

# Draught regulating valve for solid fuel generators

## 529 series



### Function

The draught regulating valve, installed on board the solid fuel generator with the thermostatic element immersed in the medium, automatically regulates the comburent air flow rate, thus helping to achieve more uniform and complete combustion.

### Product range

Code 529150 Draught regulating valve for solid fuel generators size 3/4"

### Technical specifications

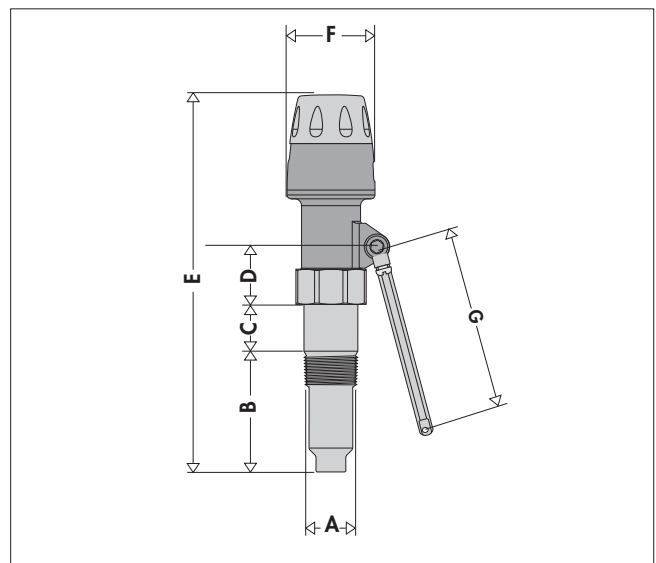
#### Materials

Body:	PA6G30
Knob:	PA6G30
Control stem:	PA6G30
Adjustment nut:	brass EN 12164 CW614N
Sensor pocket:	brass EN 12164 CW614N
Spring:	stainless steel
Draught lever:	Galvanised Fe
Chain:	Galvanised Fe
Wax thermostatic sensor	

#### Performance

Medium:	water, glycol solutions
Max. percentage of glycol:	50%
Max. working temperature (sensor):	120°C
Adjustment range:	30-90°C
Max. working pressure:	10 bar
Max. load on chain:	10 N
Pocket length:	58 mm
Chain length:	1200 mm
Connection:	3/4" M (ISO 7/1)

### Dimensions

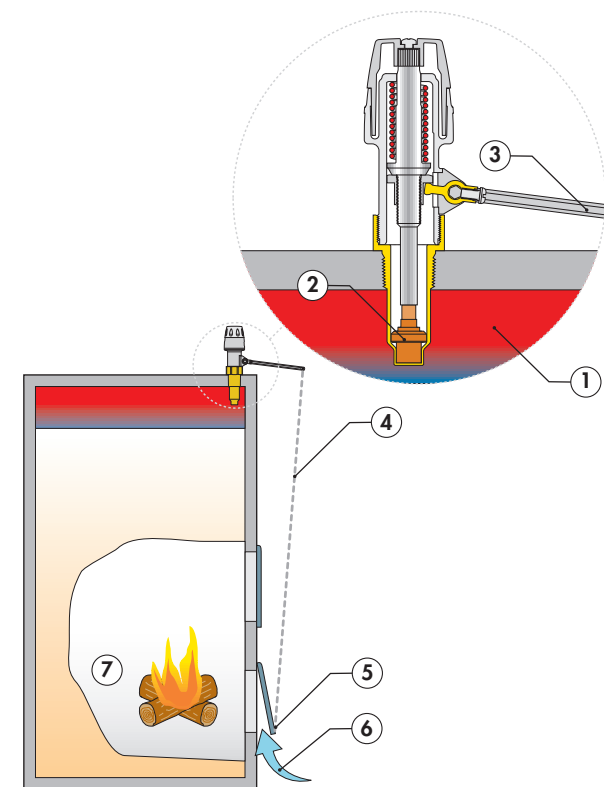


Code	A	B	C	D	E	F	G	Mass (kg)
529150	3/4"	58	20	29	185-190	45	140	0,45



## Operating principle

The regulating valve acts on the draught value of the solid fuel generator, varying the passage cross section and therefore the comburent air flow rate. As the temperature of the system water ① changes within the generator interspace, by means of the expansion or contraction of the thermostatic sensor ② connected to the lever device formed by the control stem ③ and the chain ④, the draught regulating valve modifies the opening of the comburent air ⑥ inlet door ⑤. When the water temperature drops below the setting value, the regulating device raises the chain ④ and increases the door opening ⑤ to introduce a higher quantity of air into the combustion chamber ⑦, thereby aiding the combustion. As the water temperature rises, the regulating device lowers the chain ④ and closes the door ⑤, restricting the comburent air inlet ⑥. In this way the combustion process is controlled by supplying the right amount of comburent air in order to obtain a constant system water temperature, preventing overtemperatures and excessive fuel combustion.



## Construction details

### Resistance to high temperatures

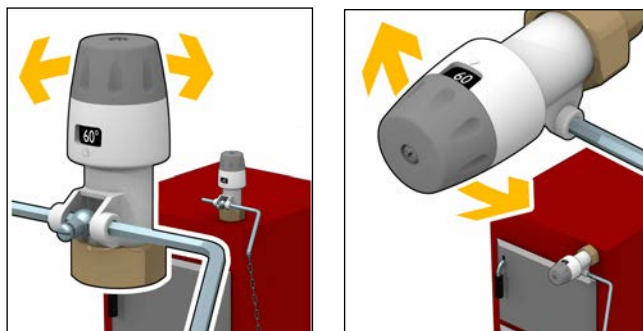
The plastic and metal materials used to construct the regulating device enable it to be used at the high temperatures normally found in solid fuel generators.

### Mechanical resistance

The thermosensitive element is not damaged by accidental stresses on the lever or by pulling on the chain.

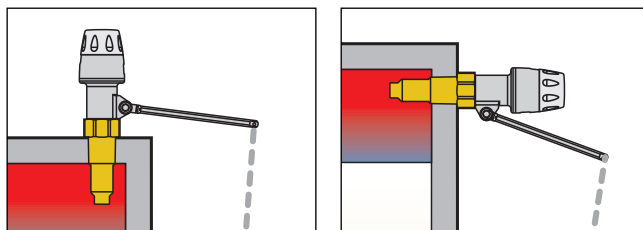
## Double display window

The regulating valve is equipped on the knob with a double window displaying the adjustment temperature, which makes it easier to read it in the allowed installation positions.



## Installation

The 529 series draught regulating valve can be installed on solid fuel boilers and residential devices with natural draught, in horizontal or vertical position but not turned upside down.



## SPECIFICATION SUMMARY

### Code 529150

Draught regulating valve for solid fuel generators. Connections 3/4" M (ISO 7/1). PA6G30 body, knob and control stem. Brass adjustment nut. Brass sensor pocket. Stainless steel spring. Galvanised iron draught lever. Galvanised iron chain. Wax thermostatic sensor. Medium water and glycol solutions. Maximum percentage of glycol 50%. Maximum working temperature (sensor) 120°C. Adjustment range 30–90°C. Maximum working pressure 10 bar. Pocket length 58 mm. Chain length 1200 mm. Maximum load on chain 10 N.

We reserve the right to change our products and their relevant technical data, contained in this publication, at any time and without prior notice.