

- > Port size: DN 25 ... 40
- > High flow rate
- > Clear, compact design
- > One-piece diaphragm
- > Simple mounting


**Twist-on®**

**Technical features**
**Medium:**

Air

**Switching function:**

Normally closed

**Operation:**

Indirectly solenoid actuated

**Flow direction:**

Determined

**Mounting position:**

Optional, preferably solenoid vertical on top

**Port size:**

DN 25, DN 40

**Operating pressure:**

0,4 ... 8 bar (5,8 ... 116 psi)

**Dusty gas temperature:**

-20 ... +85°C (-4 ... +185°F)

**Cleaning gas temperature:**

-40 ... +85°C (-40 ... +185°F)

**Ambient temperature:**

-20 ... +85°C (-4 ... +185°F)

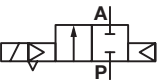
**Material:**

Body: Aluminium

Seat seal: TPE

Internal parts: TPU

**Technical data - standard models**

Symbol	Orifice (mm)	Flow kv value *1) (m³/h)	Operating pressure (bar)	Weight (kg)	Model
	25	22	0,4 ... 8	0,9	8367400.8171.xxxxx
	40	59	0,4 ... 8	2,1	8367600.8171.xxxxx

xxxxx Please insert voltage and frequency codes

\*1) Cv-value (US) ≈ kv value x 1,2

**Option selector**

8367\*\*\*.8171.\*\*\*\*\*

Port size	Substitute
25	4
40	6
Valve options	Substitute
Dusty gas temperature version -20 ... +100°C, Seat seal TPE, Ambient temperature -40 ... +85°C (-40 ... +185°F), Cleaning gas temperature -20 ... +85°C (-4 ... +185°F)	62
Dusty gas temperature version -20 ... +140°C, Seat seal TPE, Ambient temperature -40 ... +85°C (-40 ... +185°F), Cleaning gas temperature -20 ... +85°C (-4 ... +185°F)	63

Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See Voltage codes	xxx

**Standard solenoid systems**

Voltage and Frequency Solenoid 8171 *1)					
Code Voltage	Code Frequency	Voltage	Frequency	Inrush	Power consumption Holding
024	00	24 V d.c.	-	12 W	12 W
024	50	24 V a.c.	50 Hz	23 VA	16 VA
110	50	110 V a.c.	50 Hz	23 VA	16 VA
120	60	120 V a.c.	60 Hz	23 VA	16 VA
230	50	230 V a.c.	50 Hz	23 VA	16 VA

\*1)  US coil only

**Electrical details for all solenoid systems**

<b>Design</b>	DIN VDE 0580
<b>Voltage range</b>	±10%
<b>Duty cycle</b>	100% ED
<b>Protection class</b>	EN 60529 IP65
<b>Socket</b>	Form A acc. to DIN EN 175301-803 (included)

According to DIN VDE 0580 at a solenoid temperature of +20°C.  
At operating state temperature the input power of a coil decreases by up to ca. 30% due to physical reasons.

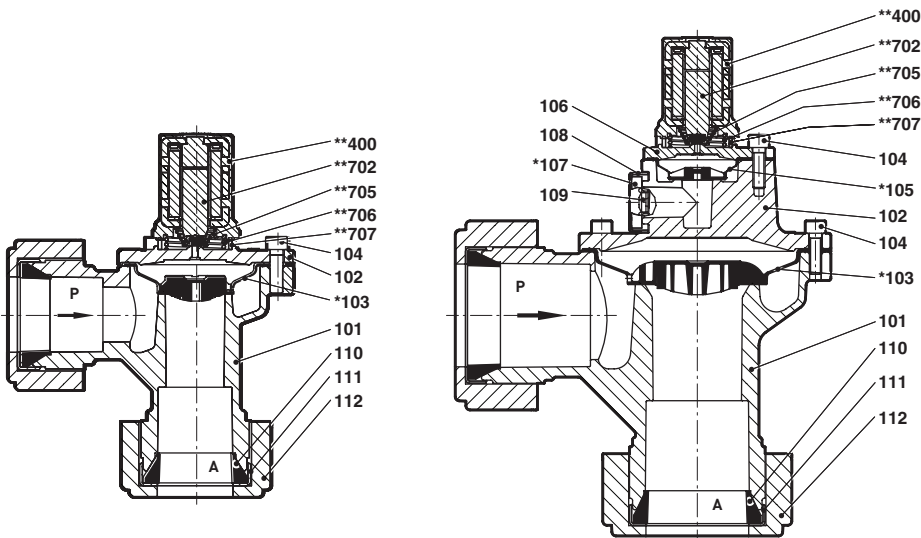


**Additional solenoid systems  
(available since April 2018)**

ATEX category	ATEX protection class	IP protection class	So-lenoid	Standard voltages	Old variant
II 2G II 2D	Ex eb mb IIC T6...T4 Gb Ex tb IIIC T130°C Db	IP66	42xx	24 V d.c., 110 V a.c., / 230 V a.c.	
II 2G II 2G II 2D	Ex d mb IIC T6/T5/T4 Gb Ex e mb IIC T6/T5/T4 Gb Ex tb IIIC T130°C/T95°C/ T80°C Db	IP66	46xx	24 V d.c., 110 V a.c., / 230 V a.c.	
II 3G II 3D	Ex nA IIB T4 Gc Ex tc IIIB T130°C Dc	IP65	8176	24 V d.c., 110 V a.c., / 230 V a.c.	
II 2G II 2D	Ex eb mb IIC T4 Gb Ex mb tb IIIB T135°C Db	IP66	6176	24 V d.c., 110 V a.c., / 230 V a.c.	8186

**Attention!**

The conditions imposed on the Ex approvals lead to reduction of the permissible standard temperature ranges in the cases of explosion protected solenoids.

**Section View**
**DN 25**
**DN 40**


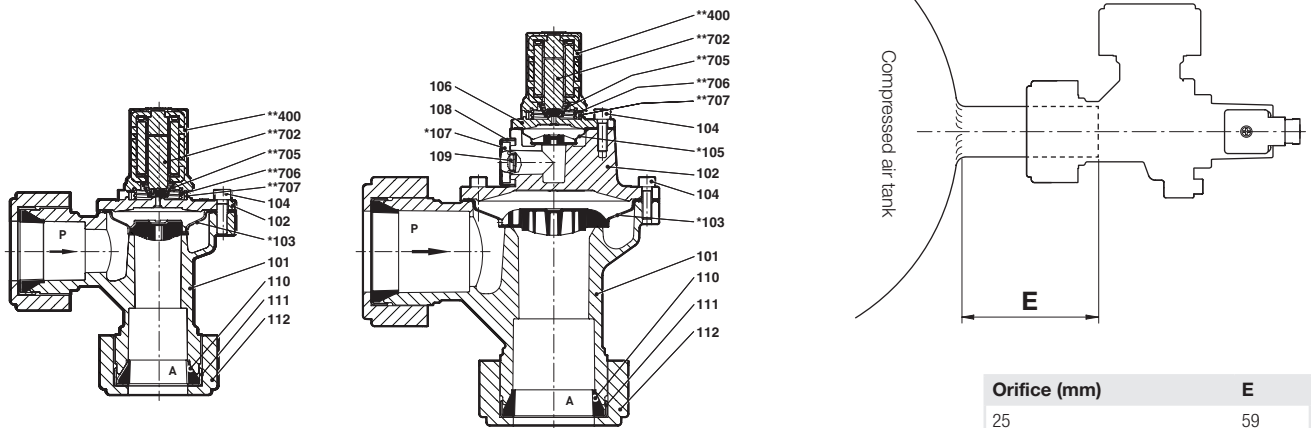
No.	Description
101	Valve body
102	Valve cover
*103	Diaphragm
104	Socket head cap screw
110	Gasket
111	Gasket socket
112	Retainer nut
**400	Solenoid
**702	Core
**705	Pressure spring
**706	Pressure spring
**707	Silencer

\*/\*\* These individual parts form a complete wearing unit.  
 When ordering spare parts please state Cat No and Series No.  
 Solenoid complete wearing unit, e.g. 8298000.8170.XXXXX for a solenoid 8170.

Dimensions

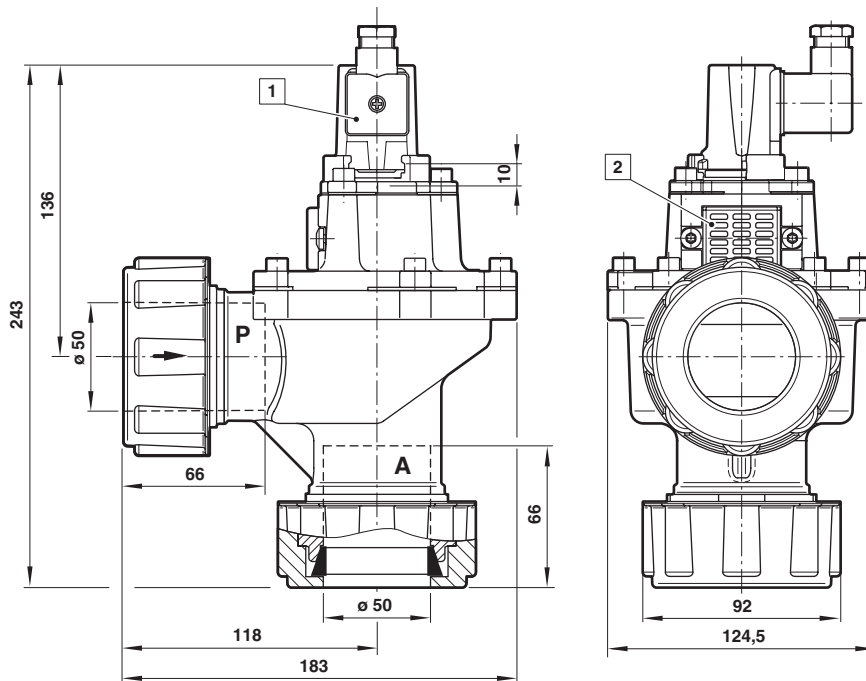
DN 25

Dimensions in mm  
Projection/First angle



Orifice (mm)	E
25	59
40	83

DN 40



- 1 Solenoid rotatable 3 x 120°  
Socket turnable 4 x 90°  
(Socket included)
- 2 Silencer

**Note to Pressure Equipment Directive (PED):**

The valves of this series are according to clause 4 § 3 of the Pressure Equipment Directive (PED) 2014/68/EU. This means interpretation and production are in accordance to engineers practice wellknown in the member countries. The CE-sign at the valve refers not to the PED. Thus the declaration of conformity is not longer applicable for this directive.

**Note to Electromagnetic Compatibility Guideline (EEC):**

The valves shall be provided with an electrical circuit which ensures the limits of the harmonised standards EN 61000-6-3 and EN 61000-6-1 are observed, and hence the requirements of the Electromagnetic Compatibility Guideline (2014/30/EU) satisfied.