

Safety Shut-off Valves series VSB and VSA

Gas safety solenoid shut-off valve series VSB and VSA, approved according to the norm EN 161 with **C** product identification and manufactured according to regulation EU 2016/426, are suitable for the automatic control of gases belonging to the first, second and third family.

On request there are versions for biogas and air. These valves, normally closed for continuous and cyclic operation, open by powering the coil and close quickly when there is no tension.



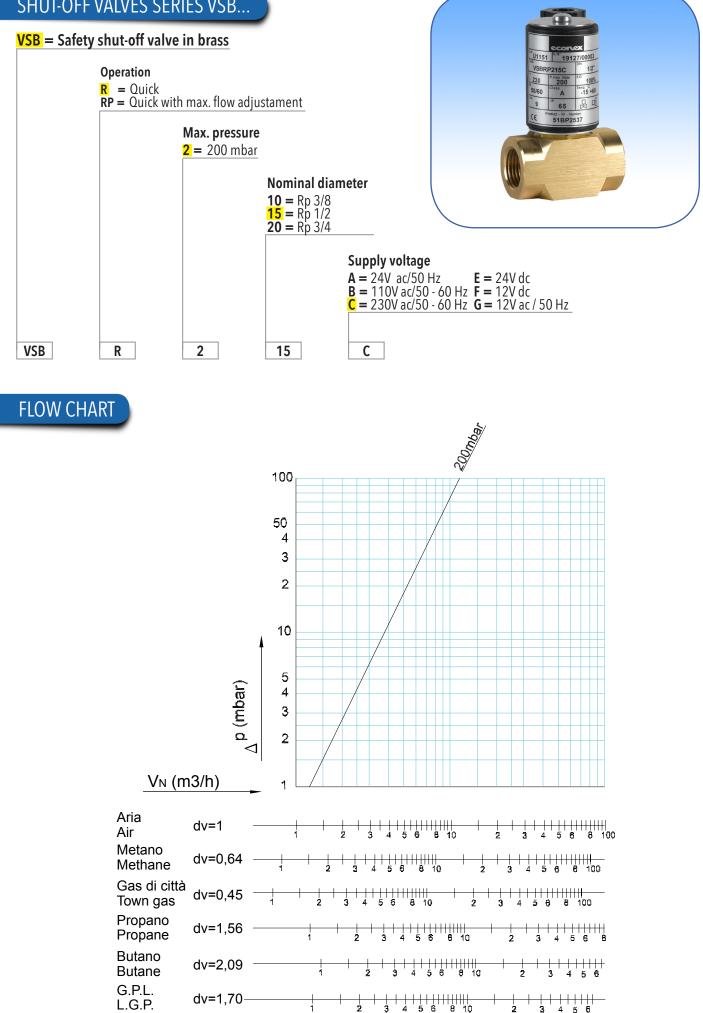
TECHNICAL FEATURES

Valve body	Brass OT-58 and die-cast aluminium
Pipe connections for valves with brass body	Rp 3/8, Rp 1/2, Rp 3/4 according to EN 10226
Pipe connections for valves with aluminium body	Rp 1/2÷2 according to EN10226
Pipe flanged connections for valves with aluminium body	DN 65 \div 200 PN16 according to ISO 7005
Inlet pressure	200 mbar, 360 mbar and 500 mbar
Opening/closing time on quick version	< 1 second
Standard supply voltage	230V ac, 110V ac, 24V and 12V ac and dc
Frequency	50÷60 Hz, 50 Hz per 12V and 24V ac
Enclosure	IP 65 - IEC 529
Supply voltage tolerance	-15% - +10%
Duty cycle	Continuous
Ambient temperature	-20 / +60 °C

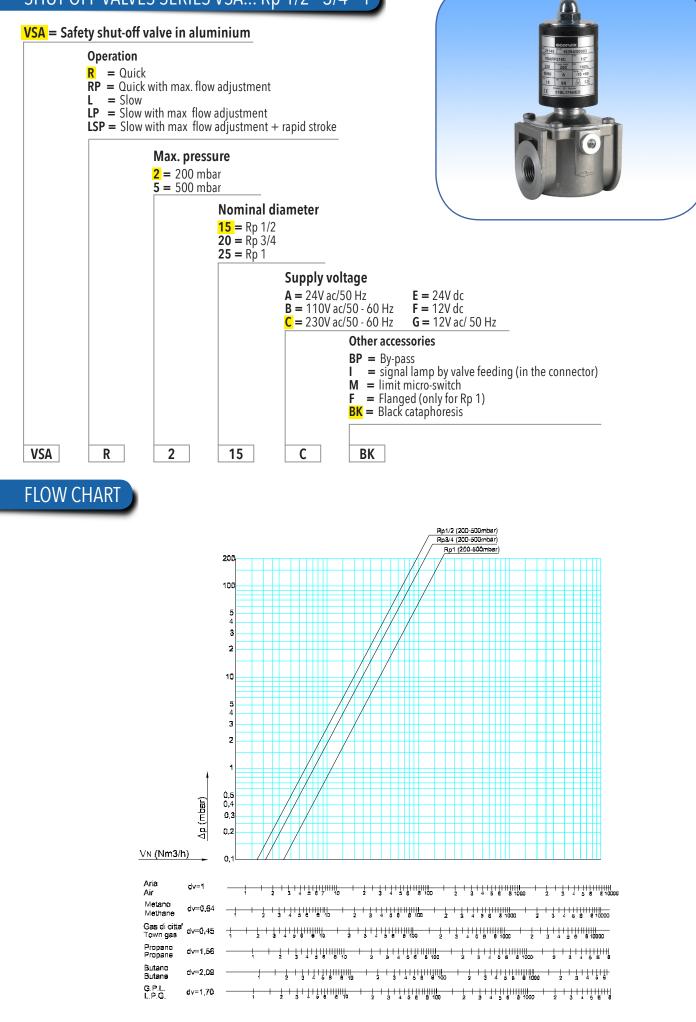
FEATURES

- Class A, Group 2 according to EN161
- Electromagnetic Compatibility Directive 2004/108/CE
- Low voltage Directive 2006/95/CE
- SIL 2 for single solenoid valves, if 2 valves are installed in series with tightness control, they reach SIL 3
- Quick and slow opening and quick closing
- Quiet operation
- Poliammidic resin encapsulated coils and metallic frame for flanged bodies
- Pressure test points at inlet by both sides
- Accessories on request: by-pass, limit switch, manual max. flow adjustment

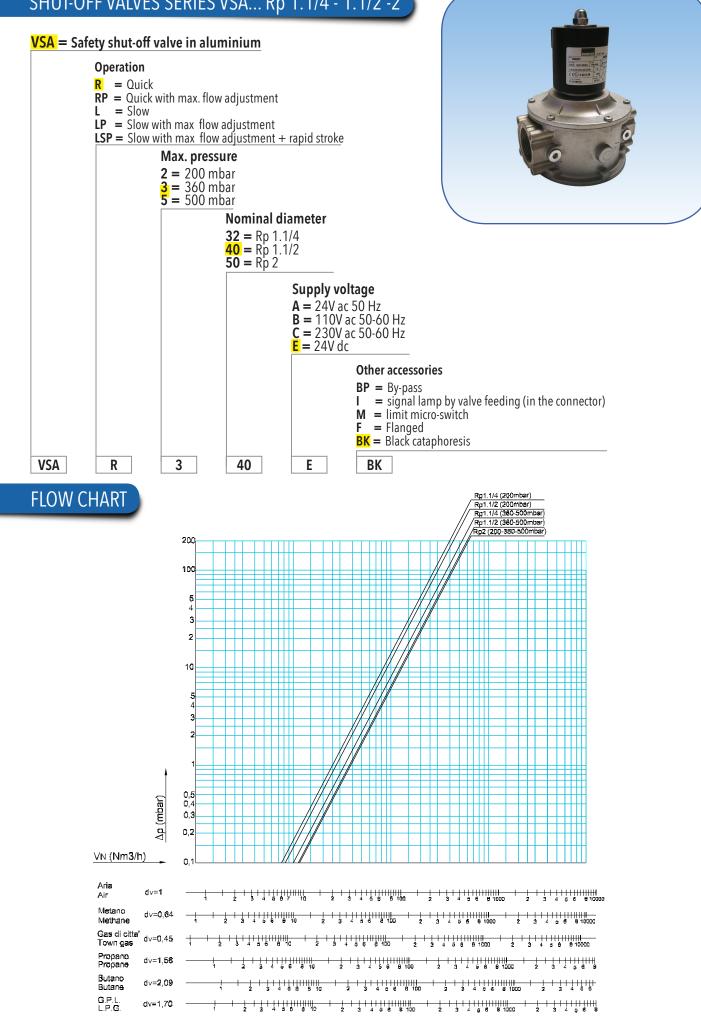
SHUT-OFF VALVES SERIES VSB...



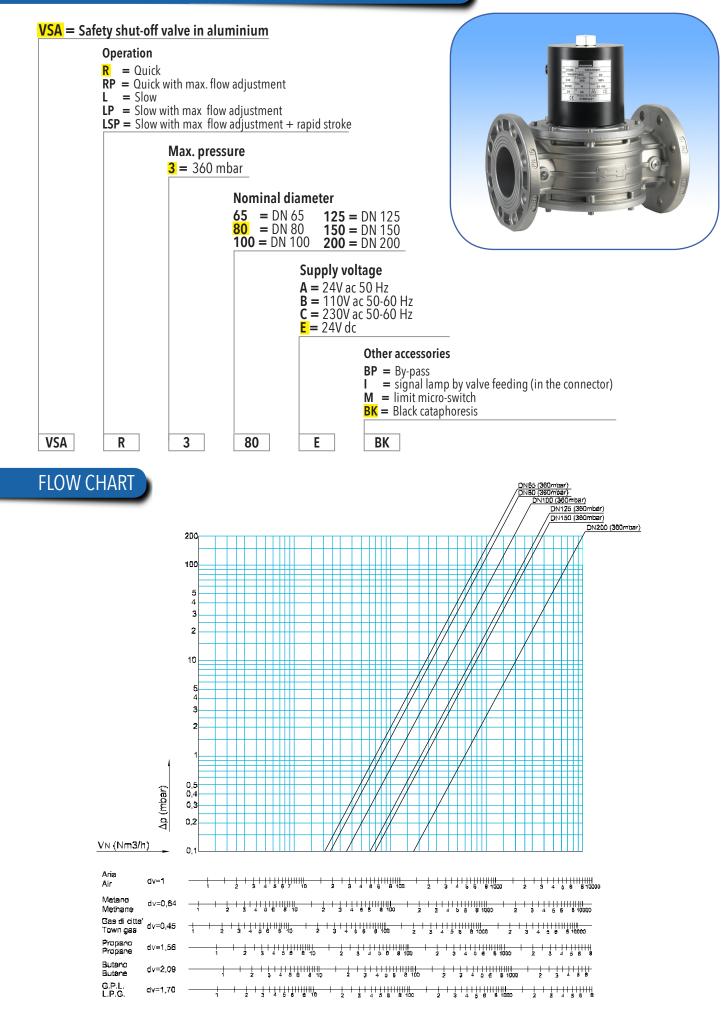
SHUT-OFF VALVES SERIES VSA... Rp 1/2 - 3/4 - 1



SHUT-OFF VALVES SERIES VSA... Rp 1.1/4 - 1.1/2 -2

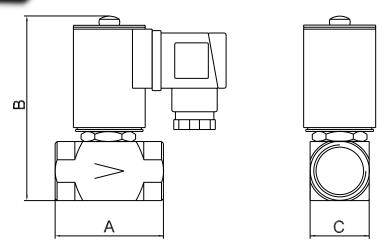


SHUT- OFF VALVES SERIES VSA... FLANGED DN65÷DN200



MODELS AND RATING

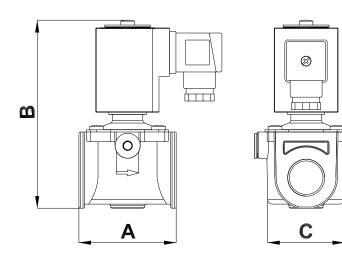
SERIES VSB... QUICK OPENING



An energy saving connector Green for valuable reduction of energy consumption is also available (3 VA).

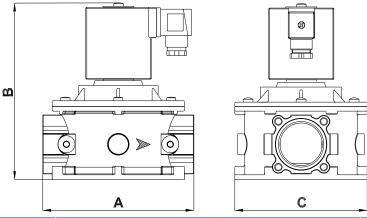
Pipe Rp	Max pressure (mbar)	Rating at 230 VRating at 230 V with Green conn.Dimensions (mm)			Weight (Kg)	Model		
	(mbar) (VA)	(VA)	Α	В	С			
3/8	200	9	3	55	90,5	37	0,6	VSBRP210C
1/2	200	9	3	55	90,5	37	0,6	VSBRP215C
3/4	200	9	3	55	90,5	37	0,6	VSBRP220C

SERIES VSA..... QUICK / SLOW OPENING THREADED Rp 1/2, 3/4, 1



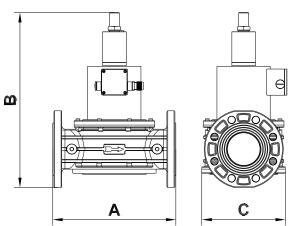
Pipe	Max	Rating at 230 V			Weight	Model			
Rp	Pipe pressure Rp (mbar)				В			(Kg)	Wouer
			A	R	RP	L - LP/LSP	C		
1/2	200	18	75	5 135	150	200	74	0,85	VSA 215C
1/2	500	18	75						VSA 515C
2/4	200	18	75	105	150	200	74	0,85	VSA 220C
3/4	500	18	75	135		200	74		VSA 520C
1	200	18	75	125	150	200	74	0.00	VSA 225C
I	500	18	75	135		200	74	0,80	VSA 525C

SERIES VSA... QUICK / SLOW OPENING THREADED Rp 1.1/4, 1.1/2, 2



Pipe	Max	Rating at 230 V						Weight	Model							
Pipe Max pressure Rp (mbar)	(VA)	A		B	}		C	(Kg)	Wouer							
			R	RP	L	LP/LSP										
	200	89/25		185	200	260	260	110	3,4	VSA 232C						
1.1/4	360		160	210	225	285	285	140	3,6	VSA 332C						
	500															
	200	89/25	89/25	89/25	89/25	89 / 25	89/25			185	200	260	260		3,4	VSA 240C
1.1/2	360							160	210	225	285	285	140	3,6	VSA 340C	
	500			210	285	285	285									
	200			210	225	288	288	140	3,6	VSA 250C						
2	360	89/25	160	235	235	295	295			VSA 350C						
	500			235	235	295	295									

SERIES VSA... QUICK / SLOW OPENING FLANGED



Pipe	Max	ressure 230 V	Dimensions (mm)							Model				
DN	(mbar)		(VA)		E	3		С	(Kg)	wouer				
		A	R	RP	L	LP/LSP								
65		105/29	290	321	321	432	480	211	17	VSA 365C				
80			310	328	328	439	486	211	17,60	VSA 380C				
100	2/0	124/36	350	389	389	500	547	254	29,60	VSA 3100C				
125	360		124 / 36	124/36	124 / 36	124/36	480	570	570	681	728	322	34,00	VSA 3125C
150				480	570	570	681	728	552	45,00	VSA 3150C			
200		47/5	600*		920	1162	1162		101,00	VSA 3200C				

* Opening time 13 seconds ± 20%.

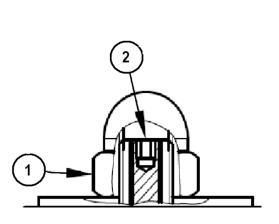
Installation, adjustment and maintenance of the valve must be carried out exclusively by skilled and authorized service technicians

- 1. Before electric wiring, check that the main voltage matches with the power supply voltage stated on the product label.
- 2. Disconnect power before wiring.
- 3. By wiring connector, use terminals and cables as reported in the Instruction leaflet in the package.
- 4. Connect the power supply to terminals 1 and 2 and the ground wire to terminal \bigcirc .
- 5. Using energy saving Green connector with 12 and 24 Vdc comply with polarity.

INSTALLATION AND OPERATING INSTRUCTIONS

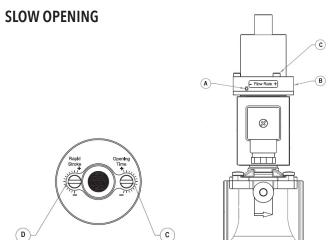
- 1. Make sure that all operating data indicated on the safety shut-off valve label correspond to those of the system.
- 2. Before installing the safety shut-off valve, quit the gas supply and make sure that the pipeline is free from impurities. The pipeline must be vibration-free.
- 3. The flow direction indicated by the arrow on the valve body must be respected, facing towards the user appliance. The safety valve can be installed either horizontally or vertically, provided that the coil is not turned downwards.
- 4. When installing the safety shut-off valve in pipework do not use the coil as a lever, but use the correct wrench.
- 5. The sealing material must be applied to the external thread of the pipeline only and not to the internal thread of the safety shutoff valve.

ADJUSTMENT OF FLOW RATE - OPENING TIME AND RAPID STROKE



- 1. Coil fastening nut
- 2. Flow rate adjustment

Unscrew the nut and spin the internal screw clockwise to reduce and counter clockwise to increase the flow rate.



 Flow rate adjustment. Loosen screw A and rotate cylinder B to the desired position. Tighten screw A to fix the position.
Opening time adjustment. Turn screw C clockwise U to reduce the opening time or turn counter clockwise U to increase values.

3. Rapid stroke adjustment.

All the reported data are subject to be changed without notice.

from 200922



QUICK OPENING