

2/2-way valves DN 10

for neutral gaseous and liquid fluids

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

82 530

82 630

Description (standard valve)

Solenoid valve for e.g. air, water, oil

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:	Brass, PA 66
Seat seal:	NBR (Perbunan)
Internal parts:	1.4104, 1.4303, PVDF

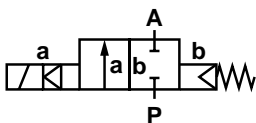


For contaminated fluids insertion of a strainer is recommended (see accessories).

Features

- Suitable for vacuum
- Clear design
- Compact solenoid with integrated core tube
- Valve operates without pressure differential (Δp)
- Operating pressure 0 – 20 bar with AC and NBR sealing

Symbol



Ordering information

To order, quote model number from table overleaf, e.g. 82 532 00.8001 for a G 1/2 valve with standard solenoid.

Characteristic data

See page 2 valve and solenoid informations

Characteristic data

Valves

Part Number with DC or AC solenoid	Nominal Diameter (mm)	Port size	Valve length (mm)	Operating Pressure *		kv-value † (Base m ³ /h)	Weight (kg)
				min	max (bar)		
82 530 00.8001 82 630 00.8001	10	G 1/4 1/4" NPT	44	0	10	1,50	0,50
82 531 00.8001 82 631 00.8001	10	G 3/8 3/8" NPT	44	0	10	1,70	0,50
82 532 00.8001 82 632 00.8001	10	G 1/2 1/2" NPT	60	0	10	1,70	0,60

* with gaseous and liquid fluids up to 25 mm²/s (cSt)

State voltage [V] and frequency [Hz]

† C_v-value (US) ≈ kv-value x 1,2

8001 Solenoid

Standard voltages

DC	AC	
	50 Hz	60 Hz
24 V	24 V	-
-	110 V	120 V
205 V	230 V	220 V

Design acc. to VDE 0580

Voltage range ±10 %

100 % duty cycle

Protection class acc. to EN 60529 IP 65 (previous DIN 40050)

Socket acc. to DIN 43 650-A Pg9 (included)

Power Consumption

According to VDE 0580 at coil temperature +20 °C. In operating the solenoid coil decrease the power consumption appr. 30 %.

DC	AC	
	Inrush	Holding
12 W	20 VA	16 VA

For technical details see catalog-register "Solenoids"

Options

available at extra cost

Valves

- XX XXX 03.XXXX Seat seal FKM, max. fluid temperature +110 °C
- XX XXX 14.XXXX Seat seal EPDM, for hot water, max. fluid temperature +110 °C
- XX XXX 18.XXXX Degreased version, seat seal FKM
- XX XXX 22.XXXX Operating pressure 0 up to 20 bar, only for NBR and AC solenoid
- XX XXX 51.XXXX Seat seal HNBR, for hot water and steam, fluid temperature 0 °C up to max. +150 °C, operating pressure 0 – 6 bar

On request

Further versions
body with fastening thread 2x M5

Options

available at extra cost

Solenoids

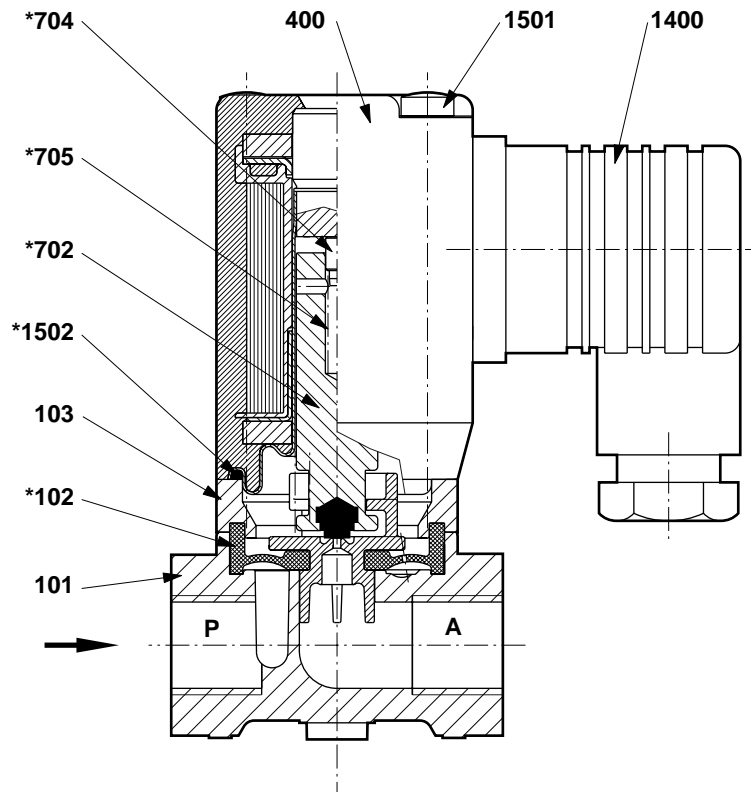
- XX XXX XX.8004 DC solenoid with rectifier for AC only
- XX XXX XX.8041 Solenoid in protection class EEx me II T3

On request

Further versions

Section View

Solenoid rotated by 90° in drawing

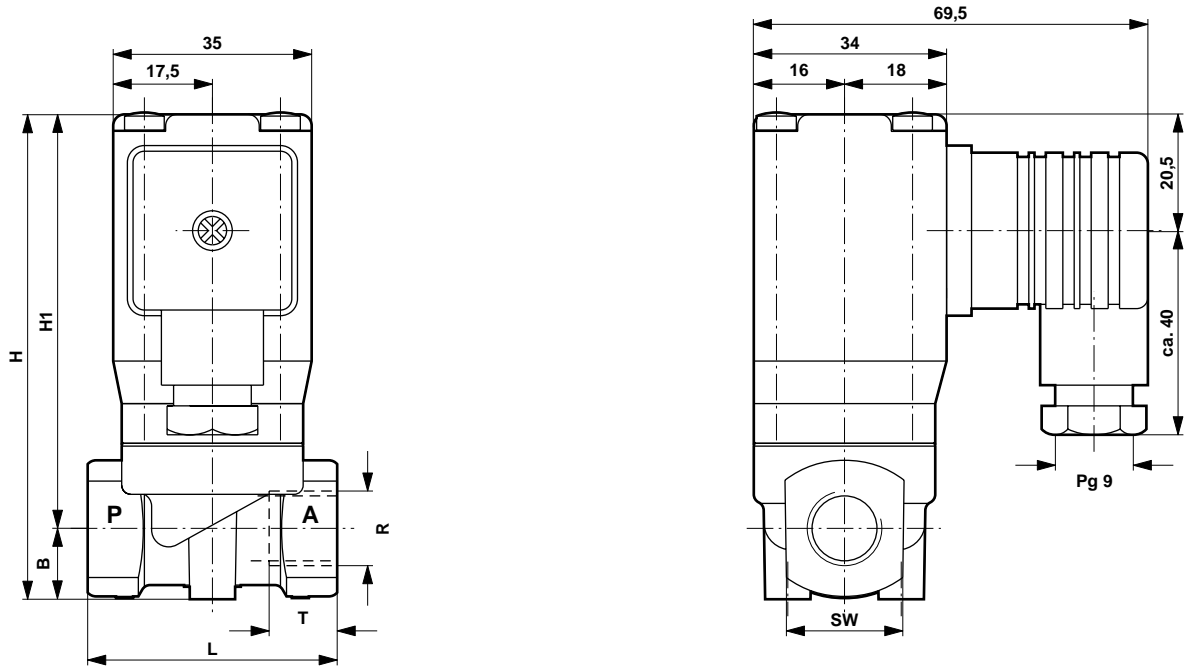


- 101 Valve body
- *102 Diaphragm
- 103 Spacer
- 400 Solenoid
- *702 Core
- *704 Guide pin
- *705 Pressure spring
- 1400 Socket
- 1501 Oval head cap screw
- *1502 O-ring

* These individual parts form a complete wearing unit.
When ordering spare parts please state Cat no and series no.

General Dimensions

Socket turnable 4 x 90°



Part Number	L	H	H1	B	SW	R	T
82 530 00.8001	44	85,5	73	12,5	21	G 1/4 1/4" NPT	12,0
82 630 00.8001							10,0
82 531 00.8001	44	85,5	73	12,5	21	G 3/8 3/8" NPT	12,0
82 631 00.8001							10,0
82 532 00.8001	60	79,5	75,5	12,5	27	G 1/2 1/2" NPT	15,0
82 632 00.8001							13,0

EU Manufacturer's Declaration
as defined in EU Machinery Guideline 89/392/EEC, Appendix II B
We hereby declare that the diaphragm valves were developed and designed
using the following harmonised standards:

- EN 292 Machine Safety
- EN 983 Pneumatic Systems
- EN 60204-1 Electrical Equipment for Machinery

Note
These diaphragm valves are intended for fitting in a machine. They must not
be commissioned until it has been established that the machine as a whole
conforms to the EU guideline.

Note on EU guideline
The valves shall be provided with an electrical circuit which ensures the limits
of the harmonised standards EN 50081-1 and EN 50082-1 are observed, and
hence the requirements of the Electromagnetic Compatibility Guideline
(89/336/EEC) satisfied.