



Number:	UKCA/0558/22/118	Replaces:	18GR0118/01
Issue Date:	13-06-2022	Contract Number:	PS7188
Due Date:	13-06-2032	Module:	B (Type Testing)
Report Number:	119170	Scope:	Gas Appliances
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UKCA TYPE EXAMINATION CERTIFICATE

Kiwa Ltd. 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:

Gas Appliances Regulation (Regulation (EU) 2016/426 as brought into GB law and amended), and the Gas Appliances (Enforcement) and Miscellaneous Amendment Regulations 2018 No 389, and amendments to UK SI 2019/696 Product Safety and Metrology, and subsequent amendments, The Product Safety, Metrology and Mutual Recognition Agreement (Amendment) (EU Exit) Regulations 2019 No 1246, and subsequent amendments. This certificate is not valid in Northern Ireland – and is applicable to England, Scotland and Wales only.

Reference standards: BS EN 126:2012

Signed on behalf of Kiwa Ltd.
(UK Approved Body Number 0558)

Mark Crowther
Technical Director
Kiwa Ltd.

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CERTIFICATE

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UK CA



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APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

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 m³/h. (d=0.6) class D or J valve
4.6 m³/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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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 m³/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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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 an 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 m³/h class B+D or B+J

4.4 m³/h class A+D or A+J

4.6 m³/h class B+C

3.2 m³/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 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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APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

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: ± 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 m³/h class B+D or B+J

4.4 m³/h class A+D or A+J

4.6 m³/h class B+C

3.2 m³/h class A+C

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

13.3 m³/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 m³/h class D or J
 4.6 m³/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 m³/h class D or J
4.6 m³/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 m³/h class B+D or B+ J
 4.4 m³/h class A+D or A+J
 4.6 m³/h class B+C
 3.2 m³/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 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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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 m³/h class B+D, or B+J

4.4 m³/h class A+D, or A+J

4.6 m³/h class B+C

3.2 m³/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 m³/h class B+D or B+J

4.4 m³/h class A+D or A+J

4.6 m³/h class B+C

3.2 m³/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.