



105

DYNAMICAL® presettable trv twin pack

SD 042 03-12-2025

Function

The DYNAMICAL® thermostatic radiator valves allows the automatic dynamic balancing and pressure-independent adjustment of the thermal medium in the radiators of two-pipe heating systems.

The device, in conjunction with a thermostatic, electronic or thermo-electric controller, combines different functions into a single component.

The use of dynamic valves in combination with thermostatic control heads makes it possible to keep the ambient temperature constant at the set value in the room where they are installed, thus guaranteeing effective energy saving.

Product Range

- 105-1513 1/2" angled twin pack consisting of TRV body, thermostatic controller and lockshield valve.
- 105-2205 3/4" angled twin pack consisting of TRV body, thermostatic controller and lockshield valve.
- 105-1514 1/2" straight twin pack consisting of TRV body, thermostatic controller and lockshield valve.
- 105-2206 3/4" straight twin pack consisting of TRV body, thermostatic controller and lockshield valve.

Adaptors are available from Altecnic to convert the inlet connection to compression joint.

Material

Component	Material	Grade
Body	Brass - chrome plated	BS EN 12165 CW617N
Obturator stem	Stainless Steel	
Hydraulic seals	Elastomer	EPDM
Control knob	ABS polymer (PANTONE 356C)	

Performance

Medium:	Water, glycol solution
Max percentage of glycol:	30%
Max differential pressure with control fitted	1.5 bar
Maximum working pressure:	10 bar
Nominal Δp control range:	(reg. 1-4) 10–150 kPa (reg. 5-6) 15–150 kPa
Flow rate regulation range:	0.33–2 l/m
Thermal medium working temperature range:	5 – 95°C
Factory pre-setting:	position 6

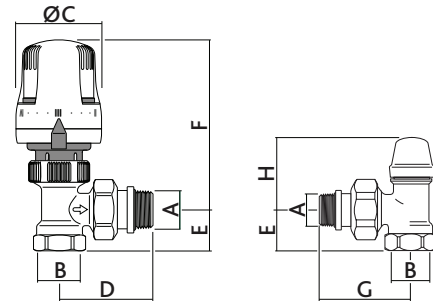
Technical Specification CA-200000 thermostatic controller

The DYNAMICAL® twin pack comes complete with the CA-200000 Ecocal™ standard head and collar.

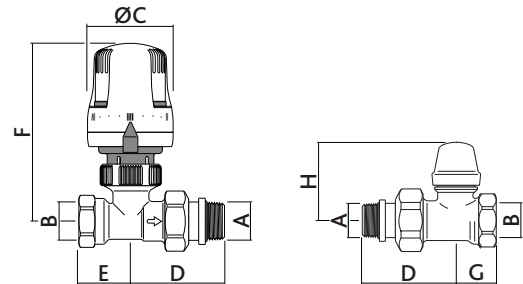
Other controllers are available contact Altecnic for details.

Adjustment scale:	✱ to V
Adjustment temperature range:	7 to 28°C
Frost protection cut-in:	7°C
Max. ambient temperature:	50°C

Dimensions



Ref No	A	B	C	D	E	F	G	H
105-1513	G 1/2 B	G 1/2	48	52.5	23	103	53.5	38
105-2205	G 3/4 B	G 3/4	48					



Ref No	A	B	C	D	E	F	G	H
105-1514	G 1/2 B	G 1/2	48	52.5	29	106	22	44.5
105-2206	G 3/4 B	G 3/4	48					

CA-200000 thermostatic controller adjustment scale

0	✱	I	II	III	IV	V
5°C	7°C	12°C	16°C	20°C	24°C	28°C

Hydraulic Characteristics - Settings and Flowrates

	1	2	3	4	5	6
G _{Num.} (l/m)	0.33	0.66	1.00	1.33	1.66	2.00
G _{2K} (l/m)	0.33	0.66	0.92	1.17	1.33	1.50

G_{Num.} is the flow through the valve without the thermostatic control head.

G_{2K} is the flow through the valve with the thermostatic control head and 2K proportional band.

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Altecnic Ltd Francesco House, Staples Close, Stafford ST16 1WQ T: +44 (0)1785 218200 E: sales@altecnic.co.uk altecnic.co.uk

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