

- > **Port size: DN 8 ... 50, 1/4" ... 2" (ISO G/NPT)**
- > **High flow rate**
- > **For steam and hot water**
- > **Damped operation**
- > **Valve operates without differential pressure**



Technical features

Medium:

Neutral steam and liquids

Switching function:

Normally closed

Operation:

Solenoid actuated, with forced lifting

Mounting position:

Solenoid vertical on top; optional up to G1 / 1 NPT: solenoid underneath

Flow direction:

Determined

Port size:

G1/4, G3/8, G1/2, G3/4, G1, G1 1/4, G1 1/2, G2 1/4 NPT, 3/8 NPT, 1/2 NPT, 3/4 NPT, 1 NPT, 1 1/4 NPT, 1 1/2 NPT, 2 NPT

Operating pressure:

0 ... 16 bar (0 ... 232 psi)

Fluid temperature:

0° ... +200°C (+32° ... +392°F)

Ambient temperature:

0° ... +60°C (+32° ... +140°F)

Material:

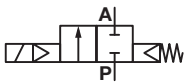
Body: Brass (CW617N)

Seat seal: PTFE

Internal parts: Stainless steel, PTFE/Carbon

For contaminated fluids insertion of a strainer is recommended.

Technical data - standard models

Symbol	Port size	Orifice (mm)	Flow kv value *1) (m³/h)	Operating pressure *2) (bar)	Weight (kg)	Model Solenoid in V d.c.	Model Solenoid in V a.c.
	G1/4	8	2,2	0 ... 16	2,4	8672000.8402.xxxxx	8672000.8406.xxxxx
	1/4 NPT	8	2,2	0 ... 16	2,4	8673000.8402.xxxxx	8673000.8406.xxxxx
	G3/8	10	3,4	0 ... 16	2,4	8672100.8402.xxxxx	8672100.8406.xxxxx
	3/8 NPT	10	3,4	0 ... 16	2,4	8673100.8402.xxxxx	8673100.8406.xxxxx
	G1/2	12	4,4	0 ... 16	2,5	8672200.8402.xxxxx	8672200.8406.xxxxx
	1/2 NPT	12	4,4	0 ... 16	2,5	8673200.8402.xxxxx	8673200.8406.xxxxx
	G3/4	20	6,5	0 ... 16	2,7	8672300.8402.xxxxx	8672300.8406.xxxxx
	3/4 NPT	20	6,5	0 ... 16	2,7	8673300.8402.xxxxx	8673300.8406.xxxxx
	G1	25	10	0 ... 16	3,1	8672400.8402.xxxxx	8672400.8406.xxxxx
	1 NPT	25	10	0 ... 16	3,1	8673400.8402.xxxxx	8673400.8406.xxxxx
	G1 1/4	32	22	0 ... 16	5,6	8672500.8402.xxxxx	8672500.8406.xxxxx
	1 1/4 NPT	32	22	0 ... 16	5,6	8673500.8402.xxxxx	8673500.8406.xxxxx
	G1 1/2	40	23	0 ... 16	5,4	8672600.8402.xxxxx	8672600.8406.xxxxx
	1 1/2 NPT	40	23	0 ... 16	5,4	8673600.8402.xxxxx	8673600.8406.xxxxx
	G2	50	37	0 ... 16	6,8	8672700.8402.xxxxx	8672700.8406.xxxxx
	2 NPT	50	37	0 ... 16	6,8	8673700.8402.xxxxx	8673700.8406.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 40 mm²/s (cSt)

Option selector

867*****.*****

Thread form	Substitute
ISO G	2
NPT	3
Port size	Substitute
1/4"	0
3/8"	1
1/2"	2
3/4"	3
1"	4
1 1/4"	5
1 1/2"	6
2"	7
Valve options (Valves)	Substitute
Normally open (NO)	01
Manual override	02
Seat seal EPDM, max. fluid temperature +130°C	14
Max. operating pressure 25 bar	22
Electrical position indicator, with 2 limit switches	23

Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See Voltage codes	xxx
Solenoid options	Substitute
G1/4 ... 2 Solenoid in V d.c.	8402
G1/4 ... 2 Solenoid in V a.c.	8406

Standard solenoid systems

Voltage and Frequency Solenoid 8402/8406					
Code Voltage	Code Frequency	Voltage	Frequency	Power consumption	
				Inrush	Holding
024	00	24 V d.c.	-	29 W	29 W
024	49	24 V a.c. *1)	40 ... 60 Hz	33 VA	33 VA
110	49	110 V a.c. *1)	40 ... 60 Hz	33 VA	33 VA
120	49	120 V a.c. *1)	40 ... 60 Hz	33 VA	33 VA
230	49	230 V a.c. *1)	40 ... 60 Hz	33 VA	33 VA

*1) a.c. with rectifier plug

Electrical details for all solenoid systems

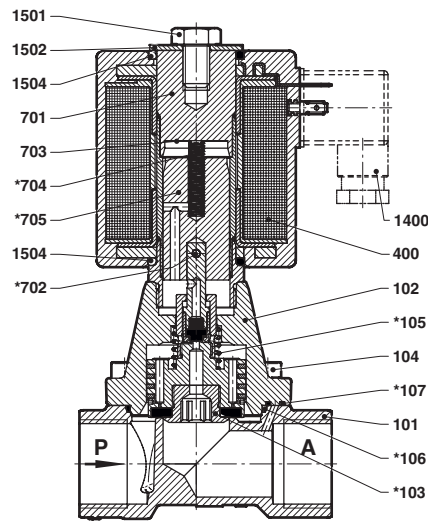
Design	DIN VDE 0580
Voltage range	±10%
Duty cycle	100% ED
Protection class	EN 60529 IP65
Socket	Form A acc. to DIN EN 175301-803 (included)

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.

Further versions on request!

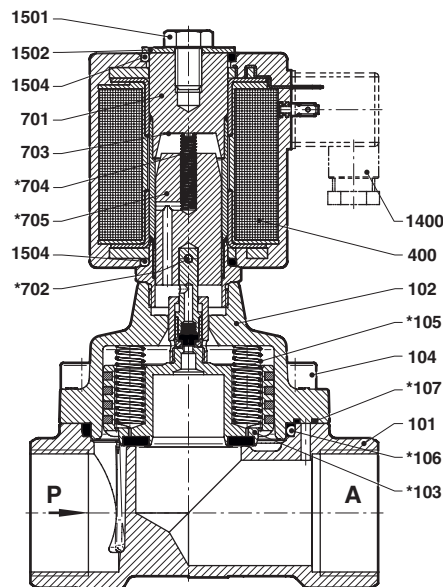
Section View

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



No.	Description
101	Valve body
102	Valve cover
*103	Valve piston
104	Socket head cap screw
*105	Pressure spring
*106	Seal ring
*107	O-Ring
400	Solenoid
701	Core tube
*702	Straight pin
703	Round plate
*704	Pressure spring
*705	Core
1400	Socket (included)
1501	Hexagon screw
1502	Round plate
1504	O-Ring

**G1 1/4 ... 2
1 1/4 ... 2 NPT**



No.	Description
101	Valve body
102	Valve cover
*103	Valve piston
104	Socket head cap screw
*105	Pressure spring (2x)
*106	Seal ring
*107	O-Ring
400	Solenoid
701	Core tube
*702	Straight pin
703	Round plate
*704	Pressure spring
*705	Core
1400	Socket (included)
1501	Hexagon screw
1502	Round plate
1504	O-Ring

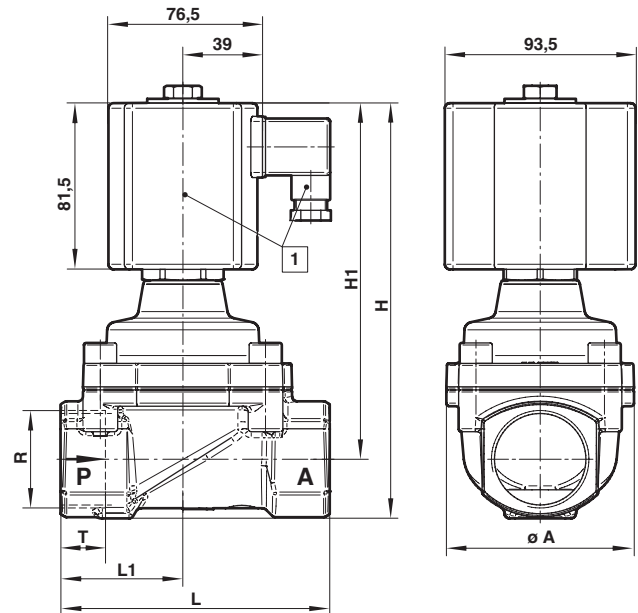
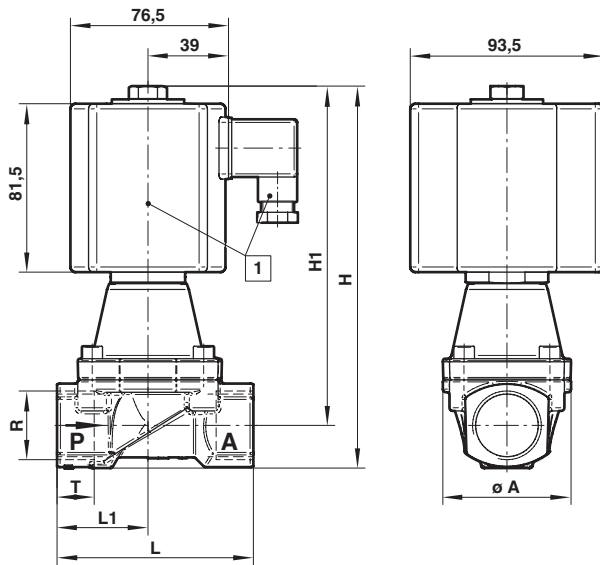
* These individual parts form a complete wearing unit.
When ordering spare parts please state Model No. and Series No.

Dimensions

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

G1 1/4 ... 2
1 1/4 ... 2 NPT

Dimensions in mm
Projection/First angle



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

Port size R	ø A	H	H1	L	L1	T	Model
G1/4	44	143	132	60	27,5	12	8672000.840x.xxxxx
1/4 NPT	44	143	132	60	27,5	10	8673000.840x.xxxxx
G3/8	44	143	132	60	27,5	12	8672100.840x.xxxxx
3/8 NPT	44	143	132	60	27,5	10,5	8673100.840x.xxxxx
G1/2	44	145	132	67	31	14	8672200.840x.xxxxx
1/2 NPT	44	145	132	67	31	13,5	8673200.840x.xxxxx
G3/4	50	154	137	80	35,5	16	8672300.840x.xxxxx
3/4 NPT	50	154	137	80	35,5	14	8673300.840x.xxxxx
G1	62	164	143,5	95	44	18	8672400.840x.xxxxx
1 NPT	62	164	143,5	95	44	17	8673400.840x.xxxxx
G 1 1/4	92	212	183	132	60	20	8672500.840x.xxxxx
1 1/4 NPT	92	212	183	132	60	17	8673500.840x.xxxxx
G1 1/2	92	212	183	132	60	22	8672600.840x.xxxxx
1 1/2 NPT	92	212	183	132	60	17	8673600.840x.xxxxx
G2	109	226	192	160	74	24	8672700.840x.xxxxx
2 NPT	109	226	192	160	74	17,5	8673700.840x.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.