

- > Port size: DN 8 ... 20, 1/4" ... 3/4" (ISO G/ NPT)
- > High flow rate
- > Damped operation
- > Functional compact design
- > Solenoid interchangeable without tools (*Click-on®*)



Technical features

Medium:

Hot water, Steam

Switching function:

Normally closed

Operation:

Indirectly solenoid actuated

Mounting position:

Optional, preferably solenoid vertical on top

Flow direction:

Determined

Port size:

G1/4, G3/8, G1/2, G3/4, G1, 1/4 NPT, 3/8 NPT, 1/2 NPT, 3/4 NPT, 1 NPT

Operating pressure:

0,1 ... 10 bar (1,45 ... 145 psi)

Differential pressure:

0,1 bar (1,45 psi) required

Fluid temperature:

0° ... +150°C (+32° ... 302°F)

Ambient temperature:

-10° ... +60°C (+14° ... +14°F)

Material:

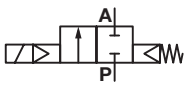
Body: Brass (CW617N)

Seat seal: HNBR

Internal parts: Stainless steel, Brass

For contaminated fluids insertion of a strainer is recommended.

Technical data - standard models

Symbol	Port size	Orifice (mm)	Valve length (mm)	Flow kv value *1) (m³/h)	Operating pressure *2) (bar)	Weight (kg)	Model Solenoid in V d.c./a.c.
	G1/4	8	60	1,7	0,1 ... 10	0,47	8247000.9101.xxxxx
	1/4 NPT	8	60	1,7	0,1 ... 10	0,47	8268000.9101.xxxxx
	G3/8	10	60	2,7	0,1 ... 10	0,45	8247100.9101.xxxxx
	3/8 NPT	10	60	2,7	0,1 ... 10	0,45	8268100.9101.xxxxx
	G1/2	12	67	3,4	0,1 ... 10	0,5	8247200.9101.xxxxx
	1/2 NPT	12	67	3,4	0,1 ... 10	0,5	8268200.9101.xxxxx
	G3/4	20	80	5,5	0,1 ... 10	0,65	8247300.9101.xxxxx
	3/4 NPT	20	80	5,5	0,1 ... 10	0,65	8268300.9101.xxxxx
	G1	25	95	8,5	0,1 ... 10	0,95	8247400.9101.xxxxx
	1 NPT	25	95	8,5	0,1 ... 10	0,95	8268400x9101.xxxxx

xxxxx Please insert voltage and frequency codes

*1) Cv-value (US) ≈ kv value x 1,2

*2) For gases and liquid fluids up to 25 mm²/s (cSt)

Option selector

82*****.*****.*****

Thread form	Substitute
ISO G	47
NPT	68
Port size	Substitute
1/4"	0
3/8"	1
1/2"	2
3/4"	3
1"	4
Valve options	Substitute
Normally open (NO)	01

Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See Voltage codes	xxx
Solenoid options	Substitute
G1/4 ... 1 Operating pressure 0,1 ... 10 bar (1,45 ... 145 psi)	9101

Standard solenoid systems

Voltage and Frequency Solenoid 9101 *1)					
Code Voltage	Code Frequency	Voltage	Frequency	Power consumption	
				Inrush	Holding
024	00	24 V d.c.	-	8 W	8 W
024	50	24 V a.c.*2)	50 Hz	15 VA	12 VA
110	50	110 V a.c.*2)	50 Hz	15 VA	12 VA
120	60	120 V a.c.*2)	60 Hz	15 VA	12 VA
230	50	230 V a.c.*2)	50 Hz	15 VA	12 VA

Electrical details for all solenoid systems

Design	DIN VDE 0580
Voltage range	±10%
Duty cycle	100% ED
Protection class	EN 60529 IP65
Socket	Form A acc. to DIN EN 175301-803 (included)

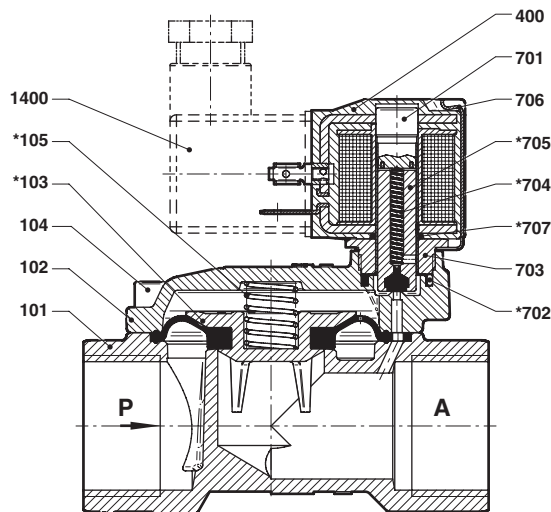
According to DIN VDE 0580 at a solenoid temperature of +20°C.
At operating state temperature the input power of a coil decreases by up to ca. 30% due to physical reasons.

*1) _{US} coil only
*2) A.c. only with rectifier plug

Further versions on request!

Section View

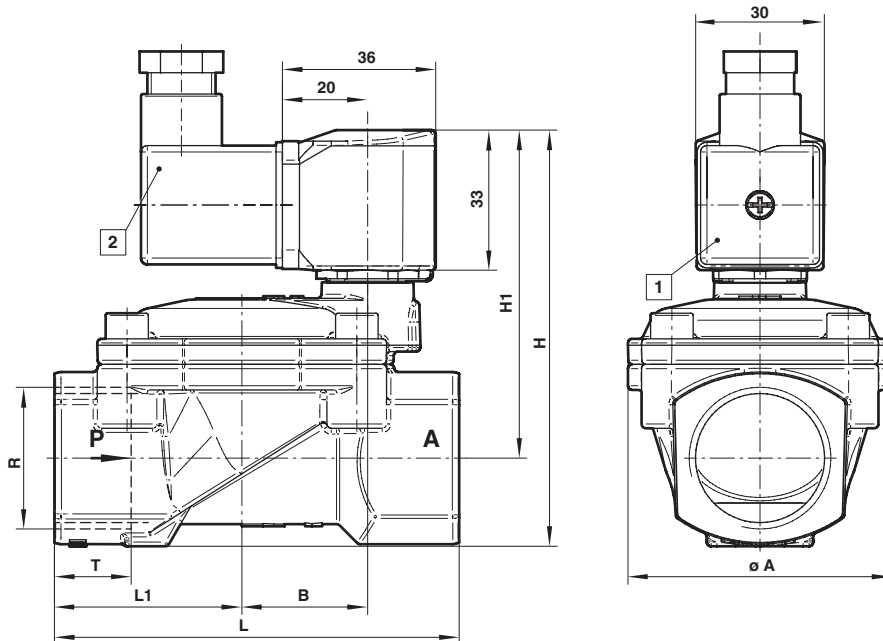
G1/4 ... 1
1/4 ... 1 NPT



No.	Description
101	Valve body
102	Valve cover
*103	Diaphragm
104	Allen head screw
*105	Pressure spring
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)

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

Dimensions
G1/4 ... 1
1/4 ... 1 NPT

 Dimensions in mm
 Projection/First angle


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

Port size R	A	B	H	H1	L	L1	T	Model
G1/4	44	19,5	78,5	67	60	27,5	12	8247000.9101.xxxxx
1/4 NPT	44	19,5	78,5	67	60	27,5	10	8268000.9101.xxxxx
G3/8	44	19,5	78,5	67	60	27,5	12	8247100.9101.xxxxx
3/8 NPT	44	19,5	78,5	67	60	27,5	10,5	8268100.9101.xxxxx
G1/2	44	19,5	81	67	67	31	14	8247200.9101.xxxxx
1/2 NPT	44	19,5	81	67	67	31	13,5	8268200.9101.xxxxx
G3/4	50	24	88	71,5	80	36,5	16	8247300.9101.xxxxx
3/4 NPT	50	24	88	71,5	80	36,5	14	8268300.9101.xxxxx
G1	62	29,5	97,5	77	95	44	18	8247400.9101.xxxxx
1 NPT	62	29,5	97,5	77	95	44	17	8268400.9101.xxxxx

Note to Pressure Equipment Directive (PED):

The valves of this series, including the connection size DN 25 (G 1), 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 refers not to the PED. Thus the declaration of conformity is not longer applicable for this directive.

For valves > DN 25 (G 1) Art. 3 § (1) No.1.4 applies.

The basic requirements of the Enclosure I of the PED must be fulfilled. The CE-sign at the valve includes the PED. A certificate of conformity of this directive will be available on request.

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 Compatibility Guideline (2004/108/EG) satisfield.