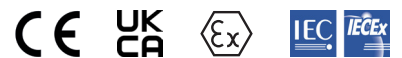


83670 2/2-way diaphragm valves

- Port size: DN 25 ... 40
- High flow rate
- Clear, compact design
- One-piece diaphragm
- Simple mounting
- Solenoid interchangeable without tools (Twist-on®)
- International approvals



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)

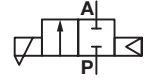
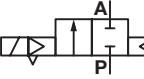
Dusty gas temperature:
–20 ... +85°C (–4 ... +185°F)

Cleaning gas temperature:
–40 ... +85°C (–40 ... +185°F)

Ambient temperature:
–20 ... +85°C (–4 ... +185°F)

Materials:
Body: Aluminium
Seat seal: TPE
Internal parts: TPU

Technical data – standard models

Symbol	Orifice (mm)	Flow kv value *1) (m³/h)	Operating pressure (bar) (psi)		Weight (kg)	Model
	25	22	0,4 ... 8	5,8 ... 116	0,9	8367400.8171.xxxxx
	40	59	0,4 ... 8	5,8 ... 116	2,1	8367600.8171.xxxxx

xxxxx Please insert voltage and frequency codes

*1) Cv-value (US) ≈ kv value x 1,2

Option selector

Port size	Substitute
25	4
40	6
Valve options	Substitute
Dusty gas temperature –20 ... +100°C (–4 ... +212°F), Seat seal TPE, Ambient temperature –40 ... +85°C (–40 ... +185°F), Cleaning gas temperature –20 ... +85°C (–4 ... +185°F)	62
Dusty gas temperature –20 ... +140°C (–4 ... +284°F), Seat seal TPE, Ambient temperature –40 ... +85°C (–40 ... +185°F), Cleaning gas temperature –20 ... +85°C (–4 ... +185°F)	63
Low temperature version Dusty gas temperature –40 ... +85°C (–40 ... +185°F), Seat seal TPE, Ambient temperature –40 ... +85°C (–40 ... +185°F), Cleaning gas temperature –40 ... +85°C (–40 ... +185°F)	71

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

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

Standard solenoid systems

Voltage and Frequency Solenoid 8171 *2)					
Code	Code	Voltage	Frequency	Power consumption	
Voltage	Frequency			Inrush	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

*2)  us only

Electrical details for all solenoid systems

Design	DIN VDE 0580
Voltage range	±10%
Duty cycle	100% ED
Protection class	EN 60529 IP65
Socket	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 for hazardous areas

ATEX category	ATEX protection class	IP protection class	Solenoid	Standard voltages
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 2D	Ex db mb IIC T4/T5 Gb Ex tb IIIC T130°C/ T95°C Db	IP66	468x	24 V d.c., 110 V a.c., 230 V a.c.
II 3G II 3D	Ex ec IIC T4 Gc Ex tc IIIC 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.

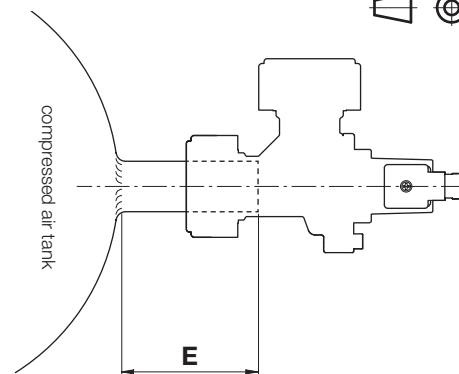
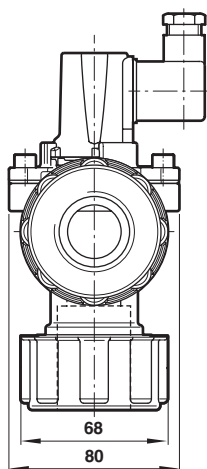
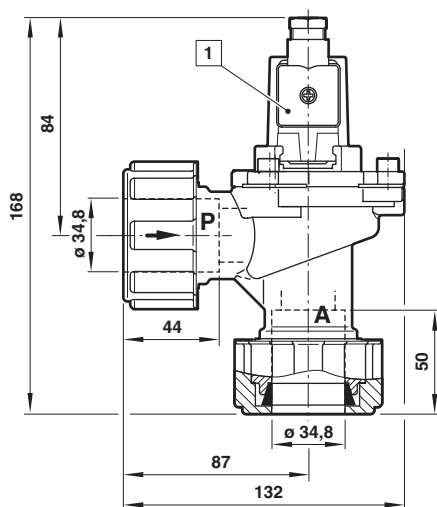
Attention!

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

Dimensions

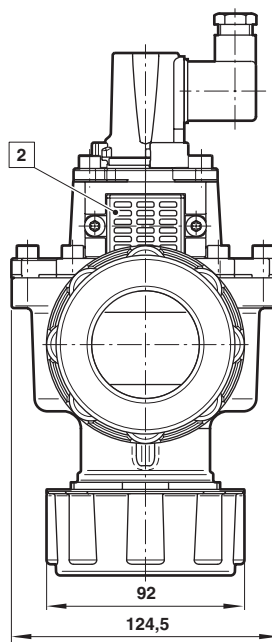
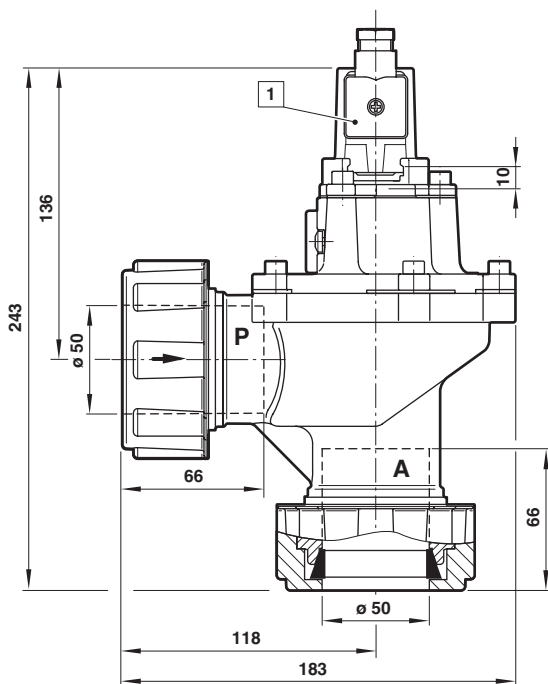
DN 25

Dimensions in mm
Projection/first angle



Orifice (mm)	E
25	59
40	83

DN 40



- 1 Solenoid rotatable 360°
Socket turnable 4 x 90°
(Socket included)
- 2 Silencer

Note to Pressure Equipment Directive (PED):

The valves of this series are according to Art. 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 does not refer 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.