

DMV 50050

EN 161

Kompaktarmatur
mit 2 Magnetventilen

Compact unit
with 2 solenoid valves

Armature compacte
avec 2 electrovannes

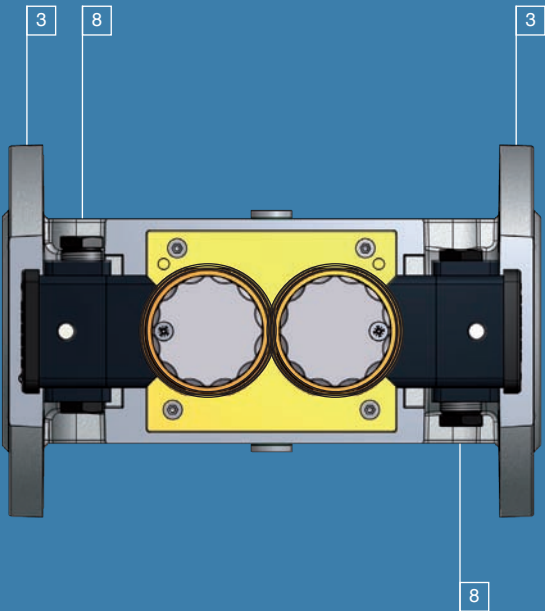
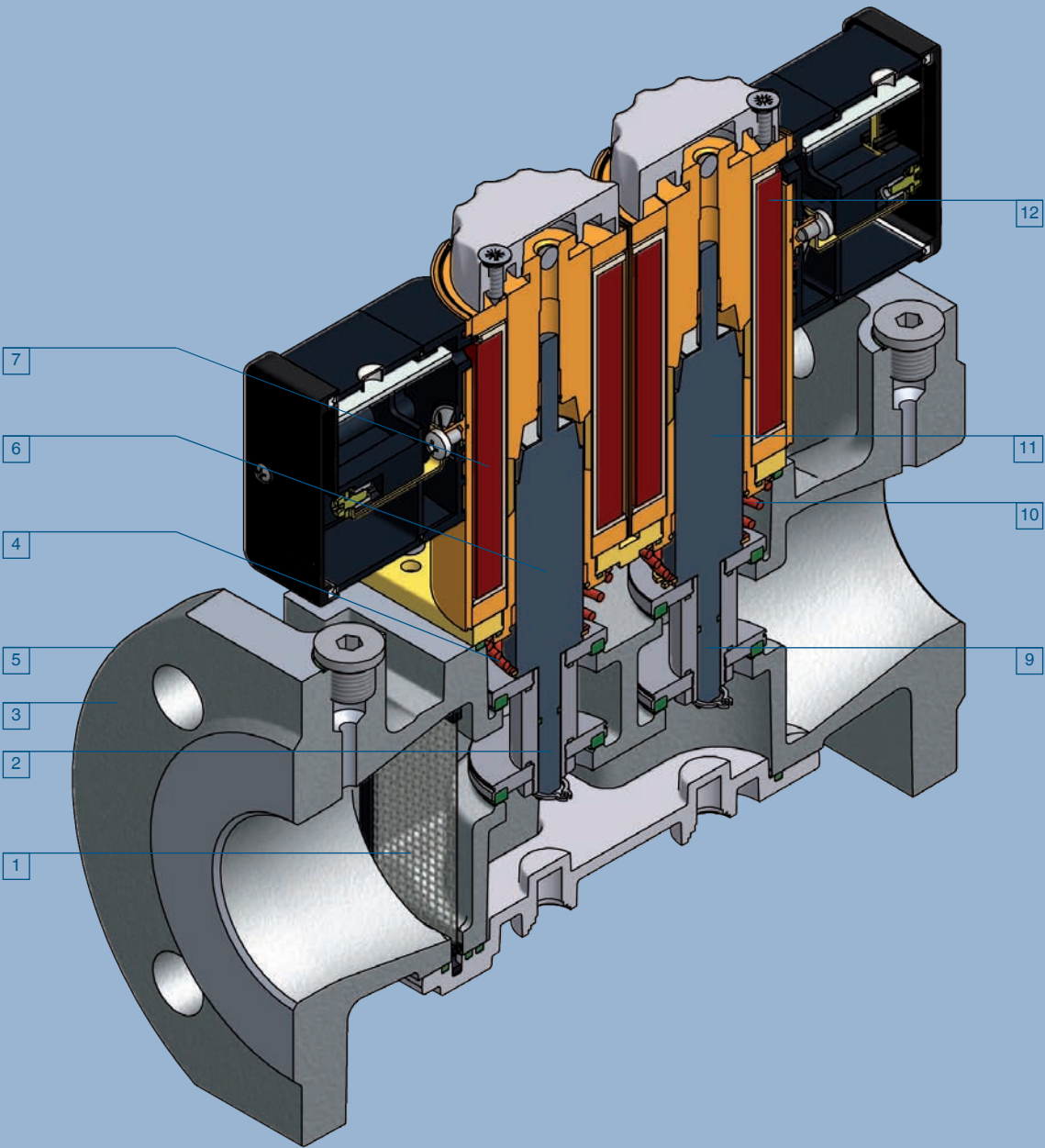
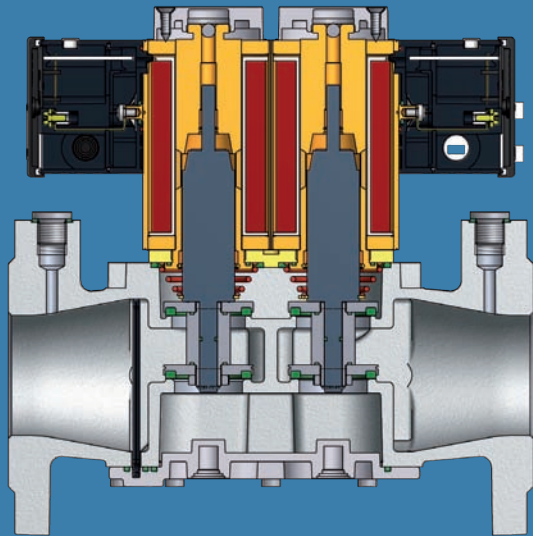
Unica struttura compatta
con 2 vavole elettro-
magnetiche

Doppelmagnetventil
schnell öffnend, schnell schließend

Double solenoid valve
fast opening, fast closing

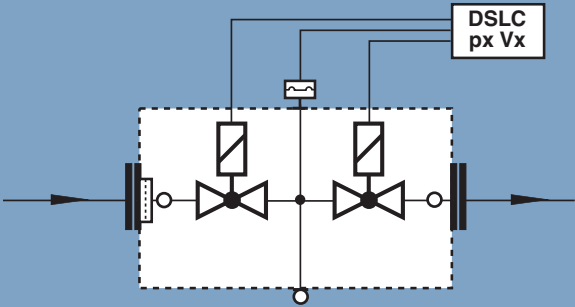
Electrovanne double
ouverture rapide, fermeture rapide

Valvola elettromagnetica doppia
apertura rapida, chiusura rapida



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

MOP 5 bar (500 kPa)
DN 50



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**Double solenoid valve
DN 25, DN 50
nominal diameters**

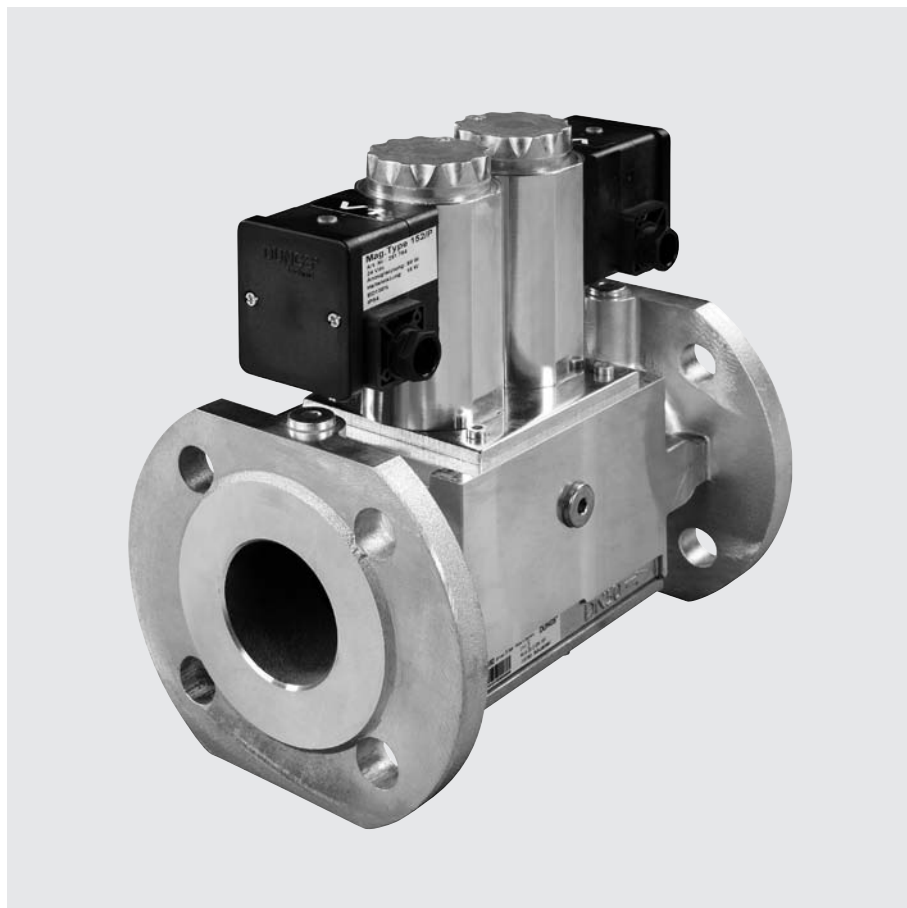
**DMV 50025
DMV 50050**

DUNGS®
Combustion Controls

7.39

neovità
nouveau

- Low power consumption
- Low weight
- Compact design
- High flow rates
- Max. operating pressure
5000 mbar (5 bar, 500 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 5.0 bar (500 kPa)
- Fast closing
- Fast opening
- DC solenoid
- Low electric power consumption through power switching
- 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. 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 50025-50050 CE-0085 BS 0501

EC type test approval as per EC Pressure Equipment Directive:

DMV 50025-50050 CE0036

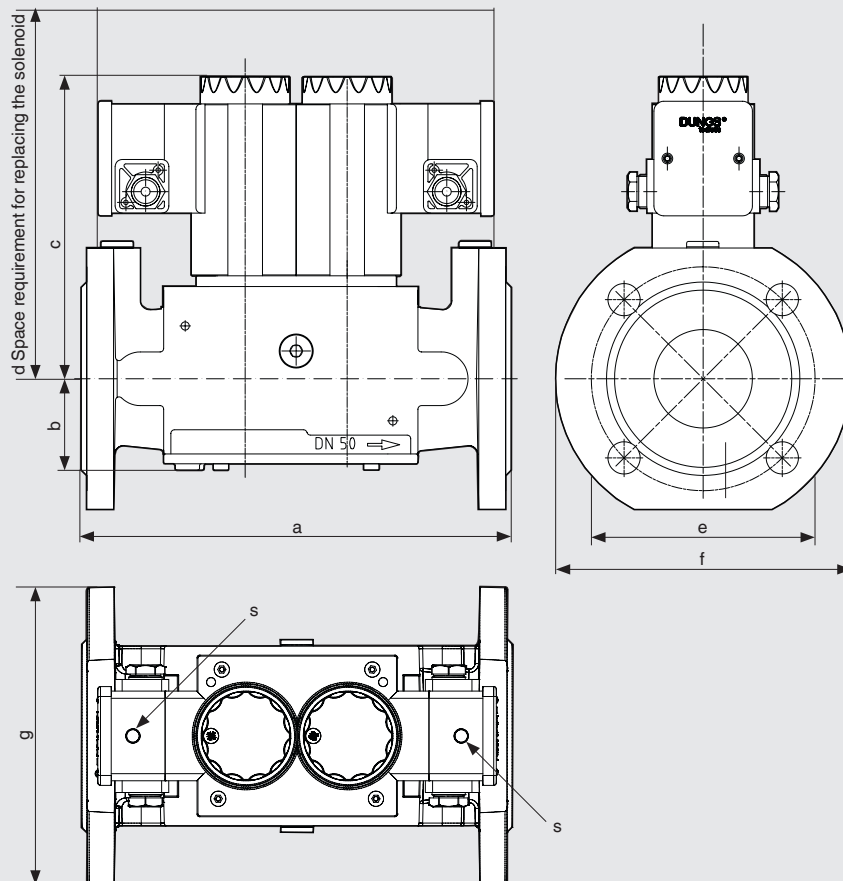
Approvals in other important gas consuming countries.

DMV 50025-50050 Two single-stage solenoid valves normally closed, fast opening, fast closing.
Electric activation: separately opening

Specifications

Nominal diameters Flange	DN 25 50 Connection flange as per DIN 2501 Part 1, to fit preweld flanges as per DIN 2633 (PN 16) DN 25 - DN 50, ISO 7005 - 1 (PN 16), ISO 7005 - 2 (PN 16) Construction length as per DIN 3202 Part 1, row F1 for DN 50				
Max. operating pressure	5000 mbar (500 kPa) max. pressure difference $\Delta p = 500$ mbar max. flow velocity = 50 m/s				
Solenoid valve V1	Automatic shut-off valve as per EN 161: Class A, Group 2, Version: double-seat				
Solenoid valve V2	Automatic shut-off valve as per EN 161: Class A, Group 2, Version: double-seat				
Closing time	< 1 s				
Opening time	< 1 s				
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				
Ambient temperature	-15 °C bis +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 an upstream gas filter				
Measuring gas connection	G 1/4 DIN ISO 228 centrally upstream of V1 and downstream of V2 G 1/4 DIN ISO 228 between V1 and V2				
Voltage/frequency	50 - 60 Hz, 230 V AC, -15% +10%, further voltages on request Other preferred voltages: 110 V - 120 V AC, 24 V DC				
Rating / power consumption entire fitting at 230 V AC, + 20°C All indications are effective values	Version	Starting power approx. [W]	Holding power approx. [W]	Break-away starting current [A]	Holding current [A]
	DMV 50025 DMV 50050	2x80 2x80	2x15 2x15	2x1,0 2x1,0	2x0,5 2x0,5
Power supply display	Green LED				
Degree of protection / switch-on duration	IP 54 as per IEC 529 (EN 60529)				
Switching cycles	60 per hour (30 s on/off)				
Electrical connection	At screw terminals via PG 11 Plug connection as per DIN 175 0301-803 can be retrofitted				
Radio interference	Degree of interference N				

Dimensions

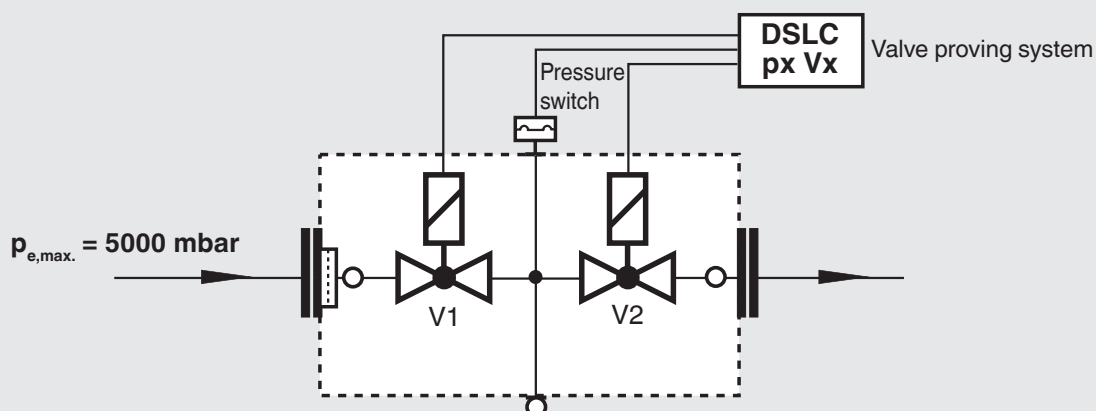


s = Operation display, Green LED

Version	Order No.	$p_{max.}$ [bar]	Con- nection DN	a	b	c	d	e	f	Sole- noid No.	Swit- ching rate/h	Weight [kg]
DMV 50025	on request	5.0	DN 25	240	51	170	270	102	116	152/P	60	8.1
DMV 50050	254 849	5.0	DN 50	240	51	170	270	102	165	152/P	60	8.1

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

Double solenoid valve



Accessories

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

Information on accessories

DSLC px Vx valve proving system
Datasheet 8.21

Compact pressure switch for multiple actuators GW...A4 HP
Datasheet 5.04

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

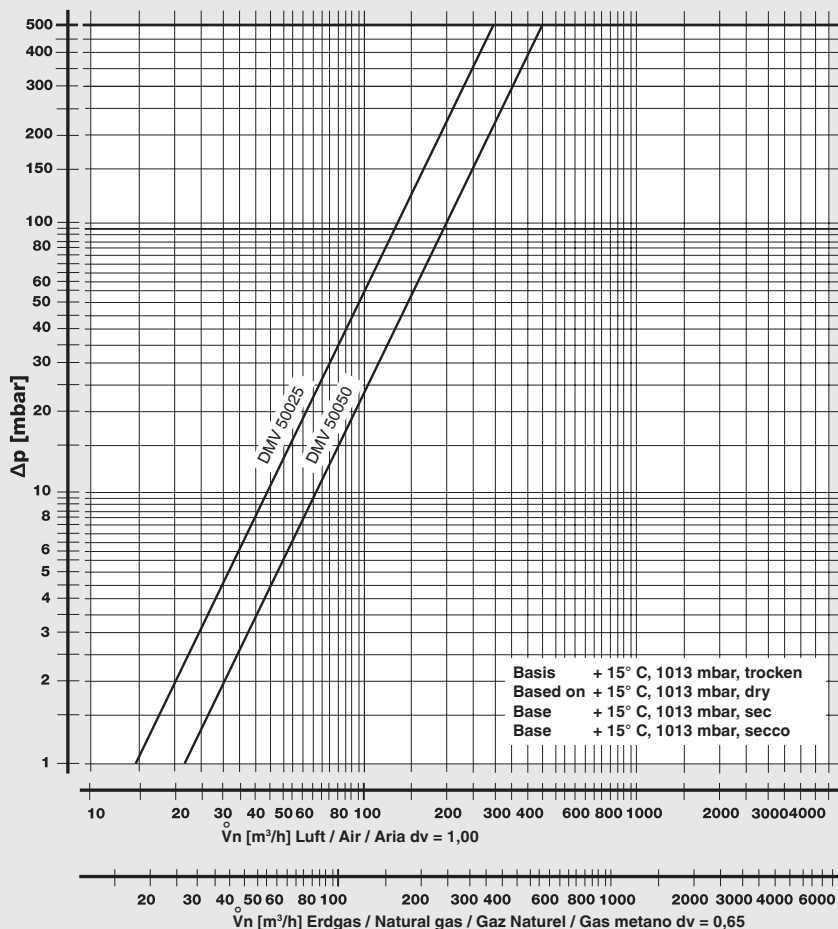
! When selecting the system components, you must observe the max. operating pressure!

**Double solenoid valve
DN 25, DN 50
nominal diameters**

**DMV 50025
DMV 50050**

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Combustion Controls

Flow diagram



max. pressure difference
 $\Delta p = 500$ mbar
 max. flow velocity
 = 50 m/s

$$f = \sqrt{\frac{\text{Dichte Luft}}{\text{Dichte des verwendeten Gases}}}$$

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

Spec. weight of gas used
 poids spécifique du gaz utilisé
 peso específico del gas utilizzato

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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