

Manually operated safety shut-off valve

HSAV
HSAV/5

DUNGS®
Combustion Controls

6.23



Technical description

The DUNGS manual operated shut-off valve HSAV, HSAV/5 is semi-automatic as per EN 161 for gas burners and gas appliances.

- Max. operating pressure: 500 mbar / 50 kPa (HSAV/5) or 1.5 bar / 150 kPa (HSAV)
- Class A, Group 2 as per EN 161
- normally closed
- Fast closing
- manual opening only when operating voltage applied
- DC solenoid, rectifier wiring with radio interference suppression in terminal box
- Mountable closed position signal contact to monitor closed position of valve
- Tube thread as per ISO 7/1
- Flange connection as per DIN EN 1092-1
- Reliable function, rugged and maintenance-free

Application

The DUNGS manual operated shut-off valve HSAV... is suitable for gases of families 1, 2, 3 and other neutral gaseous media. The manual operation shut-off valve is used for shut-off and release of gas supply to gas burners and gas appliances. The shut-off valve can only be opened manually when the operating voltage is applied.

Approval

EU type test approval as per EC Gas Appliance Directive:

HSAV ... CE-0085 AQ 0348

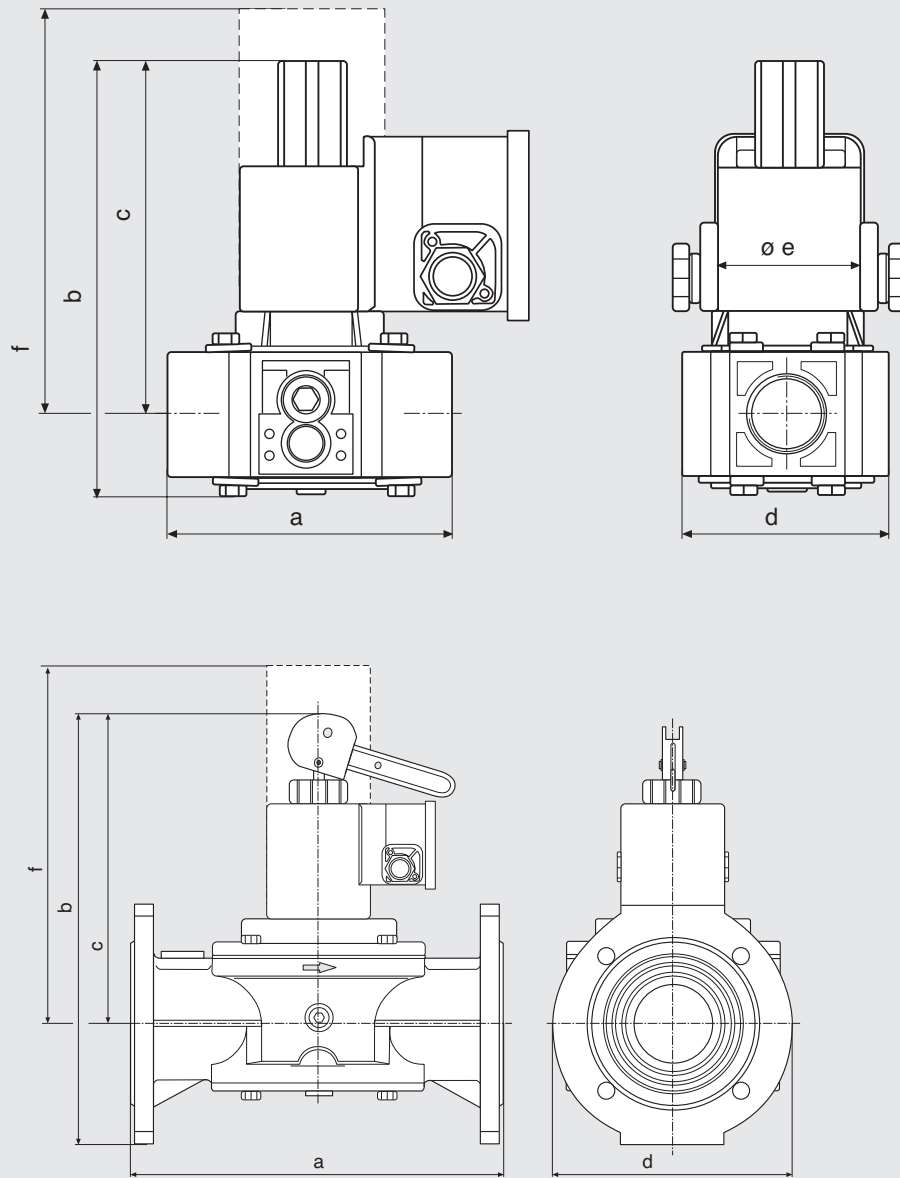
Approvals in other important gas consuming countries.

HSAV	Single-stage solenoid valve, normally closed. Manually opening with operating voltage applied, fast closing.
HSAV/5	Single-stage solenoid valve, normally closed. Manually opening with operating voltage applied, fast closing. Closed position signal contact mountable.

Specifications

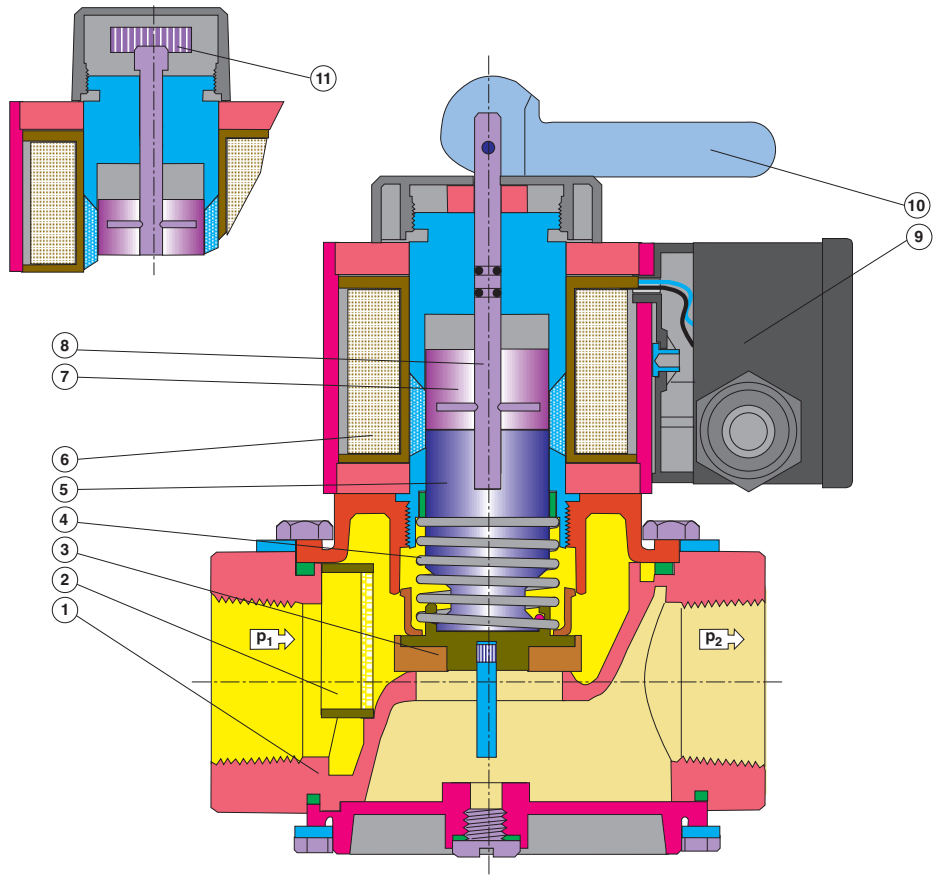
Nominal diameters Pipe thread as per ISO /71 Flange	DN Rp 3/4 1 1 1/2 2 Connection flange as per DIN EN 1092-1	65	80	100
Max. operating pressure	HSAV/5: 500 mbar (50 kPa), HSAV: 1.5 bar (150 kPa)			
Solenoid valve	Valve as per EN 161, Class A, Group 2			
Closing time	< 1 sec			
Opening	Manual, when operating voltage applied			
Materials of gas-conveying parts	Housing: Seals:	aluminium, steel, brass NBR basis		
Ambient temperature	-15°C to +60°C			
Installation position	Solenoid from vertically upright to horizontally lying - refer to operating and mounting instructions			
Dirt trap	Sieve installed, mesh width 1 mm			
Measuring/ignition gas connection	G 1/4 ISO 118, on both sides in inlet section, additionally G 3/4 on inlet side, from size DN 65 (flange) upwards			
Voltage/frequency	50-60 Hz, 230 V AC, -10% +15%, further voltages on request			
Rating / power consumption	See type overview			
Switch-on duration	100 %			
Degree of protection	IP 54, IP 65 on request			
Electrical connection	At screw terminals via PG 11 cable entry Plug connection as per DIN EN 175 301-803, can be retrofitted			
Closed position signal contact	Type K01/1 (DIN-tested), mountable on HSAV 5.../5			
Accessories	K01 closed position signal contact, see Datasheet 12.01 Equipment plug for line socket as per DIN EN 175 301-803		211 202 215 733	

Dimensions



Type	DN / Rp	Order No.	p _{max.} [mbar]	P _{max.} [VA]	I _{max.} ~(AC) 230 V	Opening time	Dimensions [mm]						Weight [kg]
							a	b	c	d	e	f	
HSAV 1507	Rp 3/4	195 090	1500	15	0.08	< 1 s	100	145	120	73	50	170	1.3
HSAV 510/5	Rp 1	151 440	500	6	0.03	< 1 s	110	150	120	85	50	170	1.5
HSAV 515/5	Rp 1 1/2	155 790	500	9	0.05	< 1 s	150	200	160	110	60	250	2.5
HSAV 520/5	Rp 2	155 800	500	10	0.06	< 1 s	170	210	165	125	75	270	3.5
HSAV 5065/5	DN 65	155 810	500	20	0.11	< 1 s	290	325	235	185	80	350	8.0
HSAV 5080/5	DN 80	155 820	500	35	0.16	< 1 s	310	330	245	200	95	360	11.4
HSAV 5100/5	DN 100	155 830	500	60	0.28	< 1 s	350	375	275	240	115	410	17.7

HSAV/5 sectional drawing



1	Housing	5	Armature	9	Electrical connection
2	Sieve	6	Solenoid coil	10	Lever
3	Valve plate	7	Auxiliary armature	11	Knurled screw: on 507, 510
4	Closing spring	8	Tension rod		

Technical description

The DUNGS manual operated shut-off valve is semi-automatic, operated with auxiliary power. The electromagnetic drive opens against the force of the closing spring 4 only with manual action.

If the auxiliary power is interrupted (operating voltage), closing spring 4 closes the valve within 1 second. If gas supply is interrupted and auxiliary power is applied again, the shut-off valve does not open automatically.

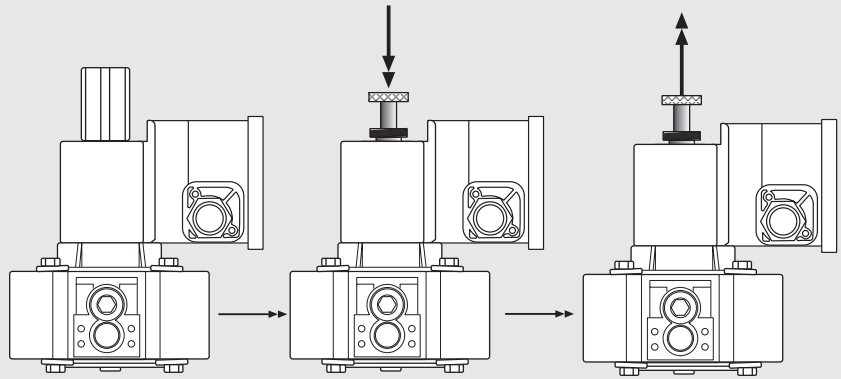
The closing function cannot be impaired externally. The closed position of the valve can be monitored by a mountable closed position signal contact.

Setup

HSAV 1507, HSAV 510/5

1. Remove protection cap.
2. Set knurled nut into closed position.
3. Switch on voltage.
4. Set knurled nut to open position by pulling.

When voltage is applied, the HSAV remains open.

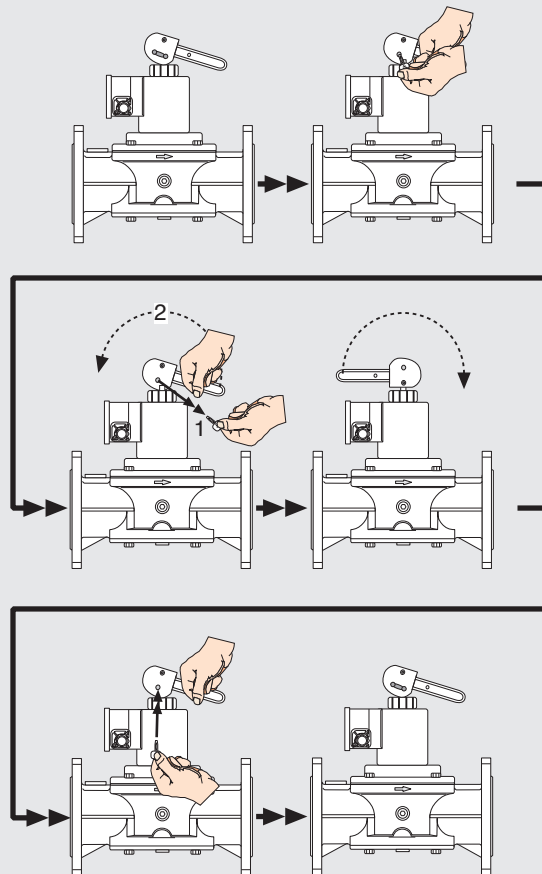


Setup

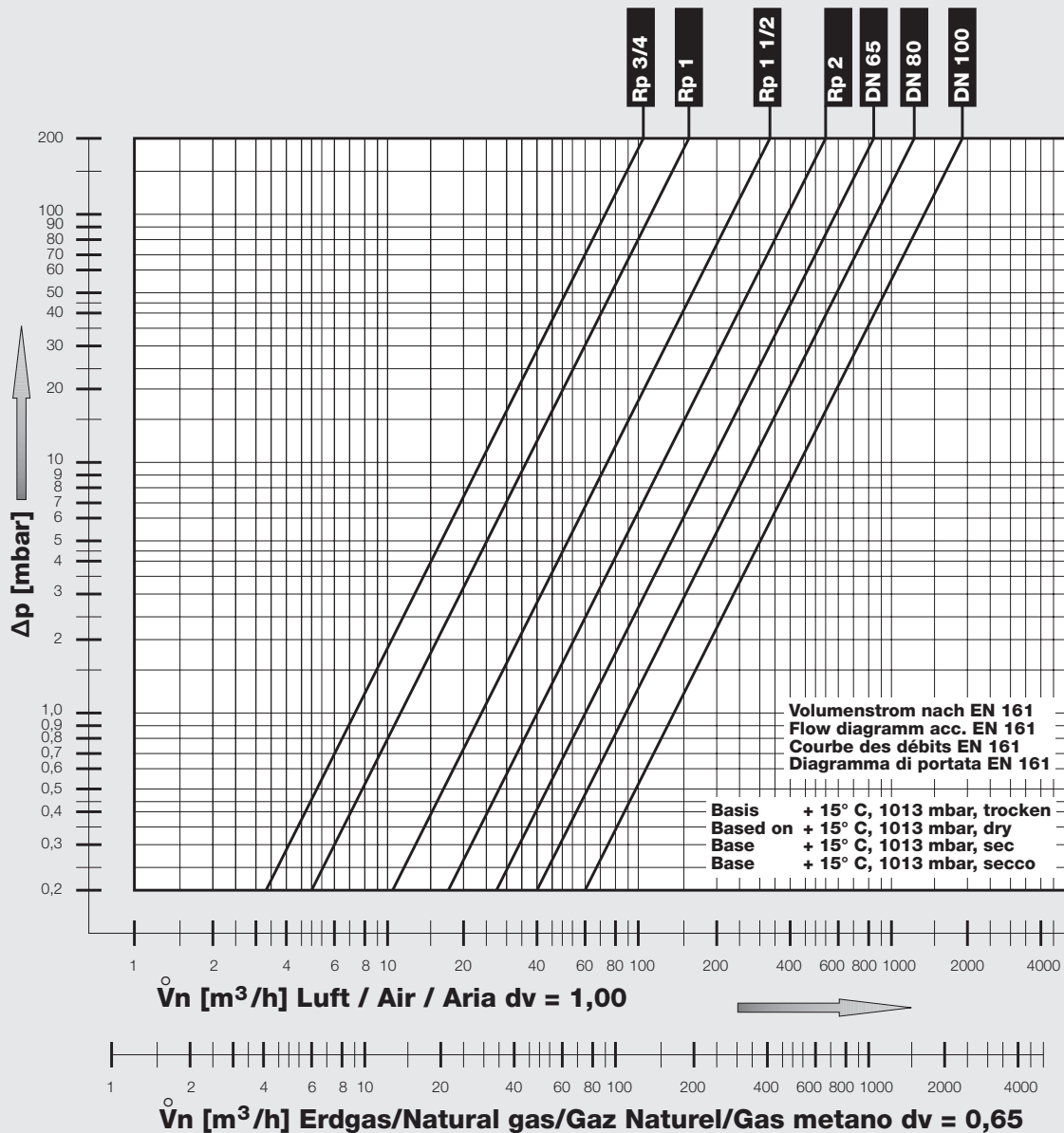
HSAV 515/5 - HSAV 520/5, HSAV 5065/5 - HSAV 5100/5

1. Remove locking pin.
2. Swivel lever through 180°.
3. Apply voltage.
4. Swivel lever through 180° again.
5. Push locking pin through hole.

When voltage is applied, the HSAV remains open.



Flow diagram



We reserve the right to make any changes in the interest of technical progress.

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