

R298N

3-way mixing valve with bonnet



Energy
Management

Datasheet
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R298N

The R298N mixing valve allows for the interception and mixing of heating fluid in radiant heating and cooling systems for floors or ceilings and in medium-size radiator heating systems that require precise control of water supply temperature.

The R298N valve is equipped with a handwheel for manual operation, or alternatively, it can be coupled to a K281 actuator for automatic control.

Versions and codes

PRODUCT CODE	CONNECTIONS	ACTUATOR CONNECTION
R298Y024	G 3/4" F	M30 x 1,5 mm (red handwheel)

Completion codes

- K281X012: proportional actuator 0..10 V, power supply 24 V
- K281X014: fast actuator (4 s), proportional 0..10 V, power supply 24 V
- K281X022: 3-point floating actuator, power supply 24 V

Accessories

- P19Y001: ring nut M30 x 1,5 mm for adapting valve R298 M28 x 1,5 mm threading
- P19Y002: ring nut M28 x 1,5 mm for adapting valve R298 M30 x 1,5 mm threading

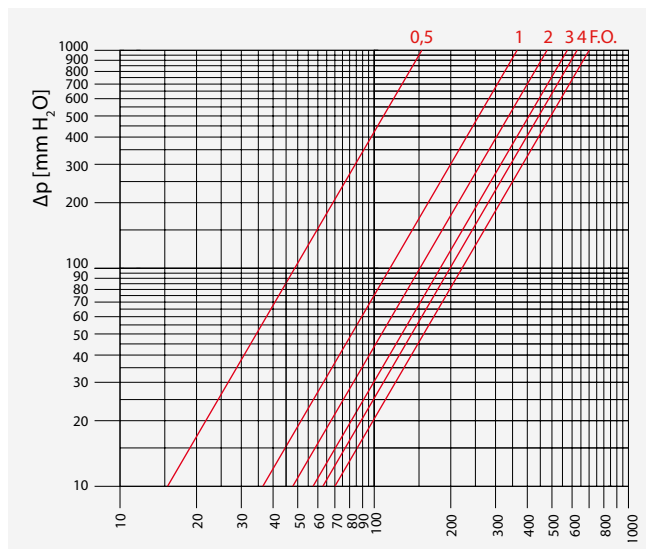
Technical data

Characteristics

- Fluids of use: water, glycol solutions (max. 50%)
- Temperature range: 5÷90 °C
- Max. working pressure: 10 bar

Losses of pressure

OPENING STOPPER	0,5 mm	1 mm	2 mm	3 mm	4 mm	F.O.
Kv	0,47	1,10	1,53	1,70	2,01	2,17



Operation

R298N + handwheel for manual operation

The 3-way R298N mixing valve is equipped with a handwheel to allow for manual operation, which are carried out via a simple clockwise rotation for the valve opening and anticlockwise for closure.

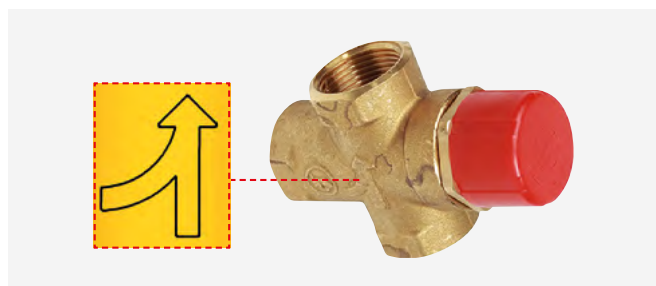
Total opening of the bonnet, and therefore of the primary side supply, is obtained by screwing down the handwheel, while unscrewing it fully frees the thread for the drive actuator connection.

R298N + K281 actuator for automatic operation

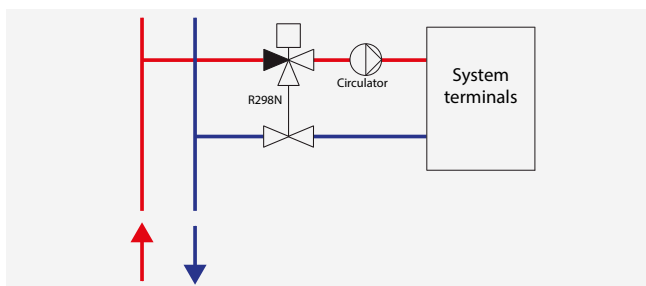
The handwheel can be replaced with a K281 actuator for automatic mixing adjustment, in combination with electronic thermoregulation. The K281 actuator is mounted manually, by screwing the brass ring nut in a clockwise direction until it stops. This does not require the use of any tools.

Installation

The R298N valve must be installed according to the direction of flow as indicated by the arrow present on the valve body.

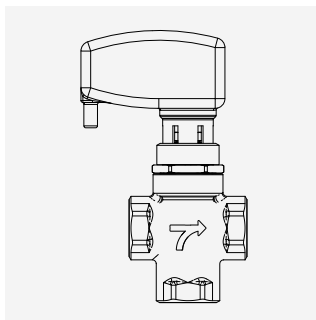
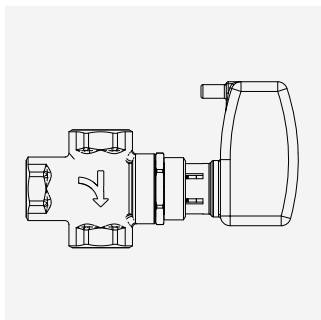
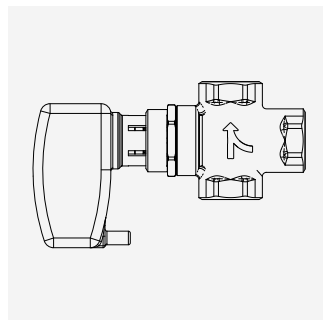


The R298N valve must be installed on the supply side. The pump on the secondary circuit must be installed downstream from the mixing valve.

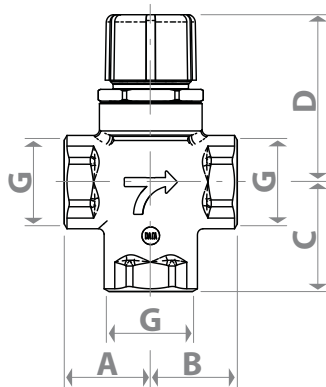


The R298N valve can be installed in a vertical position with the actuator to the right or left, or in a horizontal position with the actuator above.

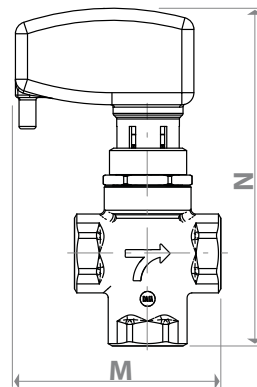
Horizontal downward facing installation of the valve is not permitted.



➤ Dimensions



PRODUCT CODE	G [inch.]	A [mm]	B [mm]	C [mm]	D [mm]
R298Y024	G 3/4"F	30	30	38	57



PRODUCT CODE	M [mm]	N [mm]
K298Y024 + K281	92	150

➤ Product specifications

R298N

3-way mixing valve with bonnet. Threaded connections G 3/4"F. In brass. Gaskets in EPDM. Fluids of use: water, glycol solutions (max. 50%). Temperature range: 5÷90 °C. Max. working pressure 10 bar. Can be motorized by installing the K281 series actuator.

⚠ Safety Warning. Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety. An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.

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