EC type-examination CERTIFICATE

Dutch Centre of Gas Technology

GASTEC

Number **E 0626**

GASTEC NV, notified body **0063** hereby declare that the

Product **Shut-off valves**

Series E8/..., E6G..., EG12.., EG25.., EG30..

Made by **Brahma S.p.A.,**

Legnago, Italy,

Complies with the essential requirements of the Gas Appliance Directive (90/396/EEC)

This compliance is based on the examination to: EN161: 1991.

The products have been approved for:

Austria	Belgium	Germany
Denmark	Spain	Finland
France	United Kingdom	Greece
Ireland	Italy	Luxemburg
The Netherlands	Norway	Portugal
Sweden		

A description of the specific types, valid reports and identification numbers is given in the appendices to this certificate.

Apeldoorn, **31 JULY 1995**

dr. L. Noordzij,
president.

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V/C/61.2

EC TYPE-EXAMINATION CERTIFICATE: E 0626

Appendix no.: 1
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Examination report(s):

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121256	dated 17-01-2002
123184	dated 01-12-2005

This appendix replaces appendices no. 1 dated December 17th 2002.

List of all available types

E8/....	Automatic shut-off valve approved on EN161	
	Class A	
	Supply Voltage	110Vac/50-60HZ
		230Vac/50-60Hz
	Degree of protection	....CFP or DFP IP00 or IP40
		....GMO IP40
		....D3C - C3C -CFD or DFD IP65
	Max. ambient temperature -10°C - +60°C	
	Mechanical strength Group 2	
	Details about type numbers:	
	E8/...	= gas valve
	. . . B... or ....SB4..	= connection compression 6mm
	. . . L...	= connection Rp1/8
	. . . S...	= connection Rp1/4
	. . . . R...	= flow adjuster
	. . . . . P...	= pressure test point
	. . . . . C....	= continuous current
	. . . . . D....	= half-wave rectified current
	. . . . . G....	= double half-wave rectifier
	. . . . . 3C...	= with three core cable
	. . . . . FP...	= with flat fast-on terminals
	. . . . . FD...	= with terminals for DIN43650 plug
	. . . . . MO...	= with terminal board
	. . . . . MOE...	= terminal board with capacitor
-	. . . . . .110/50-60	= supply voltage
	. . . . . .230/50-60	= supply voltage

E8/B*(D)(C)3C	compression fitting 6mm
E8/B*(D)(C)FP	max. operating pressure 2000mbar
E8/B*(D)(C)FD+MPM182	
E8/L*(D)(C)3C	connection Rp1/8
E8/L*(D)(C)FP	max. operating pressure 2000mbar
E8/L*(D)(C)FD+MPM182	

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E8/S*GMO	connection Rp1/4
E8/S*C3C	max. operating pressure 100mbar
E8/S*CFP	
E8/S*CFD+MPM182	
E8/S*CFD+MPM532	
E8/SRP* GMOE	
E8/SB4*C3C	compression fitting 6mm
E8/SB4*CFD+MPM182	max. operating pressure200mbar

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E6G....

Automatic shut-off valve approved on EN161
Class A

Supply Voltage	110Vac/50-60Hz
	230Vac/50-60Hz
Degree of protection	....AFP IP00 or IP40
	....GMO IP54 or GFD IP40
	....A3C or...CFD IP65

Max. ambient temperature -10°C - +60°C
Mechanical strength Group 2
Details about type numbers:

E6G...	= gas valve
. . . A...	= valve supplied in AC
. . . S...	= valve supplied in DC or rectified AC
. . . L...	= slow opened with flow adjuster
. . . . R...	= flow adjuster
. . . . . P...	= pressure test point
. . . . . .8*1/4	= connection Rp1/4
. . . . . .8*3/8	= connection Rp3/8
. . . . . .8*1/2	= connection Rp1/2
. . . . . .10*3/8	= connection Rp3/8
. . . . . .10*1/2	= connection Rp1/2
. . . . . C....	= continuous current
. . . . . G....	= double half-wave rectifier
. . . . . .3C...	= with three core cable
. . . . . .FP...	= with flat fast-on terminals
. . . . . .FD...	= with terminals for DIN43650 plug
. . . . . .MO...	= with terminal board
. . . . . .MOC...	= terminal board with short conveyors
. . . . . .5..	= test pressure point outlet left
. . . . . .6..	= test pressure point outlet right
. . . . . .7..	= test pressure point inlet left
. . . . . .8..	= test pressure point inlet right
. . . . . .110/50-60	= supply voltage
. . . . . .230/50-60	= supply voltage

E6G*S10*.*GMO	connection Rp3/8 or Rp1/2
E6G*S10*.*CFD	max. operating pressure 500mbar
E6G*SR10*.*GMO	connection Rp3/8 or Rp1/2
E6G*SR10*.*CFD	max. operating pressure 500mbar
E6G*L *GMO	connection Rp3/8 or Rp1/2

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	max. operating pressure 200mbar
E6G*S8*.*GMOC	connection Rp1/4 max. operating pressure 1000mbar connection Rp3/8 or Rp1/2 max. operating pressure 500mbar
E6G*S8*.*GMO E6G*S8*.*CFD	connection Rp1/4, Rp3/8 or Rp1/2 max. operating pressure 1000mbar
E6G*SR8*.*GMOC	connection Rp1/4, max. operating pressure 1000mbar connection Rp3/8 or Rp1/2 max. operating pressure 500mbar
E6G*SR8*.*GMO E6G*SR8*.*CFD	connection Rp1/4, Rp3/8 or Rp1/2 max. operating pressure 1000mbar
E6G*A10*.*A3C E6G*A10*.*AFD	connection Rp3/8 or Rp1/2 max. operating pressure 950mbar

AIG/b1a

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EG12... Automatic shut-off valve approved on EN161
Class A
Supply Voltage 110Vac/50-60Hz
230Vac/50-60Hz
Degree of protection ....GMO IP54 or GFD IP40
....AFP IP00 or IP40
....A3C, C3C, CFD IP65
Max. ambient temperature -10°C - +60°C
Mechanical strength Group 2
With or without test pressure nipples
Details about type numbers:

EG12*.....	= gas valve
. . . A...	= valve supplied in AC
. . . S...	= valve supplied in DC or rectified AC
. . . L...	= slow opened with flow adjuster
. . . R...	= flow adjuster
. . . . . P...	= pressure test point
. . . . . C....	= continuous current
. . . . . G....	= double half-wave rectifier
. . . . . 3C...	= with three core cable
. . . . . FP...	= with flat fast-on terminals
. . . . . FD...	= with terminals for DIN43650 plug
. . . . . MO...	= with terminal board
. . . . . 7...	= test pressure point inlet left
. . . . . 8...	= test pressure point inlet right
. . . . . .110/50-60	= supply voltage
. . . . . .230/50-60	= supply voltage

EG12*A (A3C)(AFP)(AFD)	connection Rp1/2 max. operating pressure 500mbar
EG12*AR (A3C)(AFP)(AFD)	connection Rp1/2 max. operating pressure 500mbar
EG12*S (CFD)(CFP)(C3C) EG12*S GMO	connection Rp1/2 max. operating pressure 500mbar
EG12*SR(CFD)(CFP)(C3C) EG12*SR GMO	connection Rp1/2 max. operating pressure 500mbar
EG12*L GMO EG12*L(CFD)(CFP)(C3C)	connection Rp1/2 max. operating pressure 250mbar

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EG15... Automatic shut-off valve approved on EN161
Class A
Supply Voltage 220-240V/50-60Hz
110V/50-60Hz
Degree of protection ....GMO IP54 or GFD IP40
....AFP IP00 or IP40
....A3C, C3C, CFD IP65
Max. ambient temperature -10°C - +60°C
Max. operating pressure: without Bypass 500 mbar (fast opening versions)
without Bypass 250 mbar (slow opening versions)
with Bypass 100 mbar
Mechanical strength Group 2
With or without test pressure nipples
With or without Bypass EB7 S(R) GMO(E)
Details about type numbers:

EG15*. . . *. . . *. . . .	= gas valve
. . . . *A. . *. . . *. . . .	= fast opening valve
. . . . *S. . *. . . *. . . .	= fast silent opening valve
. . . . *L. . *. . . *. . . .	= slow opened with flow adjuster
. . . . *. R. *. . . *. . . .	= flow adjuster
. . . . *. . P *. . . *. . . .	= pressure test point
. . . . *. . . *S. . *. . . .	= bypass valve
. . . . *. . . *SR. *. . . .	= bypass valve with flow adjuster
. . . . *. . . * . . D*	= bypass valve right
. . . . *. . . * . . S*	= bypass valve left
. . . . *. . . * . . . *A. . .	= alternate current
. . . . *. . . * . . . *C. . .	= continuous current
. . . . *. . . * . . . *G. . .	= double half-wave rectifier
. . . . *. . . * . . . * . 3C .	= with three core cable
. . . . *. . . * . . . * . FD .	= with terminals for DIN43650 plug
. . . . *. . . * . . . * . MO .	= with terminal board
. . . . *. . . * . . . * . . . 5 .	= test pressure point outlet left
. . . . *. . . * . . . * . . . 6 .	= test pressure point outlet right
. . . . *. . . * . . . * . . . 7 .	= test pressure point inlet left
. . . . *. . . * . . . * . . . 8 .	= test pressure point inlet right
. . . . *. . . * . . . * 220/240-50/60	= supply voltage

EG15*A (A3C)(AFP)(AFD)	connection Rp1/2
EG15*S (C3C)(CFP)(CFD)(GMO)	connection Rp1/2
EG15*SR (C3C)(CFP)(CFD)(GMO)	connection Rp1/2
EG15*L (GMO)	connection Rp1/2
EG15*L(CFD)(CFP)(C3C)	

ALG/b1a

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AIG/bio

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EG25...
EG30...

Automatic shut-off valve approved on EN161
With or without by-pass valve *S-SR-L.*
Class A
Supply Voltage 110Vac/50-60Hz
230Vac/50-60Hz

Degree of protection IP54
Max. ambient temperature -10°C - +60°C
Mechanical strength Group 2
Details about type numbers:

EG25*....*.....*....*....	= gas valve connection Rp3/4
EG30*....*.....*....*....	= gas valve connection Rp1
....*S...*.....*...*....	= valve supplied in rectified AC fast
....*L...*.....*...*....	= slow opened with flow adjuster
....*.R..*.....*...*....	= flow adjuster
....*M..*.....*....*...	= power driven modulation and adjustment for flame levels
....*...(1)(2)(3)(5)* .....*...*....	= code of pressure range
....*....*S...*...*....	= by-pass fast
....*....*SR..*...*....	= by-pass with flow adjuster
....*....*L... *...*....	= by-pass slow opened with flow adj.
....*....*...D*...*....	= by-pass right
....*....*...S*...*....	= by-pass left
....*....*I*...*....	= by-pass standard (no letter)
....*....*....15*...*....	= by-pass made up EG15 valve (only EG30 version)
....*....*.....*G...*....	= double half-wave rectifier
....*....*.....*.MO.*....	= with terminal board
....*....*.....*.FD.*....	= connection with fast-on DIN
....*....*.....*...5*....	= test pressure point outlet left
....*....*.....*...6*....	= test pressure point outlet right
....*....*.....*...7*....	= test pressure point inlet left
....*....*.....*...8*....	= test pressure point inlet right
....*....*.....*....*110/50-60	= supply voltage
....*....*.....*....*230/50-60	= supply voltage

EG25*S1 *GMO
EG25*SR1 *GMO

connection Rp3/4
max. operating pressure 100mbar

EG25*S3 *GMO
EG25*SR3 *GMO

connection Rp3/4
max. operating pressure 500mbar

AtG/b1a

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EG25*L1 *GMO	connection Rp3/4 max. operating pressure 50mbar

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EG25*L3 *GMO	connection Rp3/4 max. operating pressure 350mbar
EG25*M 3	connection Rp3/4 max. operating pressure 500mbar
EG30*S2 *GMO EG30*SR2 *GMO	connection Rp1 max. operating pressure 350mbar
EG30*S5 *GMO EG30*SR5 *GMO	connection Rp1 max. operating pressure 500mbar
EG30*L2 *GMO	connection Rp1 max. operating pressure 200mbar
EG30*M 2	connection Rp1 max. operating pressure 350mbar
EG30*L5 *GMO	connection Rp1 max. operating pressure 350mbar
EG30*M 5	connection Rp1 max. operating pressure 500mbar

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EG40...

Automatic shut-off valve approved on EN161
With or without by-pass valve
Class A
Supply Voltage 110Vac/50-60Hz
230Vac/50-60Hz
Degree of protection IP54
Max. ambient temperature -10°C - +60°C
Mechanical strength Group 2
Details about type numbers:

EG40*....*.....*....*....	= gas valve connection Rp1 1/2
....*S..*.....*...*....	= fast opened
....*L..*.....*...*....	= slow opened
....*.R.*.....*...*...,	= flow adjuster
....*..P* .....*...*....	= with pressure plug
....*...*S...*...*....	= by-pass fast
....*...*SR..*...*....	= by-pass with flow adjuster
....*...*L... *...*....	= by-pass slow opened with flow adj.
....*...*...D*...*....	= by-pass right
....*...*...S*...*....	= by-pass left
....*...*I*...*....	= by-pass standard (no letter)
....*...*....25*...*....	= by-pass made up EG25 valve
....*...*.....*G...*....	= double half-wave rectifier
....*...*.....*.MO.*....	= with terminal board
....*...*.....*.FD.*....	= connection with fast-on DIN
....*...*.....*...5*....	= test pressure point outlet left
....*...*.....*...6*....	= test pressure point outlet right
....*...*.....*...7*....	= test pressure point inlet left
....*...*.....*...8*....	= test pressure point inlet right
....*...*.....*....*110/50-60	= supply voltage
....*...*.....*....*230/50-60	= supply voltage

EG40*S...

connection Rp 1/12
max. operating pressure 200mbar

EG40*SR...

connection Rp11/2
max. operating pressure 200mbar

EG40*L...

connection Rp11/2
max. operating pressure 200mbar

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GVC..... Automatic shut-off valve combination approved on EN161 which consists of
- 2 shut-off valves
Class A
Supply Voltage:

type GVC15	110V/50-60HZ 220-240Vac/50-60Hz
types GVC25, GVC30, GVC40	110V/50-60HZ 230V/50-60Hz
Degree of protection	IP40

Max. ambient temperature -10°C - +60°C
Mechanical strength Group 2
- with or without By-pass ventile
- with or without inlet gas pressure switch

Details about type numbers:

GVC-..*....*....*...*..*....	= multibloc system with connection
... -15*....*....*...*..*....	= valve type connection Rp1/2
... -25*....*....*...*..*....	= valve type connection Rp3/4
... -30*....*....*...*..*....	= valve type connection Rp1
... -40*....*....*...*..*....	= valve type connection Rp11/2
...-..*S*....*...*..*....	= first valve fast opening
...-..*SR*....*...*..*....	= first valve fast opening with flow adjuster
...-..*L*....*...*..*.....	= first valve slow opening with flow adjuster
...-..*....*S*...*..*....	= second valve fast opening
...-..*....*SR.*...*..*....	= second valve fast opening with flow adjuster
...-..*....*L*...*..*.....	= second valve slow opening with flow adjuster
...-..*....*....*S.*..*.....	= by-pass valve fast opening
...-..*....*....*SR.*..*.....	= by-pass valve fast opening with flow adjuster
...-..*....*....*L.*..*.....	= by-pass valve slow opening with flow adjuster
...-..*....*....*..D*..*.....	= by-pass valve position right
...-..*....*....*I*..*.....	= by-pass standard (no letter)
...-..*....*....*..15*..*.....	= by-pass made up EG15 valve (GVC30 only version)
...-..*....*....*..25*..*.....	= by-pass made up EG25 valve (GVC40 only version)
...-..*....*....*...*I*.....	= gas pressure switch (no letter, no switch)
...-..*....*....*...*P*.....	= gas pressure switch fixed setting
...-..*....*....*...*PR*.....	= gas pressure switch adjustable setting
...-..*....*....*...*..*XX/XX	= supply voltage of all solenoid gas valves without the final zero

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GVC15*S*S(R)	Max. working pressure: 500mbar
GVC15*S*L	Max. working pressure: 250mbar
GVC15*S*L*SRD	Max. working pressure: 100mbar
GVC25*S3*S(R)3	Max. working pressure: 500mbar
GVC25*S3*L3	Max. working pressure: 350mbar
GVC30*S2*S(R)2	Max. working pressure: 350mbar
GVC30*S2*L2	Max. working pressure: 200mbar
GVC30*S5*S(R)5	Max. working pressure: 500mbar
GVC30*S5*L5	Max. working pressure: 350mbar
GVC40*S*S(R)	Max. working pressure: 200mbar
GVC40*S*L	Max. working pressure: 200mbar