

2/2-way valves DN 10

For neutral gases and liquids

Solenoid actuated, with forced lifting

Diaphragm valves

Internal threads G 1/4 to G 1/2 or 1/4 NPT to 1/2 NPT

Operating pressure 0 to 10 bar

82530

82630

Description (standard valve)

Solenoid valve for e.g. air, water, oil and other neutral fluids

Switching function:	normally closed
Flow direction:	determined
Fluid temperature:	-10 °C up to max. +90 °C
Ambient temperature:	-10 °C up to max. +50 °C
Mounting position:	optional, preferably solenoid vertical on top

Material

Body:	Brass (CW617N), PA 66
Seat seal:	NBR
Internal parts:	Stainless steel, PVDF

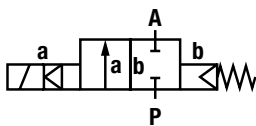


For contaminated fluids insertion of a strainer is recommended (see **Buschjost** accessories).

Features

- Suitable for vacuum
- Functional design
- Compact solenoid with integrated core tube
- Valve operates without differential pressure
- Operating pressure 0 - 20 bar with alternating current and NBR sealing

Symbol



Ordering information

To order, quote model number from table overleaf, e.g. 8253200.8001 for a DN 10 valve.

Characteristic data

Valves

Part Number	Nominal Diameter (mm)	Connection size	Valve length (mm)	Operating Pressure *		K _v -value ** (Base m ³ /h)	Weight (kg)
				min. (bar)	max. (bar)		
8253000.8001 8263000.8001	10	G 1/4 1/4 NPT	44	0	10	1.50	0.50
8253100.8001 8263100.8001	10	G 3/8 3/8 NPT	44	0	10	1.70	0.50
8253200.8001 8263200.8001	10	G 1/2 1/2 NPT	60	0	10	1.70	0.60

* for gases and liquid fluids up to 25 mm²/s (cSt)

State voltage [V] and frequency [Hz]

** C_v-value (US) ≈ K_v-value x 1.2

Solenoid 8001

Standard voltage

DC ===	AC ~ 50 Hz	AC ~ 60 Hz
24 V	24 V	–
–	110 V	120 V
–	230 V	220 V

Design acc. to DIN VDE 0580

Voltage range ±10 %

100 % duty cycle

Protection class acc. to EN 60529 IP65

Socket Form A acc. to DIN EN 175301-803 (included)

Power Consumption

According to DIN VDE 0580 at coil temperature of +20 °C. In operation the power consumption of the solenoid decreases by approx. 30 %.

Solenoid	DC ===	AC ~	
		Inrush	Holding
8001	12 W		
8001		20 VA	20 VA


Attention!

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

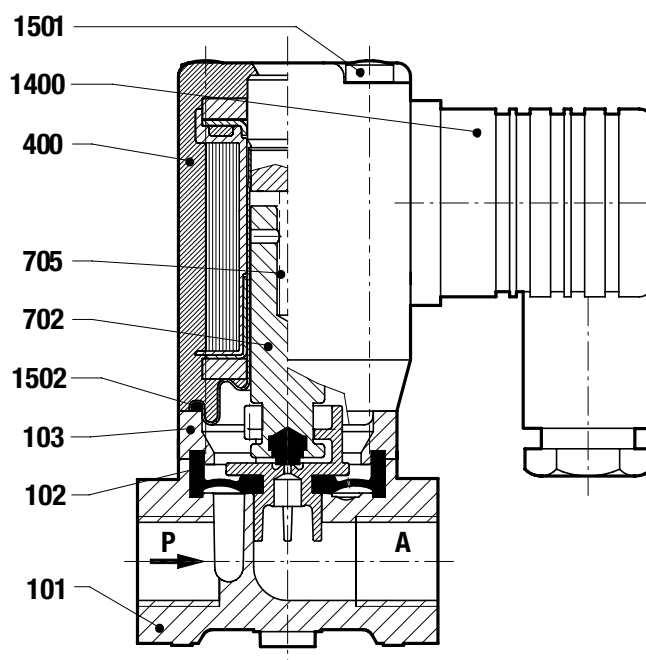
Further options (valves)

- XXXXX03.XXXX Seat seal FPM, for fuel and oil, max. fluid temperature +110 °C
- XXXXX14.XXXX Seat seal EPDM, for hot water, max. fluid temperature +110 °C
- XXXXX18.XXXX Degreased version, seat seal FPM
- XXXXX22.XXXX Operating pressure 0 up to 20 bar, only for NBR and AC solenoid
- XXXXX51.XXXX Seat seal HNBR, for hot water and steam, operating pressure 0 – 6 bar fluid temperature 0 °C up to max. +150 °C
- On request Further versions
- Accessoires: - body with fastening thread 2x M5

Further options (solenoids)

- XXXXXXX.8004 DC solenoid with rectifier for AC only
- XXXXXXX.8041 Protection class  II 2 GD EEx me II T3 T 140 °C
- On request Further versions

Section View

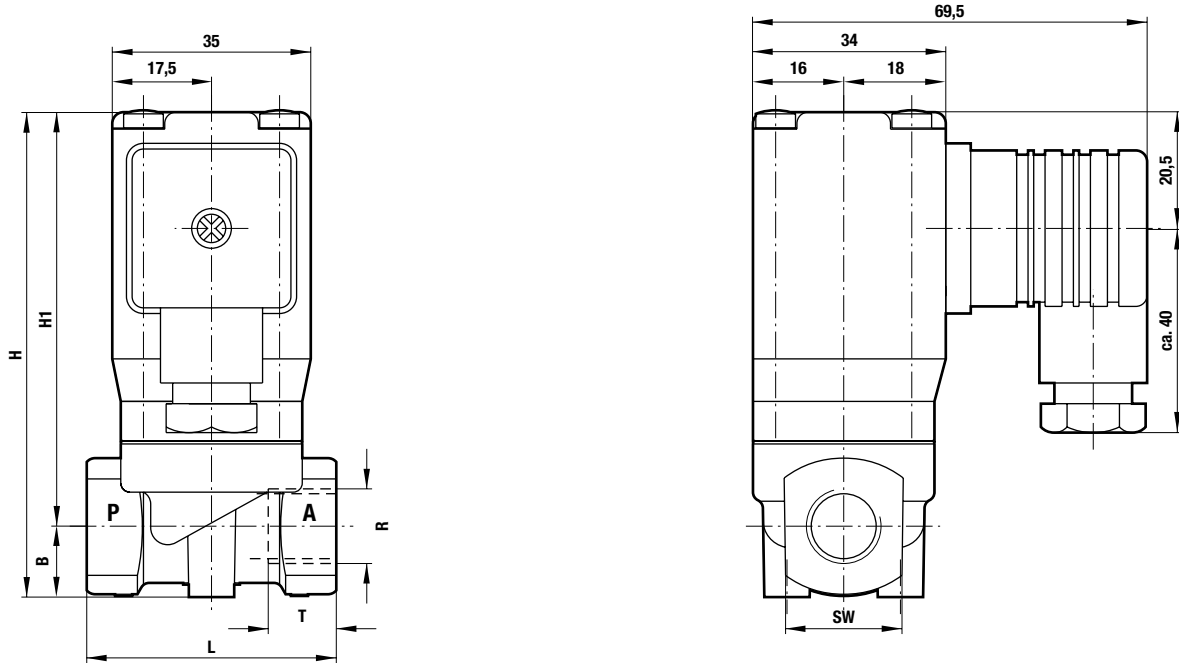


- 101 Valve body
- *102 Diaphragm
- 103 Spacer
- 400 Solenoid
- *702 Plunger
- *705 Pressure spring
- 1400 Electrical connector (included)
- 1501 Oval head cap screw
- *1502 O-ring

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

General Dimensions

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



Part Number	Nominal Diameter (mm)	Connection size	B (mm)	H (mm)	H1 (mm)	L (mm)	SW	T (mm)
8253000.8001 8263000.8001	10	G 1/4 1/4 NPT	14	87	73	44	21	12.0 10.0
8253100.8001 8263100.8001	10	G 3/8 3/8 NPT	14	87	73	44	21	12.0 10.0
8253200.8001 8263200.8001	10	G 1/2 1/2 NPT	14	90	74,5	60	27	15.0 13.0

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 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 harmoniised standards EN 61000-6-3 and EN 61000-6-1 are observed, and hence the requirements of the Electromagnetic Guideline (2004/108/EC) satisfied.