



Number	17GR0193/02	Replaces	17GR0193/01
Issue date	01-03-2024	Contract number	E0001
Due date	01-03-2034	Module	B (Type testing)
Report number	121580	Scope	(EU) 2016/426 (9 March 2016)
PIN	0063BO1580		

## EU TYPE EXAMINATION CERTIFICATE (GAR)

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

**VAD,  
VAG,  
VAH,  
VAS,  
VAV**

Manufacturer

**Elster GmbH (Honeywell)  
Strothweg 1  
49504 Lotte - Büren  
Germany**

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

Reference standard: EN 126:2012, EN 161: 2022, EN 1854: 2022 +A1: 2023 and EN 88-1: 2022 +A1: 2023

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

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## APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

### Manufacturer:

Elster GmbH (Honeywell)

### 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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## APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

### 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	
-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	
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	
F	: connection DIN- flange	
/	: none	



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## APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

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



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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
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/M	: Pressure test point	
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/1	/1G	: DG 17	DG 17 with gold contact
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/2	/2G	: DG 40	DG 40 with gold contact
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/3	/3G	: DG 110	DG 110 with gold contact
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/4	/4G	: DG 300	DG 300 with gold contact
----	-----	----------	--------------------------

/I	: Bypass valve VBY, fitted	
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/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	
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/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	



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## APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

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

### 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)*





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## APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

-05 working pressure up to 500mbar

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



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## APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

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	
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



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/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

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)