



Number	17GR0193/00	Contract number	E001
Issue date	21-04-2018	Scope	(EU) 2016/426 (9 March 2016)
Due date	19-02-2028	Module	B (Type testing)
PIN	0063BO1580	Report number	121580

EU TYPE EXAMINATION CERTIFICATE (GAR)

Kiwa hereby declares that the automatic shut-off valve, multi-functional control, type(s):

VAD,
VAG,
VAH,
VAS,
VAV

manufactured by

Elster GmbH (Honeywell)
Lotte - Büren, Germany

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

The compliance is based on examination to EN 88-1:2011, EN 126:2012, EN 161:2011 + A3:2013, EN 1854:2010.

The product(s) has/have been approved for all EU and EFTA countries.

A description of the specific types is given in the appendix to this certificate.

CERTIFICATE

Luc Leroy, Kiwa



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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

Type break down (including specifications)

List of all available types:

VAS	Electro-magnetic automatic shut-off valve approved on EN161
VBY	Electro-magnetic automatic shut-off valve approved on EN161
VAG/V/D/H	Multi-functional controls approved according to EN126, EN88-1 and EN161
VRG/VRH	Pressure regulator approved according to EN 88-1
VCS	combination of VAS
VCD	combination of VAS and VAD
VCG	combination of VAS and VAG
VCV	combination of VAS and VAV
VCH	combination of VAS and VAH

Electrical supply:	230 VAC, 200 VAC, 120 VAC, 100 VAC and 24 VDC
Ambient temperature:	-20 °C to +60 °C , VBY 0 °C to +60 °C
IP protection degree	IP65 (VBY IP54)
Class:	A (shut off valve and governor)
Mechanical strength:	group 2, up to combination of 3 bodies in line
Working pressure:	500mbar
Connection size:	Body type 1 Rp 3/8, 1/2, 3/4, 1" (ISO 7) Body type 2 Rp 1, 1 1/4, 1 1/2, 2" (ISO 7), 1 1/2 (DIN2501) Body type 3 Rp 1 1/2, 2, 2 1/2" (ISO 7), 2 (DIN2501)

Options:	Assembled as/with bypass, bypass valve, pressure switch(es), control valve or pressure sensing device.
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Type survey

VAS	: automatic shut-off valve
VAG	: gas/air ratio control with solenoid valve
VAD	: regulator with solenoid valve
VAV	: variable gas/air ratio control with solenoid valve
VAH	: flow control with solenoid valve
VRG	: gas/air ration control without solenoid valve
VRH	: flow control without solenoid valve

1	: body type 1
2	: body type 2
3	: body type 3

T*	: indication for products with NPT-thread
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-0	: inlet connection blind flange	(only applicable for VAS)
10	: inlet connection DN10	
15	: inlet connection DN15	
20	: inlet connection DN20	
25	: inlet connection DN25	



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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

32 : inlet connection DN32
40 : inlet connection DN40
50 : inlet connection DN50
65 : inlet connection DN65
- : inlet connection without flange

/0* : outlet connection blind flange (only applicable for VAS)
/10* : outlet connection DN10 (not applicable for VAG/D/V/H/RG/RH)
/15* : outlet connection DN15
/20* : outlet connection DN20
/25* : outlet connection DN25
/32* : outlet connection DN32
/40* : outlet connection DN40
/50* : outlet connection DN50
/65* : outlet connection DN65
/-* : outlet connection without flange

R : connection Rp (ISO 7)
N* : connection NPT-threaded 1)
F : connection DIN- flange
/ : none

05 : pe max 500mbar

N : fast opening (only applicable for VAS)
L : slow opening (only applicable for VAS)

W : Main voltage 230 V AC, 50/60 Hz
Y : Main voltage 200 V AC, 50/60 Hz
Q : Main voltage 120 V AC, 50/60 Hz
P : Main voltage 100 V AC, 50/60 Hz
K : Main voltage 24 V DC

SL* : Position indicator and visual indicator, left side
SR* : Position indicator and visual indicator, right side
GL* : Position indicator and visual indicator for 24 V, left side
GR* : Position indicator and visual indicator for 24 V, right side

1) NPT threads does not comply with section 6.4.3 (threads) of the EN 13611: 2007 + A2: 2011



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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

Concerning only VAS

3		: Cable gland	Type of el. connection
-		: socket with plug	
-		: socket	
/P		: Screw plug	Accessories, right, inlet
/M		: Pressure test point	
/1	/1G	: DG 17 DG 17 with gold contact	
/2	/2G	: DG 40 DG 40 with gold contact	
/3	/3G	: DG 110 DG 110 with gold contact	
/4	/4G	: DG 300 DG 300 with gold contact	
/I		: Bypass valve VBY, fitted	
/R		: Pilot gas valve VBY, fitted	
/H		: Main valve attachment side	
/Y		: Prepared for bypass valve VAS 1	
/B		: Bypass valve VAS 1, fitted	
/Z		: Pilot gas valve VAS 1, fitted	
/-		: None	
P		: Screw plug	Accessories, right, outlet
M		: Pressure test point	
1	1G	: DG 17 DG 17 with gold contact	
2	2G	: DG 40 DG 40 with gold contact	
3	3G	: DG 110 DG 110 with gold contact	
4	4G	: DG 300 DG 300 with gold contact	
-		: None	

Accessories on left-hand side equivalent to those on right-hand side

/1	: 1 mm	Bypass diameter
/2	: 2 mm	
/3	: 3 mm	
/4	: 4 mm	
/5	: 5 mm	
/6	: 6 mm	
/7	: 7 mm	
/8	: 8 mm	
/9	: 9 mm	
/10	: 10 mm	
/1	: Attached to size 1	Bypass valve fitted
/2	: Attached to size 2 or 3	
/4	: Attached to valVario XL	



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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

Concerning VAD, VAG, VAV, VAH, VRG, VRH

3		: Cable gland	Type of el. connection
-		: socket with plug	
-		: socket	
25		: outlet pressure 2,5...25mbar	only VAD
50		: outlet pressure 20...50mbar	only VAD
100		: outlet pressure 35...100mbar	only VAD
A		: working area A: standard valve seat	
B		: working area B: reduced valve seat	
E		: 3 compression fitting, 4 test nipples pd and psa	only VAH/VRH
E		: 1 compression fitting, 2 test nipples pd and psa	only VAG/VRG
K		: 1 plastic hose coupling, 2 test nipples pd and psa	only VAG/VRG
N		: Zero governor , 1 test point pd, 1 screw plug psa	only VAG/VRG
A		: 1 NPT 1/8 adapter, 2 test points pd and psa	only VAG/VRG
		: 3 NPT 1/8 adapter, 4 test points pd and psa	only VAH/VRH
K		: 2 plastic hose coupling, 1 screw plug pG	only VAV
A		: 2 x NPT 1/8 adapter, 1 test nipple pd	only VAV
E		: 2 x compression fitting, 1 test nipple pd	only VAV
/P		: Screw plug	VAD/G/V/H accessories, right, inlet
/M		: Pressure test point	
/1	/1G	: DG 17 DG 17 with gold contact	
/2	/2G	: DG 40 DG 40 with gold contact	
/3	/3G	: DG 110 DG 110 with gold contact	
/4	/4G	: DG 300 DG 300 with gold contact	
/I		: Bypass valve VBY, fitted	
/R		: Pilot gas valve VBY, fitted	
/Y		: Prepared for bypass valve VAS 1	
/B		: Bypass valve VAS 1, fitted	
/Z		: Pilot gas valve VAS 1, fitted	
/-		: None	
P		: Screw plug	VAD/G/V/H accessories, right, outlet
M		: Pressure test point	
1	1G	: DG 17 DG 17 with gold contact	
2	2G	: DG 40 DG 40 with gold contact	
3	3G	: DG 110 DG 110 with gold contact	
4	4G	: DG 300 DG 300 with gold contact	
-		: None	

Accessories on left-hand side equivalent to those on right-hand side



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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

Concerning VBY

VBY : Bypass valve
8 : DN 8

I : Internal bypass
R : Rp thread

W : 230Vac 50/60Hz
Q : 120Vac 50/60Hz
K : 24Vdc

6L : Electrical connection with plug and socket with LED
5 : Electrical connection with plug without socket

-R : mounting position at main valve: right
-L : mounting position at main valve: left
E : assembled
B : supplied separately (single part)

D : flow rate adjustment
01 : orifice diameter 01 $\equiv$ 0.1 mm 40 $\equiv$ 4.0 mm



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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

Concerning multifunctional module

Ambient temperature:	-20°C to +60°C
Mechanical strength:	Group 2 up to four combinations in line
Working pressure:	500 mbar
Connection size:	Body type 1 = 3/8", 1/4", 1/2", 3/4 or 1" (ISO7) Body type 2 = 1", 1-1/4", 1-1/2", 2" (ISO7) Body type 2 = 1-1/2", 2" (ISO 7005) Body type 3 = 1-1/2", 2", 2-1/2" (ISO 7) Body type 3 = 2", 2-1/2" (ISO 7005)

VMF	Filter-module
VMV	Linear flow limiter-module
VMO	Orifice module
1	body type 1
2	body type 2
3	body type 3
10	inlet connection size 10*
15	inlet connection size 15*
20	inlet connection size 20*
25	inlet connection size 25*
32	inlet connection size 32*
40	inlet connection size 40*
50	inlet connection size 50*
65	inlet connection size 65*
-	inlet connection without flange*
/10	outlet connection size 10*
/15	outlet connection size 15*
/20	outlet connection size 20*
/25	outlet connection size 25*
/32	outlet connection size 32*
/40	outlet connection size 40*
/50	outlet connection size 50*
/65	outlet connection size 65*
-	outlet connection without flange
R	connection Rp (ISO7)*
N	connection NPT*
F	connection flanged (ISO7005)*
-05	working pressure up to 500mbar



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M		with measuring plugs*
P		with plug screw*
1	1G	: DG 17 * DG 17 with gold contact
2	2G	: DG 40 * DG 40 with gold contact
3	3G	: DG 110 * DG 110 with gold contact
4	4G	: DG 300 * DG 300 with gold contact
xx		Orifice size diameter in mm (only VMO-module)

Concerning Valvario ECO

VCS	Double electro-magnetic automatic shut-off valve approved on EN161
VCD	Multi-functional controls approved according EN126, EN88 and EN161
VCG	Multi-functional controls approved according EN126, EN88 and EN161
VCV	Multi-functional controls approved according EN126, EN88 and EN161
VCH	Multi-functional controls approved according EN126, EN88 and EN161

1 Body type 1

T not applicable

-	inlet connection without flange
10	inlet connection blind flange DN10
15	inlet connection blind flange DN15
20	inlet connection blind flange DN20
25	inlet connection blind flange DN25

-	outlet connection without flange
/10*	DN 10
/15*	DN 15
/20*	DN 20
/25*	DN 25

R connection Rp (ISO 7)

N not applicable

/ none

05 pe max 500 mbar

N fast opening

1 valve or regulator

D Pressure Reducing Regulator

G Air/Gas Ratio Control

V Variable Air/Gas Ratio Control

H Flow control

(-) none



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N	fast opening	2 valve or regulator
D	Pressure Reducing Regulator	
G	Air/Gas Ratio Control	
V	Variable Air/Gas Ratio Control	
H	Flow control	
(-)	none	
E	Energy saving automatic shut-off valve approved on EN161	
F	Main voltage 100–120 V~, 50/60 Hz	
J	Main voltage 200–230 V~, 50/60 Hz	
(-)	Without position and visual indicator	
SL*	Position Indicator and visual indicator, left side	
GL*	Position Indicator and visual indicator for 24V, left side	
SR*	Position Indicator and visual indicator, right side	
GR*	Position Indicator and visual indicator for 24V, right side	
5	plug without socket	
6	plug with socket	
/25	Outlet pressure range 2,5-25 mbar	
/50	Outlet pressure range 20-50 mbar	
/100	Outlet pressure range 35-100 mbar	
A	working area A: standard valve seat	
B	working area B: reduced valve seat	
E	1 compression fitting, 2 test nipples pG and pL	
	3 compression fitting, 4 test nipples pG and pL	Only VCH
K	1 plastic hose coupling, 2 screw plugs	
N	Zero governor, 1 test point pG, 1 screw plug	
A	1 NPT 1/4 adapter, 2 test points pG and pL	
	3 NPT 1/4 adapter, 4 test points pG and pL	Only VCH
/P	Screw plug	(accessories, right, inlet)
/M	Pressure test point	
/1	DG 17	/1G DG 17 with gold contact
/2	DG 40	/2G DG 40 with gold contact
/3	DG 110	/3G DG 110 with gold contact
/4	DG 300	/4G DG 300 with gold contact
/I	Bypassvalve VBY, fitted	
/R	Pilot gas valve VBY, fitted	
/-	None	



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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

P	Screw plug	(accessories, right, interspace 1)
M	Pressure test point	
/1	DG 17 1G	DG 17 with gold contact
/2	DG 40 2G	DG 40 with gold contact
/3	DG 110 3G	DG 110 with gold contact
/4	DG 300 4G	DG 300 with gold contact
-	none	

P	Screw plug	(accessories, right, interspace 1)
M	Pressure test point	
/1	DG 17 1G	DG 17 with gold contact
/2	DG 40 2G	DG 40 with gold contact
/3	DG 110 3G	DG 110 with gold contact
/4	DG 300 4G	DG 300 with gold contact
I	Bypassvalve VBY, fitted	
R	Pilot gas valve VBY, fitted	
-	None	

P	Screw plug	(accessories, right, outlet)
M	Pressure test point	
/1	DG 17 1G	DG 17 with gold contact
/2	DG 40 2G	DG 40 with gold contact
/3	DG 110 3G	DG 110 with gold contact
/4	DG 300 4G	DG 300 with gold contact
-	None	

Accessories on left-hand side equivalent to those on right-hand side

*excluded if not applicable

(Accessories model breakdown not shown on product label)