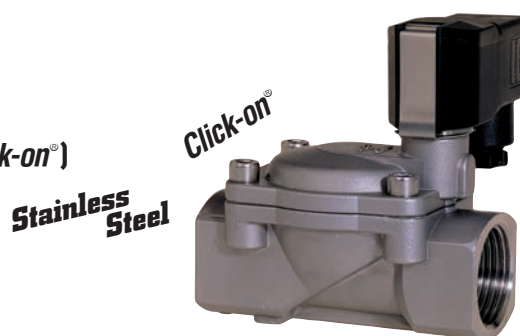


High flow rate

Damped operation

Functional compact design

Solenoid interchangeable without tools (Click-on®)



Technical features

Medium:

Slightly aggressive gases and liquid fluids

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, 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:

See table

Differential pressure:

0,1 bar required

Fluid temperature:

-10 ... +90°C

Ambient temperature:

-10 ... +50°C

Material:

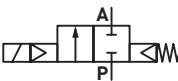
Body: Stainless steel (1.4408)

Seat seal: NBR

Internal parts: Stainless steel, PVDF

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 d.c./a.c.
	G1/4	8	60	1,9	0,1 ... 16	0,47	8273000.9101.xxxxx
	1/4 NPT	8	60	1,9	0,1 ... 16	0,47	8274000.9101.xxxxx
	G3/8	10	60	3	0,1 ... 16	0,45	8273100.9101.xxxxx
	3/8 NPT	10	60	3	0,1 ... 16	0,45	8274100.9101.xxxxx
	G1/2	12	67	3,8	0,1 ... 16	0,5	8273200.9101.xxxxx
	1/2 NPT	12	67	3,8	0,1 ... 16	0,5	8274200.9101.xxxxx
	G3/4	20	80	6,1	0,1 ... 16	0,65	8273300.9101.xxxxx
	3/4 NPT	20	80	6,1	0,1 ... 16	0,65	8274300.9101.xxxxx
	G1	25	95	9,5	0,1 ... 16	0,95	8273400.9101.xxxxx
	1 NPT	25	95	9,5	0,1 ... 16	0,95	8274400.9101.xxxxx
	G1 1/4	32	132	23	0,1 ... 10	2,6	8273500.9101.xxxxx
	1 1/4 NPT	32	132	23	0,1 ... 10	2,6	8274500.9101.xxxxx
	G1 1/4	32	132	23	0,1 ... 16	2,6	8273500.9151.xxxxx
	1 1/4 NPT	32	132	23	0,1 ... 16	2,6	8274500.9151.xxxxx
	G1 1/2	40	132	25	0,1 ... 10	2,84	8273600.9101.xxxxx
	1 1/2 NPT	40	132	25	0,1 ... 10	2,84	8274600.9101.xxxxx
	G1 1/2	40	132	25	0,1 ... 16	2,84	8273600.9151.xxxxx
	1 1/2 NPT	40	132	25	0,1 ... 16	2,84	8274600.9151.xxxxx
	G2	50	160	41	0,1 ... 10	3,85	8273700.9101.xxxxx
	2 NPT	50	160	41	0,1 ... 10	3,85	8274700.9101.xxxxx
	G2	50	160	41	0,1 ... 16	3,85	8273700.9151.xxxxx
	2 NPT	50	160	41	0,1 ... 16	3,85	8274700.9151.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

827★★★★.★★★★.★★★★

Thread form	Substitute
ISO G	3
NPT	4
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	Substitute
Normally open (NO), from G1 1/4 with solenoid 9151 0,1 ... 16 bar	01
Manual override	02
Seat seal FPM, Fluid temperature -5 ... +110°C	03
Seat seal EPDM, for hot water, Fluid temperature +110°C 0,3 ... 16 bar (up to G1) 0,3 ... 10 bar (from G1 1/4)	14
Core tube stainless steel, Seat seal FPM, Fluid temperature +110°C for a.c. solenoid with rectifier	50

Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See Voltage codes	xxx
Solenoid options	Substitute
G1/4 ... 1 Operating pressure 0,1 ... 16 bar	9101
G1 1/4 ... 2 Operating pressure 0,1 ... 10 bar	9101
G1 1/4 ... 2 Operating pressure 0,1 ... 16 bar	9151

Standard solenoid systems

Voltage and Frequency Solenoid 9101 *1) *2)					
Code	Code	Voltage	Frequency	Power consumption	
Voltage	Frequency			Inrush	Holding
024	00	24 V d.c.	-	8 W	8 W
024	50	24 V a.c.	50 Hz	15 VA	12 VA
110	50	110 V a.c.	50 Hz	15 VA	12 VA
120	60	120 V a.c.	60 Hz	15 VA	12 VA
230	50	230 V a.c.	50 Hz	15 VA	12 VA
Voltage and Frequency Solenoid 9151 *1) *2)					
024	00	24 V d.c.	-	18 W	18 W
024	50	24 V a.c.	50 Hz	45 VA	35 VA
110	50	110 V a.c.	50 Hz	45 VA	35 VA
120	60	120 V a.c.	60 Hz	45 VA	35 VA
230	50	230 V a.c.	50 Hz	45 VA	35 VA

*1)  US Coil only

*2) Attention! Standard core tube with copper shading coil.
Look for fluid resistant further options

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



Additional solenoid systems

ATEX category	Protection class	Solenoid	Standard voltages
II2GD	EEx m II T4 T 130°C with 3 m connection cable	9136	24 V d.c., 110 V a.c., 230 V a.c.

Attention!

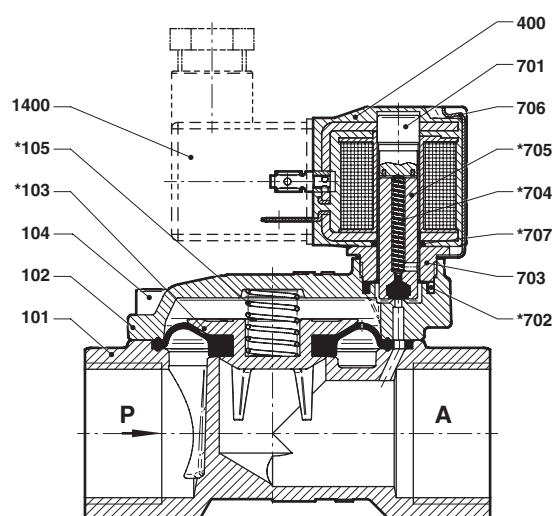
The conditions imposed on the Ex approvals lead to reduction of the permissible
standard temperatures ranges in the case of explosion protected solenoids.

Further versions on request!

Section View

G1/4 ... 2

1/4 ... 2 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	Plunger
706	Spring clip
*707	O-ring
1400	Socket (included)

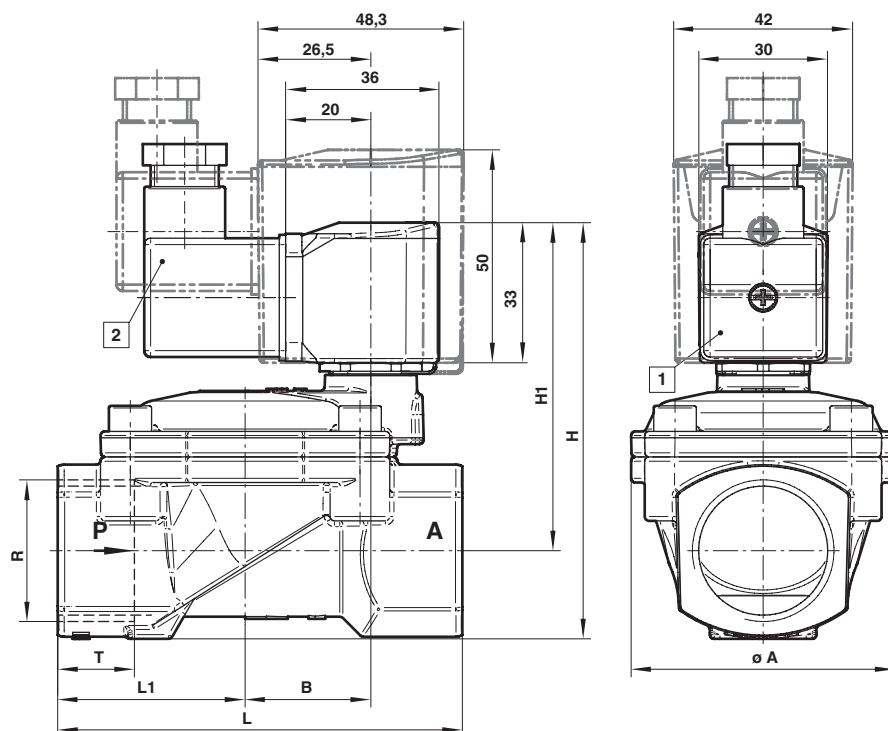
* These individual parts form a complete wearing unit.

When ordering spare parts please state Model No. and Series No.

Dimensions

G1/4 ... 2

1/4 ... 2 NPT



- 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	8273000.9101.xxxxx
1/4 NPT	44	19,5	78,5	67	60	27,5	10	8274000.9101.xxxxx
G3/8	44	19,5	78,5	67	60	27,5	12	8273100.9101.xxxxx
3/8 NPT	44	19,5	78,5	67	60	27,5	10,5	8274100.9101.xxxxx
G1/2	44	19,5	81	67	67	31	14	8273200.9101.xxxxx
1/2 NPT	44	19,5	81	67	67	31	13,5	8274200.9101.xxxxx
G3/4	50	24	88	71,5	80	36,5	16	8273300.9101.xxxxx
3/4 NPT	50	24	88	71,5	80	36,5	14	8274300.9101.xxxxx
G1	62	29,5	97,5	77	95	44	18	8273400.9101.xxxxx
1 NPT	62	29,5	97,5	77	95	44	17	8274400.9101.xxxxx
G 1 1/4	92	44,5	124,5	95,5	132	60	20	8273500.9101.xxxxx
1 1/4 NPT	92	44,5	124,5	95,5	132	60	17	8274500.9101.xxxxx
G1 1/2	92	44,5	124,5	95,5	132	60	22	8273600.9101.xxxxx
1 1/2 NPT	92	44,5	124,5	95,5	132	60	17	8274600.9101.xxxxx
G2	109	54,5	142,5	108	160	74	24	8273700.9101.xxxxx
2 NPT	109	54,5	142,5	108	160	74	17,5	8274700.9101.xxxxx

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 refers not 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 61000-6-3 and EN 61000-6-1 are observed, and hence the requirements of the Electromagnetic Compatibility Guideline [2004/108/EG] satisfied.