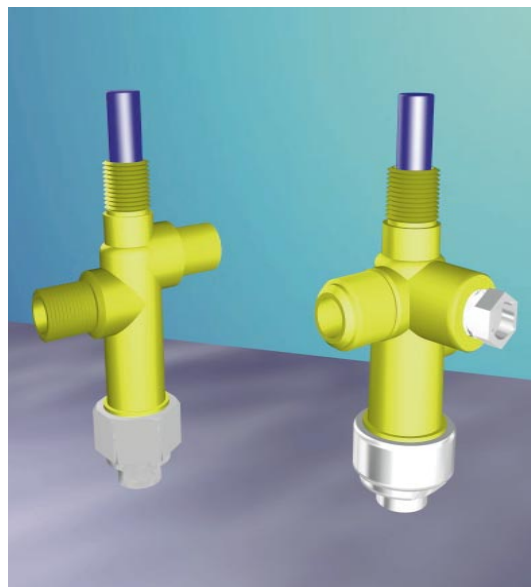




SIT Group

# 400 M1-420 B3

MANUAL GAS CONTROL

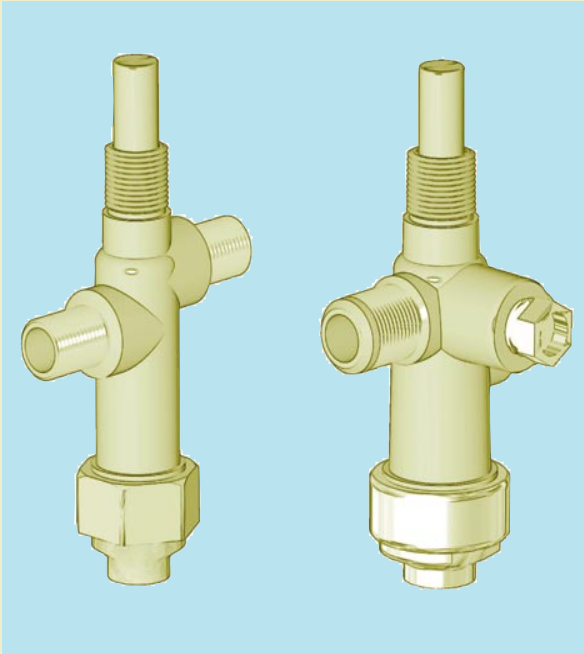


**THERMOELECTRIC SAFETY DEVICE**

**SIDE OUTLET OR, ALTERNATIVELY (series B3),  
ADDITIONAL PILOT OUTLET**



## MULTIFUNCTIONAL MANUAL CONTROL



**Manual control with thermo-electric safety device. Model 420 B3 has a gas outlet for connection to the pilot burner. Versions are available for working temperatures up to 150°C and pressures up to 5 bar.**

*400 M1 and 420 B3 are suitable for use with heaters, ovens, barbecues and fireplaces.*

### MAIN FEATURES

Brass body.  
Connection with thermocouple M8x1 (M9x1 on request).  
Threading under the button (optional).  
Pilot outlet (series B3).  
Gas inlet and outlet coaxial or at different heights.

### TECHNICAL DATA

- Gas connections:
- Installation position:
- Gas families:
- Maximum gas inlet pressure:
  
- Working temperature range:

Rp 1/4 ISO 7 (1/8 or 3/8 on request)  
any position  
I, II and III  
series M1: 150 mbar series B3: 50 mbar  
(on request: series M1: 5 bar series B3: 3 bar)  
0...80°C (0...150°C on request)

Data refer to EN 125 standards

## OPERATION

### Ignition

Depress the button and ignite the main burner (in series M1) or the pilot burner (in series B3) at the same time, keeping the button fully depressed for a few seconds (fig. 1).

Release the button (fig. 2) and check that the pilot flame stays on. If it goes out, repeat the ignition operations.

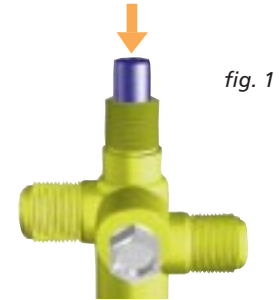


fig. 1

### Shutdown

Close the gas cock to turn off the main burner.

**CAUTION:** if, after releasing the button, the burner goes off, wait about one minute before repeating the operation.

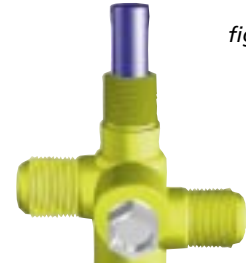


fig. 2

## INSTALLATION

### Main gas connection

The connection is made using gas pipes with threading in accordance with the dimensional specifications of the gas inlet and outlet.

### Connection to the pilot burner (series B3)

Pipes with 4 mm, 6 mm and 1/4 can be used

Use a nut and olive of appropriate dimensions. Tighten to 7 Nm torque.

Implement the provisions in the Use and Maintenance manual - code 9.956.400 - for installation, adjustment and use.

## FLOW RATE AS A FUNCTION OF PRESSURE DROP

M1 - 1/8" x 1/8"			
I	Family (d = 0.45)	Q = 1.3 m <sup>3</sup> /h	Δp = 5 mbar
II	Family (d = 0.6)	Q = 1.1 m <sup>3</sup> /h	Δp = 5 mbar
III	Family (d = 1.7)	Q = 1.3 kg/h	Δp = 5 mbar

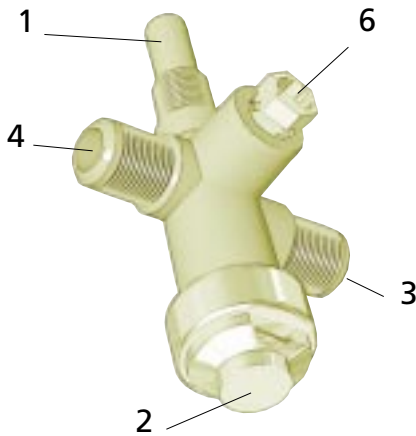
M1 - 3/8" x 3/8"			
I	Family (d = 0.45)	Q = 2.5 m <sup>3</sup> /h	Δp = 5 mbar
II	Family (d = 0.6)	Q = 2.2 m <sup>3</sup> /h	Δp = 5 mbar
III	Family (d = 1.7)	Q = 2.7 kg/h	Δp = 5 mbar

B3 - 1/4" x 1/4"			
I	Family (d = 0.45)	Q = 2.1 m <sup>3</sup> /h	Δp = 5 mbar
II	Family (d = 0.6)	Q = 1.8 m <sup>3</sup> /h	Δp = 5 mbar
III	Family (d = 1.7)	Q = 2.1 kg/h	Δp = 5 mbar

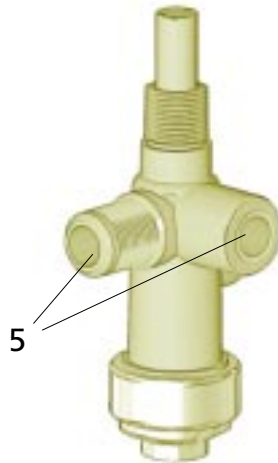
B3 - 3/8" x 3/8"			
I	Family (d = 0.45)	Q = 3.4 m <sup>3</sup> /h	Δp = 5 mbar
II	Family (d = 0.6)	Q = 3.0 m <sup>3</sup> /h	Δp = 5 mbar
III	Family (d = 1.7)	Q = 3.8 kg/h	Δp = 5 mbar

## DESCRIPTION

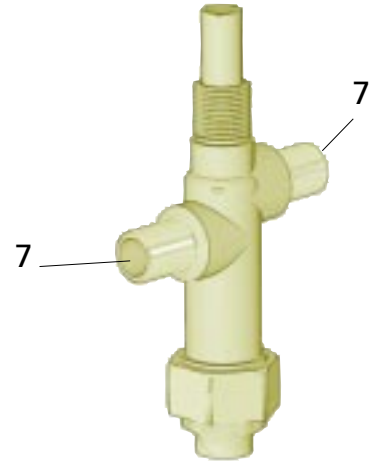
- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>1 Ignition button</li> <li>2 Thermocouple connection</li> <li>3 Gas inlet</li> <li>4 Gas outlet</li> </ul> | <ul style="list-style-type: none"> <li>5 Inlet and outlet at 90 degrees</li> <li>6 Pilot outlet (series B3)</li> <li>7 Inlet and outlet in line, at different heights</li> </ul> |
|---|--|



(B3)



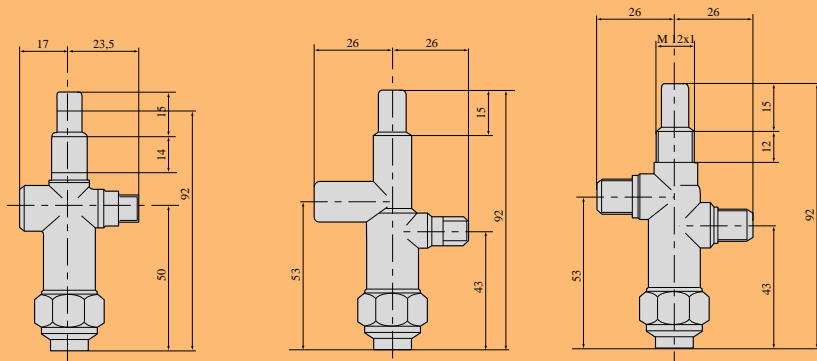
(420 B3: inlet and outlet at 90 degrees)



(400 M1: inlet and outlet at different heights)

## DIMENSIONS

400 M1



420 B3

