

- > Port size: DN 3 ... 8, G1/4 ... 3/8
- > Suitable for aggressive fluids
- > Functional design
- > Compact solenoid with integrated core tube
- > Core tube protected with PTFE-bellow
- > Unsusceptible to calcification and magnetization of foreign particles
- > International approvals



**Technical features**

**Medium:**  
Aggressive gases and fluids  
**Switching function:**  
Normally closed  
**Operation:**  
Directly solenoid actuated  
**Type:**  
Seat valve operating without differential pressure

**Mounting position:**  
Optional, preferably solenoid vertical on top  
**Flow direction:**  
Determined  
**Port size:**  
G1/4, G3/8  
**Operating pressure:**  
0 ... 7 bar (0 ... 101 psi)

**Fluid temperature:**  
-10° ... +110°C (+14° ... +230 °F)  
**Ambient temperature:**  
-10° ... +50°C (+14° ... +122°F)

**Material:**  
Body: PVDF  
Seat seal: EPDM  
Internal parts: PTFE-bellows

For contaminated fluids (particle > 1 mm) 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)	(psi)	Weight (kg)	Model Solenoid in V d.c.	Model Solenoid in V a.c.
	G1/4	3	0,23	0 ... 7	0 ... 101	0,3	8208000.8050.xxxxx	8208000.8051.xxxxx
	G3/8	3	0,23	0 ... 7	0 ... 101	0,3	8208100.8050.xxxxx	8208100.8051.xxxxx
	G1/4	4,5	0,42	0 ... 5	0 ... 72	0,3	8208060.8050.xxxxx	8208060.8051.xxxxx
	G3/8	4,5	0,42	0 ... 5	0 ... 72	0,3	8208160.8050.xxxxx	8208160.8051.xxxxx
	G1/4	6	0,62	0 ... 2	0 ... 29	0,3	8208070.8050.xxxxx	8208070.8051.xxxxx
	G3/8	6	0,62	0 ... 2	0 ... 29	0,3	8208170.8050.xxxxx	8208170.8051.xxxxx
	G1/4	8	0,83	0 ... 1	0 ... 14	0,3	8208080.8050.xxxxx	8208080.8051.xxxxx
	G3/8	8	0,83	0 ... 1	0 ... 14	0,3	8208180.8050.xxxxx	8208180.8051.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 80 mm²/s (cSt)

Option selector

8208★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★

Port size	Substitute
1/4	0
3/8	1
Orifice (mm)	Substitute
3	0
4,5	6
6	7
8	8
Valve options	Substitute
Seat seal FPM, max. fluid temperature +110°C	3
Seat and soft seal PTFE, max. fluid temperature +110°C	6

Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See Voltage codes	xxx
Solenoid options	Substitute
G1/4 ... 3/8 Solenoid in V d.c.	8050
G1/4 ... 3/8 Solenoid in V a.c.	8051

Standard solenoid systems

Voltage and Frequency Solenoid 8050						
Code Voltage	Code Frequency	Voltage	Frequency	Power consumption		
				Inrush	Holding	
024	00	24 V d.c.	-	12 W	12 W	
Voltage and Frequency Solenoid 8051						
110	49	110 V a.c. *3)	40 ... 60 Hz	13 VA	13 VA	
120	49	120 V a.c. *3)	40 ... 60 Hz	13 VA	13 VA	
230	49	230 V a.c. *3)	40 ... 60 Hz	13 VA	13 VA	

\*3) A.c. only 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.

Additional solenoid systems for hazardous areas

ATEX category	ATEX protection class	IP protection class	Solenoid	Standard voltages
II 2G	Ex eb mb IIC T3 Gb	IP66	6202	24 V d.c., 110 V a.c., 230 V a.c.
II 2D	Ex mb tb IIIB T150°C Db			

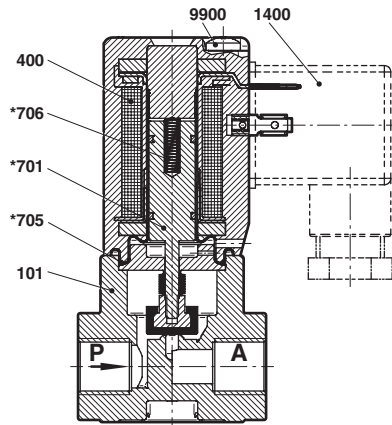
Attention!

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

Further versions on request!

**Section View**

G1/4 ... 3/8

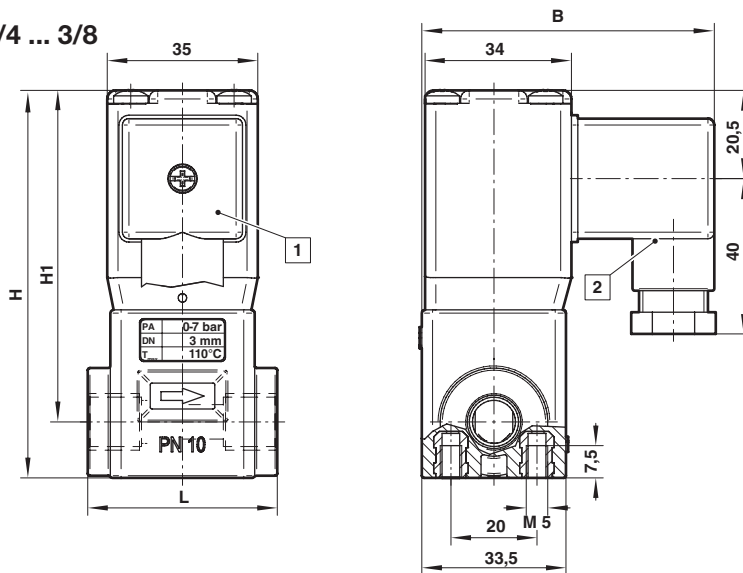


No.	Description
101	Valve body
400	Solenoid
*701	Plunger
*705	O-ring
*706	Pressure spring
1400	Socket (included)
9900	Oval head cap screw

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

**Dimensions**

G1/4 ... 3/8



Dimensions in mm  
Projection/First angle

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

Port size R	Orifice (mm)	B *4)	H	H1	L	Model
G1/4	3	70	90	77	44	8208000.805x.xxxxx
G3/8	3	70	90	77	44	8208100.805x.xxxxx
G1/4	4,5	70	90	77	44	8208060.805x.xxxxx
G3/8	4,5	70	90	77	44	8208160.805x.xxxxx
G1/4	6	70	90	77	44	8208070.805x.xxxxx
G3/8	6	70	90	77	44	8208170.805x.xxxxx
G1/4	8	70	90	77	44	8208080.805x.xxxxx
G3/8	8	70	90	77	44	8208180.805x.xxxxx

\*4) max. depth

**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 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 61000-6-3 and EN 61000-6-1 are observed, and hence the requirements of the Electromagnetic Compatibility Guideline (2014/30/EU) satisfied.

**Note to EAC marking:**

The EAC-marked products comply with the applicable requirements stated in the technical regulations of the Eurasian Economic Union.