

## THERMOSTATIC MIXING VALVES

- for solid fuel boiler
- for solar systems
- for potable water
- for heating systems

Their function is to maintain the temperature of the mixed water constant when sent to user even if the temperature and the pressure of the cold/hot water inlet vary. They are normally installed in domestic hot water installation, heating installation, powerhouse, heat generators (wall hung boilers, solid fuel boilers, heating pumps) thermal solar installation, industrial water installations.



### advantages

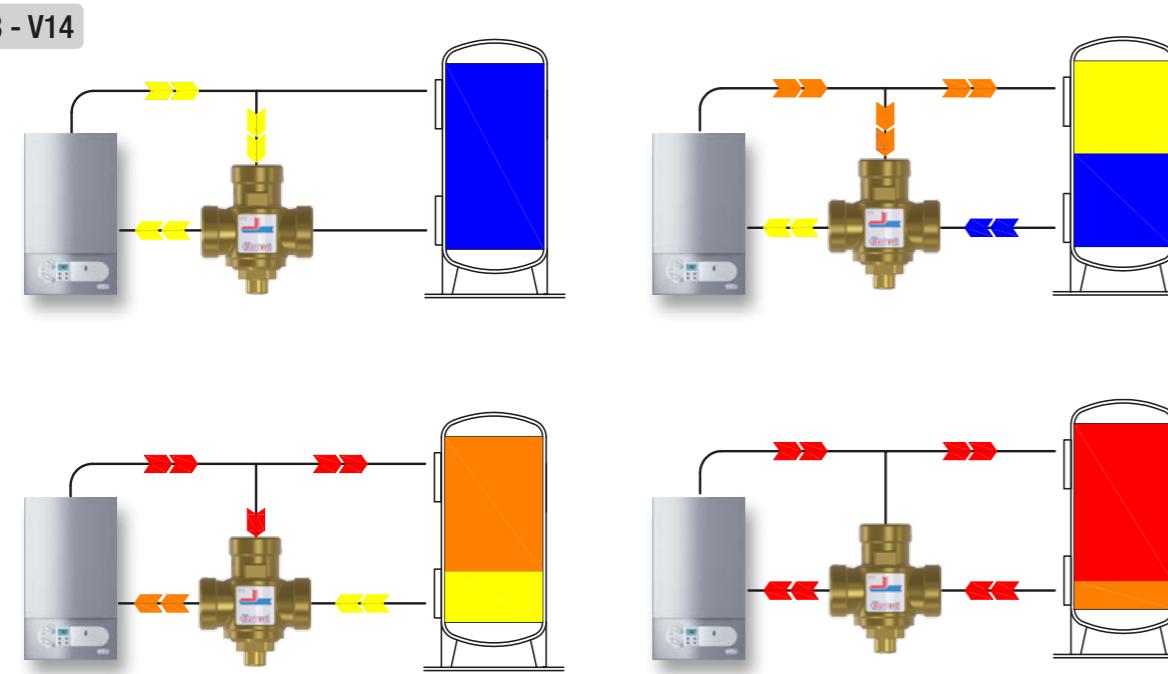
- Constant temperature
- Temperature sensor integrated in the valve
- Simple and adjustable installation without electrical equipment
- Speedy response to pressure and temperature variations
- Seals that ensure perfect sealing and sliding even with limescale



**THERMOSTATIC  
MIXING VALVES**  
for solid fuel boilers (biomass)  
to be used as anticondensation

**woody**

These valves allow to maintain constant the temperature of the fluid at the inlet of the solid fuel boiler. This feature allows to the boiler to increase the inner temperature during the “on” phase. Through this way, avoiding any condensation risk in the fumes, encrustations are reduced in the heating exchanger and in the chimney.

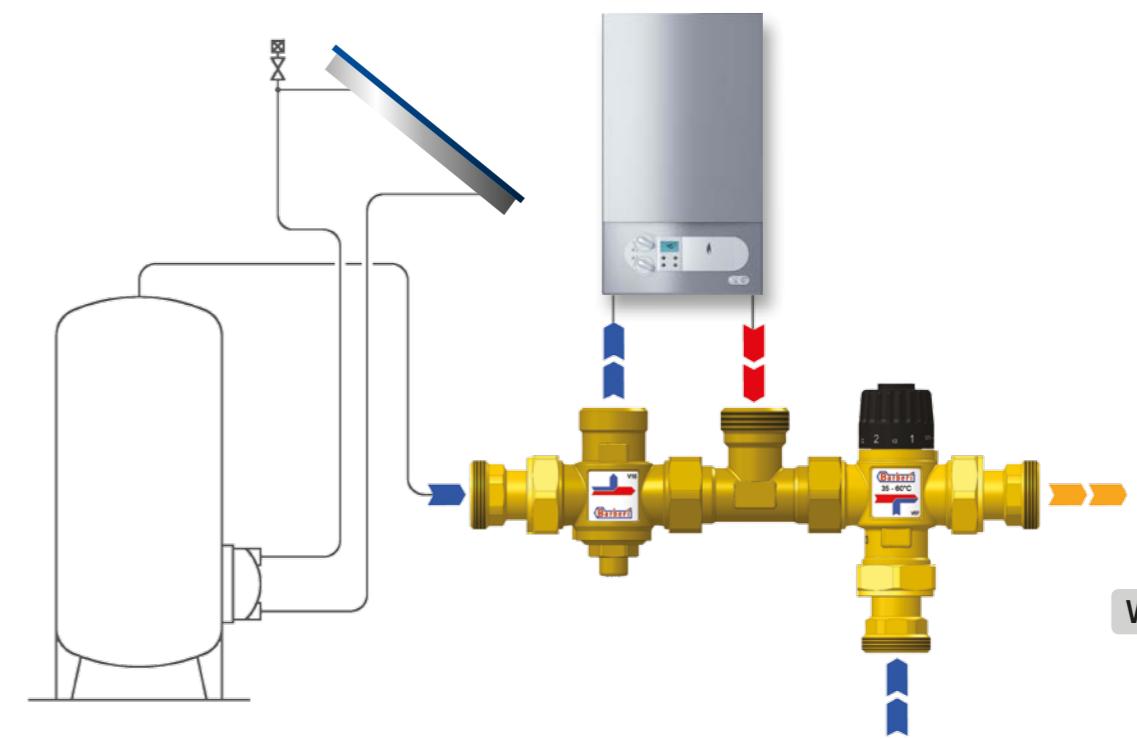


**Barberi**  
dal 1954 made in Italy  
RUBINETTERIE INDUSTRIALI s.r.l.

**THERMOSTATIC  
MIXING VALVES**  
for solar systems

**Tsunny**  
**Usunny**  
**kit**

The thermal solar mixing kit allows to adjust the temperature of the domestic hot water through a thermostatic mixing valve. Furthermore, autonomously and without electric devices, it diverts the inlet water to the boiler if the temperature of the water from the solar cylinder is not enough hot.



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## 3-WAYS THERMOSTATIC MIXING VALVES

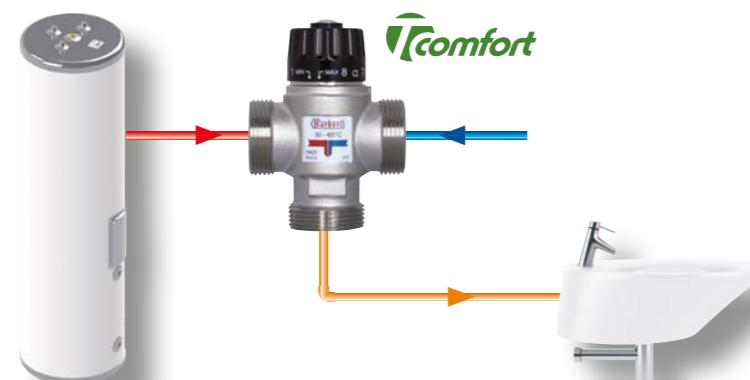
3-WAYS SIDE MIX



3-WAYS CENTRAL MIX



V07.AA.L2

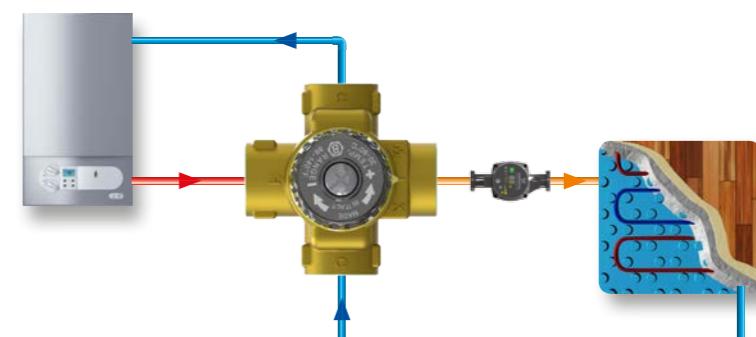


V17

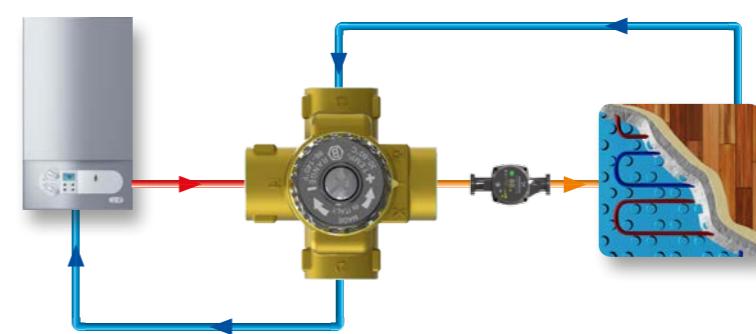


## 4-WAYS THERMOSTATIC MIXING VALVES

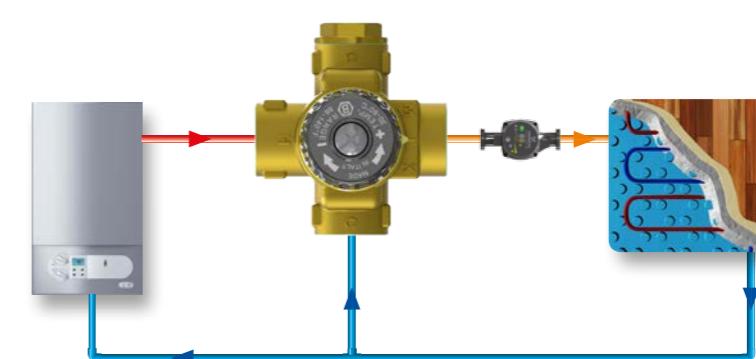
4-WAYS



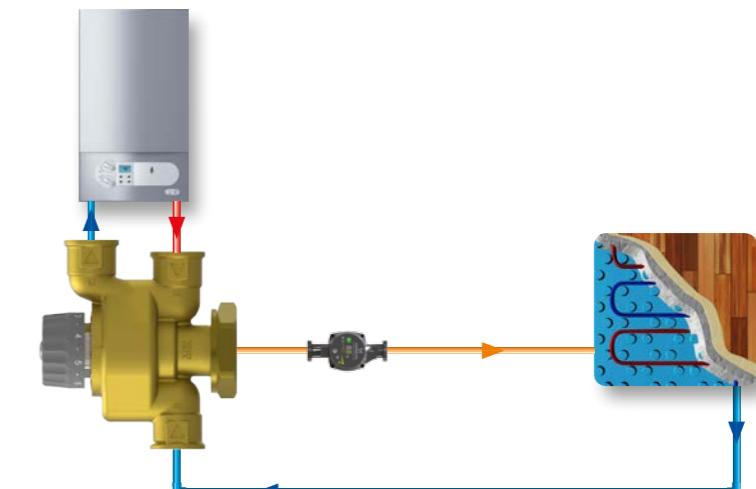
630



with cap



W51



**V13**

Thermostatic mixing valve for solid fuel heating systems - KV3,2



Max workingTemperature	100 °C	woody
Setting as Anti-condensation	45 - 55 - 60 - 70 °C	KV 3,2
Flow		

cod.	size	P [bar]	°C	NPS	NPC	€
V13 M25 00A	G 1" M	10	45°C	1	20	
V13 M25 00B	G 1" M	10	55°C	1	20	
V13 M25 00C	G 1" M	10	60°C	1	20	
V13 M25 00D	G 1" M	10	70°C	1	20	

**V13.L2**

Thermostatic mixing valve for solid fuel heating systems - KV3,2 - with fittings Y77.2



Max workingTemperature	100 °C	woody
Setting as Anti-condensation	45 - 55 - 60 - 70 °C	KV3,2
Flow		

cod.	size	P [bar]	°C	NPS	NPC	€
V13 M25 00A L2	Adapters G 1" M	10	45°C	1	20	
V13 M25 00B L2	Adapters G 1" M	10	55°C	1	20	
V13 M25 00C L2	Adapters G 1" M	10	60°C	1	20	
V13 M25 00D L2	Adapters G 1" M	10	70°C	1	20	

**V13.L1**

Thermostatic mixing valve for solid fuel heating systems - KV3,2 - with reduced fittings P93



Max workingTemperature	100 °C	woody
Setting as Anti-condensation	45 - 55 - 60 - 70 °C	KV 3,2
Flow		

cod.	size	P [bar]	°C	NPS	NPC	€
V13 M25 00A L1	Adapters G 3/4" M	10	45°C	1	20	
V13 M25 00B L1	Adapters G 3/4" M	10	55°C	1	20	
V13 M25 00C L1	Adapters G 3/4" M	10	60°C	1	20	
V13 M25 00D L1	Adapters G 3/4" M	10	70°C	1	20	

**V13.5**

Thermostatic element for thermostatic mixing valve V13, V13.L1, V13.L2 and V13.1.2



Setting temperature	45, 55, 60, 70 °C	woody
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cod.	°C	NPS	NPC	€
V13 025 005 A	45°C	-	-	
V13 025 005 B	55°C	-	-	
V13 025 005 C	60°C	-	-	
V13 025 005 D	70°C	-	-	

**V14**

Thermostatic mixing valve for solid fuel heating systems - KV 9



Max workingTemperature	100 °C	woody
Setting as Anti-condensation	45 - 55 - 60 - 70 °C	KV 9
Flow		

cod.	size	P [bar]	°C	NPS	NPC	€
V14 025 00A	Rp 1" F	10	45°C	1	12	
V14 M32 00A	G1"1/4 M	10	45°C	1	12	
V14 025 00B	Rp 1" F	10	55°C	1	12	
V14 M32 00B	G1"1/4 M	10	55°C	1	12	
V14 025 00C	Rp 1" F	10	60°C	1	12	
V14 M32 00C	G1"1/4 M	10	60°C	1	12	
V14 025 00D	Rp 1" F	10	70°C	1	12	
V14 M32 00D	G1"1/4 M	10	70°C	1	12	

**V13.1.2**

Thermostatic mixing valve for solid fuel heating systems - pump connection - male connection - KV3,2



Max workingTemperature	100 °C	woody
Setting as Anti-condensation	45 - 55 - 60 - 70 °C	KV 3,2
Flow		

cod.	size	P [bar]	°C	NPS	NPC	€
V13 M25 00A 2 ●	G1" M - G1"1/2 F - G1" M	10	45°C	1	20	
V13 M25 00A 1 ●	G1"1/2 M - G1"1/2 F - G1" M	10	45°C	1	20	
V13 M25 00B 2 ●	G1" M - G1"1/2 F - G1" M	10	55°C	1	20	
V13 M25 00B 1 ●	G1"1/2 M - G1"1/2 F - G1" M	10	55°C	1	20	
V13 M25 00C 2 ●	G1" M - G1"1/2 F - G1" M	10	60°C	1	20	
V13 M25 00C 1 ●	G1"1/2 M - G1"1/2 F - G1" M	10	60°C	1	20	
V13 M25 00D 2 ●	G1" M - G1"1/2 F - G1" M	10	70°C	1	20	
V13 M25 00D 1 ●	G1"1/2 M - G1"1/2 F - G1" M	10	70°C	1	20	

**V14.L1**

Thermostatic mixing valve for solid fuel heating systems - KV 9 - with reduced fittings P93



Max working temperature	100 °C	woody
Setting as Anti-condensation	45 - 55 - 60 - 70 °C	KV 9
Flow		

cod.	size	P [bar]	°C	NPS	NPC	€
V14 M32 00A L1	Adapters G 1" M	10	45°C	1	12	
V14 M32 00B L1	Adapters G 1" M	10	55°C	1	12	
V14 M32 00C L1	Adapters G 1" M	10	60°C	1	12	
V14 M32 00D L1	Adapters G 1" M	10	70°C	1	12	

**V14.5**

Thermostatic element for thermostatic mixing valve V14



Setting temperature	45, 55, 60, 70 °C
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cod.	°C	NPS	NPC	€


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**P04**

Solar systems thermostatic mixing valve - antiscald - KV1,8 - 30/65°C.



Max working temperature	110 °C				
Working range	30-65 °C	KV 1,8			
Flow	KV 1,8				
<b>cod.</b> size P [bar] NPS NPC €					
P04 A20 N00	G 3/4" M	10	1	20	
P04 A25 N00	G1" M	10	1	20	

**P05.L2**

Solar systems thermostatic mixing valve - antiscald - KV2,3 - 30/65°C.  
Fittings and check valves insert unassembled (V38.04)



Max working temperature	110 °C				
Working range	30-65 °C	KV 2,3			
Flow	KV 2,3				
<b>cod.</b> size P [bar] NPS NPC €					
P05 A20 N00 L2	G 3/4" M	10	1	20	
P05 A25 N00 L2	G1" M	10	1	20	

**P04.L2**

Solar systems thermostatic mixing valve - antiscald - KV1,8 - 30/65°C.  
Fittings and check valves insert unassembled (V38.04)



Max working temperature	110 °C				
Working range	30-65 °C	KV 1,8			
Flow	KV 1,8				
<b>cod.</b> size P [bar] NPS NPC €					
P04 A20 N00 L2	G 3/4" M	10	1	20	
P04 A25 N00 L2	G1" M	10	1	20	

**V38.03**

3 fittings kit, supplied with washers and two check inserts suitable for thermostatic mixing valves



Max working temperature	110°C	
cod.	size	P [bar]
V38 020 N00 03	G 3/4" M - G 3/4" F	16
V38 025 N00 03	G 1" M - G 1" F	16

**P05**

Solar systems thermostatic mixing valve - antiscald - KV2,3 - 30/65°C.



Max working temperature	110 °C				
Working range	30-65 °C	KV 2,3			
Flow	KV 2,3				
<b>cod.</b> size P [bar] NPS NPC €					
P05 A20 N00	G 3/4" M	10	1	20	
P05 A25 N00	G 1" M	10	1	20	

**V38.04**

2 fittings kit with nut, supplied with washers and two check inserts suitable for thermostatic mixing valves



Max working temperature	110°C	
cod.	size	P [bar]
V38 020 N00 04	G 3/4" M - G 3/4" F	16
V38 025 N00 04	G 1" M - G 1" F	16

**P04.L4**

**new**

Solar systems thermostatic mixing valve - antiscald - KV1,8 - 30/65°C.  
With compact fittings and check valves insert unassembled (V38.02)



Max working temperature	110 °C				
Working range	30-65 °C	KV 1,8			
Flow	KV 1,8				
<b>cod.</b> size P [bar] NPS NPC €					
P04 A20 N00 L4	G 3/4" M	10	1	20	

**Thermostatic mixing valves**

## B1

**P05.L4**

**new**

Solar systems thermostatic mixing valve - antiscald - KV2,3 - 30/65°C.  
With compact fittings and check valves insert unassembled (V38.02)



Max working temperature	110 °C				
Working range	30-65 °C	KV 2,3			
Flow	KV 2,3				
<b>cod.</b> size P [bar] NPS NPC €					
P05 A20 N00 L4	G 3/4" M	10	1	20	

**V38.02**

**new**

2 fittings kit with flat face supplied with washers and check inserts for thermostatic mixing valves



Max working temperature	130°C	
cod.	size	P [bar]
V38 020 N00 02	G 3/4" M - G 3/4" F	16

P	Max working pressure
N°P/S	Pieces per box
N°P/C	Pieces per carton



●	Article on request

P	Max working pressure
N°P/S	Pieces per box
N°P/C	Pieces per carton



●	Article on request

**V20**

Mixing solar kit with thermostatic diverting valve  
for thermal integration

Max working temperature	95 °C				
Working range	35 -60 °C				
Diverting valve setting	45 °C				
Flow	KV 2				
cod.	size	P [bar]	NPS	NPC	€
V20 M25 001	G 1" M	10	1	10	

**V20.L1**

Mixing solar kit with thermostatic diverting valve  
for thermal integration - 3 fittings and 2 check  
valves insert

Max working temperature	95 °C				
Working range	35 -60 °C				
Diverting valve setting	45 °C				
Flow	KV 2				
cod.	size	P [bar]	NPS	NPC	€
V20 M25 001 L1	G1" M	10	1	6	

**V20.L2**

Mixing solar kit with thermostatic diverting valve  
for thermal integration - 5 fittings P93

Max working temperature	95 °C				
Working range	35 -60 °C				
Diverting valve setting	45 °C				
Flow	KV 2				
cod.	size	P [bar]	NPS	NPC	€
V20 M25 001 L2	G3/4" M	10	1	6	

**V20.1**

Insulation for mixing solar kit V20, V20.L1, V20.L2

Max working temperature	140 °C			
cod.	size	NPS	NPC	€
V20 000 001	225mm x 100mm	-	-	



P	Max working pressure
N°P/S	Pieces per box
N°P/C	Pieces per carton

P	Max working pressure
N°P/S	Pieces per box
N°P/C	Pieces per carton

# Thermostatic mixing valves

## V07.AA

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald  
- KV1,6 - 20/43°C



Max working temperature	95 °C	
Working range	20 - 43 °C	
Flow	KV 1,6	

cod.	size	P [bar]	NPS	NPC	€
V07 020 NAA	Rp 3/4" F	10	1	20	
V07 M20 NAA	G 3/4" M	10	1	20	
V07 M25 NAA	G 1" M	10	1	20	

## V07.AB

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald  
- KV1,6 - 35/60°C



Max working temperature	95 °C	
Working range	35 - 60 °C	
Flow	KV 1,6	

cod.	size	P [bar]	NPS	NPC	€
V07 020 NAB	Rp 3/4" F	10	1	20	
V07 M20 NAB	G 3/4" M	10	1	20	
V07 M25 NAB	G 1" M	10	1	20	

## V07.BA

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald  
- KV2,5 - 20/43°C



Max working temperature	95 °C	
Working range	20 - 43 °C	
Flow	KV 2,5	

cod.	size	P [bar]	NPS	NPC	€
V07 M25 NBA	G 1" M	10	1	20	

## V07.BB.L2

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald  
- KV2,5 - 35/60°C. Fittings and check valves insert unassembled (V38.03)



Max working temperature	95 °C	
Working range	35 - 60 °C	
Flow	KV 2,5	

cod.	size	P [bar]	NPS	NPC	€
V07 M25 NBB L2	G 1" M	10	1	10	

## V07.AA.L2

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald  
- KV1,6 - 20/43°C. Fittings and check valves insert unassembled (V38.03)



Max working temperature	95 °C	
Working range	20 - 43 °C	
Flow	KV 1,6	

cod.	size	P [bar]	NPS	NPC	€
V07 M20 NAA L2	G 3/4" M	10	1	20	
V07 M25 NAA L2	G 1" M	10	1	10	

## V07.AB.L2

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald  
- KV1,6 - 35/60°C. Fittings and check valves insert unassembled (V38.03)



Max working temperature	95 °C	
Working range	35 - 60 °C	
Flow	KV 1,6	

cod.	size	P [bar]	NPS	NPC	€
V07 M20 NAB L2	G 3/4" M	10	1	20	
V07 M25 NAB L2	G 1" M	10	1	10	

## V07.BA.L2

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald  
- KV2,5 - 20/43°C. Fittings and check valves insert unassembled (V38.03)



Max working temperature	95 °C	
Working range	20 - 43 °C	
Flow	KV 2,5	

cod.	size	P [bar]	NPS	NPC	€
V07 M25 NBA L2	G 1" M	10	1	10	

## P10.L2

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald  
- KV1,8 - 30/65°C



Max working temperature	90 °C	
Working range	30-65 °C	
Flow	KV 1,8	

cod.	size	P [bar]	NPS	NPC	€
P10 A20 N00	G 3/4" M	10	1	20	
P10 A25 N00	G 1" M	10	1	20	

## V07.AA.L4

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald  
- KV1,6 - 20/43°C. Compression fittings and check valves insert unassembled



Max working temperature	95 °C	
Working range	20 - 43 °C	
Flow	KV 1,6	

cod.	size	P [bar]	NPS	NPC	€
V07 M20 NAA L4	mm 15	10	1	20	

## V07.AB.L4

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald  
- KV1,6 - 35/60°C. Compression fittings and check valves insert unassembled



Max working temperature	95 °C	
Working range	35 - 60 °C	
Flow	KV 1,6	

cod.	size	P [bar]	NPS	NPC	€
V07 M20 NAB L4	mm 15	10	1	20	

## V07.BB

# B1 Thermostatic mixing valves

## P11

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - KV2,3 - 30/65°C



Max working temperature	90 °C	
Working range	30-65 °C	
Flow	KV 2,3	
cod.	size	P [bar]
P11 A20 N00	G 3/4" M	10
P11 A25 N00	G 1" M	10

## V17.L2

Thermostatic mixing valve for hydro-thermal-sanitary systems - KV3,5 - 30/65°C - with fittings P93.N



Max working temperature	90 °C	
Working range	30-65 °C	
Flow	KV 3.5	
cod.	size	P [bar]
V17 M32 NAA L2 ●	G1" M	10

## P11.L2

Thermostatic mixing valve for hydro-thermal-sanitary systems - antiscald - KV2,3 - 30/65°C - fittings and check valves insert unassembled V38.04



Max working temperature	90 °C	
Working range	30-65 °C	
Flow	KV 2,3	
cod.	size	P [bar]
P11 A20 N00 L2	G 3/4" M	10
P11 A25 N00 L2	G 1" M	10

## P93.N

Fitting with running nut and flat washer - nickel plated



Max working temperature	100 °C	
cod.	size	P [bar]
P93 015 N00	G3/4" F - G1/2" M	25
P93 020 N00	G1" - G3/4" M	25
P93 025 N00	G1"1/4 - G1" M	25
P93 032 N00	G1"1/2 - G1"1/4 M	25

## V17

Thermostatic mixing valve for hydro-thermal-sanitary systems - KV3,5 - 30/65°C



Max working temperature	90 °C	
Working range	30-65 °C	
Flow	KV 3.5	
cod.	size	P [bar]
V17 M32 NAA ●	G1"1/4 M	10

## P09

Thermostatic mixing valve with pump connection - KV2,3 - 30/65°C



Max working temperature	90 °C	
Working range	30-65 °C	
Flow	KV 2,3	
cod.	size	P [bar]
P09 A20 N00 ●	3/4" M - G1" F	10

## P09.L2

Thermostatic mixing valve with pump connection - KV2,3 - 30/65°C



Max working temperature	90 °C	
Working range	30-65 °C	
Flow	KV 2,3	
cod.	size	P [bar]
P09 A20 N00 L2 ●	3/4" M - G1" F	10

## 630

4ways thermostatic mixing valve with mixed water from side port - KV3,5 - 30/60°C



Max working temperature	90 °C
Flow	KV 3,5
Range	30/60 °C

KV3,5
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## 630.10

4ways thermostatic mixing valve with mixed water from side port - KV3,5 - 25/50°C



Max working temperature	90°C
Flow	KV 3,5
Range	25/50°C

KV3,5
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## 630.T

4ways thermostatic mixing valve with mixed water from side port - KV3,5 - 30/60°C - side plug



Max working temperature	90 °C
Flow	KV 3,5
Range	30/60 °C

KV3,5
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## V38.03

3 fittings kit with nut, supplied with washers and two check inserts suitable for thermostatic mixing valves



Max working temperature	110°C	
cod.	size	P [bar]
V38 020 N00 03	G 3/4" M - G 3/4" F	16
V38 025 N00 03	G 1" M - G 1" F	16

## V38.04

2 fittings kit with nut, supplied with washers and two check inserts suitable for thermostatic mixing valves



Max working temperature	110°C	
cod.	size	P [bar]
V38 020 N00 04	G 3/4" M - G 3/4" F	16
V38 025 N00 04	G 1" M - G 1" F	16

P	Max working pressure
N°P/S	Pieces per box
N°P/C	Pieces per carton



●	Article on request
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P	Max working pressure
N°P/S	Pieces per box
N°P/C	Pieces per carton



●	Article on request
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**630.1.2**

4ways thermostatic mixing valve with mixed water from side port - pump connection - KV3,5 - 30/60°C - flat gasket



Max working temperature	90 °C	
Flow	KV 3,5	
Range	30/60 °C	KV3,5

cod.	size	P [bar]	NPS	NPC	€
630 A20 000 1	Rp 3/4" - G1"1/2	10	1	10	
630 A20 000 2 ●	Rp 3/4" - G1"	10	1	10	

**630.3**

4ways thermostatic mixing valve with mixed water from side port - pump and manifold connection - KV3,5 - 30/60°C



Max working temperature	90 °C	
Flow	KV 3,5	
Range	30/60 °C	KV3,5

cod.	size	P [bar]	NPS	NPC	€
630 A20 000 3	G1"1/2 M - G1"1/2 - G1" M	10	1	10	

**52D**

new

Kit composed by thermostatic mixing valve, pump connection and T fitting on the return



Max working temperature	90°C	
Flow	KV 3,5	

cod.	size	P [bar]	°C	NPS	NPC	€
52D 040 0T1	G 1"1/2 M - G 1"1/2 F	10	25-50	1	8	
52D 040 0T2	G 1"1/2 M - G 1"1/2 F	10	30-60	1	8	

**630.101**

new

4ways thermostatic mixing valve with mixed water from side port - pump connection - KV3,5 - 25/50°C - flat gasket



Max working temperature	90°C	
Flow	KV 3,5	
Range	25/50°C	KV3,5

**630.103**

new

4ways thermostatic mixing valve with mixed water from side port - pump and manifold connection - KV3,5 - 25/50°C



Max working temperature	90°C	
Flow	KV 3,5	
Range	25/50°C	KV3,5

cod.	size	P [bar]	NPS	NPC	€
630 A20 010 3	Rp 3/4" F - G 1"1/2 F - G1" M	10	1	10	

**630.1.2.T**

4ways thermostatic mixing valve with mixed water from side port - pump connection - KV3,5 - 30/60°C - flat gasket, side plug



Max working temperature	90 °C	
Flow	KV 3,5	
Range	30/60 °C	KV3,5

**W51**

4-ways thermostatic mixing valve "OCTOPUS" with mixed water from central port - pump connection - KV4,5 - 25/58°C



Max working temperature	90 °C	
Flow	KV 4,5	
Range	25/58 °C	KV4,5

cod.	size	P [bar]	NPS	NPC	€
W51 A20 000	Rp 3/4" - G1"1/2	10	1	12	

**V16.L2**

Thermostatic diverting valve with fixed setting - KV3,5 - with fittings P93



Max working temperature	100 °C	
Diverting valve setting	45 °C	
Flow	KV 3,5	KV3,5

cod.	size	P [bar]	°C	NPS	NPC	€
V16 M25 00A L2	G1" M	10	45°C	1	10	

P	Max working pressure
N°P/S	Pieces per box
N°P/C	Pieces per carton



●	Article on request
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P	Max working pressure
N°P/S	Pieces per box
N°P/C	Pieces per carton



●	Article on request
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