

NORMALLY OPEN SOLENOID VALVE FOR GAS 6 BAR

AUTOMATIC – EVA-6 ND 15 TO 50

FEATURES

The EVA-6 solenoid valves are intended for ambient bleed of non-corrosive combustible gas up to 6 bar, they are open when unenergized (normally open) and closing when energized.

AVAILABLE MODELS

BSPP threaded from 1/2" to 2"

DC Supply voltage: 12VDC* - 24VDC

AC Supply voltage: 12V/50Hz* - 24V/50 Hz - 110V 50/60 Hz - 230V 50/60 Hz

*Except ND > 25

OPTIONAL FEATURES

CPI closed position switch (factory mounted)

OPI open position switch (factory mounted)

1/4" pressure connections

NPT threaded connections

LIMITS OF USE

	ND 15 to 50
Pressure rating PS	6 bar
Ambient temperature TS	-20°C / +60°C
Fluid temperature TS	-20°C / +60°C



WET PARTS

ND	15 - 50
Body	Aluminium EN AB 46100
Cover & bottom	Aluminium EN AB 46100
Shutter	Aluminium 11S
Sealings	NBR

DIRECTIVES AND MANUFACTURING STANDARDS

Subject	Standard	Subject	Standard
Gas regulation UE	EN 16304 / EN 16311	PED directive	2014/68/UE
Threaded connections	EN 10226	EMC directive	2014/30/UE
ROHS II directive	2011/65/UE	LVD directive	2014/35/UE

SOLENOID AND OPTIONAL CPI SWITCH PROTECTION

Protection rating	IP 65
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Power connection for ND15 to ND50 is through a dedicated DIN T30 connector with a built-in current rectifier for the alternative voltages and with an M20 cable gland.

Information given as an indication only, and subject to possible modifications



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ELECTRICAL SPECIFICATIONS

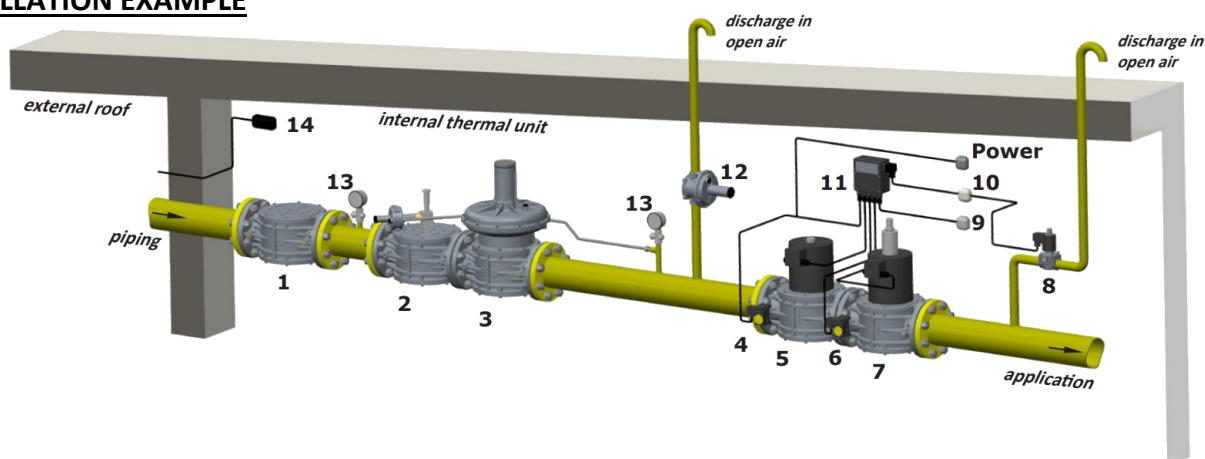
Ø	Voltage	Solenoid code	Connector code	Absorbed power at peak	Absorbed power at full speed
1/2" - 3/4" - 1" ND 15 - ND 20 - ND 25	12V DC	BO-0510	CN-2100	23 VA	6 VA
	12V 50Hz	BO-0510	CN-2110	20 VA	6 VA
	24V DC	BO-0520	CN-2100	27 VA	7 VA
	24V 50Hz	BO-0520	CN-2110	24 VA	7 VA
	110V 50/60 Hz	BO-0530	CN-2120	29 VA	9 VA
	230V 50/60 Hz	BO-0540	CN-2130	30 VA	9 VA
1 1/4" - 1 1/2" - 2" ND 32 - 40 - 50	24V DC	BO-0355	CN-2100	68 VA	18 VA
	24V 50Hz	BO-0355	CN-2110	68 VA	18 VA
	110V 50/60 Hz	BO-0365	CN-2120	77 VA	23 VA
	230V 50/60 Hz	BO-0375	CN-2130	89 VA	25 VA

OPTIONAL CPI/OPI SWITCHES SPECIFICATIONS

Ambien temperature TS	-20 / +60°C
Switchable voltage	1000V DC or AC peak
Switchable current	1A (DC or AC peak)
Switchable power	Max 40W
Resistance	200 mΩ

The CPI/OPI limit switches are of the SPST NO magnetic proximity sensor type (open at rest).
Connection by DIN connector.

INSTALLATION EXAMPLE



N°	Item	N°	Item
1	FM gas filter	8	EVA-6 Automatic discharge solenoid valve
2	OPSO: Over Pressure Self Operating device	9	Outside reset
3	RG/2MC pressure regulator	10	Burner control
4	Minimum pressure switch	11	MTC10 leak test device
5	EVP/NC fast opening automatic solenoid valve	12	MVS/1 relief valve
6	Maximum pressure switch	13	Pressure gauge with relative button
7	EVPT slow opening automatic solenoid valve	14	Gas detector

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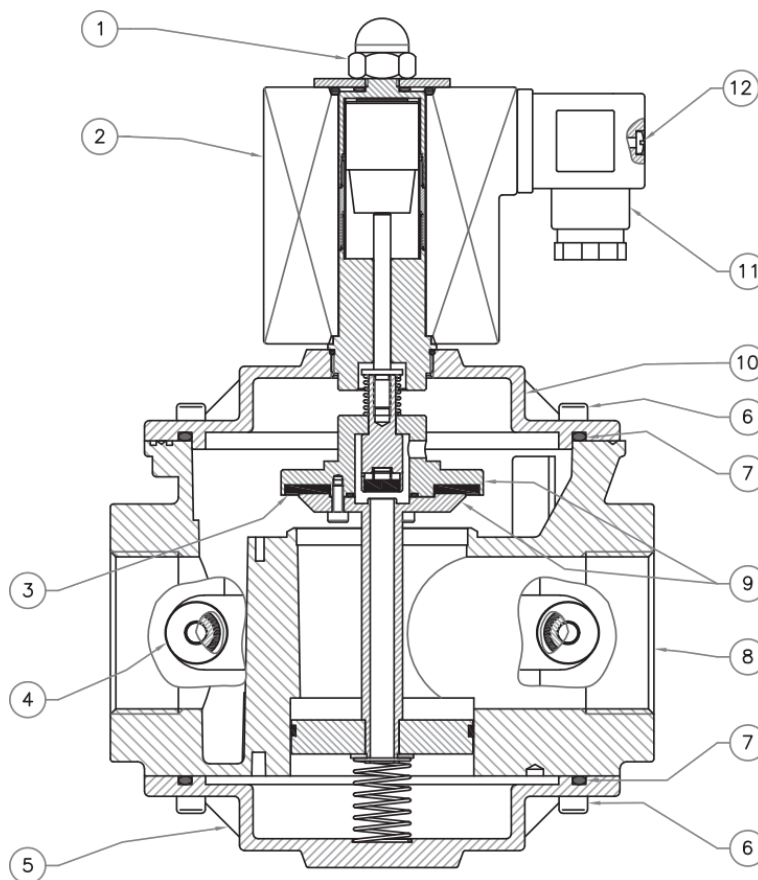
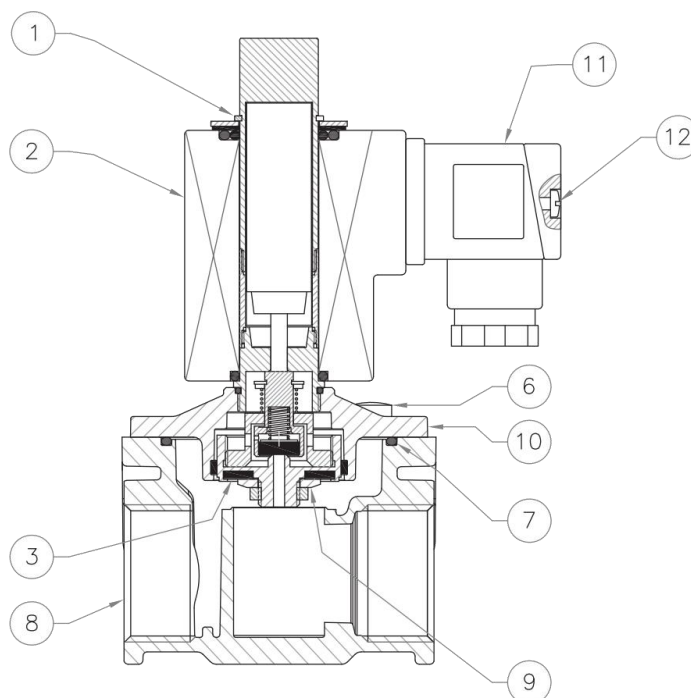
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CONSTRUCTION

N°	Item
1	Solenoid stand
2	Solenoid
3	Shutter sealing
4	BSP ¼" pressure connection
5	Bottom
6	Cover fastening screw
7	O-ring sealing
8	Body
9	Shutter
10	Cover
11	Power connector
12	Connector screw



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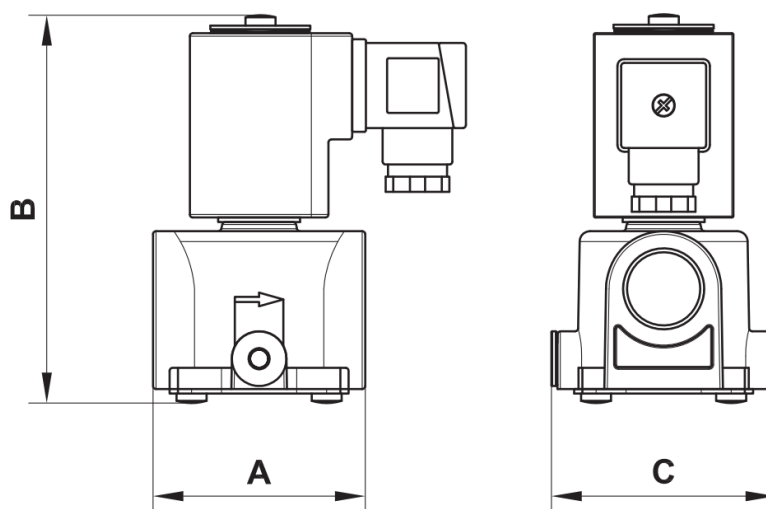
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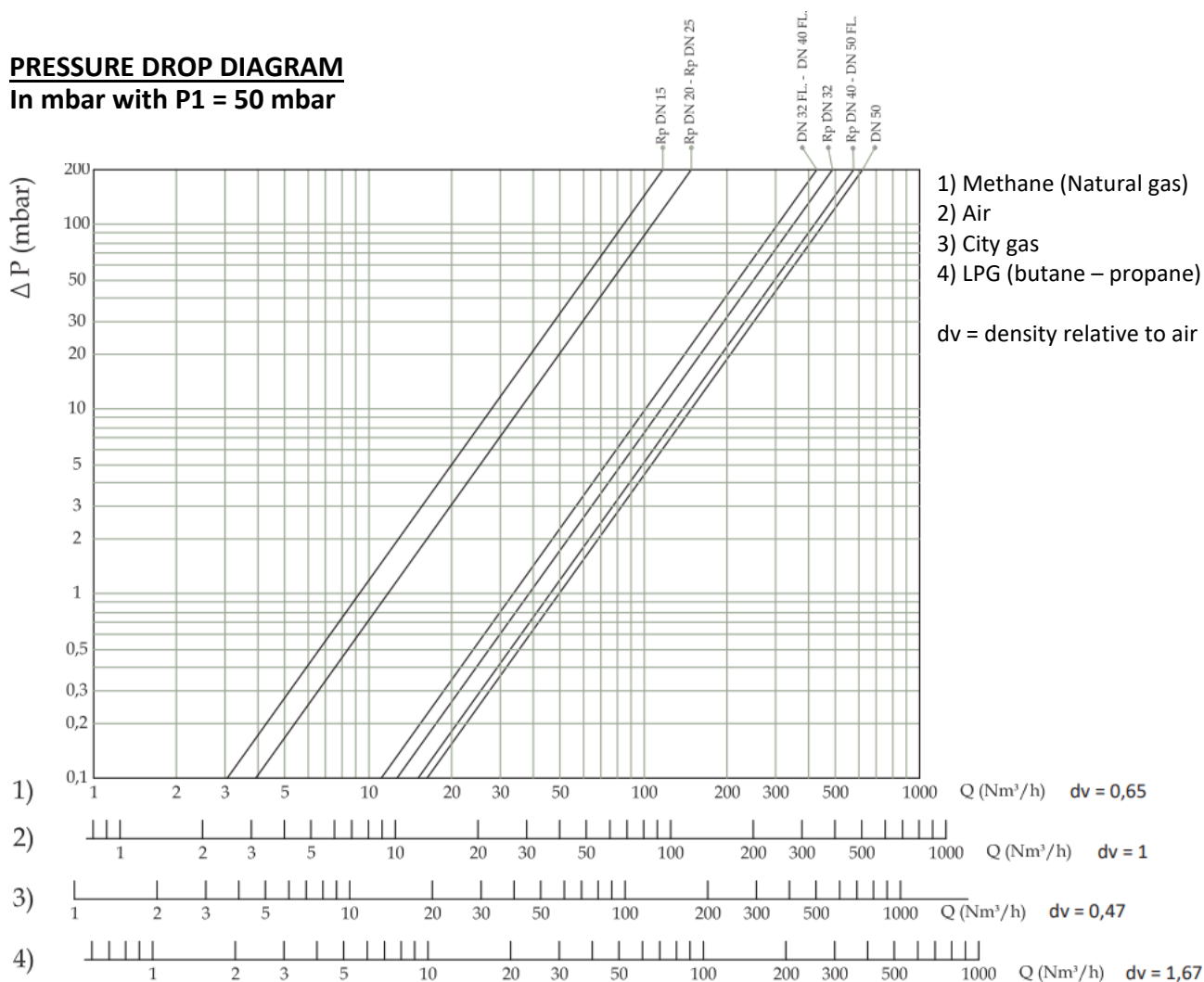
DIMENSIONS (mm)

Overall dimensions in mm			
BSP	A	B	C
1/2"	75	152	74
3/4"	75	152	74
1"	75	152	74
1"1/4"	160	250	140
1"1/2"	160	250	140
2"	160	250	140



PRESSURE DROP DIAGRAM

In mbar with P1 = 50 mbar



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