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Via dei Carpini, 1
25035 Ospitaletto (Brescia) Italia

TECHNICAL CHARACTERISTICS

INSTRUCTIONS FOR USE, MAINTENANCE INSTRUCTIONS

MODELS 15-15P-15V-15VP

MANUALLY-OPERATED GAS VALVE
WITH FLAME SURVEILLANCE DEVICE

Gas Safety Certified		CE	
AS 4624-2005		**EN 437:2003 + A1:2009** (not for 15VP) **EN 126:2012** **EN 13611:2007+A1:2011**	
models	**15-15P-15V-15VP (SAI-400154)**	**models**	**15-15P (51BU3852)** **15V-15VP (51CL4024)**

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GENERAL INSTRUCTIONS

Feature	Description
type	conical plug valve
applications	hot plates, ovens, grills etc
types of gas used	1st – 2nd – 3rd family
group	1
number of outlets	1
nominal diameter	8
maximum working pressure	6.5 kPa
minimum working temperature	0°C
maximum working temperature	80/130°C
nominal flow rate (except inlet variants 15-16-21)	0.347 m^3/h (test gas: air - pressure drop 125 Pa – AS 4624-2005) 0.310 m^3/h (test gas: air - pressure drop 100 Pa – EN 126-2012)
nominal flow rate (inlet variants 15-16-21)	0.246 m^3/h (test gas: air - pressure drop 125 Pa – AS 4624-2005) 0.220 m^3/h (test gas: air - pressure drop 100 Pa – EN 126-2012)
reduced flow rate (except inlet variants 15-16-21)	0.067 m^3/h (test gas: air – pressure drop 125 Pa – AS 4624-2005) 0.060 m^3/h (test gas: air – pressure drop 100 Pa – EN 126-2012)
reduced flow rate (inlet variants 15-16-21)	0.056 m^3/h (test gas: air – pressure drop 125 Pa – AS 4624-2005) 0.050 m^3/h (test gas: air – pressure drop 100 Pa – EN 126-2012)
opening angle of max. flow rate	90°
opening angle of min. flow rate	160° (210° mod 15P – 15VP)
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	40,000 cycles (EN 126:2012 - EN 13611:2007 + A2:2011) 10,000 cycles (AS 4624 – 2005)
Flame supervisor device continued operation	10,000 cycles (EN 126:2012 - EN 13611:2007 + A2:2011) 2,000 cycles (AS 4624 – 2005)
inlet gas connection	bracket, flange (see inlet variant table)
outlet gas connection	see outlet variant table
storage temperature range	-15°C to +50°C
hold-on current/drop-out current (safety device)	≤ 180 mA / ≥ 60 mA (version 1) ≤ 110 mA / ≥ 20 mA (version 2) ≤ 60 mA / ≥ 10 mA (version 3)
Themocouples maximum closing time	90 sec

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).

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INSTRUCTIONS FOR USE

To turn the valve 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. A few seconds after the burner ignites, the thermocouple generates enough current to hold the safety magnet open. The control shaft needs no longer be pressed down.
If indicated in the assembly drawing, to turn the valve on is necessary, starting from the close position (0°A), to turn the operating spindle anti-clockwise up to 90°A; only in this position the safety valve can be opened and consequently is possible to held-on the magnet.
If the valve has a microswitch, press down on the control shaft activating the microswitch which drives the thermoelectric lighting device (see table 1).
Maximum flow-rate is reached after turning the control shaft through 90°; reduced flow-rate is reached by continuing the rotation up to 160° (210° mod 15P – 15VP).
If the flame should accidentally go out, the thermocouple cools and the current is reduced, the safety magnet is closed and the flow of gas is blocked after a few seconds.
The valve 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.

TABLE 1 - MICROSWITCH CHARACTERISTICS	
Nominal tension	250 V
Method for operation	push-button
Max. operating temperature	125 °C
Contact distance	small – standard
Protection level	IP00
Insulation class	I
Pollution situation	standard
Heat-resistance	category D
Tracking index	PTI250

ASSEMBLY INSTRUCTIONS

The valves 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 valves 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 ramp and the valve.
The outlet is designed for an injector or connection pipe to the burner.
To avoid damage that may compromise correct functioning of the valve, do not exceed the tightening torques listed in the attached tables.
To avoid dirt or other material entering the equipment which may affect functioning of the valve, 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.

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VARIANTS

INLET VARIANTS

inlet	denomination		assembly	
1 - 1N	monobriglia	1 vite	tubo diametro 14 mm	(foro diametro 8,2 mm)
2 - 2N	monobriglia	1 vite	tubo diametro 16 mm	(foro diametro 8,2 mm)
3 - 3N	briglia	1 vite	tubo diametro 16 mm	(foro diametro 8,2 mm)
4 - 4N	briglia	1 vite	tubo diametro 16 mm	(foro diametro 8,2 mm)
4a - 4aN	briglia	2 viti	tubo diametro 16 mm	(foro diametro 8,2 mm)
5 - 5N	monobriglia	1 vite	tubo diametro 18 mm	(foro diametro 8,2 mm)
6 - 6N	briglia	1 vite	tubo diametro 18 mm	(foro diametro 8,2 mm)
7 - 7N	briglia	1 vite	tubo diametro 18 mm	(foro diametro 11 mm)
8 - 8N	briglia	1 vite	tubo diametro 18 mm	(foro diametro 8,2 mm)
8a - 8aN	briglia	2 viti	tubo diametro 18 mm	(foro diametro 8,2 mm)
9 - 9N	briglia	2 viti	tubo diametro ½"gas	(foro diametro 8,2 mm)
10 - 10N	briglia	1 vite	tubo diametro ½"gas	(foro diametro 8,2 mm)
11 - 11N	briglia	1 vite	tubo diametro ½"gas	(foro diametro 8,2 mm)
12 - 12N	briglia	2 viti	tubo diametro 15 mm	(foro diametro 8,2 mm)
13 - 13N	briglia	2 viti	tubo diametro 16 mm	(foro diametro 8,2 mm)
13a - 13aN	briglia	2 viti	tubo diametro 14 mm	(foro diametro 8,2 mm)
13b - 13bN	monobriglia	1 vite	tubo diametro 16 mm	(foro diametro 8,2 mm)
14	flangia	2 viti	tubo piatto	(foro diametro 5,7 mm)
15 - 15N	briglia	2 viti	tubo diametro 8 mm	(foro diametro 5,7 mm)
16 - 16N	briglia	2 viti	tubo diametro 10 mm	(foro diametro 5,7 mm)
17	briglia	2 viti	tubo diametro 16 mm	(foro diametro 6,2 mm)
17a	briglia	2 viti	tubo diametro 16 mm	(foro diametro 6,2 mm)
18 - 18N	briglia	2 viti	tubo diametro 14 mm	(foro diametro 8,2 mm)
19 - 19N	briglia	2 viti	tubo diametro 19 mm	(foro diametro 8,2 mm)
20 - 20N	briglia	2 viti	tubo diametro 17 mm	(foro diametro 8,2 mm)
21 - 21N	monobriglia	1 vite	tubo diametro 8 mm	(foro diametro 5,7 mm)
22 - 22N	monobriglia	1 vite	tubo sagomato	(foro diametro 8,2 mm)

OUTLET VARIANTS

outlet	denomination	assembly
A	Iniettore	iniettore + filettatura esterna
B	Iniettore	iniettore
C	tubo diametro 6,35 mm	dado + bicono
D	tubo diametro 6,35 mm	dado + bicono
E	G ¼"gas	tubo sbordato
F	M 14 x 1,5	tubo sbordato
G	M 15x 1,5	tubo sbordato
H	M 16 x 1,5	tubo sbordato
I	tubo diametro 6 mm	dado + bicono
L	tubo diametro 7 mm	dado + bicono
M	tubo diametro 8 mm	dado + bicono
N	tubo diametro 8 mm	dado + bicono
O	M 12 x 1	tubo sbordato
P	tubo diametro 9,525 mm (3/8'')	dado + bicono
R	Iniettore	iniettore
S	tubo diametro 7 mm	dado + bicono
T	tubo diametro 6 mm	dado + bicono
W	M 16 x 1,25	tubo sbordato

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Max. torque values:

maximum torque value		
Component	**Nm**	**lbf.in**
Nut + (olive) + tube for outlet of valves	15	133
Screws for fixing brackets	1.5	13
Injectors	4	35

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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

EXAMPLE: A COMPONENT PRODUCED IN APRIL 2004 IS MARKED

R4

Alternatively, on the component can be marked a five digit code indicating the day (first two digits), the month (third digit – 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

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 14TH WEEK OF 2004 IS MARKED

1404