SABAF S.p.A.
Via dei Carpini, 1
25035 Ospitaletto (Brescia) Italia

TECHNICAL CHARACTERISTICS

INSTRUCTIONS FOR USE, ASSEMBLY INSTRUCTIONS, MAINTENANCE INSTRUCTIONS

MODEL 7 - 7X - 7Y - 7Z

MANUALLY-OPERATED GAS VALVE

Gas Safety Certified		CE	
AS 4617		**EN 1106 EN13611**	
models	**7-7X-7Y-7Z (SAI-400157)**	**models**	**7-7X-7Y-7Z (51CR4738)**

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GENERAL INSTRUCTIONS

Feature	Description
Type	2 - 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 (body)	0°C
maximum working temperature (body)	80/130°C
nominal flow rate	0.313 m^3/h (test gas: air - pressure drop 125 Pa - AS 4617) 0.28 m^3/h (test gas: air - pressure drop 100 Pa - EN 1106)
Reduced flow rate	0.045 m^3/h (test gas: air – pressure drop 125 Pa - AS 4617) 0.04 m^3/h (test gas: air – pressure drop 100 Pa- EN 1106)
opening angle of max. flow rate	90°
opening angle of min. flow rate	210°(7 and 7X); 270° (7Y); 160° (7Z)
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 1106 - EN 13611) 10,000 cycles (AS 4617)
inlet gas connection	bracket, flange (see attached sheets)
outlet gas connection	see attached sheets
storage temperature range	-15°C to +50°C

If applicable,

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

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

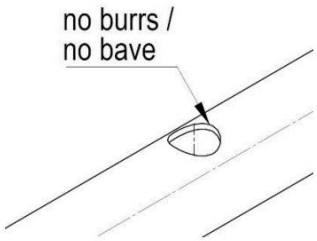
To turn the valve on, simultaneously press and turn the control shaft.
Pressing the control shaft frees the valve from the “closed” position block. This allows the plug to rotate and the gas to pass to the burner.
As regards the gas valve model 7, X variant (body marked 7X), the cap hasn’t the stop in the closed position; the stop in the closed position has to be realised by an external device.
Maximum flow-rate is reached after turning the control shaft through 90°; reduced flow-rate is reached by continuing the rotation up to 210° for models 7 and 7X.
As regards the gas valve model 7, Y variant (body marked 7Y), maximum flow-rate is reached after turning the control shaft through 90°; reduced flow-rate is reached by continuing the rotation up to 270°.
As regards the gas valve model 7, Z variant (body marked 7Z), maximum flow-rate is reached after turning anti-clockwise the control shaft through 90°; reduced flow-rate is reached by continuing the rotation up to 160°.

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 inserted into the hole in the control shaft.

ASSEMBLY INSTRUCTIONS

The valves are designed to be used inside the gas cooking appliances, protected from any possible infiltrations of liquid or dirt and from any atmospheric agents. The non-observance of this prescription can compromise the correct functionality and the safety of the product.
The valves are designed to be used with manifolds with different diameters using flange or bracket fastenings.
To ensure a perfect seal:

- Place an elastomer gasket between the manifold tube and the valve
- Realize, on the manifold, the seating holes according to the table “inlet variants” and ensure they are free of burrs (see following sketch)



The outlet is designed for a burner connection by pipe or injector.
To avoid damage that may compromise correct functionality of the valve, do not exceed the tightening torques listed in the table “maximum torque value”.
To avoid dirt or other material (solid or liquid) entering the appliance which may affect functionality of the valve, a suitable filter must be mounted on the manifold inlet.
The valve has to be stored and assembled in a cleaned area to avoid any contamination.
To avoid any damage on the valve, the manifold must be completely cleaned and free of burrs before the valve assembling. In order to guarantee a cleaned manifold, moreover an air blowing process, a degreasing washing system has to be considered, like an ultrasonic system.

Examples of possible particles contamination that could come in the valve from the inlet compromising its functionality:

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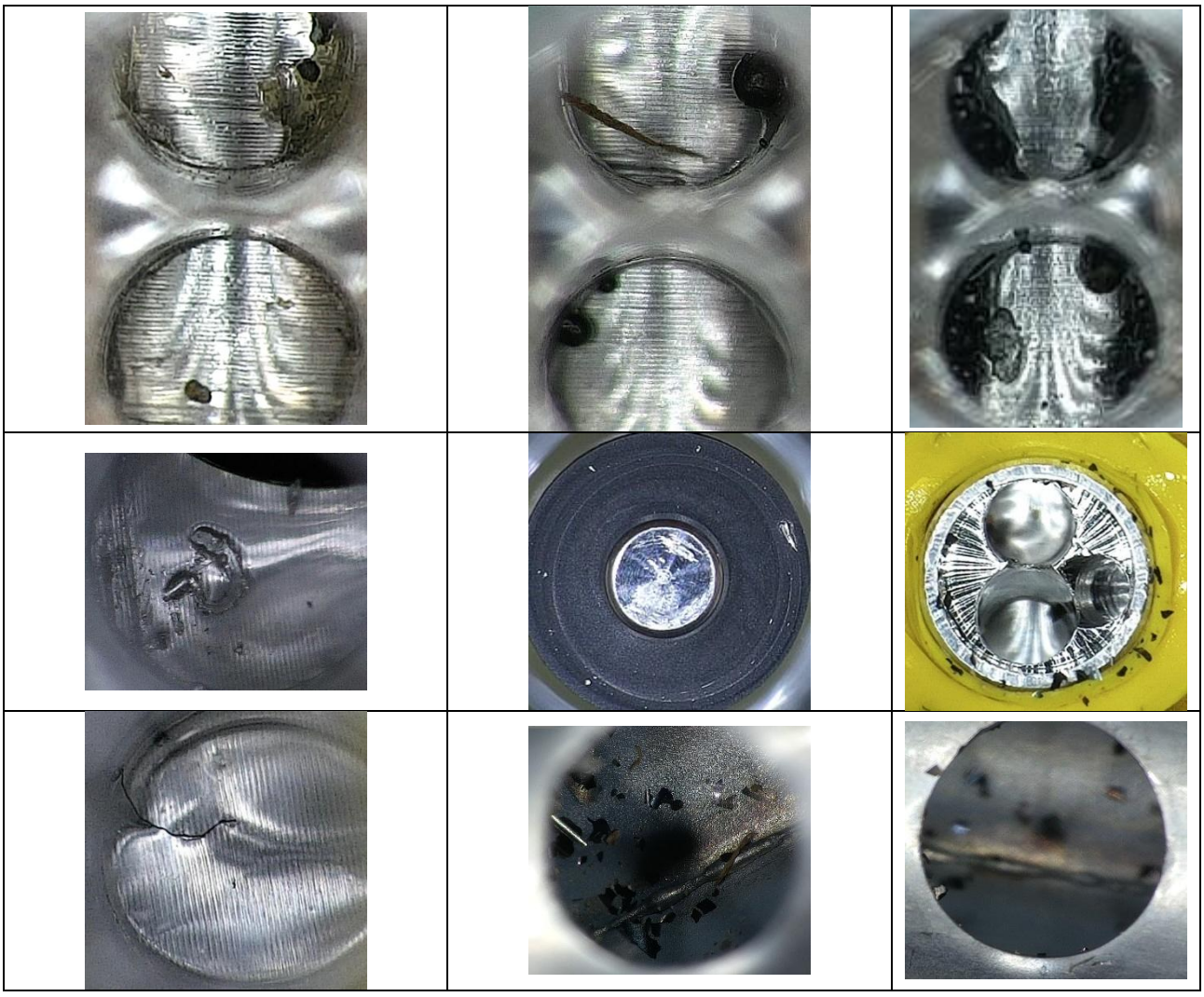

MAINTENANCE INSTRUCTIONS

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.

SAFETY & ENVIRONMENT INSTRUCTIONS

Please note that none of our products / components contain substances that may be released intentionally during normal or reasonably foreseeable use.
The normal or reasonably foreseeable use of our items does not involve particular precautions; only for disposal at the end of their life, it is recommended not to subject the products / components to mechanical processing such as cutting or drilling, which could cause exposure to the substances contained in the products / components or their dispersion into the environment.

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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)
3	bracket	1 screw	tube diameter 16 mm	(hole diameter 8.2 mm)
4	bracket	1 screw	tube diameter 16 mm	(hole diameter 8.2 mm)
4a	bracket	2 screws	tube diameter 16 mm	(hole diameter 8.2 mm)
5	single bracket	1 screw	tube diameter 18 mm	(hole diameter 8.2 mm)
6	bracket	1 screw	tube diameter 18 mm	(hole diameter 8.2 mm)
7	bracket	1 screw	tube diameter 18 mm	(hole diameter 11 mm)
8	bracket	1 screw	tube diameter 18 mm	(hole diameter 8.2 mm)
8a	bracket	2 screws	tube diameter 18 mm	(hole diameter 8.2 mm)
9	bracket	2 screws	tube diameter 1/2"gas	(hole diameter 8.2 mm)
10	bracket	1 screw	tube diameter 1/2"gas	(hole diameter 8.2 mm)
11	bracket	1 screw	tube diameter 1/2"gas	(hole diameter 8.2 mm)
12	bracket	2 screws	tube diameter 15 mm	(hole diameter 8.2 mm)
13	bracket	2 screws	tube diameter 16 mm	(hole diameter 8.2 mm)
13a	bracket	2 screws	tube diameter 14 mm	(hole diameter 8.2 mm)
13b	single bracket	1 screw	tube diameter 16 mm	(hole diameter 8.2 mm)
13c	single bracket	1 screw	tube diameter 16 mm	(hole diameter 8.2 mm)
14	flange	2 screws	flat tube	(hole diameter 5.7 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 16 mm	(hole diameter 6.2 mm)
17a	bracket	2 screws	tube diameter 16 mm	(hole diameter 6.2 mm)
18	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)
21	single bracket	1 screw	tube diameter 8 mm	(hole diameter 5.7 mm)
22	single bracket	1 screw	shaped tube	(hole diameter 8.2 mm)

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OUTLET VARIANTS

outlet	denomination	assembly
A	injector	injector + external thread
B	injector	injector
C	tube diameter 6.35 mm	compression fitting
D	tube diameter 6.35 mm	compression fitting
E	G ¼" gas	flared tube
F	M 14 x 1.5	flared tube
G	M 15 x 1.5	flared tube
H	M 16 x 1.5	flared tube
I	tube diameter 6 mm	compression fitting
L	tube diameter 7 mm	compression fitting
M	tube diameter 8 mm	compression fitting
N	tube diameter 8 mm	compression fitting
O	M 12 x 1	flared tube
P	tube diameter 9.525 mm (3/8")	compression fitting
R	injector	injector
S	tube diameter 7 mm	compression fitting
T	tube diameter 6 mm	compression fitting
W	M 16 x 1.25	flared tube

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

MANUFACTURING DATE CODES

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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 JUNE 1995 IS MARKED

TD

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

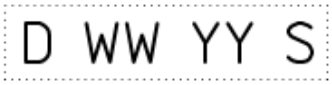
1404

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

Alternatively, on the component can be laser marked a six digit code indicating the day (first digit), week (second and third digit), the year of production (fourth and fifth digit) and the shift of production (last digit).



- D= day of production

(Monday=”1”, Tuesday =”2”; Wednesday=”3”; Thursday=”4”; Friday=”5”; Saturday=”6”; Sunday=”7”)

- WW= week of production

- YY= year of production

(2012 = “12”; 2013 = “13”; 2014 = “14”; ….)

- S= shift of production

(1°shift = “1”; 2° shift =”2”; 3° shift =”3”)