

610 AC3

MULTIFUNCTIONAL GAS CONTROL



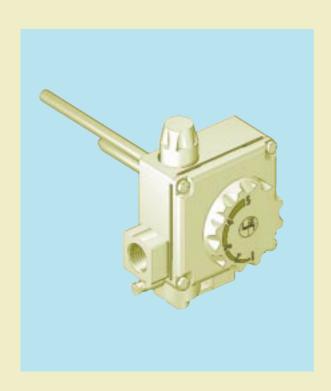
CONTROL KNOB (OFF, PILOT, ON)

TEMPERATURE SELECTION KNOB
ON-OFF REGULATING THERMOSTAT

THERMOELECTRIC SAFETY DEVICE



THERMOSTATIC MULTIFUNCTIONAL CONTROL



Multifunctional safety control with thermoelectric flame failure device, pressure adjuster with override device and on-off thermostat.

No external electric power supply required.

610 AC3 is specifically
designed for use
with gas water storage heaters.

MAIN FEATURES

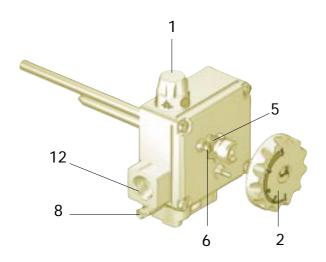
Three-position control knob: off, pilot, on.
Temperature selection knob.
Thermoelectric flame failure device.
Pressure adjuster with override device.
On-off type thermostat.
Resettable safety thermostat.
Pilot outlet with gas flow preselection screw.
Inlet and pilot filters.
Inlet and outlet pressure test points.

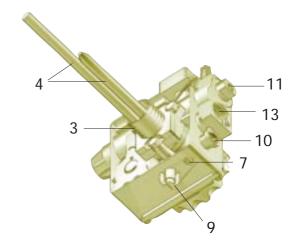
Data refer to EN 126

DESCRIPTION

- 1 Control knob (off, pilot, on)
- 2 Temperature selection knob
- 3 Water connection
- 4 Adjustment and safety thermostat bulbs
- Outlet pressure adjustment screw (P.R. ADJ.)
- 6 Pressure adjuster override screw (NO P.R.)

- 7 Adjustment screw for gas flow to the pilot
- 8 Inlet pressure test point
- 9 Outlet pressure test point
- 10 Pilot outlet
- 11 Thermocouple connection
- 12 Gas inlet
- 13 Gas outlet





TECHNICAL DATA

- Gas connections:
- · Water connections:
- · Installation position:
- Gas families:
- Maximum gas inlet pressure:
- Outlet pressure range:
- Working temperature range:
- · Pressure regulator:

Rp 1/2 ISO 7 (0.75-18 UNS 2B on request) Rc 3/4 ISO 7 (3/4 NPT on request)

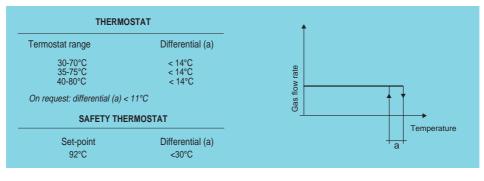
any position I,II and III

50 mbar

50 mbar

3-18 mbar

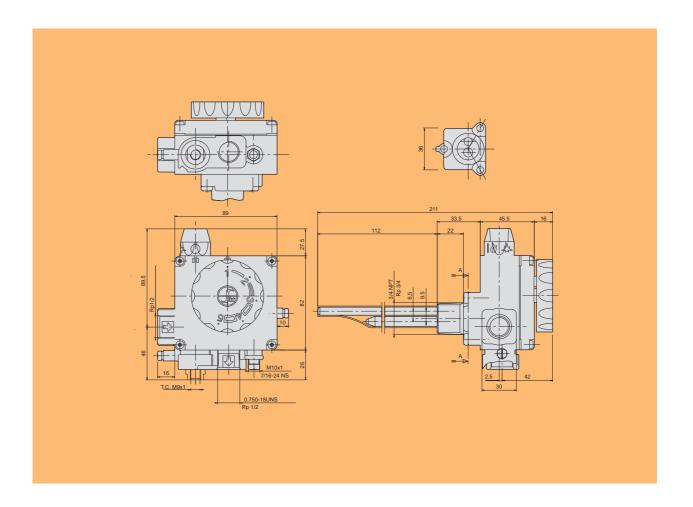
0-80° C Class C



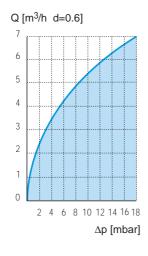
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DIMENSIONS



FLOW RATE AS FUNCTION OF PRESSURE DROP



Standard			
- 1	Family (d = 0.45)	$Q = 4.3 \text{ m}^3/\text{h}$	$\Delta p = 5 \text{ mbar}$
II	Family (d = 0.6)	$Q = 3.7 \text{ m}^3/\text{h}$	Δp = 5 mbar
Ш	Family (d = 1.7)	Q = 4.6 kg/h	$\Delta p = 5 \text{ mbar}$

OPERATION

Ignition

Depress and turn the control knob to the pilot position *.

Depress the button and ignite the pilot flame while keeping the knob fully depressed for a few seconds (fig. 1).

Release the knob and check that the pilot flame stays lit. If it goes out, repeat the ignition operation.



Depress and turn the control knob to the position corresponding to symbol . On release, the knob returns to the ON position . Turn the temperature selection knob to the point corresponding to the desired temperature (fig. 3).

Pilot position

To close the main burner and keep the pilot flame on, depress and turn the control knob to the pilot position ** (fig. 1).

Shutdown

Turn the control knob to the OFF position ● (fig. 4).

CAUTION: after shutting down, wait at least two minutes before re-igniting so as to allow the flame failure device to return to the safety position.

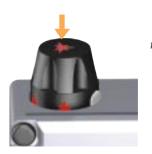


fig. 1



fig. 2

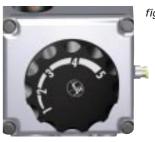


fig. 3



fig. 4



INSTALLATION

Main gas connection

The connection is made using gas pipes with Rp 1/2 ISO 7 threading (the valve is available with 0.75-18 UNS 2B outlet on request). Torque: 25 Nm.

Water connection

The connection flange threading is Rc 3/4 ISO 7 (3/4 NPT on request).

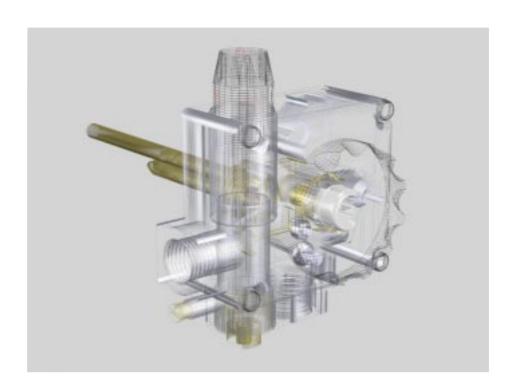
Connection to the pilot burner

Pipes with a 4 mm, 6 mm or 1/4 diameter can be used. Use a nut and olive of appropriate dimensions. Tighten to 7 Nm torque.

Thermocouple connection

Connect the thermocouple to the magnet unit, checking that the fixing connection is properly dimensioned. Torque: 3 Nm.

After making the gas connections, check tightness and that the appliance is operating properly.



SETTINGS AND ADJUSTMENTS

Adjusting the outlet pressure

This adjustment must be made with the thermostat bulb cold and the knob in position 5.

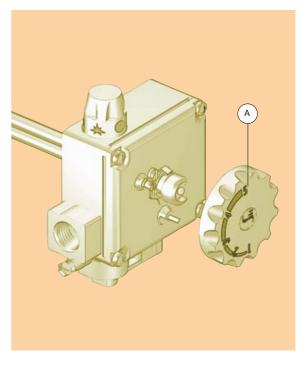
Take off the temperature adjustment knob (A). Check that the pressure adjustment override screw (NO P.R.) is screwed out completely. Screw in the screw (P.R. ADJ.) to increase the outlet pressure or screw it out to reduce it.

Overriding the pressure adjuster Screw the screw (NO P.R.) fully in.

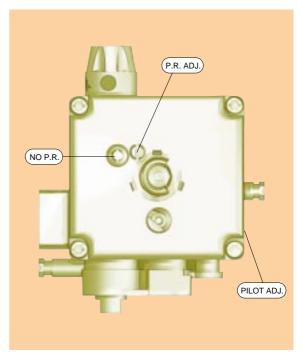
Adjusting the gas flow rate to the pilot Screw in the screw (PILOT ADJ.) to reduce the flow, or screw it out to increase it. To put the pilot gas flow adjuster out of service, fully screw in the screw (PILOT ADJ.) and then screw it back two complete turns.

IMPORTANT

At the end of all setting and adjustment operations, check gas tightness and that the appliance is operating properly.



Taking off temperature adjustment knob



Adjusting the outlet pressure and the flow rate to the pilot

Implement the provisions in the Use and Maintenance manual - code 9.956.610 - for installation, adjustment and use



