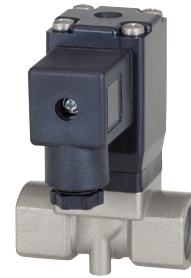


- > **Port size: DN 10, 1/4" ... 1/2" (ISO G/NPT)**
- > **Suitable for vacuum**
- > **Compact solenoid with integrated core tube**
- > **Valve operates without differential pressure**
- > **International approvals**


Stainless Steel

Technical features
Medium:

Slightly aggressive 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: Stainless steel (1.4408),

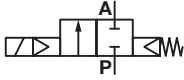
PA66

Seat seal: NBR

Internal parts: Stainless steel, PVDF, Sandvik 1802

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) (psi)		Weight (kg)	Model Solenoid in V d.c.	Model Solenoid in V a.c.
	G1/4	10	44	1,5	0 ... 10	0 ... 145	0,5	8256000.8001.xxxxx	8256000.8004.xxxxx
	1/4 NPT	10	44	1,5	0 ... 10	0 ... 145	0,5	8257000.8001.xxxxx	8257000.8004.xxxxx
	G3/8	10	44	1,7	0 ... 10	0 ... 145	0,5	8256100.8001.xxxxx	8256100.8004.xxxxx
	3/8 NPT	10	44	1,7	0 ... 10	0 ... 145	0,5	8257100.8001.xxxxx	8257100.8004.xxxxx
	G1/2	10	60	1,7	0 ... 10	0 ... 145	0,6	8256200.8001.xxxxx	8256200.8004.xxxxx
	1/2 NPT	10	60	1,7	0 ... 10	0 ... 145	0,6	8257200.8001.xxxxx	8257200.8004.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

825★.★.★.★.★.★.800★.★.★.★.★.★.★

Thread form	Substitute
ISO G	6
NPT	7
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, Fluid temperature +110°C	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, only ATEX category 3 possible	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 Voltage codes	xxx
Solenoid options	Substitute
Solenoid in V d.c.	1
Solenoid in V a.c. with rectifier plug	4

Standard solenoid systems

Code Voltage	Code Frequency	Voltage	Frequency	Power consumption	
				Inrush	Holding
024	00	24 V d.c.	-	12 W	12 W
024	49	24 V a.c. *3)	40 ... 60 Hz	13 VA	13 VA
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
Further versions on request!

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

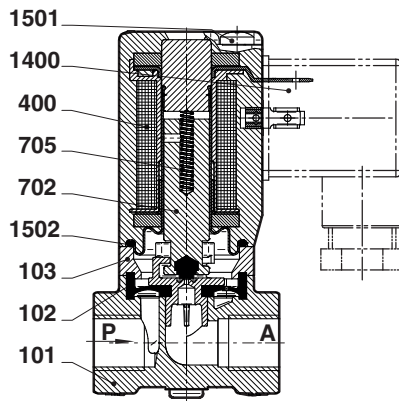
ATEX category	ATEX protection class	IP protection class	Solenoid	Standard voltages
II 2G	Ex eb mb IIC T3 Gb	IP66	6200	24 V d.c., 110 V a.c., 230 V a.c.
II 2D	Ex mb tb IIIB T150°C Db			

Attention!

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

Section View

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



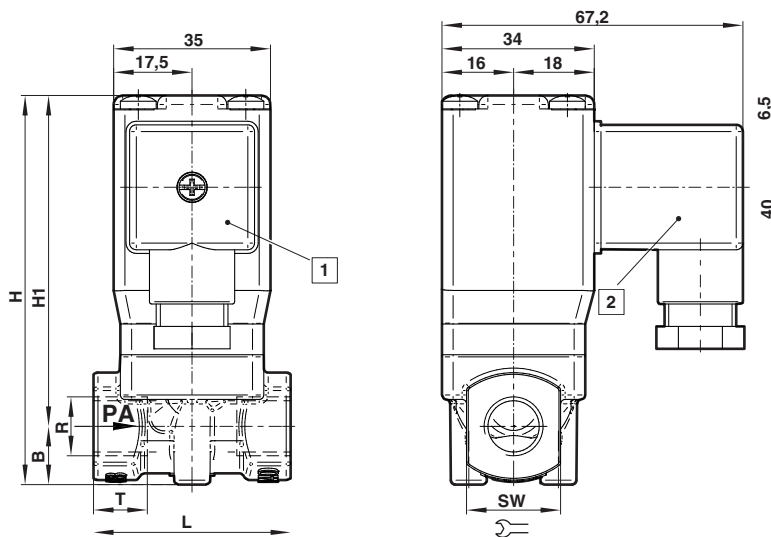
No.	Description
101	Valve body
*102	Diaphragm
103	Spacer
400	Solenoid
*702	Plunger
*705	Pressure spring
1400	Electrical connector (included)
1501	Oval head cap screw
*1502	O-ring

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

Dimensions

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

Dimensions in mm
Projection/First angle



1 2 Solenoid* and Socket
turnable 4 x 90°
* Look for right position of core,
spring and O-ring! (Socket included)

Port size R	B	H	H1	L		T	Model
G1/4	12,5	85,5	73	44	21	12	8256000.800x.xxxxx
1/4 NPT	12,5	85,5	73	44	21	10	8257300.800x.xxxxx
G3/8	12,5	85,5	73	44	21	12	8256100.800x.xxxxx
3/8 NPT	12,5	85,5	73	44	21	10	8257100.800x.xxxxx
G1/2	14	88,5	74,5	60	27	15	8256200.800x.xxxxx
1/2 NPT	14	88,5	74,5	60	27	13	8257200.800x.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 does not refer to the PED. Thus the declaration of conformity is not longer applicable for this directive.

Note to EAC marking:

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

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.