded connections | Kv  | Actuator product code                             | ΔP max. N.C. (kPa) |
|--------------|----|----------------------|-----|---|--------------------|
| K297Y004     | 20 | 3/4" F               | 6,3 | K274Y022 (3 points floating)<br>K274Y042 (0-10 V) | 950                |
| K297Y005     | 25 | 1" F                 | 10  | K274Y022 (3 points floating)<br>K274Y042 (0-10 V) | 595                |
| K297Y006     | 32 | 1 1/4" F             | 16  | K274Y022 (3 points floating)<br>K274Y042 (0-10 V) | 360                |
| K297Y007     | 40 | 1 1/2" F             | 25  | K274Y022 (3 points floating)<br>K274Y042 (0-10 V) | 235                |
| K297Y008     | 50 | 2" F                 | 40  | K274Y022 (3 points floating)<br>K274Y042 (0-10 V) | 145                |

### Technical data

Max. fluid temperature: 140 °C (1 bar saturated steam)

Ambient temperature range: -20÷65 °C

Max. working pressure: 16 bar

Female thread connections: Cylindrical gas (DIN 259, ISO 228-1)

Obturator stroke: 8 mm (DN20)

13 mm (DN25, DN32)

19 mm (DN40, DN50)

Max. Δp with completely open valve: 249 kPa (DN20, DN25, DN32)  
200 kPa (DN40, DN50)

### Compliance

PED 97/23/EC (Article 3.3) CE mark not required (DN20, DN25)

PED 97/23/EC (Category 1, mod. A) CE mark applied (DN32, DN40, DN50)

### Materials

Valve body: bronze - ANSI B16.15, class 250

Stem: stainless steel

Seat and obturator: brass with soft disc

Stuffing box: EPR conical scalar ring

### Main features

Some technical information is also on the brass collar of the valve:

- KV / CV
- Max. fluid temperature
- Pressure Test
- Production date

|   |    |    |
|---|----|----|
| L | yy | ww |
|---|----|----|

L: function

yy: year

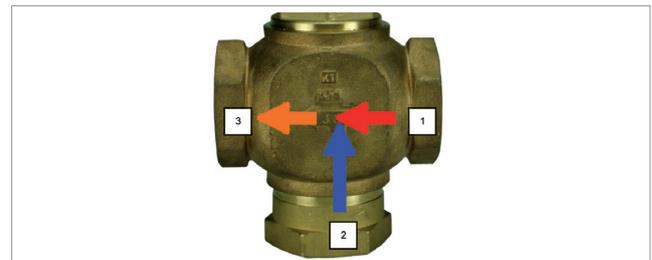
ww: week



### Allowed installations



### Flow directions



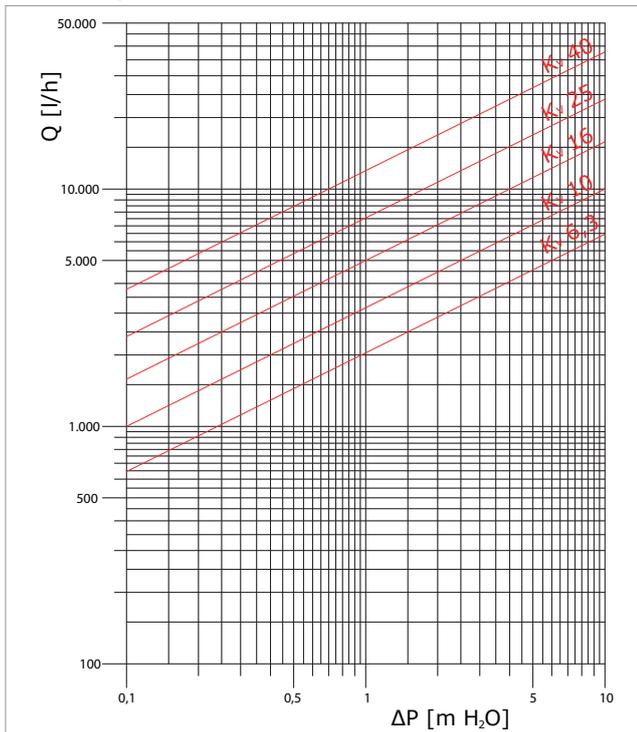
1) Connection to central unit

2) By-pass connection

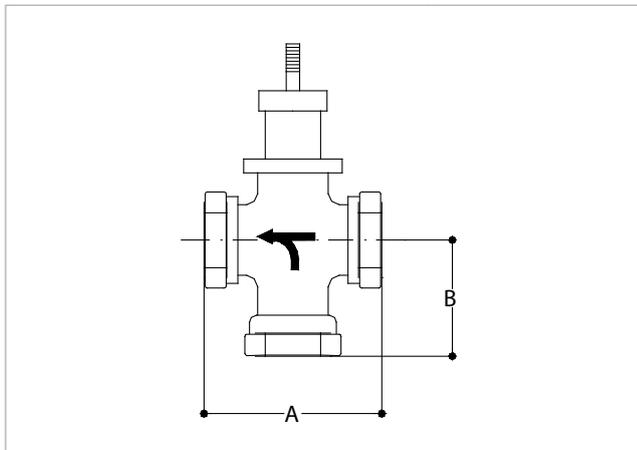
3) Mixing unit

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### Losses of pressure



### Dimensions



| Product code | A (mm) | B (mm) |
|--------------|--------|--------|
| K297Y004     | 80     | 54     |
| K297Y005     | 105    | 65     |
| K297Y006     | 120    | 70     |
| K297Y007     | 130    | 85     |
| K297Y008     | 150    | 95     |

### Additional information

For additional information please check the Giacomini website at the following address: [www.giacomini.com](http://www.giacomini.com)

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