

- > Port size: DN 10, G1/4 ... 1/2 (ISO G/NPT)
- > Functional design
- > Compact solenoid with integrated core tube
- > Valve operates without differential pressure
- > Operating pressure 0 ... 20 bar with alternating current and NBR sealing



### Technical features

**Medium:**

Neutral gases and liquids

**Switching function:**

Normally closed

**Operation:**

Solenoid actuated, with forced lifting

**Mounting position:**

Optional, preferably solenoid vertical on top

**Flow direction:**

Determined

**Port size:**

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

**Operating pressure:**

0 ... 10 bar (0 ... 145 psi)

**Fluid temperature:**

-10 ... +90°C (+14 ... +194°F)

**Ambient temperature:**

-10 ... +50°C (+14 ... +122°F)

**Material:**

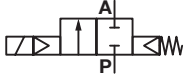
Body: Brass (CW617N), PA66

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) (m <sup>3</sup> /h)	Operating pressure *2) (bar)	(psi)	Weight (kg)	Model Solenoid in V d.c./a.c.
	G1/4	10	44	1,5	0 ... 10	0 ... 145	0,5	8253000.8001.xxxxx
	1/4 NPT	10	44	1,5	0 ... 10	0 ... 145	0,5	8263000.8001.xxxxx
	G3/8	10	44	1,7	0 ... 10	0 ... 145	0,5	8253100.8001.xxxxx
	3/8 NPT	10	44	1,7	0 ... 10	0 ... 145	0,5	8263100.8001.xxxxx
	G1/2	10	60	1,7	0 ... 10	0 ... 145	0,6	8253200.8001.xxxxx
	1/2 NPT	10	60	1,7	0 ... 10	0 ... 145	0,6	8263200.8001.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 mm<sup>2</sup>/s (cSt)

**Option selector**

82\*3\*\*\*\*\*

Thread form	Substitute
ISO G	5
NPT	6
Port size	Substitute
1/4	0
3/8	1
1/2	2
Valve options	Substitute
Seat seal FPM, for fuel and oil, Fluid temperature -5 ... +110°C (+23 ... +230°F)	03
Seat seal EPDM, for hot water, max. fluid temperature +110°C (+230°F)	14
Degreased version, Seat seal FPM, Fluid temperature -5 ... +110°C (+23 ... +230°F), with solenoid 8041: Fluid temperature -5 ... +80°C (+23 ... +176°F)	18
Operating pressure 0 ... 20 bar (0 ... 290 psi), only for NBR and a.c. solenoid	22
Seat seal HNBR, for hot water and steam, Operating pressure 0 ... 6 bar (0 ... 87 psi), Fluid temperature 0 ... +150°C (+32 ... +302°F) Solenoid vertical underneath: up to max. +60 °C ambient temperature permitted	51

Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See table voltage codes	xxx
Options (Solenoids)	
G1/4 ... 1/2 Operating pressure 0 ... 10 bar (0 .. 145 psi) Solenoid in V a.c./d.c.	8001

**Standard solenoid systems**

Voltage and Frequency Solenoid 8001					
Code Voltage	Code Frequency	Voltage	Frequency	Power consumption	
				Inrush	Holding
024	00	24 V d.c.	-	12 W	12 W
024	50	24 V a.c.	50 Hz	20 VA	20 VA
110	50	110 V a.c.	50 Hz	20 VA	20 VA
120	60	120 V a.c.	60 Hz	20 VA	20 VA
230	50	230 V a.c.	50 Hz	20 VA	20 VA

Further versions on request!

**Electrical details for all solenoid systems**

<b>Design</b>	DIN VDE 0580
<b>Voltage range</b>	±10%
<b>Duty cycle</b>	100% ED
<b>Protection class</b>	EN 60529 IP65
<b>Socket</b>	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.



**Additional solenoid systems (available from April 2018)**

ATEX category	ATEX protection class	IP protection class	So-lenoid	Standard voltages	Old variant
II 2G	Ex eb mb IIC T3 Gb	IP66	6200	24 V d.c., 110 V a.c., 230 V a.c.	8041
II 2D	Ex mb tb IIIB T150°C Db				

**Attention!**

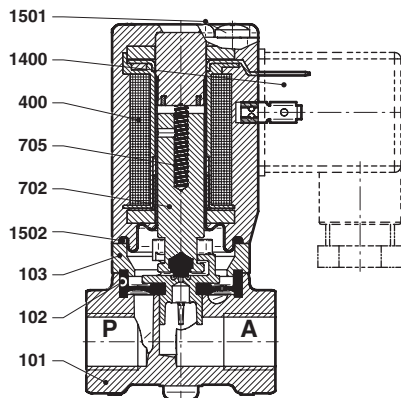
The conditions imposed on the Ex approvals lead to reduction of the permissible standard temperature ranges in the cases of explosion protected solenoids.

**Additional solenoid systems**

Option	Solenoid	Standard voltages
D.c. solenoid with rectifier for a.c. only	8004	24 V d.c., 110 V a.c., 230 V a.c.

## Section View

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



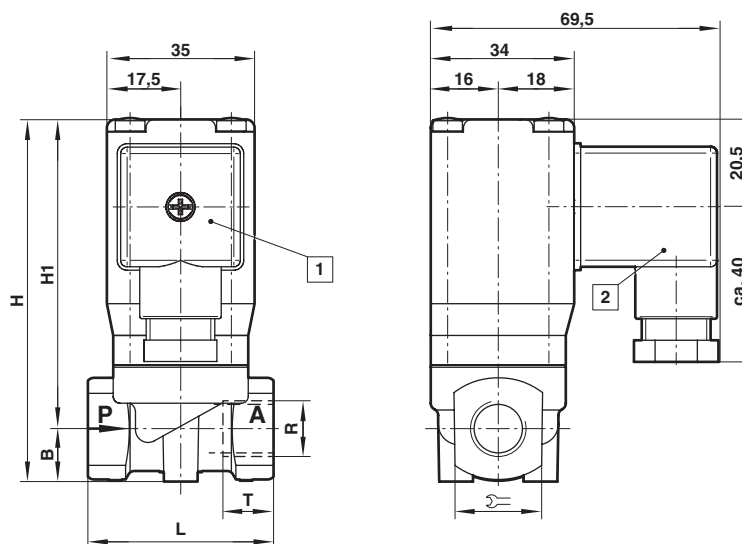
No.	Description
101	Valve body
*102	Diaphragm
103	Spacer
400	Solenoid
*702	Plunger
*705	Pressure spring
1400	Socket (included)
1501	Oval head cap screw
*1502	O-ring

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


## Dimensions

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

Dimensions in mm  
 Projection/First angle



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

Port size R	B	H	H1	L		T	Model
G1/4	14	87	73	44	21	12	8253000.8001.xxxxx
1/4 NPT	14	87	73	44	21	10	8263000.8001.xxxxx
G3/8	14	87	73	44	21	12	8253100.8001.xxxxx
3/8 NPT	14	87	73	44	21	10	8263100.8001.xxxxx
G1/2	14	90	74,5	60	27	15	8253200.8001.xxxxx
1/2 NPT	14	90	74,5	60	27	13	8263200.8001.xxxxx

### Note to Pressure Equipment Directive (PED):

The valves of this series are according to Art. 4 § 3 of the Pressure Equipment Directive (PED) 2014/68/EU. 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 (2014/30/EU) satisfied.