

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

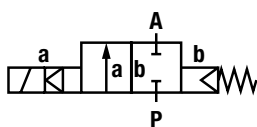


For contaminated fluids insertion of a strainer is recommended (see **Buschjost** accessories).

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 _v -value ** (Base m ³ /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 mm²/s (cSt)

State voltage [V] and frequency [Hz]

** C_v-value (US) ≈ k_v-value x 1,2

Solenoid 8001 / 8004

Standard voltage

DC ==	AC ~ 40 Hz to 60 Hz	
	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

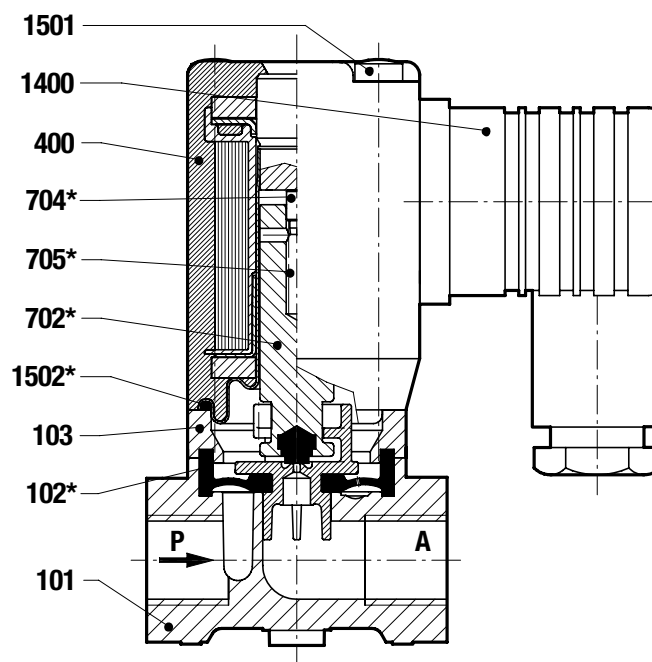
On request Further versions

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

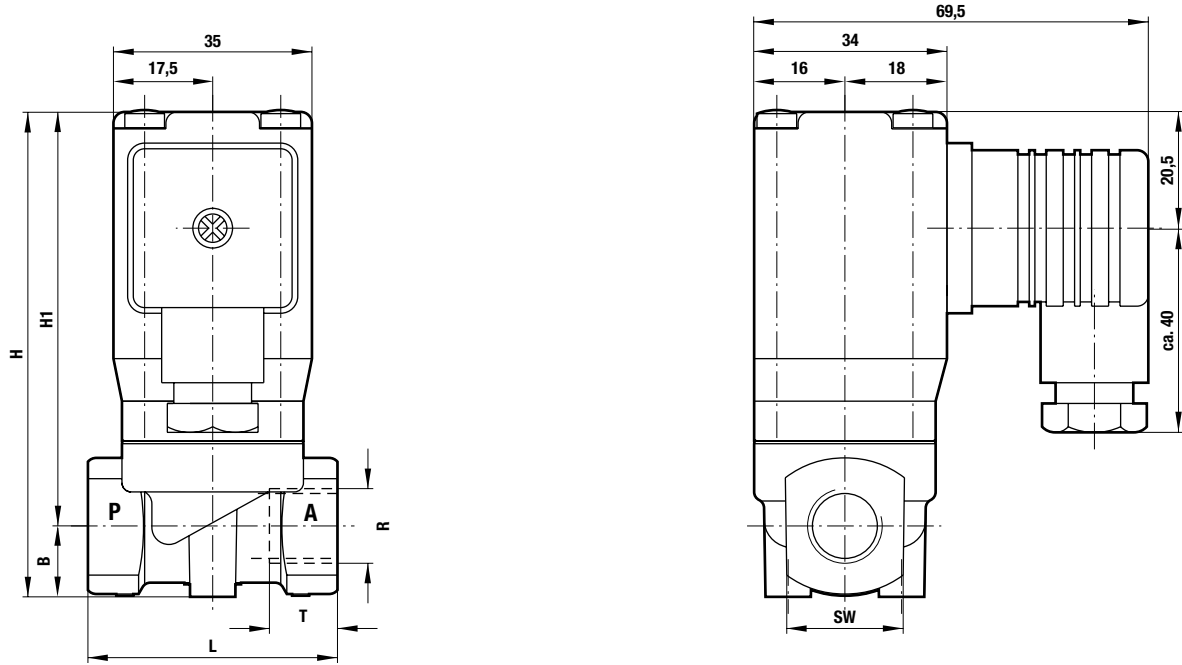


- 101 Valve body
- *102 Diaphragm
- 103 Spacer
- 400 Solenoid
- *702 Plunger
- *704 Guiding pin
- *705 Pressure spring
- 1400 Electrical connector (included)
- 1501 Oval head cap screw
- *1502 O-ring

* 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.