

# NOVAMIX STANDARD

THERMOSTATIC MIXING VALVE



W270

## ADVANTAGES

- Constant temperature of the water at the outlet
- Automatic mixing function without the need for auxiliary power
- Infinite regulation of the nominal temperature in 2 ranges: 20 – 40 °C / 30 – 70 °C
- Protection against scalding; the NovaMix Standard 70 FS model closes tightly
- Special design with anti-scalding device
- Can be used in panel heating systems and for loading storage tanks by means of solid-fuel boilers

Maintaining constant mixing temperatures and limiting temperatures in hot water systems

### DESCRIPTION

The automatic thermostatic mixing valve NovaMix Standard ensures a constant temperature of the mixed water at the outlet when used as the central mixing device.

The NovaMix Standard is mainly used in sanitary applications as a regulating device for reducing the temperature of the water coming out of hot water storage tanks. It can also be used in numerous other applications requiring a constant mixing temperature, For example as a mixing unit for constant water mixing temperatures in panel heating systems and for loading storage tanks by means of solid-fuel boilers.

### INSTALLATION POSITION

Any.

### OPERATION

#### Standard design:

A thermostatic cartridge and a return spring ensure the constant blend temperature at the outlet.

Thanks to the design of the mixing valve, the thermostatic cartridge can be easily replaced in the installed valve if the performance decreases, which occurs due to normal wear and tear.

### Special design NovaMix Standard 70 / 40 FS (Fail Safe):

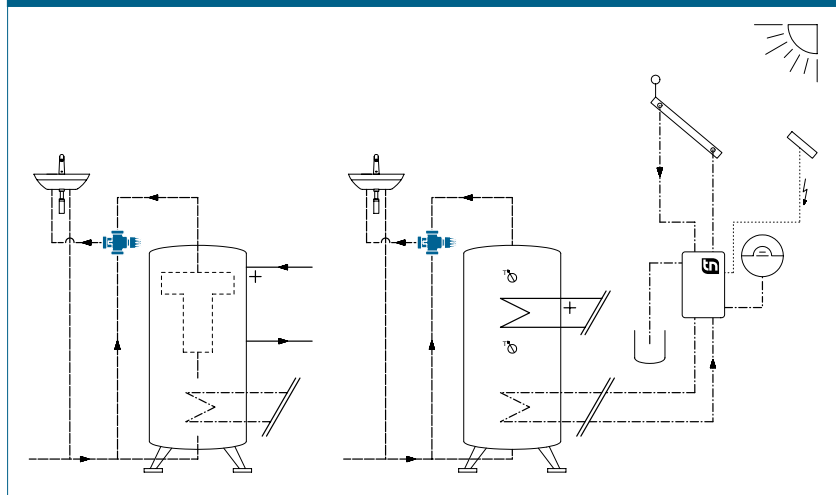
In the case of cold water failure, the hot water supply shuts off automatically and hermetically.

### BUILDING CATEGORIES

For pipe installations in drinking water and heating area:

- Apartment blocks, housing estates, multiple dwelling units
- Residential care facilities, hospitals
- Administration and service buildings
- Hotels and restaurants, industrial kitchens
- School buildings and sports facilities
- Commercial and industrial buildings

## SYSTEM/BASIC DIAGRAM



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## SPECIFICATION TEXT

See [www.taconova.com](http://www.taconova.com)

## TECHNICAL DATA

### General

- Operating temperature  $T_{0\max}$ , adjustable temperature ranges,  $k_{VS}$  values and dimensions as per the relevant tables
- Operating temperature  $T_{0\max}$  with check-valve (CV): 90 °C
- Max. operating pressure  $P_{0\max}$ : 10 bar
- Min. operating pressure  $P_{0\min}$ : 0,5 bar
- Working pressure (dynamic): max. 5 bar
- Constant inlet pressure differential: max. 2 bar
- Temperature stability for mixing: max. 3 K (for change in hot water temperature: 15 K)
- Locking function in the event of failure of the cold water supply
- Noise class 2
- Installation position: can be installed in any position

### Material

- Housing and inner parts: brass (resistant to dezincification)
- Seals: EPDM
- Housing with lime resistant-coating

### Fluids

- Heating water (VDI 2035; SWKI BT 102-01; ÖNORM H 5195-1)
- Potable water (DIN 1988-200)

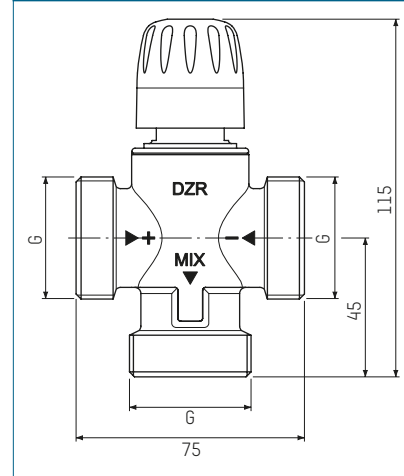
### Special application

- Diverting function possible (inflow via a mixing gate)

### APPROVALS / CERTIFICATES

- SVGW (until 31.10.2019), ACS, KTW, W270

## DIMENSIONAL DRAWING



## TYPE OVERVIEW

NovaMix Standard 70 / 40 | Thermostatic mixing valve for storage water heating unit

Order no.	DN	G	Control range	$T_{0\max}$	V (l/min)	$k_{VS}^1$	$k_{VS}^2$
252.6003.104	20	1"	30 – 70 °C	100 °C	39	1,9	1,65
252.6003.330*	20	1"	30 – 70 °C	100 °C	39	1,9	1,65
252.6004.104	25	1 ¼"	30 – 70 °C	100 °C	53	2,6	2,25
252.6023.104	20	1"	20 – 40 °C	80 °C	39	1,9	1,65
252.6024.104	25	1 ¼"	20 – 40 °C	80 °C	53	2,6	2,25

\* With integrated check valve

NovaMix Standard 70 FR (Fast Response) | Thermostatic mixing valve for continuous flow water heating

Order no.	DN	G	Control range	$T_{0\max}$	V (l/min)	$k_{VS}^1$	$k_{VS}^2$
252.6043.104	20	1"	30 – 70 °C	100 °C	22	1,1	0,7

NovaMix Standard 70 FS (Fail Safe) | Thermostatic mixing valve | Special design with anti-scalding protection in the event of failure of the cold water supply for storage water heating units

Order no.	DN	G	Control range	$T_{0\max}$	V (l/min)	$k_{VS}^1$	$k_{VS}^2$
252.6003.107	20	1"	30 – 70 °C	100 °C	39	1,9	1,65
252.6004.107	25	1 ¼"	30 – 70 °C	100 °C	53	2,6	2,25

V = Volume obtained at  $\Delta p = 1,5$  bar

$k_{VS}^1$  = without check-valve

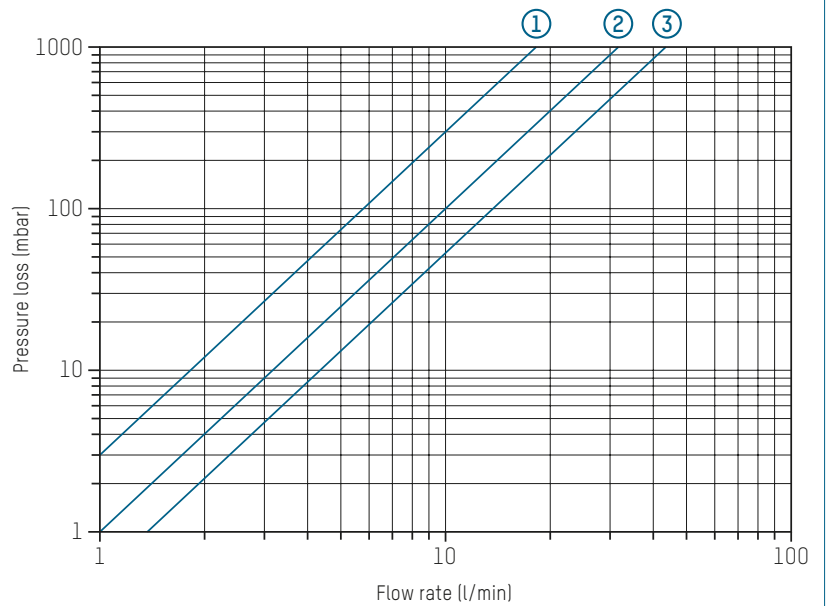
$k_{VS}^2$  = with check-valve

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## NOTE

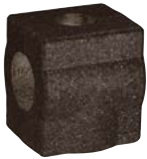
The brochure „NOVAMIX ONE RANGE - NEW APPLICATIONS“ contains additional information on the various applications of Taconova mixing valves.

## PRESSURE LOSS DIAGRAM



- 1 252.6043.104
- 2 252.6003.104 | 252.6023.104 | 252.6003.107
- 3 252.6004.104 | 252.6024.104 | 252.6004.107

## ACCESSORIES



### INSULATION BOX

Order no.	DN
296.2326.000	20
296.2327.000	25



### CHECK-VALVE

Operating temperature  $T_{0\max}$ : 95 °C, operating pressure  $P_{0\max}$ : 10 bar  
For insertion in the screw connection at the cold and hot water inlets.

Order no.	Fits to order no.
296.5203.003	252.6003.XXX   252.6023.104   252.6043.104
296.5204.003	252.6004.XXX   252.6024.104

### SCREW CONNECTIONS

You will find various suitable screw connections in our „Range of Products“ catalog and our „Price List“.

## SPARE PARTS



### THERMAL ELEMENT WITH REGULATING PISTON

Order no.	Description
298.5263.000	20 – 40 °C for NovaMix Standard 40
298.5262.000	30 – 70 °C for NovaMix Standard 70/70 FR
298.5264.109	30 – 70 °C for NovaMix Standard 70 FS