



SIT Group

500 SIMPLOSIT 510 DUPLOSIT

MULTIFUNCTIONAL GAS CONTROL



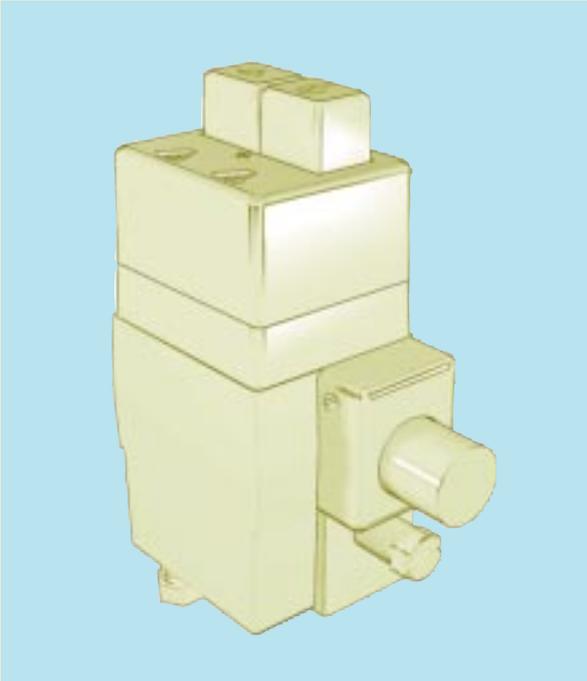
**500 SIMPLOSIT: PUSH BUTTON CONTROL (MINIMUM, MAXIMUM, PILOT)
FLOW REGULATOR**

**510 DUPLOSIT: PUSH BUTTON CONTROL (1 OR 2 BURNERS, PILOT)
TWO MAIN GAS OUTLETS**

THERMOELECTRIC SAFETY DEVICE



MANUAL MULTIFUNCTIONAL CONTROL



Multifunctional safety control with thermoelectric safety device and three-position button control:
500 SIMPLOSIT: minimum, maximum, pilot
510 DUPLOSIT: 1 or 2 burners on, pilot
No external power supply required.

500 SIMPLOSIT and 510 Duplosit are suitable for heaters and other appliances which require manual control at two gas flow levels.

MAIN FEATURES

500 SIMPLOSIT: 3-position button control: minimum, maximum, pilot.

Inlet and main gas outlet at 90°.

Maximum gas flow adjustment screw (optional).

Minimum gas flow adjustment screw (optional).

Outlet pressure test point.

Inlet filter (optional).

510 DUPLOSIT: 3-position button control: 1 or 2 burners on, pilot.

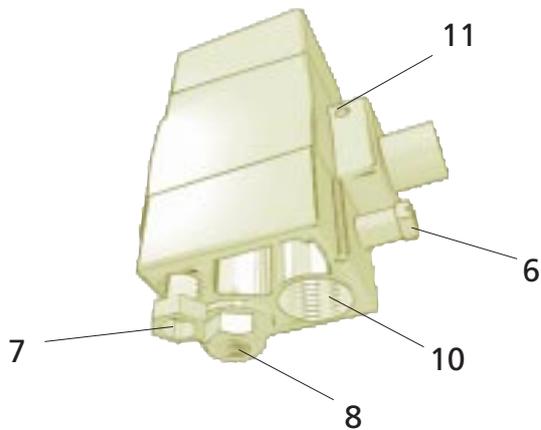
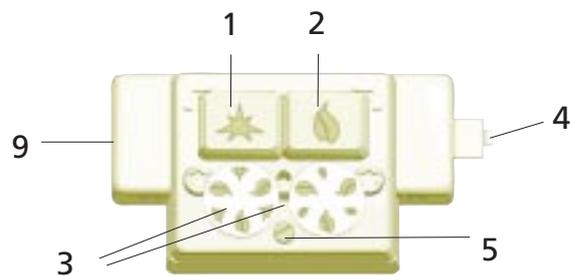
Two main gas outlets, one in line, the other at 90°.

Inlet filter (optional).

DESCRIPTION

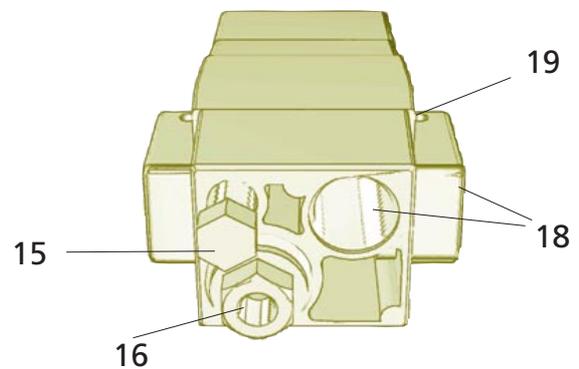
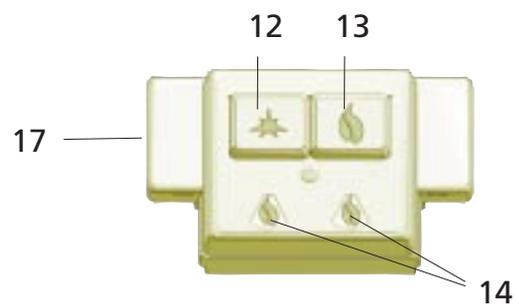
500 SIMPLOSIT

- 1 Ignition/Pilot button
- 2 Minimum/maximum button
- 3 Control display
- 4 Max flow adjustment screw (optional)
- 5 Min flow adjustment screw (optional)
- 6 Outlet pressure test point (optional)
- 7 Pilot outlet
- 8 Thermocouple connector
- 9 Gas inlet
- 10 Gas outlet
- 11 Fixing points



510 DUPLOSIT

- 12 Ignition/Pilot button
- 13 1 or 2 burners on button
- 14 Control display
- 15 Pilot outlet
- 16 Thermocouple connector
- 17 Gas inlet
- 18 Gas outlet
- 19 Fixing points



TECHNICAL DATA

500 SIMPLOSIT - 510 DUPLOSIT

- | | |
|---|---|
| <ul style="list-style-type: none"> • Gas connections • Assembly position • Gas families • Maximum gas inlet pressure • Working temperature range | <p>Rp 3/8 ISO 7
any
I, II and III
50 mbar
0-80 °C</p> |
|---|---|

Data refer to EN 126 standards

OPERATION

500 SIMPLOSIT

500 SIMPLOSIT

Fully depress the ignition button  and ignite the pilot burner at the same time by keeping the button depressed for about 10 seconds (fig. 1). Release the button and check that the pilot stays on. If it goes out, wait about 1min. and repeat the ignition operations.

Normal operation

Depress the ignition button again: when the corresponding display shows , the burner ignites (fig. 2).

Minimum and maximum selection

With the button  depressed and the corresponding display  the burner is at minimum (fig. 3); with the button raised and the display , the burner is at maximum.

Pilot position

To turn off the main burner and keep the pilot flame on, depress the button  again, restoring the corresponding display to the pilot position .

Shutdown

Close the gas cock to turn off the main burner and the pilot.

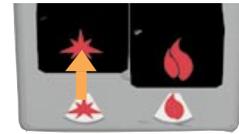


fig. 1

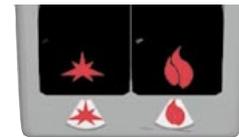


fig. 2

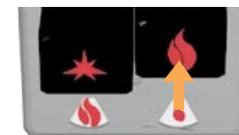


fig. 3

OPERATION

510 DUPLOSIT

Pilot flame ignition

Fully depress the ignition button  and ignite the pilot burner at the same time by keeping the button depressed for about 10 seconds (fig. 1). Release the button and check that the pilot stays on. If it goes out, wait about 1min. and repeat the ignition operations.

Normal operation

Depress the ignition button again: when the corresponding display shows , the burners ignite (fig. 2).

Gas passage selection

With the button  depressed the corresponding display  indicates that only the burner connected to the 90° gas outlet is being supplied (fig. 3); when the button is raised, the display  indicates that both burners are being supplied.

Pilot position

To close the main burner and keep the pilot flame on, depress the button  again, returning the corresponding display to the pilot position .

Shutdown

Close the gas cock to turn off the main burner and the pilot.

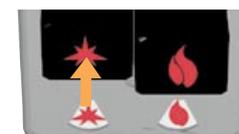


fig. 1



fig. 2



fig. 3

INSTALLATION - SETTINGS AND ADJUSTMENTS

Main gas connection

The connection is made using gas pipes with Rp 3/8 threading. Torque 25 Nm.

Connection to the pilot burner

Use \varnothing 4 or 6 mm pipes. Use a nut and olive of appropriate dimensions. Tighten to 7 Nm torque.

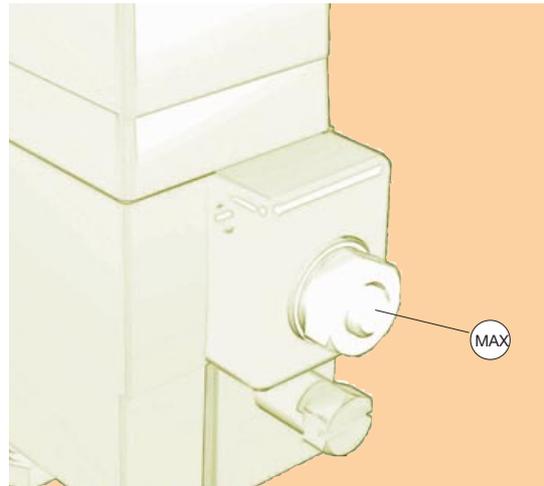
500 SIMPLOSIT

Maximum flow adjustment

Screw in the screw (MAX) to reduce the flow; screw it out to increase.

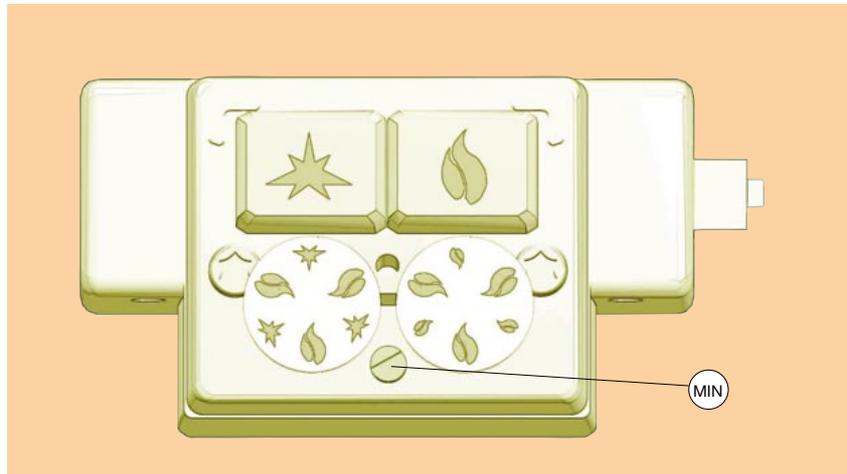
Minimum flow adjustment

Remove the protective cover, screw in the screw (MIN) to reduce the flow, and screw it out to increase.



Maximum flow adjustment

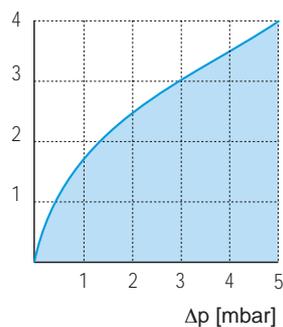
Minimum flow adjustment



Implement the provisions in the Use and Maintenance manual - code 9.956.500/510 - for installation, adjustment and use.

FLOW RATE AS A FUNCTION OF PRESSURE DROP

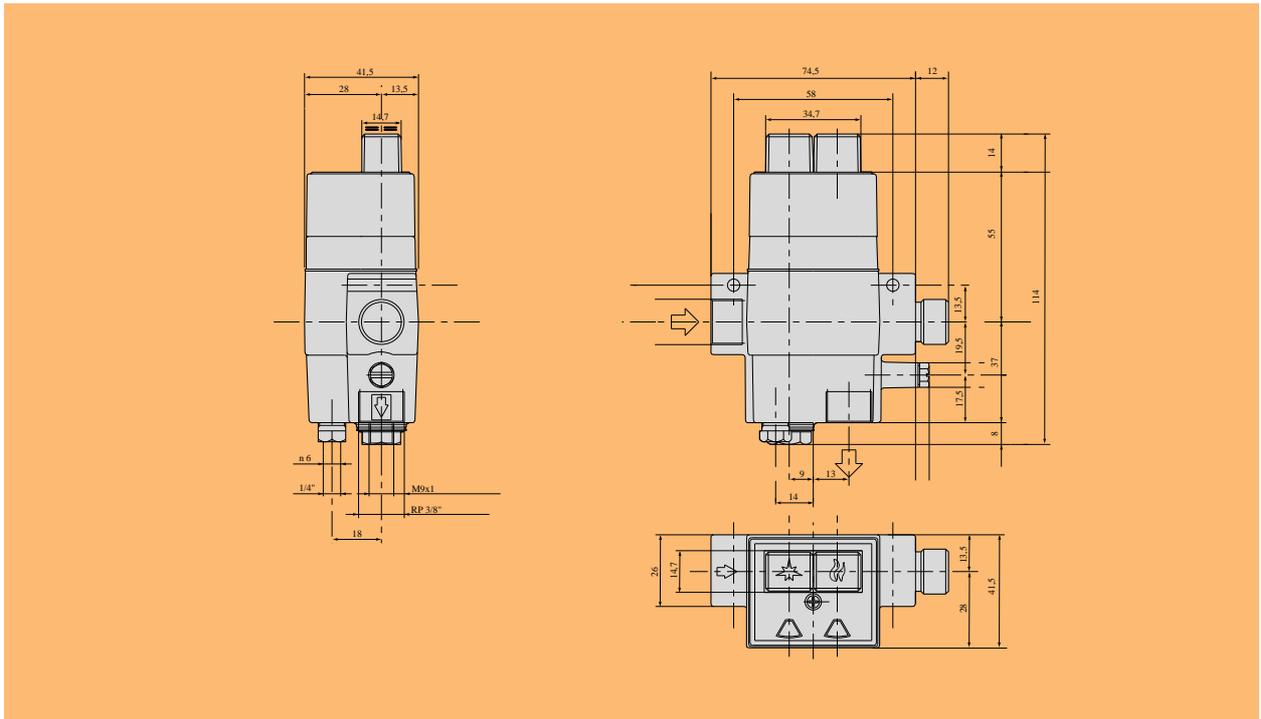
Q [m³/h d=0.6]



Maximum level flow rate

I	Family (d = 0.45)	Q = 4.6 m ³ /h	Δp = 5 mbar
II	Family (d = 0.6)	Q = 4.0 m ³ /h	Δp = 5 mbar
III	Family (d = 1.7)	Q = 4.7 kg/h	Δp = 5 mbar

500 SIMPLOSIT - DIMENSIONS



510 DUPLOSIT - DIMENSIONS

