



230LF & 231LF

DYNAMICAL® presettable low flow thermostatic valves

SD 064 13-10-2020

Function

The DYNAMICAL® low flow thermostatic radiator valve 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 - low flow - valve body

230402LF 1/2" dynamic thermostatic radiator valve - angled

230500LF 3/4" dynamic thermostatic radiator valve - angled

231402LF 1/2" dynamic thermostatic radiator valve - straight

231500LF 3/4" dynamic thermostatic radiator valve - straight

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

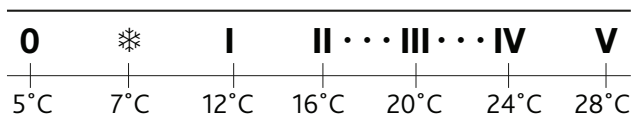
| | |
|---|------------------------|
| Medium: | Water, glycol solution |
| Max percentage of glycol: | 30% |
| Max differential pressure with control fitted | 1.5 bar |
| Maximum working pressure: | 10 bar |
| Nominal Δp control range: | 10–150 kPa |
| Flow rate regulation range: | 0.16 – 1.33 l/min |
| Thermal medium working temperature range: | 5 – 95°C |
| Factory pre-setting: | position 6 |

Technical Specification CA-200000 thermostatic controller

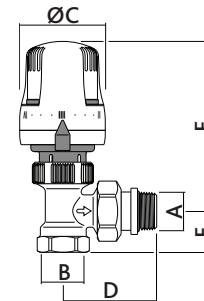
The DYNAMICAL® valve should be ordered with the CA-200000 Ecocal™ standard head and collar.

Other controllers are available contact Altecnic for details.

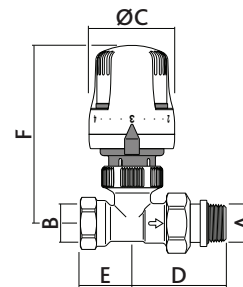
| | |
|-------------------------------|-----------|
| Adjustment scale: | ✱ to V |
| Adjustment temperature range: | 7 to 28°C |
| Frost protection cut-in: | 7°C |
| Max. ambient temperature: | 50°C |



Dimensions - low flow valves



| Ref Nos | A | B | C | D | E | F |
|--------------------|-------|------|----|------|----|-----|
| 230402 + CA-200000 | G1/2B | G1/2 | 48 | 52.5 | 23 | 103 |
| 230500 + CA-200000 | G3/4B | G3/4 | 48 | | | |



| Ref Nos | A | B | C | D | E | F |
|--------------------|-------|------|----|------|----|-----|
| 231402 + CA-200000 | G1/2B | G1/2 | 48 | 52.5 | 29 | 106 |
| 231500 + CA-200000 | G3/4B | G3/4 | 48 | | | |

Hydraulic Characteristics

Settings and Flowrates

| | Low flow pre-setting position | | | | | |
|-------------------------|-------------------------------|------|------|------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| G _{Num.} (l/m) | 0.16 | 0.33 | 0.50 | 0.66 | 1.00 | 1.33 |
| G _{2K} (l/m) | 0.16 | 0.33 | 0.50 | 0.66 | 0.92 | 1.16 |

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.