

## 2/2-way valves DN 10

For slightly aggressive gases and liquids  
Solenoid actuated, with forced lifting  
Diaphragm valves  
Internal threads G 1/4 to G 1/2 or 1/4 NPT to 1/2 NPT  
Operating pressure 0 to 10 bar

82560

82570

### Description (standard valve)

Solenoid valve for slightly aggressive gases and liquids

Switching function:	normally closed
Flow direction:	determined
Fluid temperature:	-10 °C up to max. +90 °C
Ambient temperature:	-10 °C up to max. +50 °C
Mounting position:	optional, preferably solenoid vertical on top

### Material

Body:	Stainless steel (1.4408), PA 66
Seat seal:	NBR
Internal parts:	Stainless steel, PVDF, Sandvik 1802

**Stainless Steel**

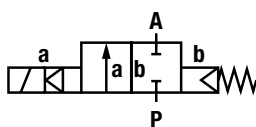


For contaminated fluids insertion of a strainer is recommended (see **Buschjost** accessories).

### Features

- Suitable for vacuum
- Clear design
- Compact solenoid with integrated core tube
- Valve operates without differential pressure

### Symbol



### Ordering information

To order, quote model number from table overleaf, e.g. 8256200.8001 for a DN 10 valve.

## Characteristic data

### Valves

Part Number Solenoid with ==	Part Number Solenoid with ~	Nominal Diameter (mm)	Conneczion size	Valve length (mm)	Operating Pressure *		k <sub>v</sub> -value ** (Base m <sup>3</sup> /h)	Weight (kg)
					min. (bar)	max. (bar)		
8256000.8001 8257000.8001	8256000.8004 8257000.8004	10	G 1/4 1/4 NPT	44	0	10	1.5	0.5
8256100.8001 8257100.8001	8256100.8004 8257100.8004	10	G 3/8 3/8 NPT	44	0	10	1.7	0.5
8256200.8001 8257200.8001	8256200.8004 8257200.8004	10	G 1/2 1/2 NPT	60	0	10	1.7	0.6

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

State voltage [V] and frequency [Hz]

\*\* C<sub>v</sub>-value (US) ≈ k<sub>v</sub>-value x 1,2

## Solenoid 8001 / 8004

### Standard voltage

DC ==	AC ~ 40 Hz to 60 Hz	
	24 V	–
24 V	24 V	–
–	110 V	120 V
–	230 V	220 V

Design acc. to DIN VDE 0580

Voltage range ±10 %

100 % duty cycle

Protection class acc. to EN 60529 IP65

Socket Form A acc. to DIN EN 175301-803 (included)

AC with rectifier plug

## Power Consumption

According to DIN VDE 0580 at coil temperature of +20 °C. In operation the power consumption of the solenoid decreases by approx. 30 %.

Solenoid	DC ==	AC ~	
		Inrush	Holding
8001	12 W		
8004		13 VA	13 VA

### Attention!

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

## Further options (Valves)

XXXXX03.XXXX Seat seal FPM,  
for fuel ad oil,  
max. fluid temperature +110 °C

XXXXX14.XXXX Seat seal EPDM,  
for hot water,  
max. fluid temperature +110 °C

XXXXX51.XXXX Seat seal HNBR,  
for steam,  
max. fluid temperature +150 °C,  
max. operating pressure 6 bar

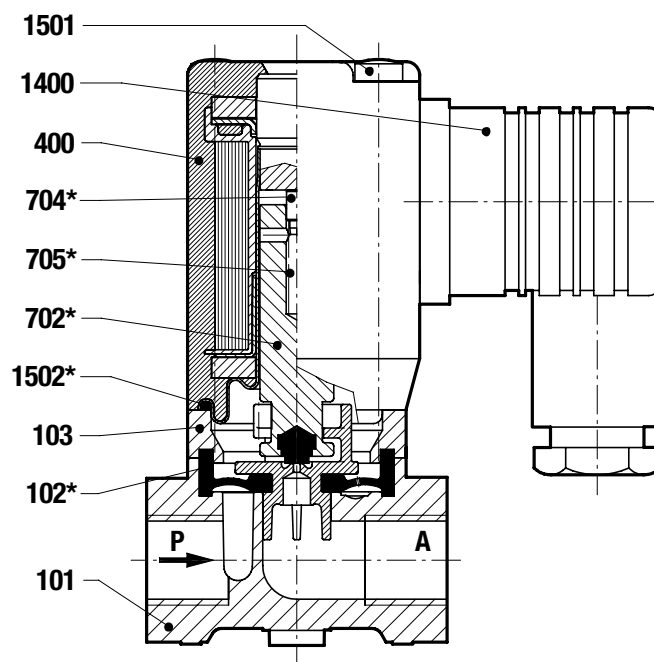
On request Further versions

## Further options (Solenoids)

XXXXXXXX.8041 Solenoid in protection class  
Ex II 2 GD EEx me II T3 T 140 °C

On request Further versions

## Section View

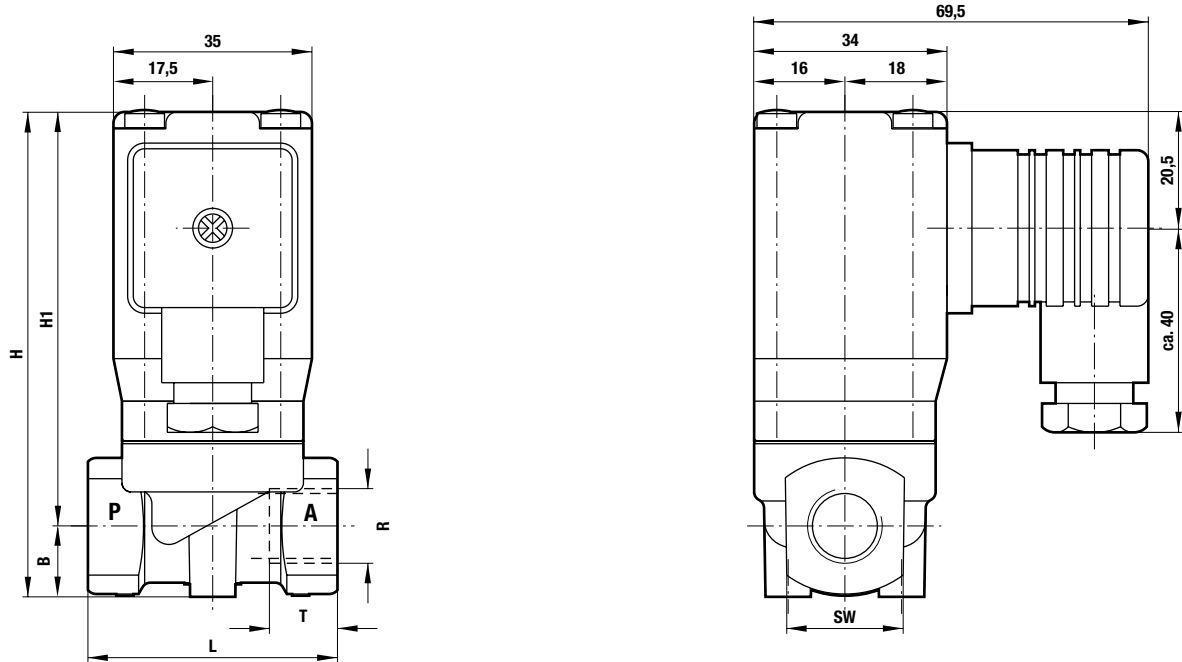


- 101 Valve body
- \*102 Diaphragm
- 103 Spacer
- 400 Solenoid
- \*702 Plunger
- \*704 Guiding pin
- \*705 Pressure spring
- 1400 Electrical connector (included)
- 1501 Oval head cap screw
- \*1502 O-ring

\* These individual parts form a complete wearing unit.  
 When ordering spare parts please state Cat No and Series No.

### General Dimensions

Solenoid rotatable 360°  
 Socket turnable 4 x 90°  
 (Socket included)



Part number	Nominal diameter (mm)	Connection size	B (mm)	H (mm)	H1 (mm)	L (mm)	SW (mm)	T (mm)
8256000.800x 8257000.800x	10	G 1/4 1/4 NPT	12.5	85.5	73.0	44	21	12 10
8256100.800x 8257100.800x	10	G 3/8 3/8 NPT	12.5	85.5	73.0	44	21	12 10
8256200.800x 8257200.800x	10	G 1/2 1/2 NPT	14.0	88.5	74.5	60	27	15 13

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

The valves of this series are according to Art. 3 § 3 of the Pressure Equipment Directive (PED) 97/23/EG. 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 Guideline (2004/108/EC) satisfied.