

- > 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



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)









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) (m³/h)	Operating pressure *2) (bar)	Weight (kg)	Model Solenoid in V d.c./a.c.
A TOWN	G1/4	10	44	1,5	0 10	0,5	8253000.8001.xxxxx
	1/4 NPT	10	44	1,5	0 10	0,5	8263000.8001.xxxxx
	G3/8	10	44	1,7	0 10	0,5	8253100.8001.xxxxx
	3/8 NPT	10	44	1,7	0 10	0,5	8263100.8001.xxxxx
	G1/2	10	60	1,7	0 10	0,6	8253200.8001.xxxxx
	1/2 NPT	10	60	1,7	0 10	0,6	8263200.8001.xxxxx

Fluid temperature:

Ambient temperature:

−10 ... +90°C (+14 ... +194°F)

-10 ... +50°C (+14 ... +122°F)

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

Seat seal FPM

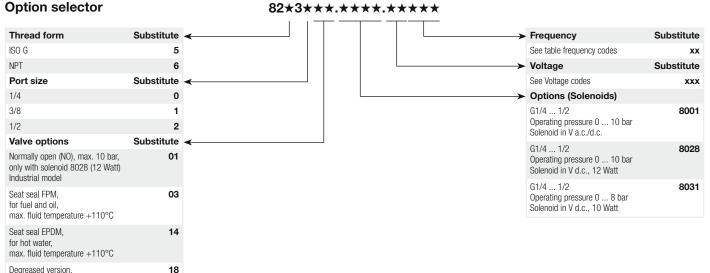
Seat seal HNBR,

Rail model

for hot water and steam, Operating pressure 0 ... 6 bar, Fluid temperature 0 ... +150°C (+32 ... +302°F) Normally open (NO),

Operating pressure 0 ... 20 bar, only for NBR and a.c. solenoid

Operating pressure 0 ... 8 bar, Fluid temperature 0 ... +60°C, only with solenoid 8031 (10 Watt),



Standard solenoid systems

Voltage and Frequency Solenoid 8001						
Code	Code	Voltage	Frequency	Power consumption		
Voltage	Frequency			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	

22

51

80

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

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.

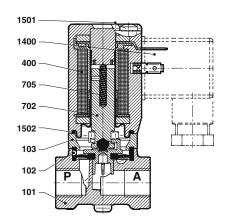
Additional solenoid systems

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

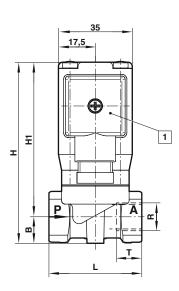


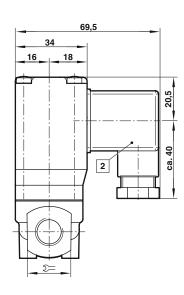
No.	Description
101	Valve body
*102	Diaphragm
103	Spacer
400	Solenoid
*702	Plunger
*705	Pressure spring
1400	Socket (included)
1501	Oval head cap screw
*1502	O-ring

^{*} 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	В	Н	H1	L	$\mathfrak{D}\!\!=\!$	Т	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. 3 § 3 of the Pressure Equipment Directive (PED) 97/23/EG. This means interpretation and production are in accordance to engineers practice well-known in the member

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 (2004/108/EEC) satisfied.