

THERMOSTATIC ANTI-CONDENSATION VALVE  
CONNECTION: MALE



#### HYDRAULIC FEATURES

The thermostatic anti-condensation valve has been developed for the installation on systems with a generator for solid combustibles. It is able to maintain the temperature of the fluid at the inlet of the generator above a certain minimum value, defined by the setting of the thermostatic element. The temperature regulation occurs automatically by mixing fluid from the inlet of the generator (A) with the fluid of the outlet of the generator through a bypass (B). The device prevents the heat transfer fluid from entering into the generator at a too low temperature in order to reduce the quantity of condensation which is created on the heat exchanger. Besides that the device can accelerate the temperature increase of the generator during the start up. If installed on the inlet of the generator, the device works as a mixing valve; if installed on the outlet conduct the device operates as a diverting valve.

#### TECHNICAL FEATURES

##### Pressures

Maximum static working pressure	10 bar
Maximum differential pressure	1 bar
Maximum differential pressure (between A and B gates)	0.3 bar

##### Temperatures

Maximum inlet temperature	90°C
Setting Temperature (according to the model)	45°C - 55°C - 60°C - 70°C - 80°C
Mixing temperature (according to the model)	47°C - 57°C - 62°C - 72°C - 82°C
Accuracy	± 2°C

##### Flow rate

Coefficient Kv (m <sup>3</sup> /h)	2,8 for G3/4" 3,2 for G1"
Hermetic sealing B/AB	waterproof tightness
Hermetic sealing A/AB	waterproof tightness

##### Minimum flow rate

4 l/mi

##### Compatible fluids

Water and glycol upto 50%

##### Threading

Pipeline connection

G3/4" or G1"

#### DESIGN

##### Body in brass:

UNI EN 12165 CW 617 N

##### Internal parts:

UNI EN 12164 CW 614 N - UDEL GF-120 NT

##### Spring:

STAINLESS STEEL AISI 302

##### Sealing gaskets:

EPDM

##### Thermo-sensitive element

WAX



#### PRODUCT CODES

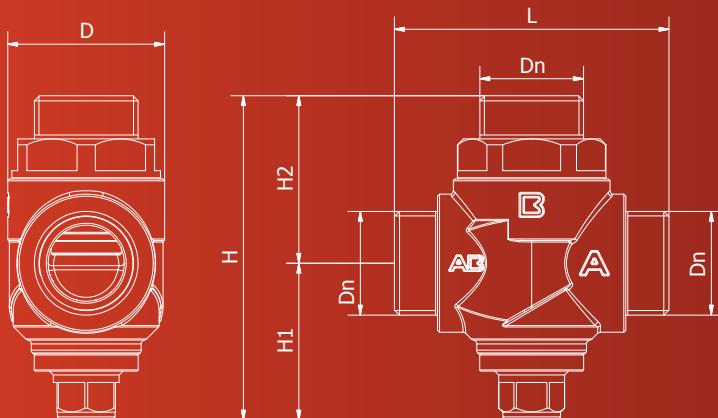
0521.205	M/M/M 45° KV2,8	3/4"	0521.305	M/M/M 45° KV3,2	1"
0521.215	M/M/M 55° KV2,8	3/4"	0521.315	M/M/M 55° KV3,2	1"
0521.225	M/M/M 60° KV2,8	3/4"	0521.325	M/M/M 60° KV3,2	1"
0521.235	M/M/M 70° KV2,8	3/4"	0521.335	M/M/M 70° KV3,2	1"
0521.245	M/M/M 80° KV2,8	3/4"	0521.345	M/M/M 80° KV3,2	1"

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# 0521 • 3/4" - 1"

## THERMOSTATIC ANTI-CONDENSATION VALVE

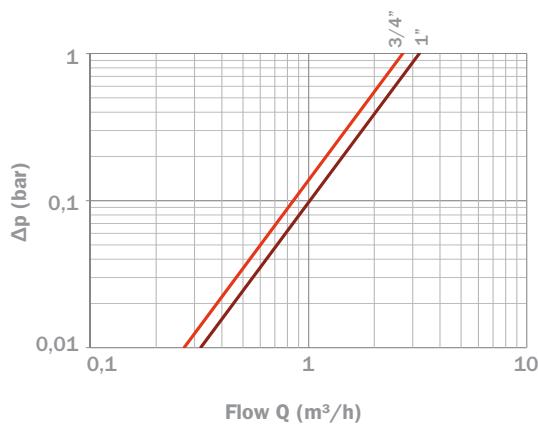
CONNECTION: MALE



### FEATURES

Code	Dn	L	H	H1	H2	D	Kv	Opening (°C)	Mixing (°C)	Temp, X [°C] Switch beginning	Temp, Y [°C] Switch end
0521.205	3/4"	70	83	42	41	40	2,8	45	47±2	44	53
0521.215	3/4"	70	83	42	41	40	2,8	55	57±2	54	63
0521.225	3/4"	70	83	42	41	40	2,8	60	62±2	59	68
0521.235	3/4"	70	83	42	41	40	2,8	70	72±2	69	78
0521.245	3/4"	70	83	42	41	40	2,8	80	82±2	79	88
0521.305	1"	70	83	42	41	40	3,2	45	47±2	44	53
0521.315	1"	70	83	42	41	40	3,2	55	57±2	54	63
0521.325	1"	70	83	42	41	40	3,2	60	62±2	59	68
0521.335	1"	70	83	42	41	40	3,2	70	72±2	69	78
0521.345	1"	70	83	42	41	40	3,2	80	82±2	79	88

HEAD LOSS DIAGRAM (KV)



DIVERTER CONFIGURATION

