

- > 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



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)	Weight (kg)	Model Solenoid in V d.c.	Model Solenoid in V a.c.
	G1/4	10	44	1,5	0 ... 10	0,5	8256000.8001.xxxxx	8256000.8004.xxxxx
	1/4 NPT	10	44	1,5	0 ... 10	0,5	8257000.8001.xxxxx	8257000.8004.xxxxx
	G3/8	10	44	1,7	0 ... 10	0,5	8256100.8001.xxxxx	8256100.8004.xxxxx
	3/8 NPT	10	44	1,7	0 ... 10	0,5	8257100.8001.xxxxx	8257100.8004.xxxxx
	G1/2	10	60	1,7	0 ... 10	0,6	8256200.8001.xxxxx	8256200.8004.xxxxx
	1/2 NPT	10	60	1,7	0 ... 10	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 ad oil, Fluid temperature +110°C	03
Seat seal EPDM, for hot water, Fluid temperature +110°C	14
Seat seal HNBR, for hot water and steam, Operating pressure 0 ... 6 bar, Fluid temperature 0 ... +130°C	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. wi h rectifier plug	4

Standard solenoid systems

Voltage and Frequency Solenoid 8001/8004					
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. *1)	40 ... 60 Hz	13 VA	13 VA
110	50	110 V a.c. *1)	40 ... 60 Hz	13 VA	13 VA
120	60	120 V a.c. *1)	40 ... 60 Hz	13 VA	13 VA
230	50	230 V a.c. *1)	40 ... 60 Hz	13 VA	13 VA

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

ATEX category	Protection class	Solenoid	Standard voltages
II2GD	EEx me II T3 T 140°C	8041	24 V d.c., 110 V a.c., 230 V a.c.

Attention!

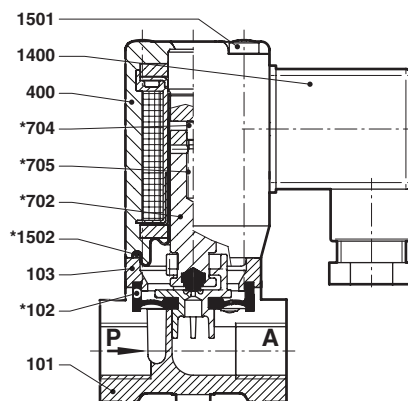
The conditions imposed on the Ex approvals lead to reduction of the permissible standard temperature ranges in the cases of explosion protected solenoids.

*1) A.c. only with rectifier plug

Further versions on request!

Section View

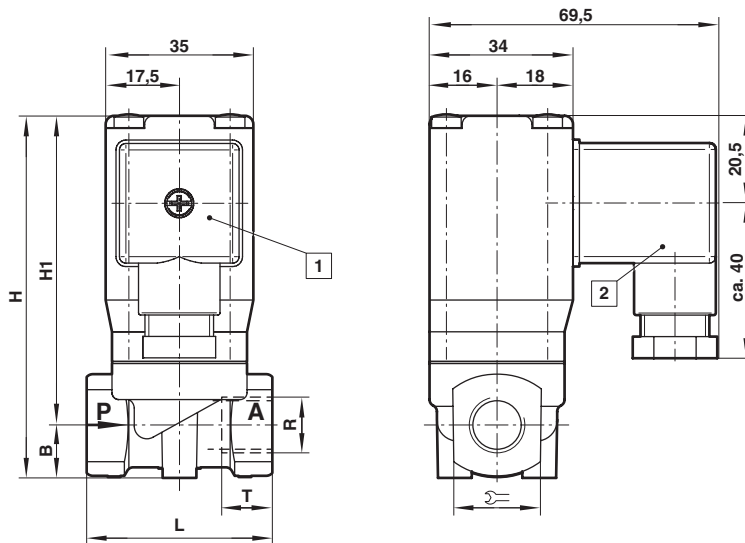
G1/4 ... 1/2
1/4 ... 1/2 NPT




No.	Description
101	Valve body
*102	Diaphragm
103	Spacer
400	Solenoid
*702	Plunger
*704	Guiding pin
*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. 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] satisfield.