

## 82560/82570 2/2-way diaphragm valves

- Port size: DN 10, 1/4 ... 1/2 (ISO G/NPT)
- Suitable for vacuum
- Compact solenoid with integrated core tube
- Valve operates without differential pressure
- International approvals



### Technical features

**Medium:**  
Slightly aggressive gases and liquids

**Switching function:**  
Normally closed

**Operation:**  
Solenoid actuated, with forced lifting

**Mounting position:**  
Optional, preferably solenoid vertical on top

**Flow direction:**  
Determined

**Port size:**  
G1/4, G3/8, G1/2, 1/4 NPT, 3/8 NPT, 1/2 NPT

**Operating pressure:**  
0 ... 10 bar (0 ... 145 psi)

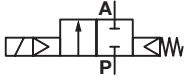
**Fluid temperature:**  
–10° ... +90°C (+14° ... +194°F)

**Ambient temperature:**  
–10° ... +50°C (+14° ... +122°F)

**Material:**  
Body: Stainless steel (1.4408), PA66  
Seat seal: NBR  
Internal parts: Stainless steel, PVDF, Sandvik 1802

For contaminated fluids insertion of a strainer is recommended.

### Technical data – standard models

Symbol	Port size	Orifice (mm)	Valve length (mm)	Flow kv value *1) (m <sup>3</sup> /h)	Operating pressure *2)		Weight (kg)	Model	
					(bar)	(psi)		Solenoid in V d.c.	Solenoid in V a.c.
	G1/4	10	44	1,5	0 ... 10	0 ... 145	0,5	8256000.8001.xxxxx	8256000.8004.xxxxx
	1/4 NPT	10	44	1,5	0 ... 10	0 ... 145	0,5	8257000.8001.xxxxx	8257000.8004.xxxxx
	G3/8	10	44	1,7	0 ... 10	0 ... 145	0,5	8256100.8001.xxxxx	8256100.8004.xxxxx
	3/8 NPT	10	44	1,7	0 ... 10	0 ... 145	0,5	8257100.8001.xxxxx	8257100.8004.xxxxx
	G1/2	10	60	1,7	0 ... 10	0 ... 145	0,6	8256200.8001.xxxxx	8256200.8004.xxxxx
	1/2 NPT	10	60	1,7	0 ... 10	0 ... 145	0,6	8257200.8001.xxxxx	8257200.8004.xxxxx

xxxxx Please insert voltage and frequency codes

\*1) Cv-value (US) ≈ kv value x 1,2

\*2) For gases and liquid fluids up to 25 mm<sup>2</sup>/s (cSt)

### Option selector

Thread form	Substitute
ISO G	6
NPT	7
Port size	Substitute
1/4	0
3/8	1
1/2	2
Valve options	Substitute
Normally open (NO) only with solenoid 8027 (a.c.) or 8029 (d.c.)	01
Seat seal FPM, for fuel and oil, Fluid temperature -5 ... +110°C (+23 ... +230°F)	03
Seat seal EPDM, for hot water, Fluid temperature +110°C	14
Degreased version, Seat seal FPM, Fluid temperature -5 ... +110°C (+23 ... +230°F), with solenoid 8041: Fluid temperature -5 ... +80°C (+23 ... +176°F)	18
Operating pressure 0 ... 20 bar (0 ... 290 psi), only for NBR and a.c. solenoid, only ATEX category 3 possible	22
Seat seal HNBR, for hot water and steam, Operating pressure 0 ... 6 bar (0 ... 87 psi), Fluid temperature 0 ... +150°C (32 ... +302°F) Solenoid vertical under- neath: up to max. +60°C ambient temperature permitted	51

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Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See table voltage codes	xxx
Solenoid options	Substitute
Solenoid in V d.c.	1
Solenoid in V a.c. with rectifier plug	4

### Standard solenoid systems

Voltage and Frequency Solenoid 8001/8004					
Code	Code	Voltage	Frequency	Power consumption	
Voltage	Frequency			Inrush	Holding
024	00	24 V d.c.	-	12 W	12 W
024	49	24 V a.c. *3)	40 ... 60 Hz	13 VA	13 VA
110	49	110 V a.c. *3)	40 ... 60 Hz	13 VA	13 VA
120	49	120 V a.c. *3)	40 ... 60 Hz	13 VA	13 VA
230	49	230 V a.c. *3)	40 ... 60 Hz	13 VA	13 VA

\*3) A.c. only with rectifier plug

Further versions on request!

### 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	Ex eb mb IIC T3 Gb	IP66	6200	24 V d.c., 110 V a.c., 230 V a.c.
II 2D	Ex mb tb IIIB T150°C Db			

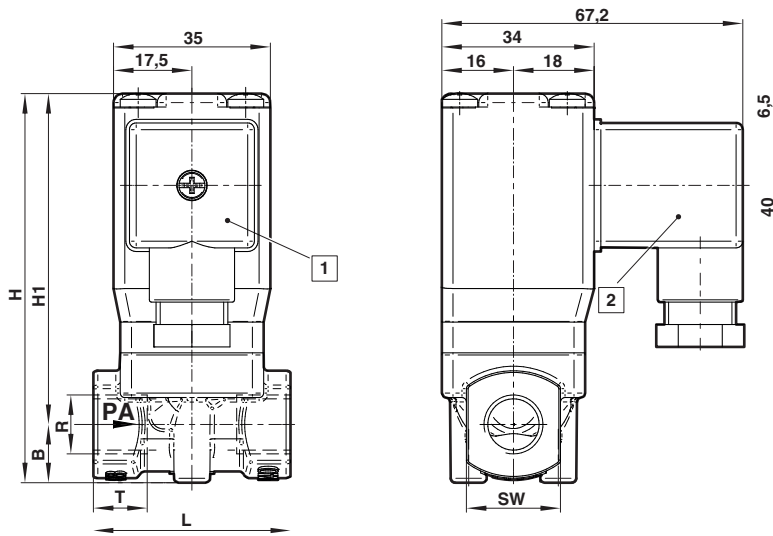
#### Attention!

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

## Dimensions

G1/4 ... 1/2  
1/4 ... 1/2 NPT

Dimensions in mm  
Projection/first angle



1+2 Solenoid\* and Socket  
turnable 4 x 90°

\*Look for right position of  
core, spring and O-ring!  
(Socket included)

Port size R	B	H	H1	L		T	Model
G1/4	12,5	85,5	73	44	21	12	8256000.800x.xxxxx
1/4 NPT	12,5	85,5	73	44	21	10	8257300.800x.xxxxx
G3/8	12,5	85,5	73	44	21	12	8256100.800x.xxxxx
3/8 NPT	12,5	85,5	73	44	21	10	8257100.800x.xxxxx
G1/2	14	88,5	74,5	60	27	15	8256200.800x.xxxxx
1/2 NPT	14	88,5	74,5	60	27	13	8257200.800x.xxxxx

### 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.

### Note to EAC marking:

The EAC-marked products comply with the applicable requirements stated in the technical regulations of the Eurasian Economic Union.