2/2-way valves DN 8 to DN 25

for neutral gaseous and liquid fluids
Solenoid actuated, with forced lifting
Diaphragm valves
Internal threads G 1/4 to G 1 or 1/4" NPT to 1" NPT
Operating pressure 0 to 8/16 bar

82350
82650

OBSOLETE DOCUMENT
Technical Reference Only

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

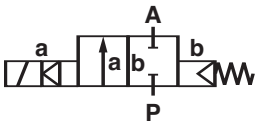
Body:	Brass
Seat seal :	NBR
Internal parts :	1.4104, 1.4301, 1.4310, Brass, PVDF

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

Features

- Valve operates without differential pressure (Δp)
- High flow rate
- Easily interchangeable solenoid
- Suitable for vacuum

Symbol



Ordering information

To order, quote model number from table overleaf, e.g. 8235000.9301 for a G 1/4 valve with standard solenoid.

Characteristic data

See page 2 valve and solenoid informations

Detmolder Strasse 256
D-32545 Bad Oeynhausen

PO Box 10 02 52-53
D-32502 Bad Oeynhausen

Phone ++49 5731 / 7 91-0
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http://www.buschjost.com
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Characteristic data

Valves

Part Number with DC or AC solenoid	Nominal Diameter (mm)	Port size	Operating Pressure DC * min	max (bar)	Operating Pressure AC * min	max (bar)	kv-value ** (Base m³/h)	Weight (kg)
8235000.9301 8265000.9301	8	G 1/4 1/4" NPT	0	8	0	16	1.90	1.00
8235100.9301 8265100.9301	10	G 3/8 3/8" NPT	0	8	0	16	2.60	0.90
8235200.9301 8265200.9301	12	G 1/2 1/2" NPT	0	8	0	16	3.20	0.90
8235300.9301 8265300.9301	20	G 3/4 3/4" NPT	0	8	0	16	7.00	1.55
8235400.9301 8265400.9301	25	G 1 1" NPT	0	8	0	16	8.00	1.45

* with gaseous and liquid fluids up to 25 mm²/s (cSt)
** C_V-value (US) ≈ k_V-value x 1,2

State voltage [V] and frequency [Hz]

9301 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 DIN VDE 0580
Voltage range ±10 %
100 % duty cycle
Protection class acc. to EN 60529 IP 65 (previous DIN 40050)
Socket acc. to DIN EN 175301-803A

Power Consumption

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

DC	AC Inrush	Holding
18 W	106 VA	35 VA

Attention:

Restricted temperature range for explosion proof solenoids.

For technical details see catalogue-register "Solenoids"

Options (Valves)

XX XXX **03.**XXXX Seat seal FPM, max. fluid temperature +110 °C

XX XXX **14.**XXXX Seat seal EPDM, for hot water, max. fluid temperature +110 °C

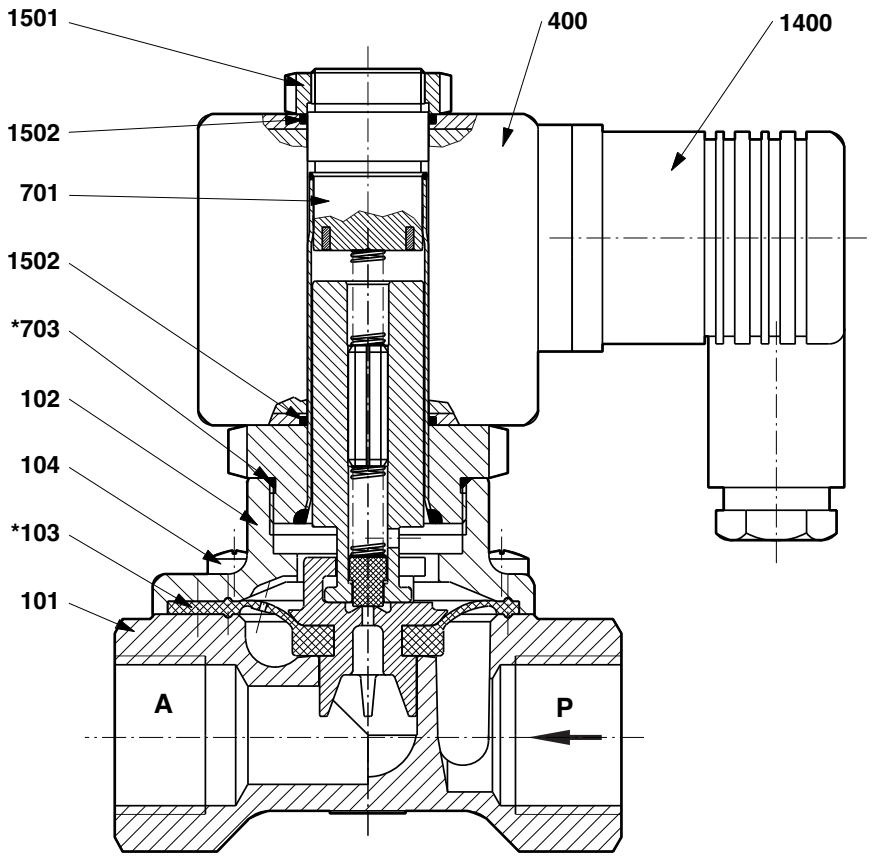
On request Further versions

Options (Solenoids)

XX XXX XX**.9356** Protection class ⟨Ex⟩ II 2 GD EEx me II T3 T 140°C, max. 8 bar

On request Further versions

Section View

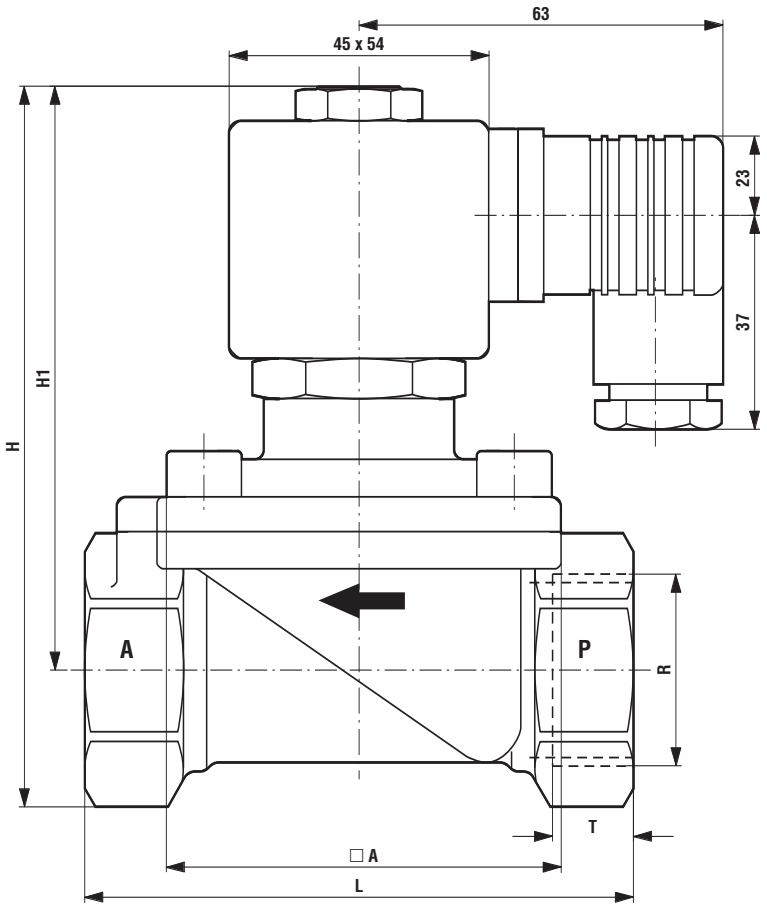


101	Valve body
102	Valve cover
*103	Diaphragm, complete
104	Oval head cap screw up to G 1/2 (1/2" NPT) Socket head cap screw from G 3/4 (3/4" NPT)
400	Solenoid
701	Core tube
*703	O-ring
1400	Socket
1501	Hexagon nut
1502	O-ring

* 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°



Part Number	□ A	H	H1	L	R	T
8235000.9301 8265000.9301	44	105	90	67	G 1/4 1/4" NPT	12.0 10.0
8235100.9301 8265100.9301	44	105	90	67	G 3/8 3/8" NPT	12.0 10.5
8235200.9301 8265200.9301	44	105	90	67	G 1/2 1/2" NPT	14.0 13.5
8235300.9301 8265300.9301	70	130	105	95	G 3/4 3/4" NPT	12.5 14.0
8235400.9301 8265400.9301	70	130	105	95	G 1 1" NPT	14.0 17.0

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 50081-1 and EN 50082-1 are observed, and hence the requirements of the Electromagnetic Compatibility Guideline (89/336/EEC) satisfield.