

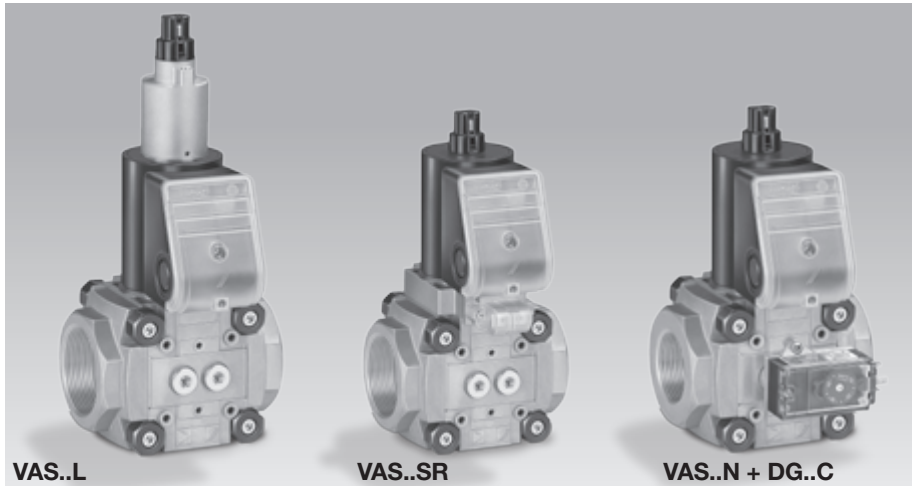


CE



Solenoid valves for gas VAS

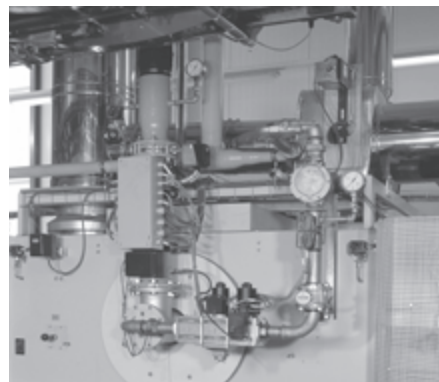
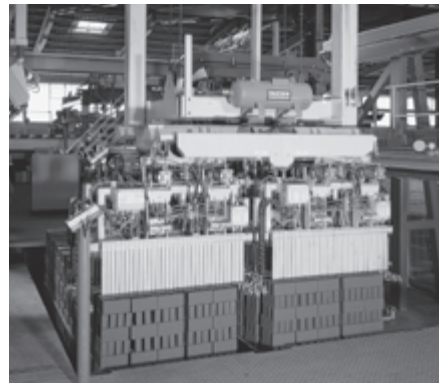
- // A further development of the solenoid valves for gas VG and VS
- // Suitable for a max. inlet pressure of 500 mbar
- // Easy installation into a system
- // Compact design saves space
- // Easy flow adjustment with display
- // Check indication by blue LED
- // Position indicator with integral visual indicator
- // Suitable for intermittent operation
- // Wide-ranging applications due to the modular construction
- // Higher flow rates with the same nominal size



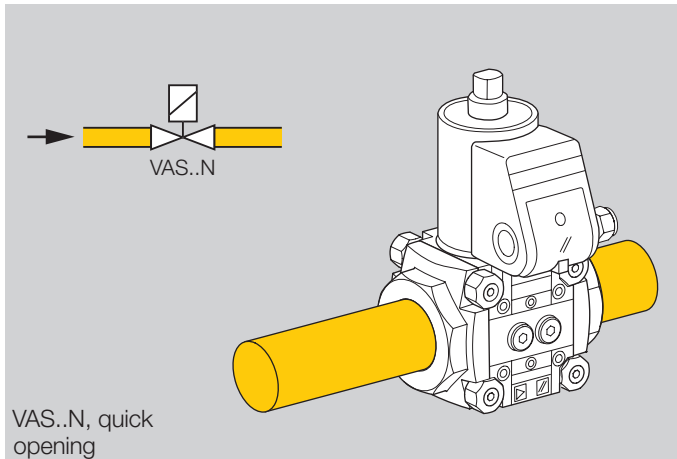
The modular design principle allows the individual components of the VAS Series to be easily assembled

Application

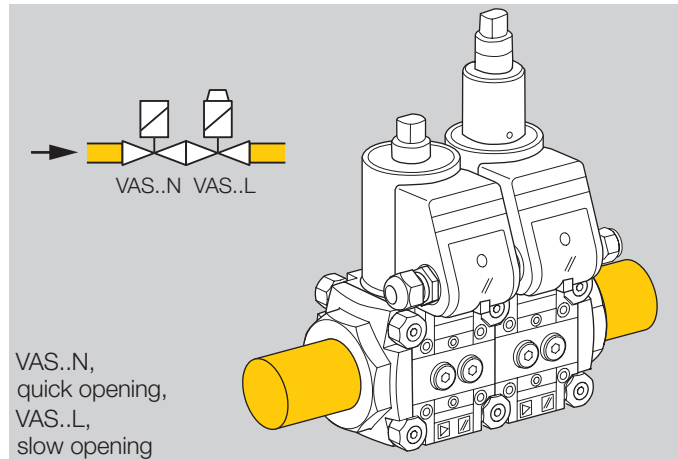
Solenoid valves for gas VAS for safeguarding and controlling the air and gas supply to gas burners and gas appliances. For use in gas control and safety systems in all sectors of the iron, steel, glass and ceramics industries, also in commercial heat generation, such as the packaging, paper and foodstuffs industries.



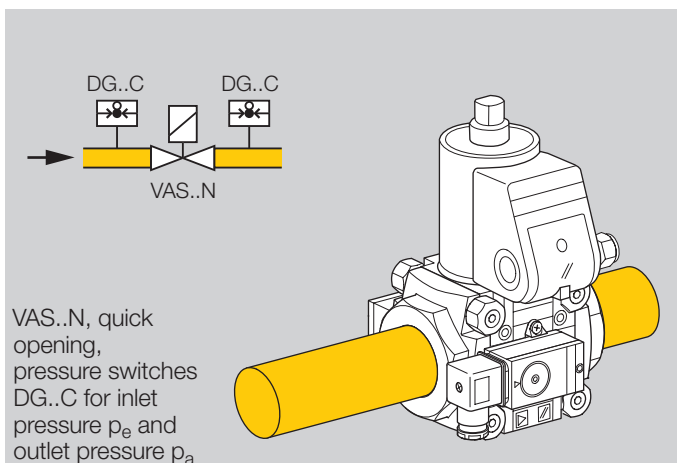
Application examples



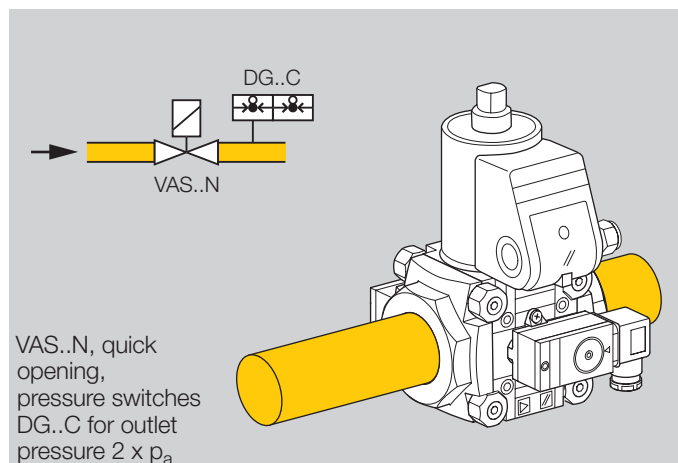
VAS..N, quick opening



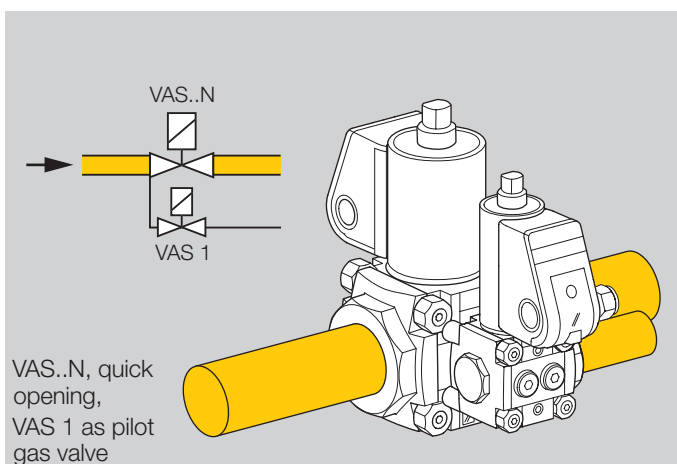
VAS..N, quick opening,
VAS..L, slow opening



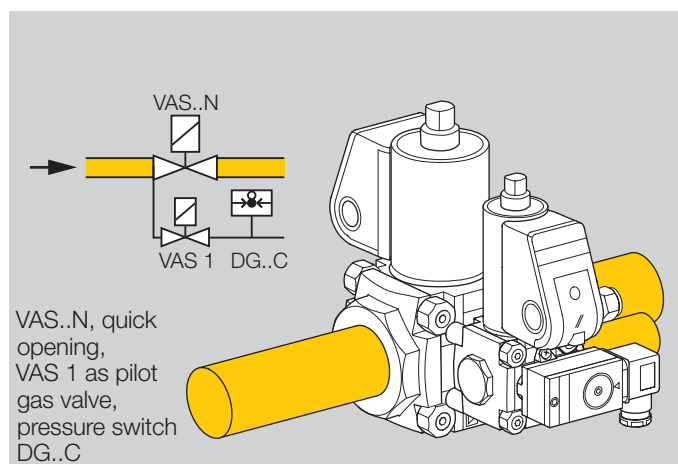
VAS..N, quick opening,
pressure switches DG..C for inlet pressure p_e and outlet pressure p_a



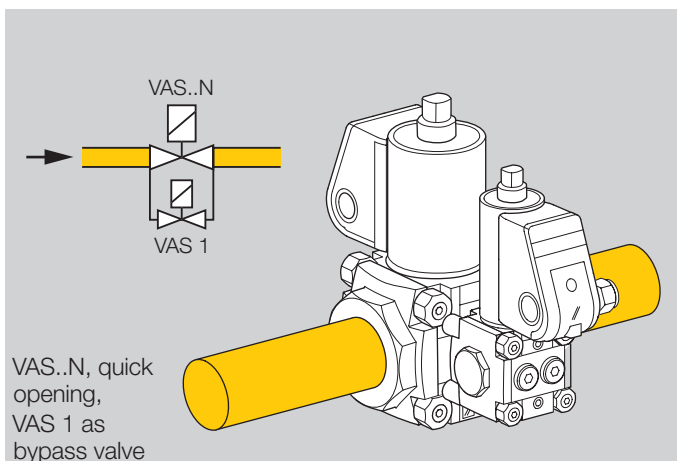
VAS..N, quick opening,
pressure switches DG..C for outlet pressure $2 \times p_a$



VAS..N, quick opening,
VAS 1 as pilot gas valve



VAS..N, quick opening,
VAS 1 as pilot gas valve,
pressure switch DG..C



VAS..N, quick opening,
VAS 1 as bypass valve

Replacement possibility for solenoid valves for gas with threaded connection

VG is to be replaced by VAS

VG	Solenoid valve for gas		Solenoid valve for gas		VAS
10/15	DN 10	internal 15 mm	Size 1	DN 10	110
15	DN 15		Size 1	DN 15	115
15/12	DN 15	internal 12 mm	–	–	–
20	DN 20		Size 1	DN 20	120
25	DN 25		Size 1	DN 25	125
25/15	DN 25	internal 15 mm	–	–	–
40/32	DN 40	internal 32 mm	Size 2	DN 40	240
40	DN 40		Size 2	DN 40	240
40/33	DN 40	internal 33 mm	–	–	–
50	DN 50		Size 3	DN 50	350
50/39	DN 50	internal 39 mm	–	–	–
50/65	DN 50	internal 65 mm	Size 3	DN 50	350
65	DN 65		Size 3	DN 65	365
65/49	DN 65	internal 49 mm	–	–	–
R	Rp internal thread		Rp internal thread		R
02	Max. inlet pressure $p_{e \max.}$ 200 mbar		Max. inlet pressure $p_{e \max.}$ 500 mbar		●
03	360 mbar		500 mbar		●
10	1000 mbar				–
18	1800 mbar				–
N	Quick opening		Quick opening		/N
L	Slow opening		Slow opening		/L
K	Mains voltage: 24 V DC		Mains voltage: 24 V DC		K
Q	120 V AC		120 V AC		Q
T	220/240 V AC		230 V AC		W
3	Electrical connection via terminals		Electrical connection via terminals		●
6	Electrical connection with socket		Electrical connection with socket		○
1	Screw plug at the inlet		Screw plug at the inlet and outlet		●
3	Screw plug at the inlet and outlet		Screw plug at the inlet and outlet		●
4	Pressure test point at the inlet		Pressure test point at the inlet and outlet*		○
6	Pressure test point at the inlet and outlet		Pressure test point at the inlet and outlet*		○
D	Flow adjustment		Flow adjustment		●
S	Position indicator		Position indicator at the right-hand side		SR
			Position indicator at the left-hand side		SL
G	Position indicator with gold contacts		...with gold contacts at the right-hand side		GR
			...with gold contacts at the left-hand side		GL
M	Suitable for biologically produced methane		Suitable for biologically produced methane		●
V	Viton valve disc seal		–		–
VG 25R02NT31DM	Example			Example	VAS 125R/NW

● standard, ○ available

* Pressure test points may be attached at the left and/or right-hand side.

Replacement possibility for MODULINE solenoid valves for gas

VS is to be replaced by VAS	
VS	VAS
	Solenoid valve for gas
	Solenoid valve for gas
115	110
125	115
232	120
240	125
350	225
	240
	340
	350
ML	R
02	●
N	/N
L	/L
D	●
K	K
Q	Q
T	W
3	●
6	○
●	○
S	SR
	SL
G	GR
	GL
M	●
V	–
VS 240ML02LT3 with Rp 1½ connection flanges	Example
	Example
	VAS 240R/LW with test points

● standard, ○ available

* Pressure test points may be attached at the left and/or right-hand side.

Technical data

Types of gas: Natural gas, LPG (gaseous), biologically produced methane (max. 0.1 %-by-vol. H₂S) or air; other gases on request.

The gas must be dry in all temperatures and must not condense.

Max. inlet pressure p_e: max. 500 mbar.

Flow adjustment limits the maximum flow volume between 20 and 100%. The setting can be monitored on an indicator.

Opening time:

VAS../N quick opening: ≤ 0.5 s;

VAS../L slow opening: approx. 10 s.

Closing time:

Quick closing: < 1 s.

Ambient temperature: -20–+60°C, no condensation permitted.

Class A safety valve pursuant to EN 161.

Mains voltage:

230 V AC, +10/-15%, 50/60 Hz;

120 V AC, +10/-15%, 50/60 Hz;

24 V DC, +20/-15%.

Power consumption:

Type	24 V DC [W]	120 V AC [W]	230 V AC [W]
VAS 1	29	30	30
VAS 2	46	54	53
VAS 3	53	55	63

Enclosure: IP 65.

Duty cycle: 100%.

Flow rate:

Type	V at Δp = 1 mbar air in m ³ /h
VAS 110	4,4
VAS 115	5,5
VAS 120	8,5
VAS 125	10,6
VAS 225	17,5
VAS 232	21,5
VAS 240	23,5
VAS 250	24,6
VAS 340	33
VAS 350	41
VAS 365	43

Maintenance cycles

Once per year,
twice per year in the case of biologically produced methane.

Certification

EC type-tested and certified pursuant to

- Gas Appliances Directive (90/396/EEC) in conjunction with EN 161,
- Machinery Directive (89/392/EEC),
- Low Voltage Directive (73/23/EEC) in conjunction with the relevant standards,
- EMC Directive (89/336/EEC) in conjunction with EN 55014.

FM, UL and CSA approval in preparation.



Selection

	-	-0	10	15	20	25	32	40	50	65	/-	/0	/10	/15	/20	/25	/32	/40	/50	/65	R	/N	/L	K	Q	W	SR	GR	SL	GL
VAS 1	●	●	●	●	●	●					●	●	●	●	●	●					●	●	●	●	●	●	○	○	○	○
VAS 2	●				●	●	●	●	●		●				●	●	●	●			●	●	●	●	●	●	○	○	○	○
VAS 3	●							●	●	●	●										●	●	●	●	●	●	○	○	○	○
Inlet flange nominal size - = no inlet flange -0 = dummy flange																														
Outlet flange nominal size - = no outlet flange /0 = dummy flange Specification may be omitted if outlet = inlet																														
Rp internal thread = R																														
Quick opening, quick closing = /N																														
Slow opening, quick closing = /L																														
Mains voltage: 24 V DC = K 120 V AC; 50/60 Hz = Q 230 V AC; 50/60 Hz = W																														
Position indicator and visual indicator: attached at the right-hand side = SR* with gold contacts, attached at the right-hand side = GR* attached at the left-hand side = SL* with gold contacts, attached at the left-hand side = GL*																														

VAS 1	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VAS 2	●	○	○	○	○	○	○	○	○	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VAS 3	●	○	○	○	○	○	○	○	○	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Electrical connection: M20 cable gland Plug with socket Plug without socket																														
Attached to the left side of the connection box: Not fitted Plug for valve Plug for position indicator																														
Attached to the right side of the connection box: Not fitted Plug for valve Plug for position indicator																														
Accessories attached at the right-hand side: 2 screw plugs 2 test points p _e and p _a Pressure switch for gas DG..C (see table) at the inlet Pressure switch for gas DG..C (see table) at the outlet Bypass valve VAS 1*																														
Accessories attached at the left-hand side: 2 screw plugs 2 test points p _e and p _a Pressure switch for gas DG..C (see table) at the inlet Pressure switch for gas DG..C (see table) at the outlet Bypass valve VAS 1*																														

* Position indicator and bypass valve cannot be installed together on one side.

● = standard
○ = available

Order example

VAS 232R/NW
Electrical connection via M20 cable gland, not fitted,
with 2 screw plugs attached at the right-hand side and
2 test points attached at the left-hand side

Pressure switch for gas DG..C

Type	Adjusting range [mbar]
DG 17/VC	2 – 17
DG 40/VC	5 – 40
DG 110/VC	30 – 110
DG 300/VC	100 – 300

Detailed information on this product

www.valvario.com

Contact www.kromschroeder.com →information →contacts

We reserve the right to make technical modifications in the interests of progress .

Kromschroder uses environment-friendly production methods. Please send away for our Environment Report.

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