

**Bypass solenoid valve
G 1/2 - G 3/4
nominal diameters**

**BMV-D/5
BMV-DLE/5**

DUNGS®

6.06



Technical description

The DUNGS bypass solenoid valve BMV is a system accessory for the DUNGS double solenoid valve (DMV):

- Max. operating pressure up to 0.5 bar
- Class A, Group 2 as per EN 161
- Optionally internal or external bypass
- High flow rates
- normally closed
- Fast closing, fast opening (BMV-D/5) or slow opening (BMV-DLE) with adjustable fast stroke for start gas volume
- Adjustable volume restrictor
- DC solenoid, rectifier and wiring in plug connection as per DIN 43 650
- Valve output optionally in DMV housing or in external ignition gas line with G 1/2 or G 3/4 thread connection.
- The modular system of the DMV permits fast and reliable mounting of BMV/5 on the DMV housing.

Application

Bypass valves are used as ignition and start gas valves for separate ignition burners or partial load mode.

The DUNGS bypass solenoid valve is suitable for gases of families 1, 2, 3 and other neutral gaseous media.

Approvals

EU type test approval as per EU Gas Appliance Directive.

BMV-D(LE) 505/5	CE-0085 AP 0167
BMV-D(LE) 507/5	CE-0085 AN 0048

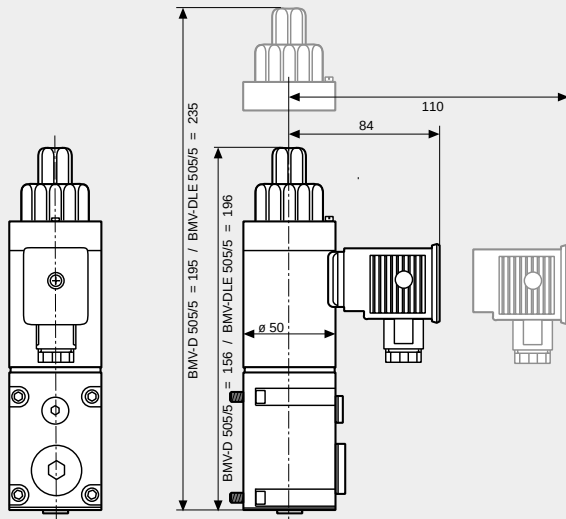
Approvals in other important gas-consuming countries.

BMV-D/5	Single-stage solenoid valve, normally closed, fast opening, fast closing. Manual limitation of flowing gas volume by volume setting (D).
BMV-DLE/5	Single-stage solenoid valves, normally closed, slowly opening (L), fast closing. Opening time setting (E) with fast stroke range. Manual limitation of flowing gas volume by volume setting (D).

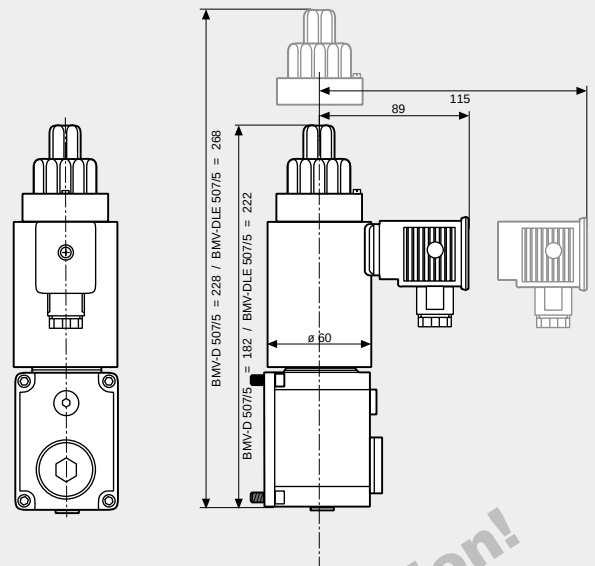
Specifications

Construction size	BMV-(DLE) 505	BMV-(DLE) 507
Pipe thread as per ISO 228	G 1/2	G 3/4
Flange	Connection flange: DMV 5040 - 5050/11	DMV 5040 - 5125
Max. operating pressure	500 mbar (50 kPa)	
Pressure stage	PN 1	
Solenoid valve	Valve as per EN 161: Class A, Group 2, single-stage mode	
Closing time	< 1 s	
Opening time	BMV-D.../5: < 1 s	BMV-DLE.../5: approx. 20 s at room temperature +20°C and without fast stroke
Fast stroke	Adjustable up to 70% of complete stroke	
Volume setting	Manual on BMV-D.../5 and BMV-DLE.../5	
Materials of conveying parts	Housing: aluminium, steel	Seals at valve seat: NBR basis
Ambient temperature	-15°C to +60°C	
Installation position	Solenoid from vertically upright to horizontally lying	
Dirt trap	No sieve installed. To protect the complete gas train, we recommend the installation of an upstream gas filter (see Datasheet 2.03)	
Measuring gas connection	G 1/8 DIN ISO 228, upstream of valve seat	
Voltage/frequency	50-60 Hz, 220 V - 240 V AC, -15°C +10%, further voltages on request Other preferred voltages: 110 V - 120 V AC, 48 V DC, 24 V - 28 V DC	
Rating / power consumption	For 240 V AC, +20°C, see type overview	
Degree of protection	IP 54	
Switch-on duration	100 %	
Electrical connection	Plug connection as per DIN 43650, power socket with wiring	
Closed position signal contact	Type K01/1, DIN-tested, mountable	
Accessories	K01/1 closed position signal contact, see Datasheet 12.01	211 202

Dimensions BMV-D/5



Dimensions BMV-DLE/5



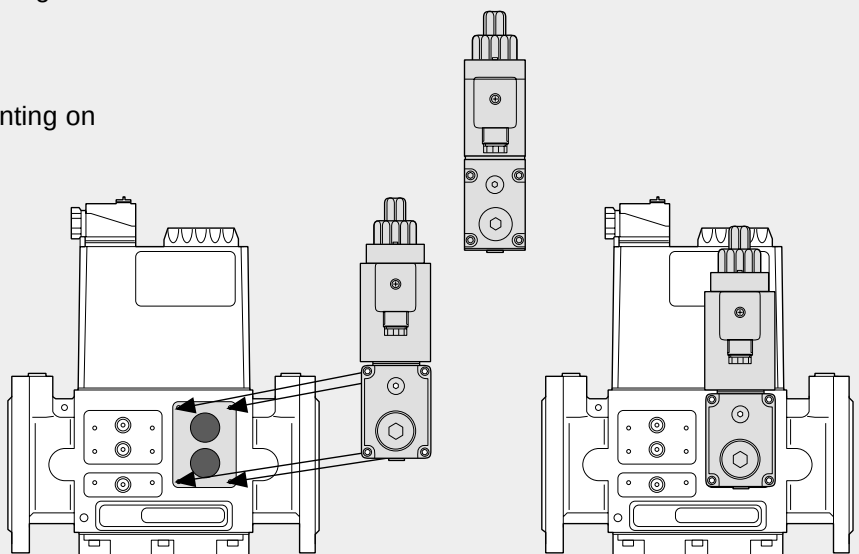
Version		Order No.	P _{max.} [bar]	Connection G	Rating [VA]	Solenoid No.	Switching rate/h ⁻¹	Weight [kg]
BMV-D	505/5	217 751	0.5	G 1/2	24	1150	1000	1.2
BMV-D	507/5	216 240	0.5	G 3/4	24	1250	1000	2.0
BMV-DLE	505/5	217 752	0.5	G 1/2	24	1150	100	1.3
BMV-DLE	507/5	217 750	0.5	G 3/4	24	1250	100	2.1

1) Switching rate of BMV-DLE 50.../5 is also dependent on opening time setting

Bypass valve on double solenoid valve

BMV505/5-(DLE) is prepared for mounting on
DMV-D(LE) 5040/11
DMV-D(LE) 5050/11

BMV 507/5-(DLE) is prepared for mounting on
DMV-D(LE) 525/11
DMV-D(LE) 5040/11
DMV-D(LE) 5050/11
DMV-D(LE) 5065/11
DMV-D(LE) 5080/11
DMV-D(LE) 5100 /11
DMV-D(LE) 5125/11

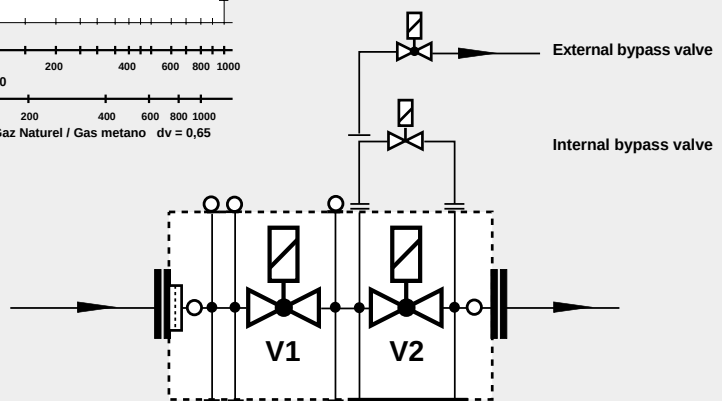
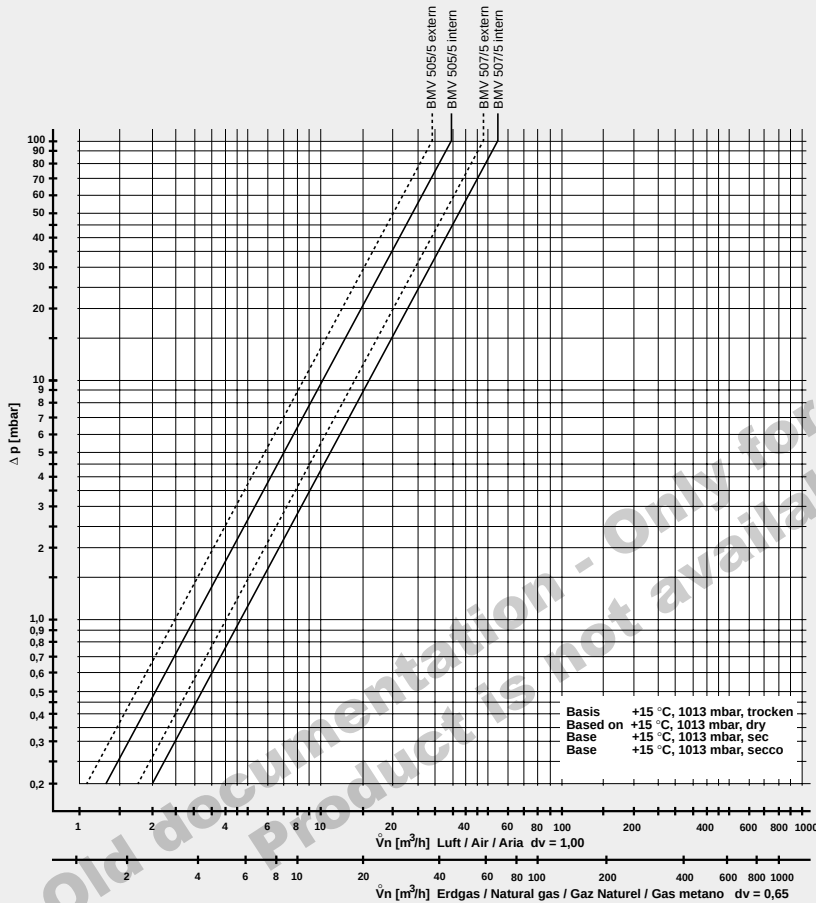


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nominal diameters

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BMV-DLE/5

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Flow diagram



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



Head Offices and Factory
Karl Dungs GmbH & Co.
Siemensstraße 6-10
D-73660 Urbach, Germany
Telephone +49 (0)7181-804-0
Fax +49 (0)7181-804-166

Postal address
Karl Dungs GmbH & Co.
Postfach 12 29
D-73602 Schorndorf, Germany
e-mail info@dungs.com
Internet www.dungs.com