



**TECHNICAL CHARACTERISTICS**  
**INSTRUCTIONS FOR USE, ASSEMBLY INSTRUCTIONS,**  
**MAINTENANCE INSTRUCTIONS**



**MODEL 30**

MANUALLY OPERATED VALVE  
WITH ADJUSTABLE MECHANICAL THERMOSTAT

 Gas Safety Certified	
<b>AS 4624 - 2005</b>	<b>EN 126:2012 EN 13611:2007 + A2:2011</b>

### GENERAL INSTRUCTIONS

Feature	Description
Type	adjustable mechanical thermostat
Applications	ovens
types of gas used	1 <sup>st</sup> – 2 <sup>nd</sup> – 3 <sup>rd</sup> family
group	1
thermoelectric flame supervisor class	B (10,000 cycles)
number of outlets	1
nominal diameter	8
maximum working pressure	6.5 kPa
minimum working temperature (body)	0°C
maximum working temperature (body)	80/130°C
nominal flow rate	0.460 m <sup>3</sup> /h (test gas: air - pressure drop 125 Pa - AS 4624-2005) 0.411 m <sup>3</sup> /h (test gas: air - pressure drop 100 Pa - EN 126-2012)
reduced flow rate	0.046 m <sup>3</sup> /h (test gas: air - pressure drop 125 Pa - AS 4624-2005) 0.041 m <sup>3</sup> /h (test gas: air - pressure drop 100 Pa - EN 126-2012)
opening angle of max. flow rate	231°
opening angle of min. flow rate	52°
external leak tightness	leakage ≤ 60 cc/h (1 ml/min) (air - pressure 15 kPa)
internal leak tightness	leakage ≤ 20 cc/h (0.3 ml/min) (air - pressure 15 kPa)
gas valve continued operation	10,000 cycles (EN 126:2012 - EN 13611:2007 + A2:2011) 10,000 cycles (AS 4624 – 2005)
inlet gas connection	bracket, flange (see attached sheets)
outlet gas connection	see attached sheets
storage temperature range	-15°C to + 50°C
sensor's maximum temperature (bulb)	315 °C
temperature adjustment range	100 – 315°C
temperature tolerance	± 8.5°C
assembly position	Any position
Range of modulation	30°C
operating torque	≤ 30 N
mechanical differential	8°A
Temperature variation (130°C)	17°C
Temperature tolerance	± 10°C
Drift for thermal overload	±5°C

These valves can be used with pipes of various diameters and flat manifolds.

To ensure a perfect seal, place an elastomer gasket between the manifold and the valve.

Gaskets of different materials can be used for the manifold depending on the temperature reached: silicon elastomer gaskets are resistant up to 130°C (all colors except black) while nitrile elastomer gaskets are resistant up to 80°C (black gasket).

## INSTRUCTIONS FOR USE

To turn the thermostat on, simultaneously press and turn the control shaft.

Holding down the control shaft and turning it anti-clockwise allows the gas to pass to the burner.

Once the thermostat has been turned through 52°, gas begins to flow giving the minimum adjustable temperature. The thermostat can be turned through 231°A giving a continuous increase in temperature.

Temperatures may be adjusted from 128°C to 300°C.

The thermostat has an adjustable perforated metering screw (by-pass) which fixes the reduced flow-rate at a preset value when fully tightened. If a different type of gas is used, the amount of reduced flow can be adjusted by turning the by-pass with a screwdriver.

## ASSEMBLY INSTRUCTIONS

**The thermostats are designed to be used inside the cooking appliances, protected from any possible infiltrations of liquid or dirt and from the atmospheric agents. The non-observance of this prescription can compromise the correct working and the safety of the product.**

The thermostats are designed to be used with manifolds of different diameters using flange or bracket fastenings.

To ensure a perfect seal, place an elastomer gasket between the manifold and the valve.

The outlet is designed for a connection pipe to the burner.

Calibration is determined in the factory and should not be altered even by qualified personnel. In case of irregularity, the whole thermostat should be replaced.

To avoid damage that may compromise correct functioning of the thermostats, do not exceed the tightening torques listed in the attached tables.

**To avoid dirt or other material entering the equipment which may affect functioning and safety of the thermostat, a suitable filter should be mounted on the manifold supply inlet.**

## MAINTENANCE INSTRUCTIONS

Maintenance of the taps is not foreseen, in case of failure or incorrect operation replace the tap with a new one (same model and same characteristics).

**NB.: Leak test should be performed using a suitable appliance. Leak test mustn't be done by means of a flame or immersion of the valve in water or other liquids. The non-observance of this prescription can compromise the correct working and the safety of the product.**

## VARIANTS

### INLET VARIANTS

inlet	denomination		assembly	
1	single bracket	1 screw	tube diameter 14 mm	(hole diameter 8.2 mm)
2	single bracket	1 screw	tube diameter 16 mm	(hole diameter 8.2 mm)
5	single bracket	1 screw	tube diameter 18 mm	(hole diameter 8.2 mm)
8	bracket	2 screws	tube diameter 18 mm	(hole diameter 8.2 mm)
9	bracket	2 screws	tube diameter ½"gas	(hole diameter 8.2 mm)
13	bracket	2 screws	tube diameter 16 mm	(hole diameter 8.2 mm)
15	bracket	2 screws	tube diameter 8 mm	(hole diameter 5.7 mm)
16	bracket	2 screws	tube diameter 10 mm	(hole diameter 5.7 mm)
17	bracket	2 screws	tube diameter 14 mm	(hole diameter 8.2 mm)
19	bracket	2 screws	tube diameter 19 mm	(hole diameter 8.2 mm)
20	bracket	2 screws	tube diameter 17 mm	(hole diameter 8.2 mm)

### OUTLET VARIANTS

outlet	denomination	assembly
A	tube diameter 6 mm	compression fitting
B	tube diameter 8 mm	compression fitting
C	tube diameter 10 mm	compression fitting
D	tube diameter 6 mm	compression fitting
E	tube diameter 8 mm	compression fitting
F	G 3/8"	flared tube
G	G 1/4"	flared tube
H	M 14 x 1.5	flared tube
L	tube diameter 9.525 mm	compression fitting
M	tube diameter 7 mm	compression fitting
O	tube diameter 6.35 mm	compression fitting
S	tube diameter 6.35 mm	compression fitting
T	tube diameter 10 mm	compression fitting
Z	tube diameter 4 mm	compression fitting

#### Maximum torque values:

Maximum torque value		
Component	Nm	lbf.in
Nut + olive + aluminium tube for oven outlet of thermostats	15	133
Nut + olive + copper tube for oven outlet of thermostats	15	133
Nut + olive + steel tube for oven outlet of thermostats	10	89
Nut + tapered aluminium tube (bundy) for oven outlet of thermostats	15	133
Nut + bouldged aluminium tube for oven outlet of thermostats	15	133
Nut for fixing thermocouple to magnet	4	35
Screws for brackets	1.5	13

**MANUFACTURING DATE CODES**

MONTH	CODE
JANUARY	N
FEBRUARY	O
MARCH	P
APRIL	R
MAY	S
JUNE	T
JULY	U
AUGUST	V
SEPTEMBER	W
OCTOBER	X
NOVEMBER	Y
DECEMBER	Z

YEAR	CODE
1992	A
1993	B
1994	C
1995	D
1996	E
1997	F
1998	H
1999	I
2000	J
2001	K
2002	L
2003	M
2004	4
2005	5
2006	6
2007	7
2008	8
2009	9
2010	0
2011	1
2012	2
2013	3
2014	4
2015	5
2016	6
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EXAMPLE: A COMPONENT PRODUCED IN APRIL 2004 IS MARKED

**R4**

Alternatively, on the component can be marked a four digit code indicating the week (first two digits) and the year of production (last two digits).

EXAMPLE: A COMPONENT PRODUCED THE 14<sup>TH</sup> WEEK OF 2004 IS MARKED

**1404**

Alternatively, on the component can be marked the day (first digits), the month (according with the code in table above) and the year of production (last two digits).

EXAMPLE: A COMPONENT PRODUCED IN APRIL, 19 2004 IS MARKED

**19 R 04**