2/2-way valves DN 1.5 to DN 5.0

for neutral gaseous and liquid fluids
Directly solenoid actuated
Seat valve
Internal threads G 1/8 to G 3/8
Operating pressure 0 to 40 bar, see table page 2

Click-on®

Description (standard valve)

Solenoid valve for e.g. air, water

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

Material

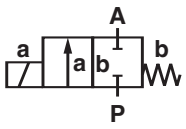
Body:	Brass
Seat seal:	NBR
Internal parts:	Stainless steel, Brass

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

Features

- Suitable for vacuum
- High flow rate
- Simple, compact design
- Body with fastening thread M5 as standard
- Solenoid interchangeable without tools (Click-on®)
- Valve operates without pressure differential (Δp)

Symbol



Ordering information

To order, quote model number from table overleaf, e.g. 8251800.9101 for a G 1/8 valve with standard solenoid.

Characteristic data

See page 2 valve and solenoid information

Detmolder Strasse 256
D-32545 Bad Oeynhausen

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

Phone ++49 5731 / 7 91-0
Fax ++49 5731 / 791-179

http://www.buschjost.com
mail@buschjost.de

Characteristic data

Valves normally closed

Part Number with DC or AC solenoid	Nominal Diameter (mm)	Port size	Operating pressure * min	max (bar)	kv-value ** (Base m³/h)	Weight (kg)
8251800.9101	1.5	G 1/8	0	25	0.07	0.33
8251000.9101	1.5	G 1/4	0	25	0.07	0.33
8251100.9101	1.5	G 3/8	0	25	0.07	0.33
8251820.9101	2.5	G 1/8	0	10	0.15	0.33
8251020.9101	2.5	G 1/4	0	10	0.15	0.33
8251120.9101	2.5	G 3/8	0	10	0.15	0.33
8251820.9151	2.5	G 1/8	0	40	0.15	0.57
8251020.9151	2.5	G 1/4	0	40	0.15	0.57
8251120.9151	2.5	G 3/8	0	40	0.15	0.57
8251840.9101	3.0	G 1/8	0	4	0.21	0,33
8251040.9101	3.0	G 1/4	0	4	0.21	0,33
8251140.9101	3.0	G 3/8	0	4	0.21	0.33
8251840.9151	3.0	G 1/8	0	20	0.21	0.57
8251040.9151	3.0	G 1/4	0	20	0.21	0.57
8251140.9151	3.0	G 3/8	0	20	0.21	0.57
8251860.9151	4.0	G 1/8	0	12	0.35	0.57
8251060.9151	4.0	G 1/4	0	12	0.35	0.57
8251160.9151	4.0	G 3/8	0	12	0.35	0.57
8251880.9151	5.0	G 1/8	0	6	0.50	0.57
8251080.9151	5.0	G 1/4	0	6	0.50	0.57
8251180.9151	5.0	G 3/8	0	6	0.50	0.57

Valves normally open

8251001.9101	1.5	G 1/4	0	16	0.07	0.33
8251021.9101	2.5	G 1/4	0	6	0.15	0.33
8251021.9151	2.5	G 1/4	0	25	0.15	0.57
8251041.9101	3.0	G 1/4	0	3	0.21	0.33
8251041.9151	3.0	G 1/4	0	16	0.21	0.57
8251061.9151	4.0	G 1/4	0	8	0.35	0.57

* 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]

9101/9151 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 IP65
Socket acc. to DIN EN 175301-803 (included)

Power Consumption

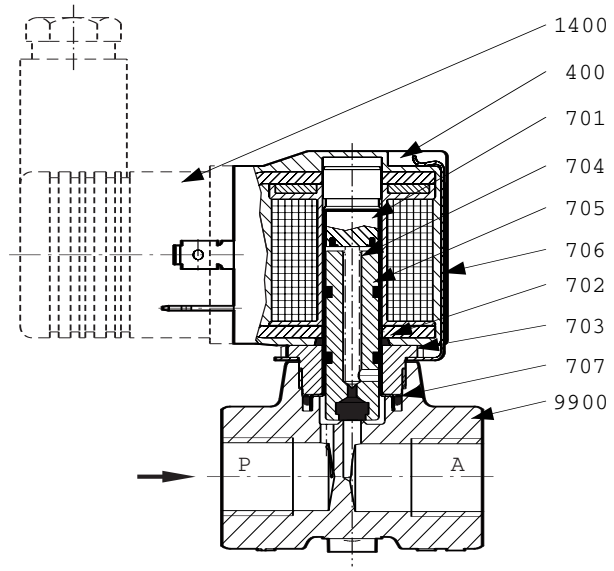
According to DIN VDE 0580 at coil temperature +20°C. In operating the solenoid coil decrease the power consumption appr. 30%.

DC	AC Inrush	Holding
9101 8 W	15 VA	12 VA / 7 W
9151 18 W	45 VA	35 VA / 17 W

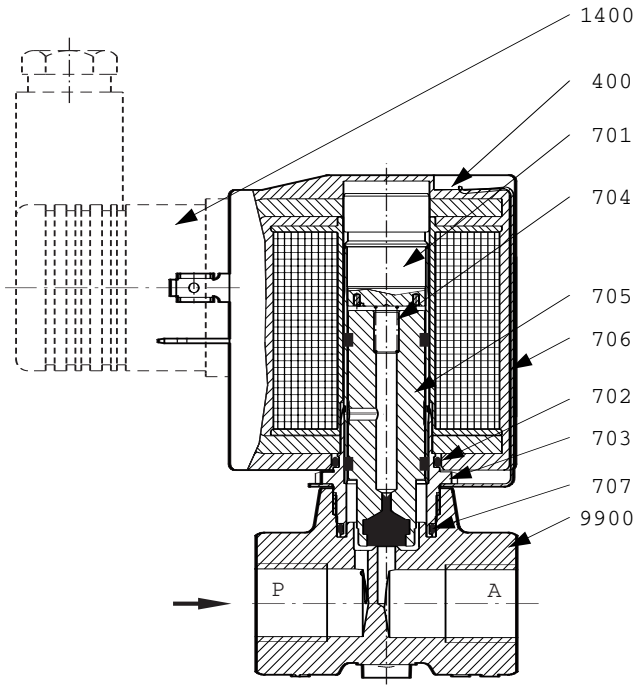
For technical details see catalogue-register »Solenoids«.

Section View

with solenoid 9101



with solenoid 9151



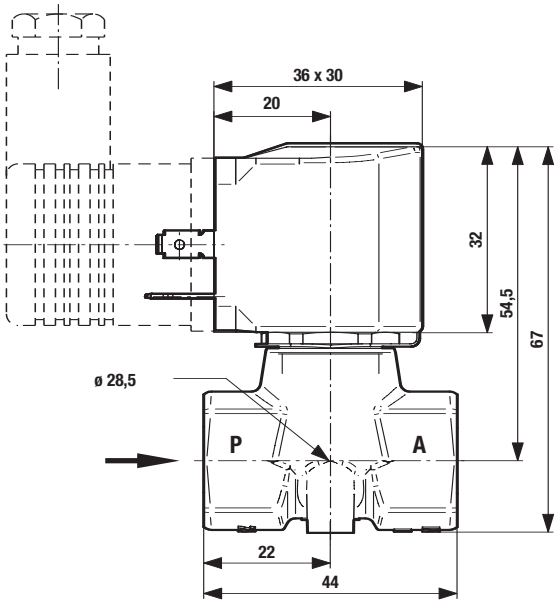
400	Solenoid
701	Core tube
*702	O-ring
703	Screw piece
*704	Pressure spring
*705	Core
706	Spring clip
*707	O-ring
1400	socket (included)
9900	Valve body

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

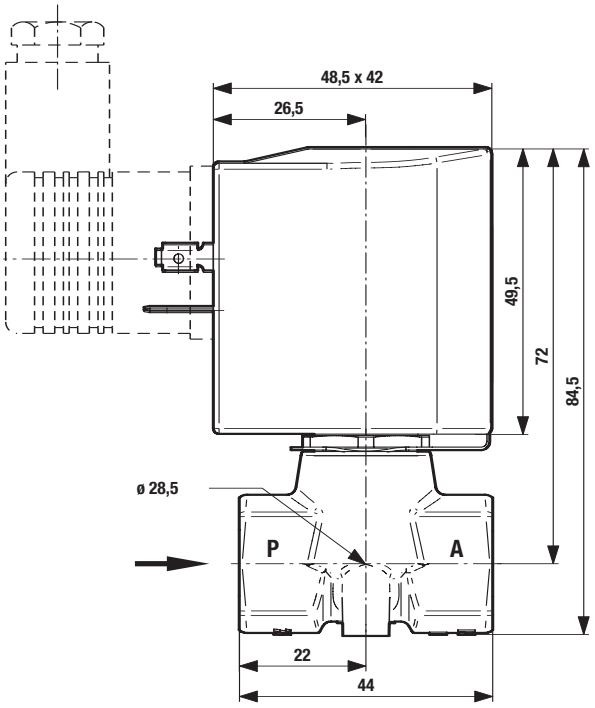
General Dimensions

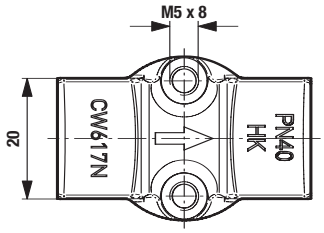
Solenoid rotatable 360°
Socket turnable 4 x 90°
(Socket included)

with Solenoid 9101



with Solenoid 9151





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.