# Single-stage air solenoid valves

LV-D/4 LV-D/5

6.50





### **Technical description**

The DUNGS air solenoid valve LV-D/4, LV-D/5 is a single-stage automatic shut-off valve for cold-air operation in industrial burners:

- Max.operating pressure up to 200 mbar (20 kPa)
- normally closed
- fast opening
- Main volume adjustable
- DC solenoid, rectifier wiring with radio interference suppression in terminal box with PG screw union
- Mountable closed position signal contact to monitor closed position of valve (.../5)
- Pipe thread as per ISO 7/1
- Flange connection as per DIN EN 1092-1
- Reliable function, rugged and maintenance-free

 On request, design without nonferrous metals

### **Application**

The solenoid valve is used for securing, limiting, shutting off and releasing air supply to industrial burners.

LV-D/4 Range of application: for large breaking capacities, e.g. pulsed firing.

The LV-D must not be used for inflammable gases; only non-inflammable inert media are allowed!

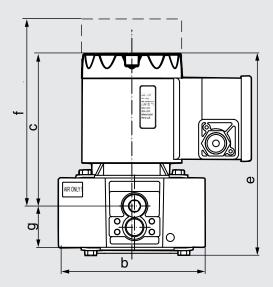
## **Specifications**

Nominal diameters										
Pipe thread as per ISO 7/1, Rp	1 1½ 2 2½									
Flange	Connection flange (PN 16) as per DIN EN 1092-1									
Max. operating pressure	up to 200 mbar (20 kPa)									
Closing time	<1s									
Opening time	<1s									
Main volume	adjustable									
Materials of gas-conveying parts	Housing: aluminium, steel, brass Seals: NBR basis									
Voltage/frequency	230 V AC (+10 % -15 %); 50-60 Hz - other voltages on request									
Rating / power consumption	Refer to type overview									
Switch-on duration	100 %									
Degree of protection	IP 54									
Electrical connection	At screw terminals via PG* 11 cable gland (* = heavy-gauge conduit thread) Plug connection as per DIN 175 0301-803 can be retrofitted									
Switching rate	max. 1000/h									
Measuring/ignition gas connection	G 1/4 ISO 118, on both sides in inlet section									
Ambient temperature	-15 °C to + 60 °C									
Installation position	Solenoid from vertically upright to horizontally lying									
Closed position signal contact	mountable									
Valve proving system	Type VDK 200 A S02, mountable via G 1/4 test connection, Type VPS 504, mountable with adapter up to Rp 2 1/2									
Accessories	K01 closed position signal contact, see Datasheet 12.01 211 202 Equipment plug for line socket, DIN 175301-803 215 733									

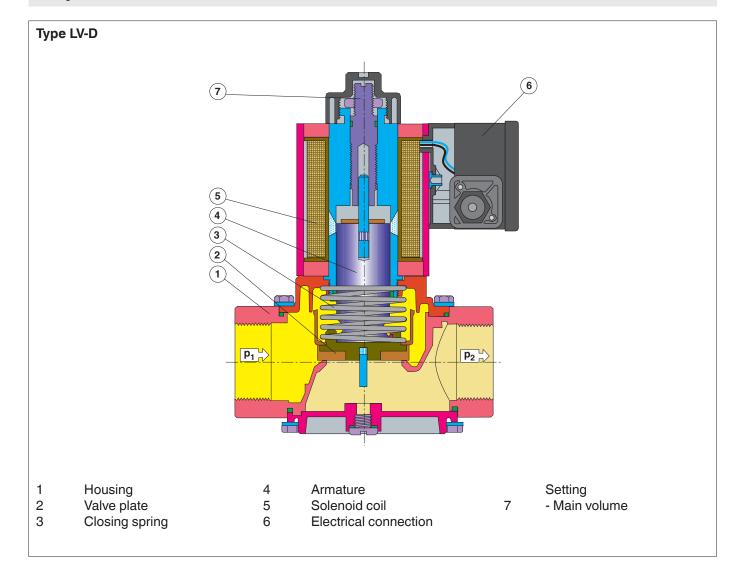
Туре	P <sub>max.</sub>	Rp	Sole- noid No.	Order No.	P <sub>max.</sub> [VA]	I <sub>max.</sub> ~(AC) 230 V	Ope- ning time	Dimensions [mm]							Weight
								а	b	С	d	е	f	g	[kg]
LV-D 210/4	200	Rp 1	200	256 437	25	0.15	<1s	75	110	135	90	151	200	30	2.45
LV-D 215/4	200	Rp 1 ½	280	256 861	60	0.26	<1s	80	150	170	116	200	255	45	4.30
LV-D 220/5	200	Rp 2	300	257 036	60	0.30	<1s	95	170	175	130	225	265	50	5.90
LV-D 225/5	200	Rp 2 ½	400	257 037	100	0.48	<1s	115	230	220	165	280	325	55	10.90

f = Space requirement for solenoid changing d = largest width

Dimensions [mm] LV-D 210 - 215/4 LV-D 220 - 225/5



d = largest width



### **Functional description**

The DUNGS air solenoid valve is an automatic shut-off valve operated with auxiliary power.

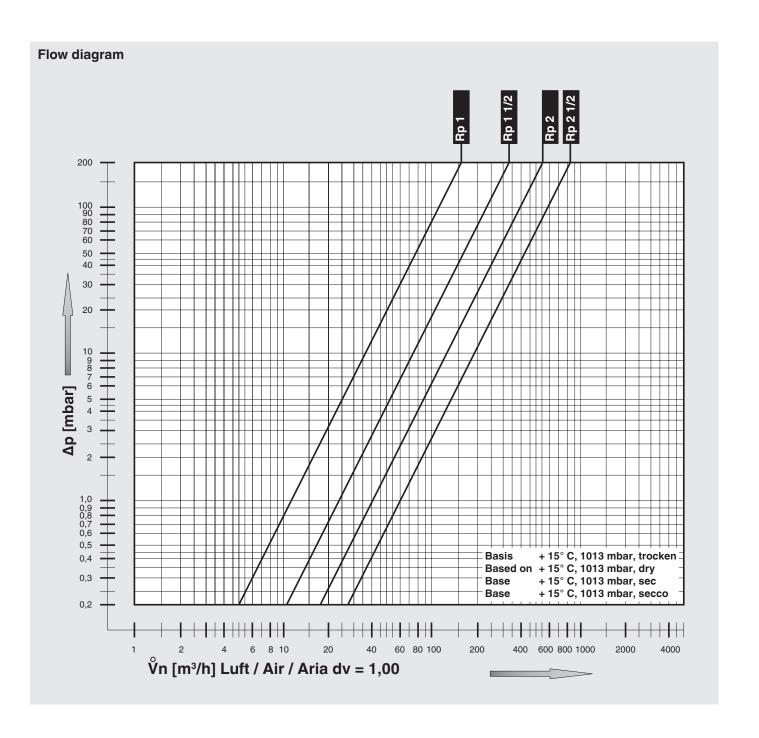
The electromagnetic drive opens 3 ... 4 against the force of the closing spring 3.

The stroke of armature 4 can be limited by the setting screw 7.

If the auxiliary power is interrupted (operating voltage), closing spring 3 closes the valve within 1 second.

The closed position of the valve can be monitored by a mountable closed position signal contact. Single-stage air solenoid valves LV-D/4 LV-D/5





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

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