



ADVANTAGES

• Constant temperature of the water at the outlet

water temperature • High regulation precision Protection against scalding

of the nominal value

High k_{vs} values

deposits

boilers

OPERATION

 Automatic mixing function without the need for auxiliary power and infinite regulation of the mixed

• In the functional area: polished surfaces to prevent limescale

Mechanism to prevent adjustment

• No additional seals required when using the check valves (CV) • Can be used in panel heating systems and for loading storage tanks by means of solid-fuel

The mixing valve is supplied with hot

water from the storage tank and cold

The temperature of the mixed water

is detected by the thermostatic ex-

pansion element. If the mixed water

value, the thermostatic expansion

thus regulating the hot and cold

water intake quantity accordingly,

until the mixed water temperature

corresponds to the target value.

element moves the regulator piston,

temperature diverges from the target

water from the mains network.

NOVAMIX VALUE

THERMOSTATIC MIXING VALVE









Maintaining constant mix temperatures and limiting temperatures in hot water systems

DESCRIPTION

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

This prevents scalding at the outlet, even with high storage tank temperatures.

Wide area of possible application thanks to three different valve dimensions. Available with 3/4" (DN15), 1" (DN20) and 11/4" (DN25) connection. Special valve seals at the regulator piston keep undesired admixtures to a minimum*, resulting in maximum utilisation of the storage tank temperature.

The NovaMix Value is mainly used in sanitary applications as a regulating device for reducing the temperature of the water coming out of hot water storage tanks. 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. If the cold water supply fails, the DHW supply is automatically interrupted and sealed off.

INSTALLATION POSITION

Any.

* If the hot water lies 3K below the set mixing

temperature, the cold water leak rate = 0.0therwise, the maximum value for admixtures is 3K.

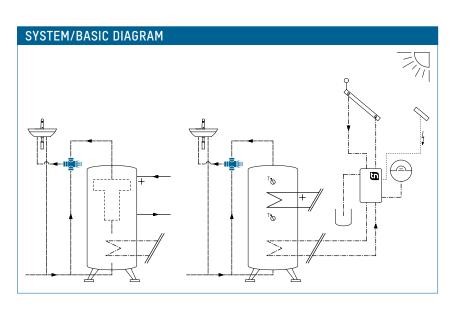
BUILDING CATEGORIES

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







NOVAMIX VALUE | THERMOSTATIC MIXING VALVE



SPECIFICATION TEXT

See www.taconova.com

TECHNICAL DATA

General

- Adjustable temperature ranges:
- 20 50 °C
- 45 65°C
- 35 70°C
- k_{vs} values and dimensions as per the relevant tables
- Operating temperature T_{0 max}: 100 °C
- Operating temperature T_{0 max} with check-valve (CV): 90 °C
- ullet Max. operating pressure $P_{\textit{0 max}}$: 10 bar
- Min. operating pressure P_{o 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: brass (resistant to dezincification)
- Internal parts: High-quality plastic
- Seals: EPDM
- In the functional area: polished surfaces to prevent limescale deposits

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)
- DN 15 and DN 20 are also suitable for flow water heating units

APPROVALS / CERTIFICATES

 DVGW (UBA hygiene conformity), ACS, PZH

NOTE

The brochure "NOVAMIX ONE RANGE – NEW APPLICATIONS" contains additional information on the various applications of Taconova mixing valves.

TYPE OVERVIEW

NovaMix Value 50 FS (Fail Safe) | Thermostatic mixing valve Temperature range $20-50\,^{\circ}\text{C}$

Order no.	DN	G	Built-in check valve	Α	E (l/min)	k _{vs}
253.3002.000	15	3/4"	no	76	26	1.6
253.3003.000	20	1"	no	77	36	2.2
253.3004.000	25	1 ¼"	no	77	56	3.4
253.3102.000	15	3/4"	yes	76	25	1.5
253.3103.000	20	1"	yes	77	35	2.1
253.3104.000	25	1 ¼"	yes	77	55	3.3

NovaMix Value 65 FS (Fail Safe) | Thermostatic mixing valve Temperature range 45 – 65 °C (compliant with EN15092)

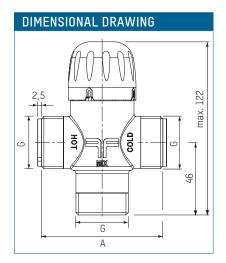
Order no.	DN	G	Built-in check valve	Α	E (l/min)	k_{vs}
253.1002.000	15	3/4"	no	76	26	1.6
253.1003.000	20	1"	no	77	36	2.2
253.1004.000	25	1 1/4"	no	77	56	3.4
253.1102.000	15	3/4"	yes	76	25	1.5
253.1103.000	20	1"	yes	77	35	2.1
253.1104.000	25	1 ¼"	yes	77	55	3.3

NovaMix Value 70 FS (Fail Safe) | Thermostatic mixing valve Temperature range 35-70 °C (75 °C for Legionella flushing)

Order no.	DN	G	Built-in check valve	Α	E (l/min)	k _{vs}
253.2002.000	15	3/4"	no	76	26	1.6
253.2003.000	20	1"	no	77	36	2.2
253.2004.000	25	1 ¼"	no	77	56	3.4
253.2102.000	15	3/4"	yes	76	25	1.5
253.2103.000	20	1"	yes	77	35	2.1
253.2104.000	25	1 ¼"	yes	77	55	3.3

- A = Housing without check valves
- \mathbf{E} = Extracted (outlet) quantity at Δp = 1,0 bar

No additional seals required when using the check valves

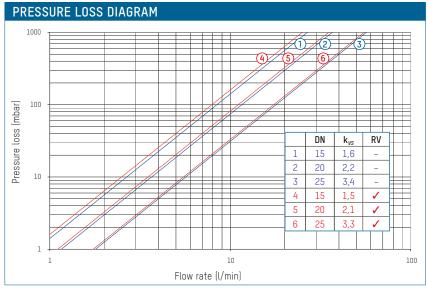


INFORMATION

If the handwheel of the mixing valves with temperature ranges of 20 – 50 °C and 35 – 70 °C is fully open, the mixing element will not work. As a result, the outlet temperature may be above the controllable temperature range and may be approximately the same as the hot water inlet temperature.

NOVAMIX VALUE | THERMOSTATIC MIXING VALVE





ACCESSORIES



INSULATION BOX

Order no.	DN
296.2329.000	15
296.2330.000	20
296.2331.000	25



CONNECTION SET FOR THREADED PIPE

Order no.	DN	G x R
210.6630.000	15	³ / ₄ " x ¹ / ₂ "
210.6631.000	20	1" x ½"
210.6632.000	20	1" × 3/4"
210.6633.000	25	1¼" × 1"
210.6630.004	15	³ / ₄ " × ¹ / ₂ "
210.6631.004	20	1" x ½"
210.6632.004	20	1" × ³/4"
210.6633.004	25	1¼" × 1"





CHECK VALVE

Order no.	DN	G
296.5210.003	15	3/4"
296.5211.003	20	1"
296.5212.003	25	11/4"



PRECISION THERMOMETER, QUICK RESPONSE

Fits in $\frac{1}{2}$ " T-piece, Indication range: 0 – 80 °C (accuracy class 2,5 within the range 40 – 60 °C), Sensor tube stainless steel, Sensor length: 39 mm

Order no.	R
296.5212.003	1/2"

NOVAMIX VALUE | THERMOSTATIC MIXING VALVE

SPARE PARTS





REGULATING PISTON WITH THERMOSTATIC ELEMENT

Order no.	Control range
298.5280.000	45 – 65 °C / 35 – 70 °C
298.5289.000	20 - 50 °C

CAP AND SPINDEL

Order no.	Control range	G
298.5281.000	45 - 65 °C	3/4"
298.5282.000	45 - 65 °C	1"
298.5283.000	45 - 65 °C	11/4"
298.5284.000	20 - 50 °C / 35 - 70 °C	3/4" + 1"
298 5285 000	20 - 50 °C / 35 - 70 °C	11/4"