

DMV.../11eco

EN 161

Kompaktarmatur
mit 2 Magnetventilen

Compact unit
with 2 solenoid valves

Armature compacte
avec 2 electrovannes

Unica struttura compatta
con 2 vavole elettro-
magnetiche

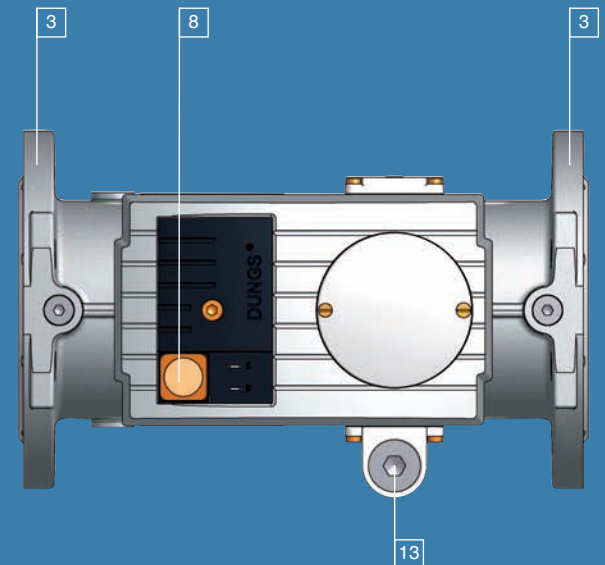
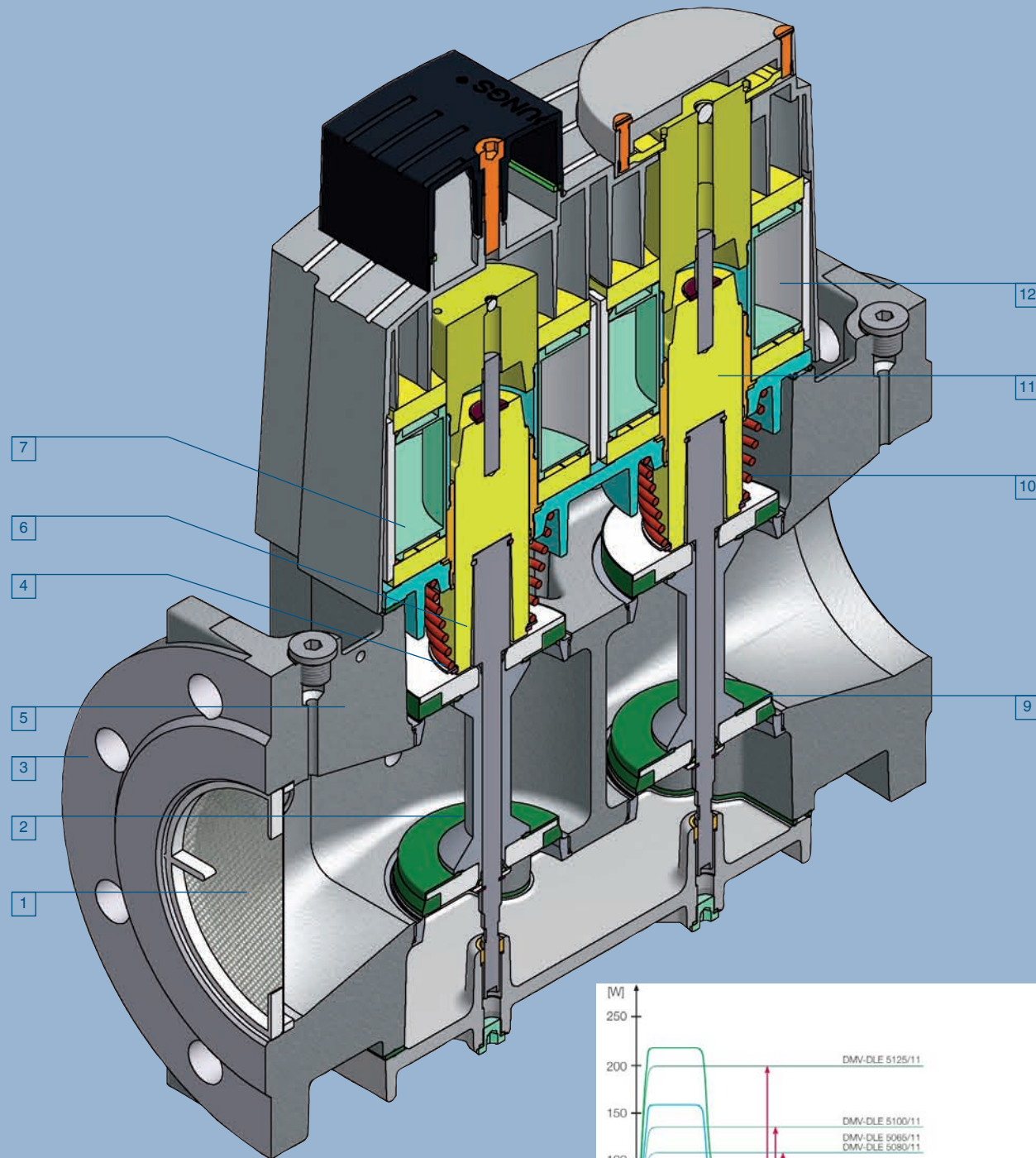
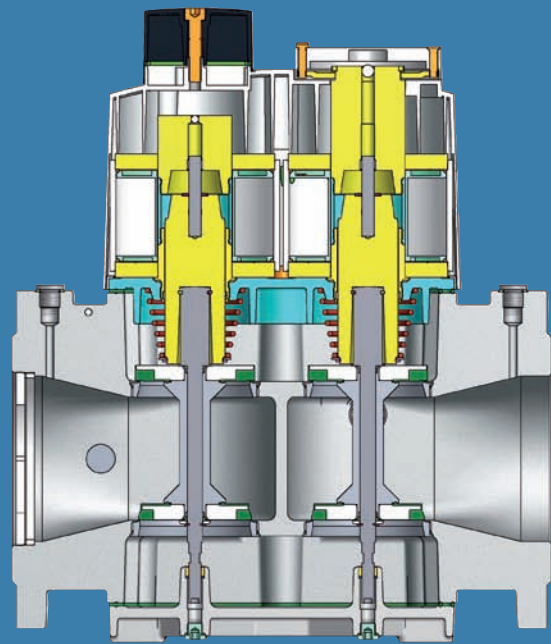
Doppelmagnetventil
schnell öffnend, schnell schließend

Double solenoid valve
fast opening, fast closing

Electrovanne double
ouverture rapide, fermeture rapide

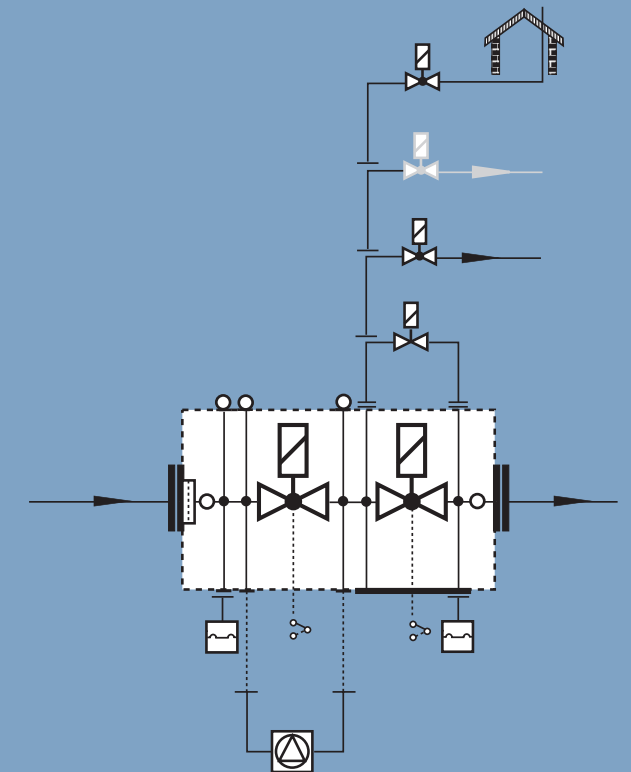
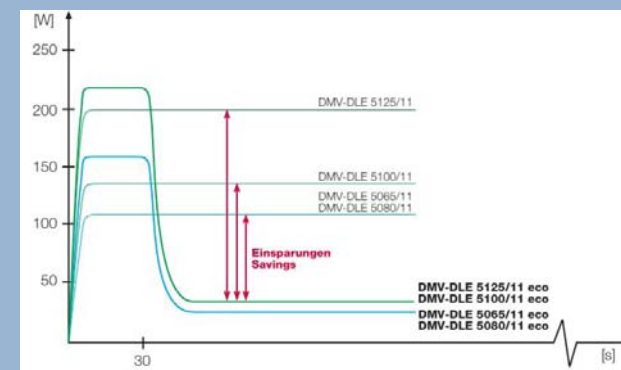
Valvola elettromagnetica doppia
apertura rapida, chiusura rapida

DUNGS®
Combustion Controls



Sieb	Strainer	Tamis	Reticella	1
Ventil V1	Valve V1	Clapet vanne V1	Otturatore V1	2
Anschlussflansch	Flange	Bride	Flagia	3
Schließfeder V1	Closing spring V1	Ressort de fermeture V1	Molla chiusura V1	4
Gehäuse	Housing	Corps de vanne	Corpo valvola	5
Anker V1	plunger V1	Induit V1	Indotto V1	6
Magnet V1	Solenoid V1	Bobine V1	Magnete V1	7
Elektroanschluss	Electrical connection	MB connecteur	Morsettiera	8
Ventil V2	Valve V2	Clapet vanne V2	Otturatore V2	9
Schließfeder V2	Closing spring V2	Ressort de fermeture V2	Molla chiusura V2	10
Anker V2	plunger V2	Induit V2	Indotto V2	11
Magnet V2	Solenoid V2	Bobine V2	Magnete V2	12
Zündgasflansch	Ignition gas flange	Bride de gaz d'allumage	Flangia gas d'accensione	13

MOP 500 mbar (50 kPa)
Rp 2 (DN 50), DN 65 - DN 125



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**Double solenoid valve
Rp 2 (DN 50)
DN 65 - DN 125
nominal diameters**

DUNGS®
Combustion Controls

**DMV/11 eco
DMV-D/11 eco
DMV-DLE/11 eco**

7.38

neovità
nouveau new

- Low power consumption
- Low weight
- Compact design
- High flow rates
- Max. operating pressure
500 mbar (50 kPa)



Technical description

The DUNGS double solenoid valve DMV integrates two solenoid valves in one compact fitting.

- Automatic shut-off valves as per DIN EN 161 Class A Group 2.
- Two A valves in one housing
- Double seat valves
- High flow rates
- Max. operating pressure up to 0.5 bar (50 kPa)
- Fast closing
- Fast opening (DMV/11 eco, DMV-D/11 eco)
- Adjustable main volume (DMV-D/11 eco, DMV-DLE/11 eco)
- DC solenoid
- Low electric power consumption through power switching
- Mountable closed position signal contact
- Compact, light-weight

Application

Double solenoid valves are used where two single valves were mounted previously. In connection with DUNGS gas regulators and additional components, a wide variety of regulating tasks can be performed.

It does not contain any non-ferrous metals, suitable for gases of up to max. 0.1 vol.% H₂S, dry. Suitable for gases of families 1, 2, 3 and other neutral gaseous media.

Approvals

EC type test approval as per EC Gas Appliance Directive:

DMV-...525-5125/11 eco CE-0085 AN 2801

EC type test approval as per EC Pressure Equipment Directive:

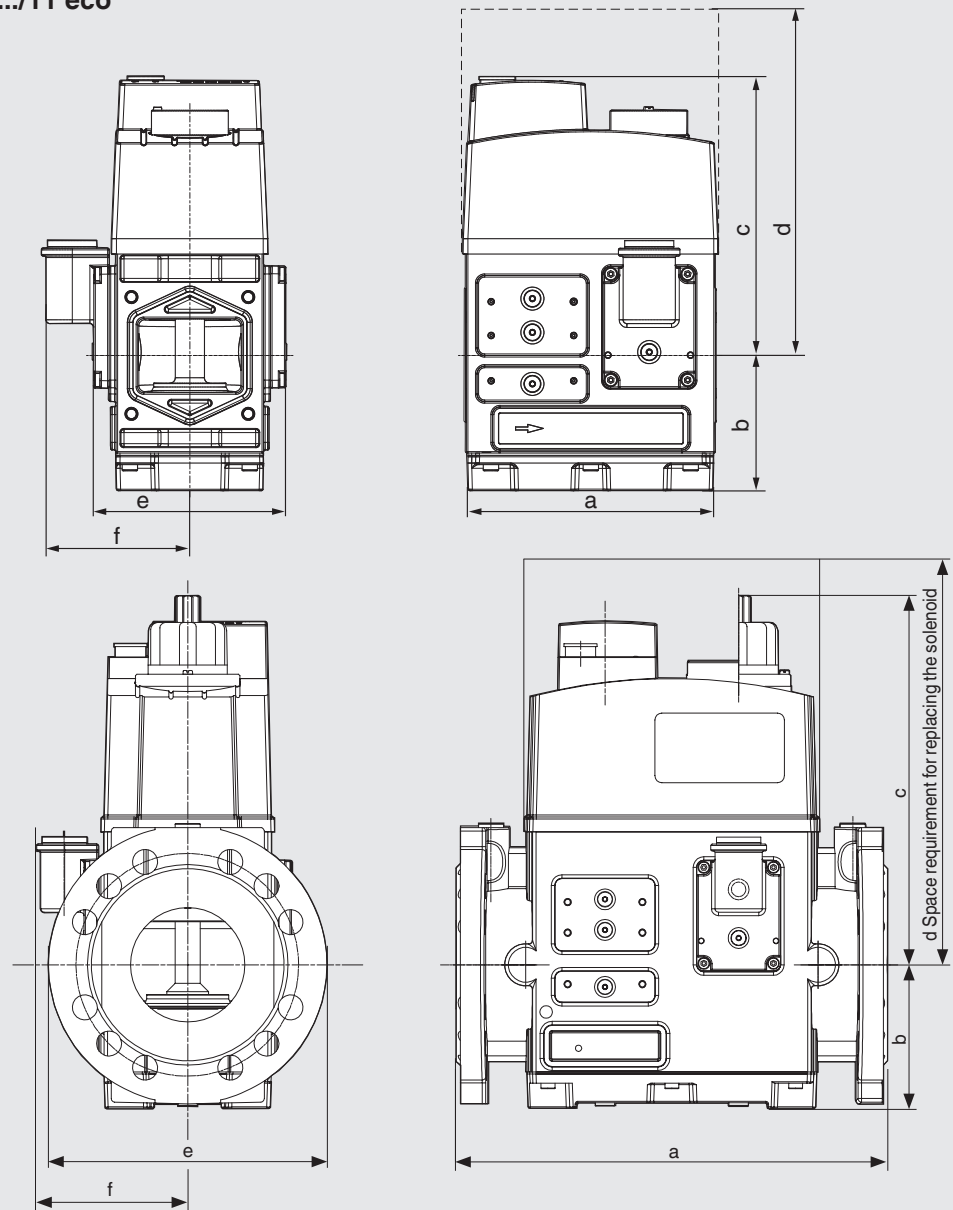
DMV-...525-5125/11 eco CE0036

Approvals in other important gas consuming countries.

Specifications

Nominal diameters Flange	DN 65 80 100 125 Connection flange as per DIN 2501 Part 1, to fit preweld flanges as per DIN 2633 (PN 16) DN 65 to DN 125, ISO 7005 - 1 (PN 16), ISO 7005 - 2 (PN 16) Construction length as per DIN 3202 Part 1, row F1 for DN 65 to DN 125				
Nominal diameters Flange with pipe thread as per ISO 7-1	DMV 525/11 eco Rp 2				
Max. operating pressure	500 mbar (50 kPa)				
Solenoid valve V1	Automatic shut-off valve as per EN 161: Class A, Group 2				
Solenoid valve V2	Automatic shut-off valve as per EN 161: Class A, Group 2				
Closing time	< 1 s				
Opening time	DMV.../11 eco, DMV-D.../11 eco: < 1 s				
Main valve restrictor	Adjustable (DMV-D.../11 eco, DMV-DLE.../11 eco)				
Materials of gas conveying parts	Housing: aluminium, steel, no non-ferrous metals Seals at valve seat: NBR basis, suitable for gases as per G260/I FKM basis, suitable for gases as per G260/I (Viton version)				
Ambient temperature	NBR: -15 °C to +60 °C Viton: 0 °C to +60 °C				
Installation position	Solenoid vertically upright to lying horizontally				
Dirt trap	Sieve installed. To protect the complete gas train we recommend you to install a suitable gas filter (refer to Datasheet 11.02)				
Measuring gas connection	G 1/4 DIN ISO 228 centrally upstream of V1 and downstream of V2 (not 525/11 eco) G 1/8 DIN ISO 228 on both sides upstream of V1, between V1 and V2, downstream of V2				
Ignition gas connection	G 3/4 ignition gas flange as per ISO 228, possible on both sides between V1 and V2				
Voltage/frequency	50 - 60 Hz, 230 V AC, -15% +10%, further voltages on request Other preferred voltages: 110 V AC, 24 V DC				
Rating / power consumption at 230 V AC, + 20°C all indications are effective values	Version	Starting power approx. [W]	Holding power approx. [W]	Break-away start- ing current [A]	Holding current [A]
	DMV 525/11 eco	2 x 65	2 x 16	2 x 0.32	2 x 0.11
	DMV-... 5065/11 eco	2 x 65	2 x 16	2 x 0.32	2 x 0.11
	DMV-... 5080/11 eco	2 x 95	2 x 20	2 x 0.54	2 x 0.20
	DMV-... 5100/11 eco	2 x 125	2 x 25	2 x 0.54	2 x 0.20
	DMV-... 5125/11 eco	2 x 125	2 x 25	2 x 0.54	2 x 0.20
Degree of protection / switch-on duration	IP 54 / 100 %				
Electrical connection	Plug-in connection as per DIN EN 175301-803				
Radio interference	Degree of interference N				
Closed position signal contact	Type K01/1 (DIN tested), can be mounted on V1 and V2				

Dimensions for DMV.../11 eco



Version	Order No.	$p_{max.}$ [bar]	Conne- ction DN	Dimensions [mm]						SolenoidSwit- ching rate/h ¹⁾	Weight [kg]
	230VAC/ NBR			a	b	c	d	e	f	No.	
DMV 525/11 eco	256 139	0.5	Rp 2 (DN 50)	162	88	179	275	125	97	1411/2P	7.2
DMV 5065/11 eco	256 293	0.5	DN 65	290	88	179	275	185	97	1411/2P	10.0
DMV 5080/11 eco	256 356	0.5	DN 80	310	104	246	370	200	109	1511/2P	16.3
DMV 5100/11 eco	249 774	0.5	DN 100	350	119	292	450	220	116	1611/2P	24.2
DMV 5125/11 eco	250 465	0.5	DN 125	400	142	329	500	255	125	1711/2P	31.7
DMV-D 525/11 eco	256 151	0.5	Rp 2 (DN 50)	162	88	179	275	125	97	1411/2P	7.2
DMV-D 5065/11 eco	256 296	0.5	DN 65	290	88	179	275	185	97	1411/2P	10.0
DMV-D 5080/11 eco	256 357	0.5	DN 80	310	104	246	370	200	109	1511/2P	16.3
DMV-D 5100/11 eco	253 459	0.5	DN 100	350	119	292	450	220	116	1611/2P	24.2
DMV-D 5125/11 eco	253 461	0.5	DN 125	400	142	329	500	255	125	1711/2P	31.7
DMV-DLE 525/11 eco	256 172	0.5	Rp 2 (DN 50)	162	88	179	275	125	97	1411/2PL	7.2
DMV-DLE 5065/11 eco	256 297	0.5	DN 65	290	88	179	275	185	97	1411/2PL	10.0
DMV-DLE 5080/11 eco	256 358	0.5	DN 80	310	104	265	370	200	109	1511/2PL	16.5
DMV-DLE 5100/11 eco	256 458	0.5	DN 100	350	119	346	450	220	116	1611/2PL	24.5
DMV-DLE 5125/11 eco	256 459	0.5	DN 125	400	142	387	500	255	125	1711/2PL	32.0

¹⁾ Switching rate of DMV-DLE.../11 eco depends on opening time setting



Important: Always order, plug connection and system accessories separately.

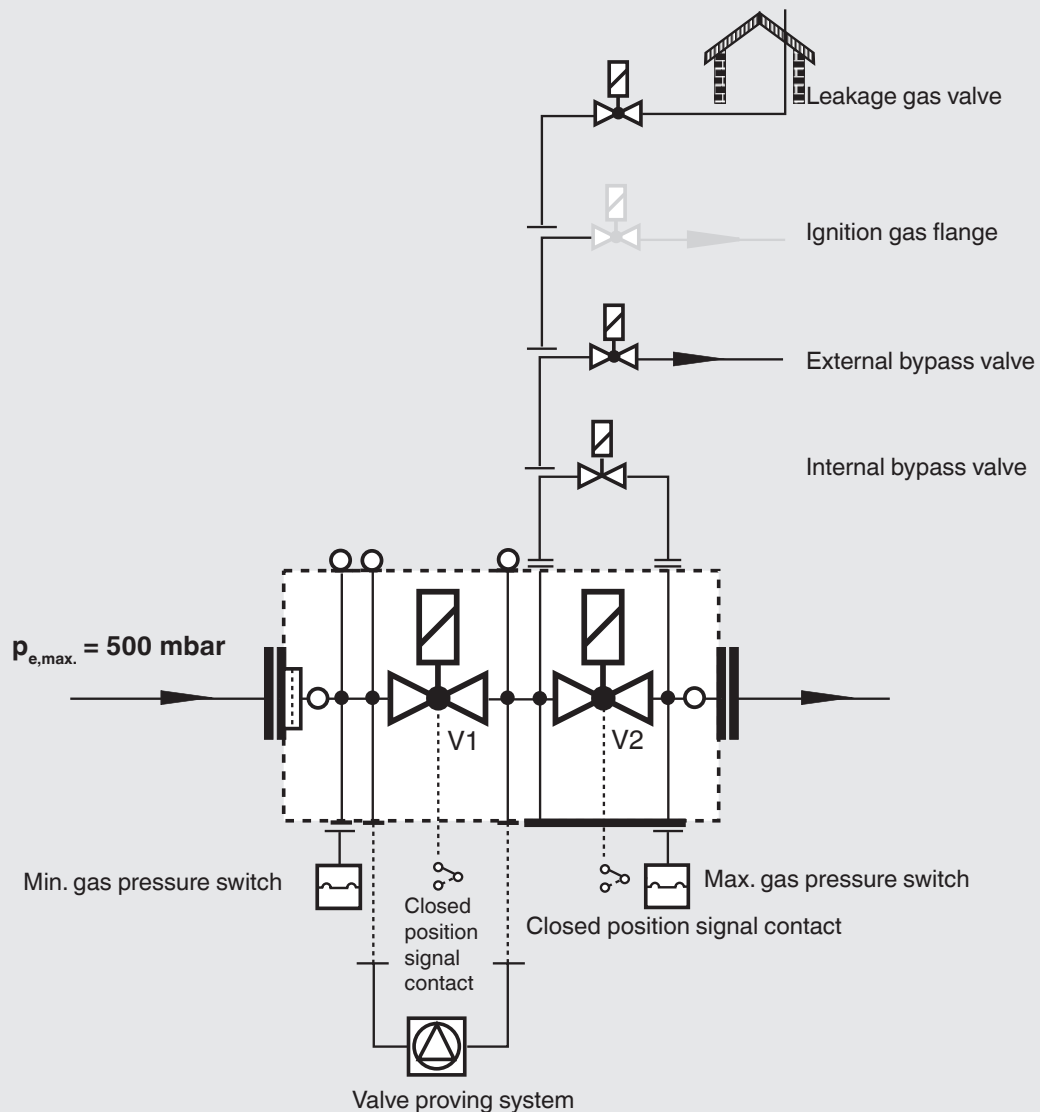
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DMV/11 eco	Two single stage solenoid valves, de-energised in absence of current, fast-opening, fast-closing.
DMV-D/11 eco	Two single stage solenoid valves, de-energised in absence of current, fast-opening, fast-closing. Manual limitation of gas flow is possible with main load adjustment (D) at valve 1 (V1).
DMV-DLE/11 eco	Two single stage solenoid valves, de-energised in absence of current, slow-opening (L), fast-closing. Adjustment of opening time (E) with fast stroke range at valve 2 (V2). Manual limitation of gas flow is possible with main load adjustment (D) at valve 1 (V1).

Variants Double solenoid valve DMV-.../11 eco single stage operating mode	DMV/11 eco Rp 2 (DN 50)	DMV/11 eco DN 65 - DN 125
DMV	◆	◆
DMV-D	◆	◆
DMV-DLE	◆	◆
Filter	◆	◆
Gas pressure switch can be mounted:		
on the flange	◆	(◆)
after the filter, before V1	◆	◆
between V1 and V2	◆	◆
after valve 2	◆	◆
valve V1, double seat	◆	◆
valve V2, double seat	◆	◆
Valves open separately	◆	◆
Ignition gas flange G 3/4	◆	◆

◆ = standard
 (◆) = on request
 -- = not possible

Double solenoid valve modular system



System accessories

The double solenoid valve is prepared for direct mounting of **DUNGS** system accessories and additional equipment.

Compact pressure switch for multiple actuators GW...A5

Datasheet 5.02

! If a system accessory is added, it may not be possible to mount further devices.

Information on system accessories

VPS 504 valve proving system

Datasheet 8.10

K01/1 closed position signal contact to monitor closed position of valves

Datasheet 12.01

Pressure limiter ÜB, NB...A2 for multiple actuators

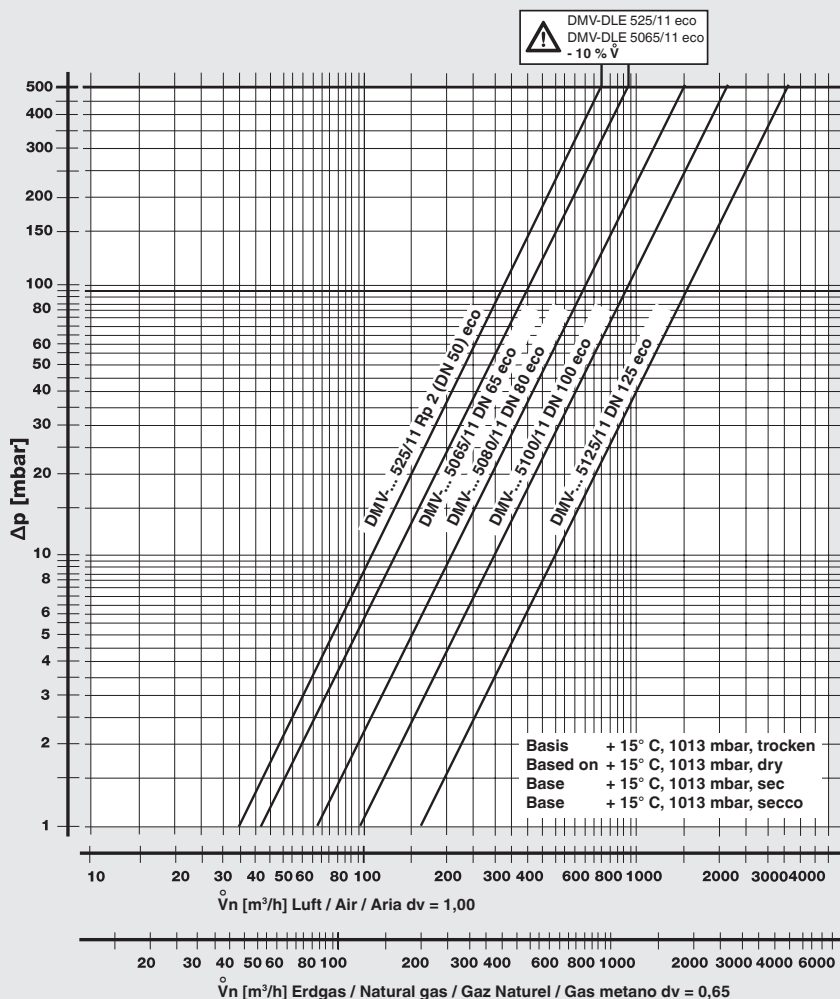
Datasheet 5.08

Double solenoid valve
Rp 2 (DN 50)
DN 65 - DN 125
nominal diameters

DMV/11 eco
DMV-D/11 eco
DMV-DLE/11 eco

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Flow diagram



f =

Dichte Luft
Spec. weight air
poids spécifique de l'air
peso específico aria

Dichte des verwendeten Gases
Spec. weight of gas used
poids spécifique du gaz utilisé
peso específico del gas utilizado

Gas type	Spec. Wgt. [kg/m³]	d_v	f
Nat. gas	0.81	0.65	1.24
City gas	0.58	0.47	1.46
LPG	2.08	1.67	0.77
Air	1.24	1.00	1.00

$$\dot{V}_{\text{verwendetes Gas/gas used/gaz utilisé/gas utilizzato}} = \dot{V}_{\text{Luft/air/aria}} \times f$$

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

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