



Number	18GR0118/02	Replaces	18GR0118/01
Issue date	21-06-2022	Contract number	E7060
Due date	21-06-2032	Module	B (Type testing)
Report number	119170	Scope	(EU) 2016/426 (9 March 2016)
PIN	0063AQ7060/2		

## EU TYPE EXAMINATION CERTIFICATE (GAR)

Kiwa hereby declares that the multi-functional control, type(s):

**820 NOVA**

Manufacturer

**SIT S.P.A.  
35129 Padova, Italy**

meet(s) the essential requirements as described in the  
**Regulation (EU) 2016/426 relating to appliances burning gaseous fuels.**

Reference standard: EN 126:2012

This certificate is only valid in combination with the appendix to this certificate, where specific information and/or conditions are given.

# CERTIFICATE



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## APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

Manufacturer: SIT S.P.A.

Multi-functional control and associated safety devices for gas appliances Type 820 NOVA is intended for use on gas appliances and similar use.

### List of all available types:

The multi-functional control(s) make SIT La Precisa S.p.A., 820 NOVA, are intended for use on gas burners, gas appliances and similar use.

820 NOVA Multi-functional control approved on EN 126, which consists of:

Thermo-electric flame supervision device, with integrated manually operated valve and restart interlock. With or without main gas flow adjuster.

Electro-magnetic shut-off valve class D, J or C, with step opening.  
Closing time less than 1 s.

Working voltage: 220/240 V - 50 Hz  
220 V - 60 Hz  
24 V - 50 Hz  
24 V - 60 Hz

Degree of protection IP 54, with SIT connectors.

Servo controlled pressure governor class B

Outlet pressure range: 3 to 30 mbar  
20 to 50 mbar

Flow capacity at  $dP = 5$  mbar :  
6.5 m<sup>3</sup>/h. (d=0.6) class D or J valve  
4.6 m<sup>3</sup>/h. (d=0.6) class C valve

Pilot connection

Max. inlet pressure 60 mbar.

Connection size Rp 1/2, straight or with side outlet, with the possibility for connection flanges.

Mechanical strength group 2

Ambient temperature range 0 to 70 °C or -20 to 60°C



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## APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

820 NOVA mV (Hi-Lo)

Multi-functional control approved on EN 126, which consists of:

Thermo-electric flame supervision device, with integrated manually operated valve and restart interlock. With or without main gas flow adjuster.

Electro-magnetic shut-off valve class D or J, with step opening.

Working voltage: 170mV DC

Servo controlled pressure governor class B

Outlet pressure range: 3 to 8 mbar for Hi-Lo

3 to 30 mbar

20 to 50 mbar

Flow capacity at dP = 5 mbar :

6.5 m<sup>3</sup>/h. (d=0.6) class D or J valve

Pilot connection

Max. inlet pressure 60 mbar.

Connection size Rp 1/2, straight or with side outlet, with the possibility for connection flanges.

Mechanical strength group 2

Ambient temperature range 0 to 70 °C or -20 to 60°C.



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## APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

822 NOVA

Multi-functional control approved on EN 126, which consists of:

Two electro-magnetic shut-off valves. With or without main gas flow adjuster.

1st valve class A or B.

2nd valve class D, J or C.

Closing time less than 1 s.

Provided with step opening or provided with a adjustment crew "LPG/NG".

LPG is fast opening

NG is step opening

Working voltage:

220/240 V - 50 Hz

220 V - 60 Hz

24 V - 50 Hz

24 V - 60 Hz

Degree of protection IP 54, with SIT connectors.

Servo controlled pressure governor class B.

Outlet pressure range: 3 to 30 mbar

20 to 50 mbar

Flow capacity at dP = 5 mbar (d=0.6):

6.5 m<sup>3</sup>/h class B+D or B+J

4.4 m<sup>3</sup>/h class A+D or A+J

4.6 m<sup>3</sup>/h class B+C

3.2 m<sup>3</sup>/h class A+C

Pilot connection

Max. inlet pressure 60 mbar.

Connection: - size Rp 1/2, straight or with side outlet, with the possibility for connection flanges.  
-or botom inlet"fast connection",straight or wide side outlet "fast connection"

Mechanical strength group 2

Ambient temperature range 0 to 60 °C or -20 to 60°C



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## APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

822 NOVAMIX

Multi-functional control approved on EN 126, which consists of:

Two electro-magnetic shut-off valves. With or without main gas flow adjuster.

1st valve class A or B.

2nd valve class D, J or C.

Closing time less than 1 s.

Provided with step opening

Working voltage: 220/240 V - 50 Hz

220 V - 60 Hz

24 V - 50 Hz

24 V - 60 Hz

Degree of protection IP 54, with SIT connectors.

Servo controlled gas/air ratio controller.

Gas/air ratio 1:1.

Governor performance according to class B.

Parallel adjustment:  $\pm 2$  mbar.

Signal pressure range: 0.5 to 12 mbar.

Max. signal pressure 20 mbar.

Outlet pressure range: 0.5 to 12 mbar.

Flow capacity at  $dP = 5$  mbar ( $d=0.6$ ):

6.5 m<sup>3</sup>/h class B+D or B+J

4.4 m<sup>3</sup>/h class A+D or A+J

4.6 m<sup>3</sup>/h class B+C

3.2 m<sup>3</sup>/h class A+C

Flow capacity at  $dP = 17$  mbar ( $d=0.6$ )

13.3 m<sup>3</sup>/h class B+D or B+J

Pilot connection

Max. inlet pressure 60 mbar.

Connection: - size Rp 1/2, straight or with side outlet, with the possibility for connection flanges.  
-or bottom inlet "fast connection", straight or wide side outlet "fast connection"

Mechanical strength group 2

Ambient temperature range 0 to 60 °C.



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824 NOVA

Multi-functional control approved on EN 126, which consists of:

Thermo-electric flame supervision device, with integrated manually operated valve and restart interlock. With or without main gas flow adjuster.

Electro-magnetic shut-off valve class D, J or C, with step opening. Closing time less than 1 s.

Working voltage: 220/240 V - 50 Hz  
220 V - 60 Hz  
24 V - 50 Hz  
24 V - 60 Hz

Degree of protection IP 54, with SIT connectors.

Servo controlled pressure governor class B, provided with electro-magnetic high-low regulator.

Outlet pressure range: 7 to 50 mbar  
2 to 45 mbar

Flow capacity at dP = 5 mbar (d=0.6)  
6.5 m<sup>3</sup>/h class D or J  
4.6 m<sup>3</sup>/h class C

Working voltage high/low regulator:  
240 VAC  
220 VAC  
24 VAC

Pilot connection

Max. inlet pressure 60 mbar.

Connection size Rp 1/2 with, straight or with side outlet, the possibility for connection flanges.

Mechanical strength group 2

Ambient temperature range 0 to 60 °C or -20 to 60°C.



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825 NOVA

Multi-functional control approved on EN 126, which consists of:

Thermo-electric flame supervision device, with integrated manually operated valve and restart interlock. With or without main gas flow adjuster.

Electro-magnetic shut-off valve class D, J or C, with step opening.  
Closing time less than 1 s.

Working voltage: 220/240 V - 50 Hz  
220 V - 60 Hz  
24 V - 50 Hz  
24 V - 60 Hz

Degree of protection IP 54, with SIT connectors.

Servo controlled pressure governor class B, provided with electro-magnetic modulator.

Outlet pressure range: 2 to 20 mbar  
3 to 37 mbar  
7 to 50 mbar

Flow capacity at  $dP = 5$  mbar ( $d=0.6$ )  
6.5 m<sup>3</sup>/h class D or J  
4.6 m<sup>3</sup>/h class C

Working voltage modulator: max. 28 VDC and 165 mA.

Pilot connection

Max. inlet pressure 60 mbar.

Connection size Rp 1/2 with, straight or with side outlet, the possibility for connection flanges.

Mechanical strength group 2

Ambient temperature range 0 to 60 °C or -20 to 60°C.



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826 NOVA

Multi-functional control approved on EN 126, which consists of:

Two electro-magnetic shut-off valves. With or without main gas flow adjuster.

1st valve class A or B.

2nd valve class D, J or C.

Closing time less than 1 s.

Provided with step opening

Working voltage: 220/240 V - 50 Hz

220 V - 60 Hz

24 V - 50 Hz

24 V - 60 Hz

Degree of protection IP 54, with SIT connectors.

Servo controlled pressure governor class B, provided with electro-magnetic high/low regulator.

Outlet pressure range: 7 to 50 mbar

2 to 45 mbar

Flow capacity at  $dP = 5$  mbar ( $d=0.6$ ):

6.5 m<sup>3</sup>/h class B+D or B+ J

4.4 m<sup>3</sup>/h class A+D or A+J

4.6 m<sup>3</sup>/h class B+C

3.2 m<sup>3</sup>/h class A+C

Working voltage high-low regulator:

240 VAC

220 VAC

24 VAC

Pilot connection

Max. inlet pressure 60 mbar.

Connection: - size Rp 1/2, straight or with side outlet, with the possibility for connection flanges.  
-or bottom inlet "fast connection", straight or wide side outlet "fast connection"

Mechanical strength group 2

Ambient temperature range 0 to 60 °C or -20 to 60°C.





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827 NOVA

Multi-functional control approved on EN 126, which consist of:

Two electro-magnetic shut-off valves. With or without main gas flow adjuster.

1st valve class A or B.

2nd valve class D, J or C.

Closing time less than 1 s.

Provided with step opening

Working voltage: 220/240 V - 50 Hz

220 V - 60 Hz

24 V - 50 Hz

24 V - 60 Hz

Degree of protection IP 54, with SIT connectors.

Servo controlled pressure governor class B, provided with electro-magnetic modulator.

Outlet pressure range: 2 to 20 mbar

3 to 37 mbar

7 to 50 mbar

Flow capacity at dP = 5 mbar (d=0.6):

6.5 m<sup>3</sup>/h class B+D, or B+J

4.4 m<sup>3</sup>/h class A+D, or A+J

4.6 m<sup>3</sup>/h class B+C

3.2 m<sup>3</sup>/h class A+C

Working voltage modulator: max. 28 VDC and 165 mA.

Pilot connection

Max. inlet pressure 60 mbar.

Connection: - size Rp 1/2, straight or with side outlet, with the possibility for connection flanges.

-or bottom inlet fast connection", straight or wide side outlet "fast connection"

Mechanical strength group 2

Ambient temperature range 0 to 60 °C or -20 to 60°C.



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828 NOVAMIX

Multi-functional control approved on EN 126, which consists of:

Two electro-magnetic shut-off valves. With or without main gas flow adjuster.

1st valve class A or B.

2nd valve class D, J or C.

Closing time less than 1 s.

Provided with step opening

Working voltage: 220/240 V - 50 Hz

220 V - 60 Hz

24 V - 50 Hz

24 V - 60 Hz

Degree of protection IP 54, with SIT connectors.

Servo controlled gas/air ratio controller.

Amplification factor 4:1 to 20:1

Pressure governor performance class B.

Outlet pressure range: 3 to 30 mbar

20 to 50 mbar

Pneumatic signal 0.3 to 10 mbar

Max. signal pressure difference 5 mbar

Provided with an adjustable parallel swifiting.

Flow capacity at dP = 5 mbar (d=0.6):

6.5 m<sup>3</sup>/h class B+D or B+J

4.4 m<sup>3</sup>/h class A+D or A+J

4.6 m<sup>3</sup>/h class B+C

3.2 m<sup>3</sup>/h class A+C

Pilot connection

Max. inlet pressure 60 mbar.

Connection: - size Rp 1/2, straight or with side outlet, with the possibility for connection flanges.  
-or botom inlet fast connection", straight or wide side outlet "fast connection"

Mechanical strength group 2

Ambient temperature range 0 to 60 °C .