

# Single-stage safety solenoid valves

## MV 10..

6.30

**DUNGS**<sup>®</sup>  
Combustion Controls

neuvità  
nouveau new

- Max. operating pressure  
1000 mbar (100 kPa)
- Compact design
- High flow rates
- Degree of protection IP 54
- Low weight
- Low power consumption



### Technical description

The DUNGS safety solenoid valve MV is a single-stage automatic shut-off valve as per EN 161 for gas burners and gas appliances.

- Max. operating pressure up to 1000 mbar (100 kPa)
- normally closed
- MV fast opening
- DC solenoid for low-noise operation; rectifier wiring with radio interference suppression in terminal box with PG screw union
- Pipe thread as per ISO 7/1
- Reliable function, rugged and maintenance-free

### Application

The solenoid valve is used for securing, shutting off and releasing gas supply to gas burners and gas appliances.

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

### Approval

EC type testing certificate as per:

- EC-Gas Appliances Regulation
- EC-Pressure Equipment Directive

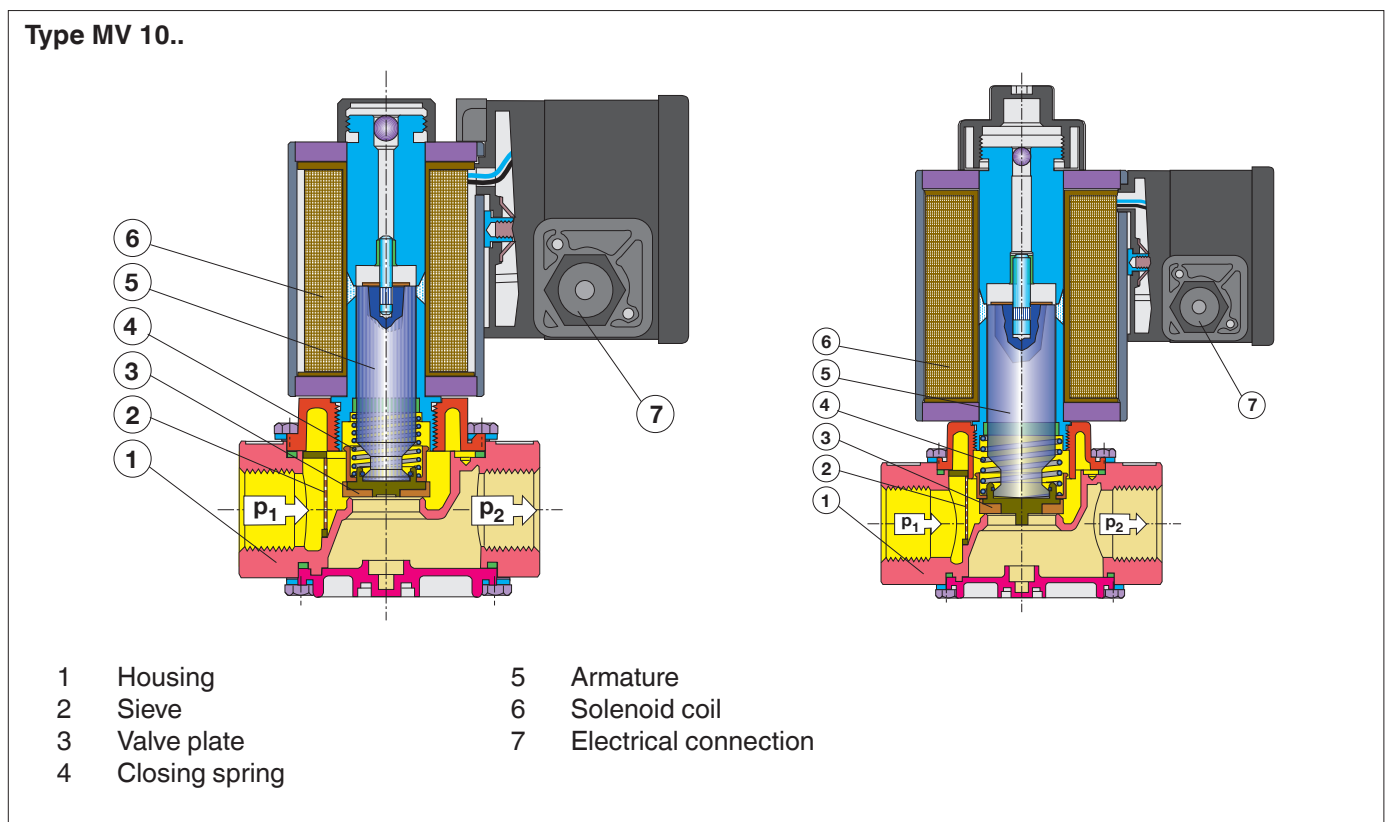
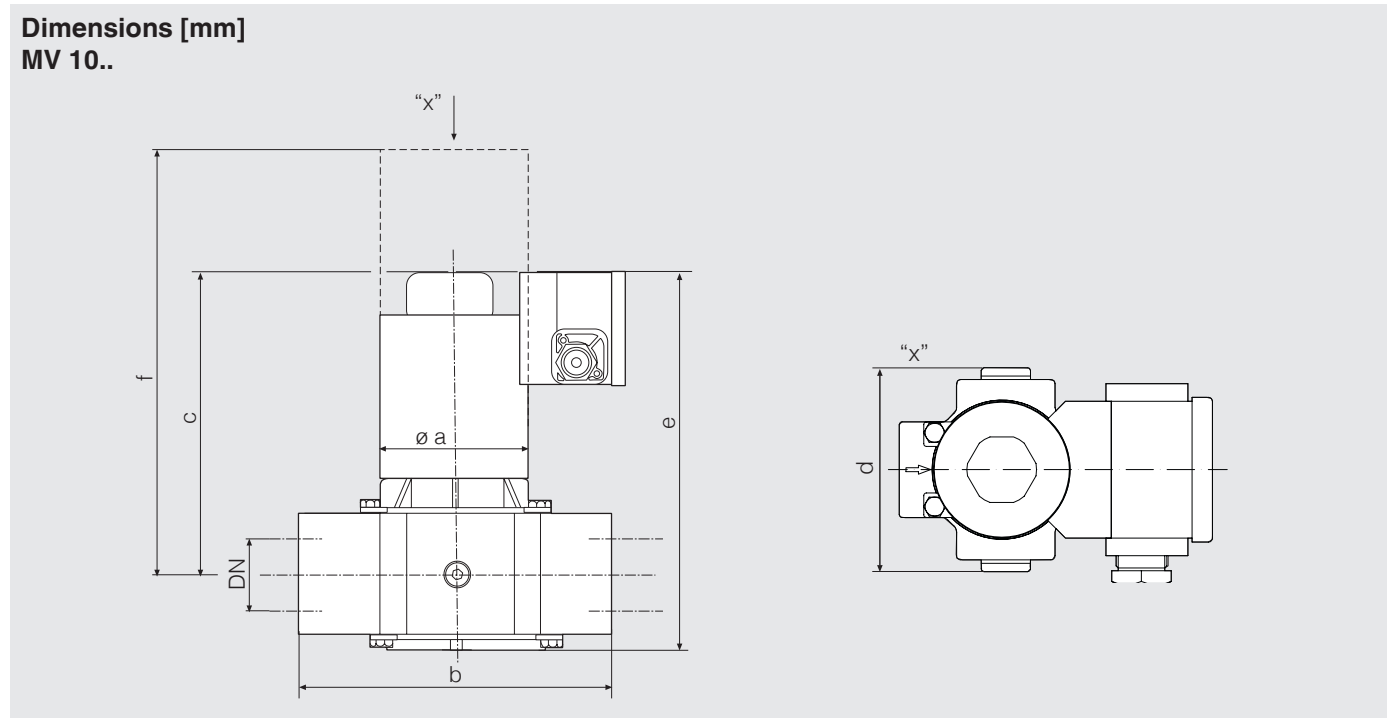
Approvals in other important gas consuming countries.

**Specifications**

Nominal diameters	15 20
Pipe thread as per ISO 7/1, Rp	1/2 3/4
Flange	
Max. operating pressure	up to 1000 mbar (100 kPa)
Solenoid valve	Valve as per EN 161, Class A, Group 2, single-stage mode
Closing time	< 1 s
Opening time	< 1 s
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, IP 65 on request
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	MV... max. 1000/h
Measuring/ignition gas connection	G 1/4 ISO 118, on both sides in inlet section
Dirt trap	Sieve installed, mesh width 1 mm
Ambient temperature	-15 °C to +60 °C
Temperature of the medium	-15 °C to +60 °C
Installation position	Solenoid from vertically upright to horizontally lying
Accessories	Equipment plug for line socket, DIN 175301-803 215 733

Type	P <sub>max.</sub>	DN / Rp	Sole- noid No.	Order No.	P <sub>max.</sub> [VA]	I <sub>max.</sub> ~ (AC) 230 V	Opening time	Dimensions [mm]					Weight [kg]	
								ø a	b	c	d	e		f
MV 1005	1000	Rp 1/2	100	246 921	24	0.11	< 1 s	50	75	135	75	129	200	1.00
MV 1007	1000	Rp 3/4	100	246 922	30	0.12	< 1 s	75	100	135	80	182	190	1.75

f = Space requirement for solenoid changing  
d = largest width



### Functional description

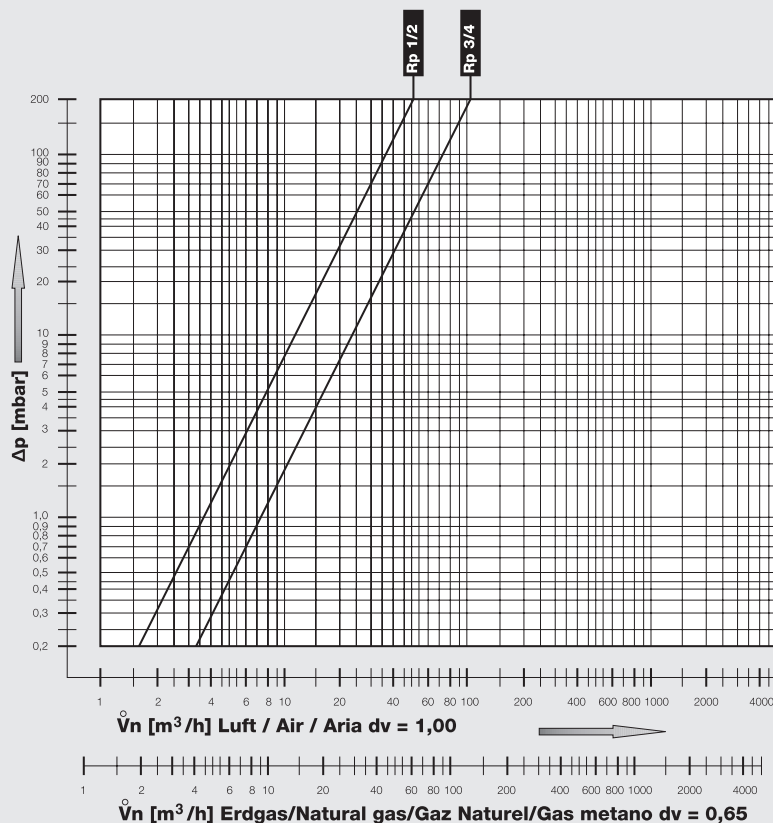
The DUNGS safety solenoid valve is an automatic shut-off valve operated with auxiliary power.

The electromagnetic drive opens against the force of the closing spring 4. If the auxiliary power is interrupted

(operating voltage), closing spring 4 closes the valve within 1 second.

Single-stage safety  
solenoid valves  
MV 10..

Flow diagram



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

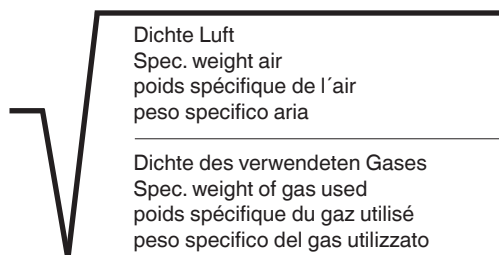
Gasart  
Type of gas  
Type de gaz  
Tipo di gas

Dichte  
Spec. Wgt.  
poids spécifique  
Peso specifico  
[kg/m³]

dv

f

f =



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

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

Erdgas/Nat. Gas/  
Gaz naturel/Gas metano

0.81 0.65 1.24

Stadtgas/City gas/  
Gaz de ville/Gas città

0.58 0.47 1.46

Flüssiggas/LPG/  
Gaz liquide/Gas liquido

2.08 1.67 0.77

Luft/Air/  
Air/Aria

1.24 1.00 1.00

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

**Head Offices and Factory**  
Karl Dungs GmbH & Co. KG  
Karl-Dungs-Platz 1  
D-73660 Urbach, Germany  
Telephone +49 (0)7181-804-0  
Fax +49 (0)7181-804-166

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