Single-stage air solenoid valves

LV-D/4 LV-D/5







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! LV-D/4, LV-D/5

Single-stage solenoid valve, normally when closed, fast opening, fast closing, manual limitation of flowing air volume by adjusting main volume.

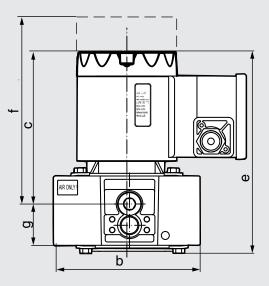
Specifications											
Nominal diameters Pipe thread as per ISO 7/1, Rp	1 11/2 2 21/2										
Flange	Connection flange (PN 16) as per DIN EN 1092-1										
Max. operating pressure	up to 200 mbar (20 kPa)										
Closing time	<1s										
Opening time	<1s										
Main volume	adjustable										
Materials of gas-conveying parts	Housing: aluminium, steel, brass										
×4 · · · · · · · ·	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 12.01211 202Equipment plug for line socket, DIN 175301-803215 733										

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

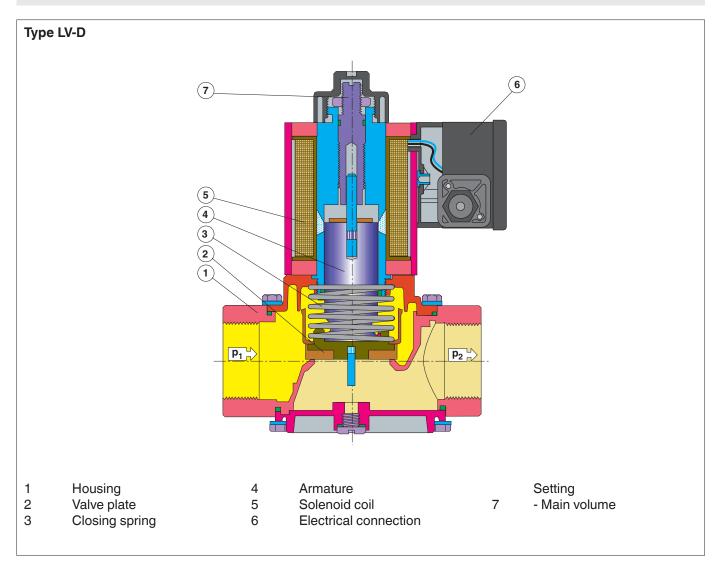
f = Space requirement for solenoid changing

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



