

AUTOMATIC 360 mbar GAS NC SOLENOID VALVE

SLOW ADJUSTABLE SPEED OPENING - EVPT ND 15 À 25

FEATURES

The EVPT solenoid valves are intended for the shutdown of non-corrosive combustible gas up to 360 mbar, they are closed when unenergized (normally closed) et slow adjustable speed opening when energized.

This solenoid valve is equipped with a built-in filter. Can be mounted in any position except upside down.

AVAILABLE MODELS

BSPP connections from 1/2" to 1"

DC Supply voltages: 12VDC - 24VDC

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

OPTIONAL FEATURES

1/4" pressure connection

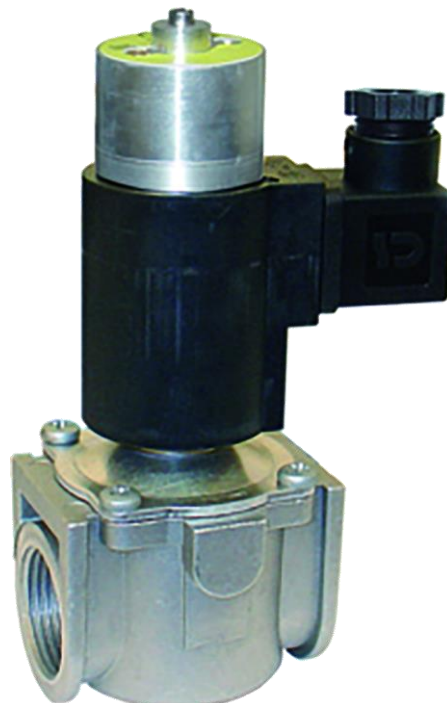
CPI position microswitch

LED connector

Flow adjustment

NPT threaded connections

Flanged connection for ND 25



LIMITS OF USE

	ND 15 to 25
Pressure rating: PS	360 mbar
Ambient temperature TS	-20°C / +60°C
Fluid temperature TS	-20°C / +60°C



WET PARTS

ND	15 - 25
Body	Aluminium EN AB 46100
Cover & bottom	Aluminium EN AB 46100
Shutter	Aluminium 11S
Sealings	NBR

DIRECTIVE AND MANUFACTURING STANDARDS

Subject	Standard	Subject	Standard
Gas regulation UE	2016/426	PED directive	Excluded
Gas standard	EN 161 class A group 2	EMC directive	2014/30/UE
Threaded connections	EN 10226	LVD directive	2014/35/UE
Flanged connections	EN 1092-1	ROHS directive	2011/65/UE

OPERATING

Closing time	< 1 sec
Adjustable opening time	0.5 to 30 sec
Max number of operations	~100/h

BUILT-IN FILTER

ND 15 to 25	1mm mesh
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Information given as an indication only, and subject to possible modifications



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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. Optional LED connector as IVP position indicator.

ELECTRICAL SPECIFICATIONS

Ø	Voltage	Solenoid code	Connector code	Absorbed power at peak	Absorbed power at full speed
1/2" - 3/4" ND 15 - ND 20	12V CC	BO-0407	CN-2101	56 VA	16 VA
	12V 50Hz	BO-0407	CN-2111	56 VA	16 VA
	24V CC	BO-0417	CN-2101	56 VA	16 VA
	24V 50Hz	BO-0417	CN-2111	56 VA	16 VA
	110V 50/60 Hz	BO-0427	CN-2121	63 VA	20 VA
	230V 50/60 Hz	BO-0437	CN-2131	54 VA	18 VA
1" ND 25	12V CC	BO-0290	CN-2101	40 VA	10 VA
	12V 50Hz	BO-0290	CN-2111	40 VA	10 VA
	24V CC	BO-0300	CN-2101	45 VA	11 VA
	24V 50Hz	BO-0300	CN-2111	45 VA	11 VA
	110V 50/60 Hz	BO-0310	CN-2121	53 VA	15 VA
	230V 50/60 Hz	BO-0320	CN-2131	55 VA	16 VA

OPTIONAL CPI SWITCH SPECIFICATIONS

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

The CPI limit switch is of the SPST NO magnetic proximity sensor type (open at rest), opening on open valve position, closing on closed valve position. Connection by DIN connector.

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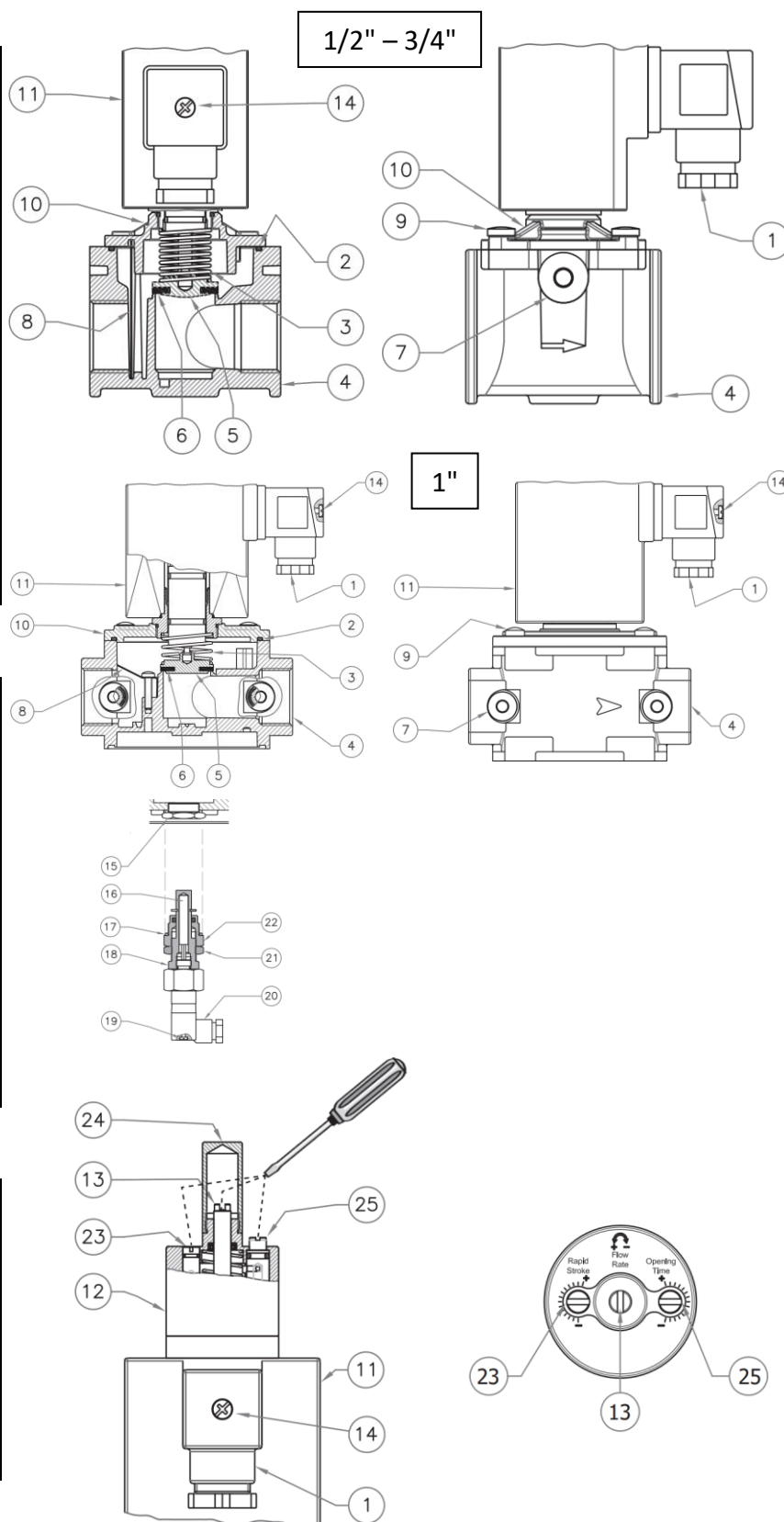
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CONSTRUCTION

N°	Item
1	Power connector
2	Sealing Oring
3	Shutting spring
4	Body
5	Shutter
6	Shutter saeling
7	BSP 1/4" pressure connection
8	Filter
9	Cover fastening screw
10	Cover
11	Solenoid
14	Connector screw

Optional CPI kit	
N°	Item
15	Cap (on versions set-up for CPI)
16	Microswitch
17	Aluminium washer
18	CPI setting ring nut
19	CPI switch connector screw
20	Connector
21	CPI fastening screw
22	CPI kit

Adjustments	
N°	Item
12	Slow opening kit
13	Optional flow adjustment
23	Optional adjustable fast stroke
24	Protection cap
25	Opening time adjustment



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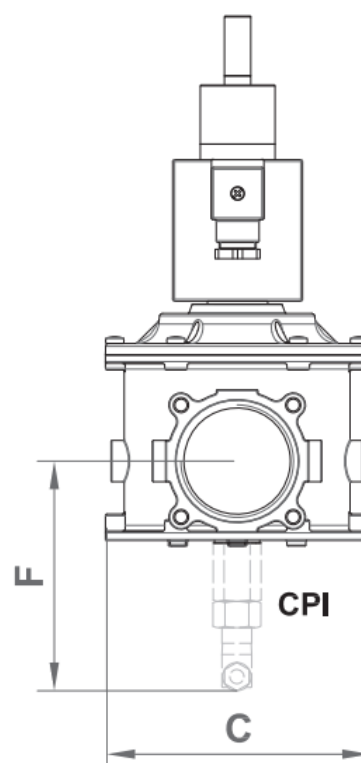
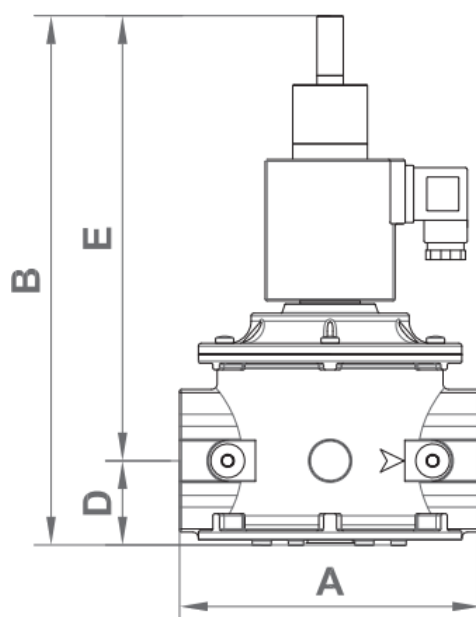
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DIMENSIONS (mm)



Overall dimensions mm						
BSP	A	B (D+E)	C	D	E	F
1/2"	75	137	75	22	115	100
3/4"	75	152	75	22	130	100
1"	75	232	75	22	210	100

SIL CLASSIFICATION

SIL LEVEL	
Parameter	Value
Hardware Failure Tolerance - HFT	0
Common Cause Failure - CCF in points	75
Safe Failure Fraction – SFF in %	65%
Expected lifetime cycles – B _{10D}	251278
Expected lifetime - T _{10D} (years)	87
Probability of dangerous failures - PFH ₀ [1/h]	1.33 ^E -07
Performance Level - PL	d
Security Integrity Level - SIL	2
Mean Time To Dangerous Failure - MTTF _D (years)	860
DESIGNED LIFETIME	
Designed operating cycles (according to EN 161)	From 100.000 to 200.000 depends on diameter
Time (years)	10

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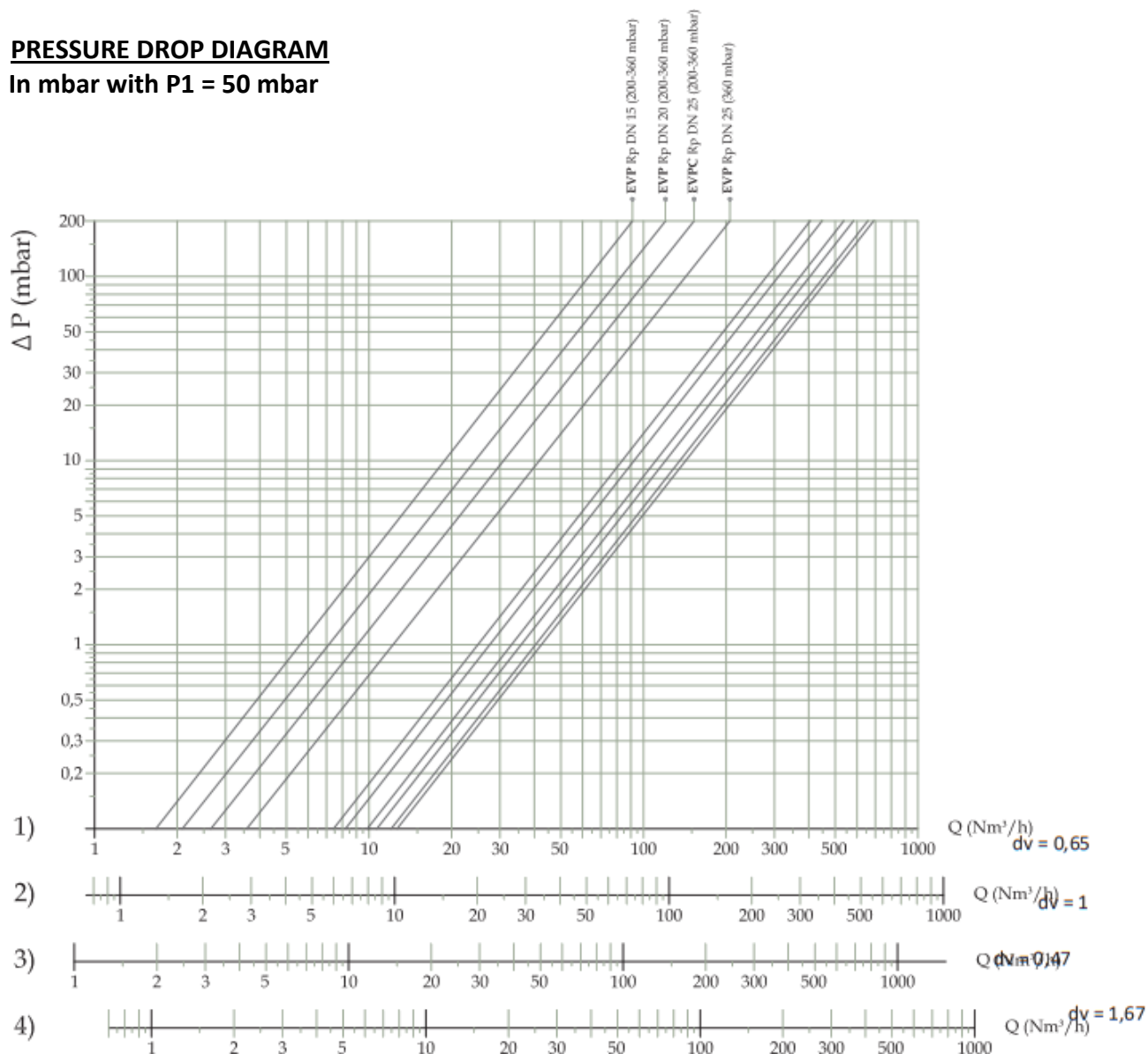
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PRESSURE DROP DIAGRAM

In mbar with P1 = 50 mbar



- 1) Methane (natural gas)
- 2) Air
- 3) City gas
- 4) LPG (butane – propane)

dv = density relative to air

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