

2/2-way valves DN 3 to DN 8

For aggressive gases and fluids

Directly solenoid actuated

Seat valves with sealed core tube / medium separated

Internal thread G 1/4 to G 3/8

Operating pressure 0 to 7 bar (see table)

82080

Description (standard valve)

Seat valve for aggressive gases and fluids

Type:	seat valve operating without differential pressure
Switching function:	normally closed
Flow direction:	determined
Fluid temperature:	-10 °C up to max. +110 °C
Ambient temperature:	-10 °C up to max. +50 °C
Mounting position:	as required, preferably with solenoid vertical on top

Material

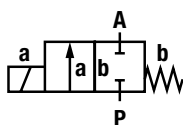
Body:	PVDF
Seat seal:	EPDM
Internal parts:	PTFE-bellows

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

Features

- Suitable for aggressive fluids
- Functional design
- Compact solenoid with integrated core tube
- Sealed core tube with PTFE-bellows
- Unsusceptible to calcification and magnetization of foreign particles

Symbol



Ordering Information

To order, quote model number from table overleaf, e.g. 8208000.8050 for a DN 3 valve.



Characteristic data

Valves

Part Number Solenoid with \equiv	Part Number Solenoid with \sim	Nominal Diameter (mm)	Connection size	Operating pressure *		k _v -value ** (Base m ³ /h)	Weight (kg)
				min. (bar)	max. (bar)		
8208000.8050	8208000.8051	3.0	G 1/4	0	7	0.23	0.3
8208100.8050	8208100.8051	3.0	G 3/8	0	7	0.23	0.3
8208060.8050	8208060.8051	4.5	G 1/4	0	5	0.42	0.3
8208160.8050	8208160.8051	4.5	G 3/8	0	5	0.42	0.3
8208070.8050	8208070.8051	6.0	G 1/4	0	2	0.62	0.3
8208170.8050	8208170.8051	6.0	G 3/8	0	2	0.62	0.3
8208080.8050	8208080.8051	8.0	G 1/4	0	1	0.83	0.3
8208180.8050	8208180.8051	8.0	G 3/8	0	1	0.83	0.3

* for gases and liquid fluids up to 80 mm²/s (cSt)

State voltage [V] and frequency [Hz]

** C_v-value (US) \approx k_v-value x 1.2

Solenoid 8050 / 8051

Standard voltages

DC \equiv	AC \sim 40 Hz – 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)

AC with rectifier plug

Further Options (Valves)

XXXXX03.XXXX Seat seal FPM,
max. fluid temperature +110 °C

XXXXX06.XXXX Seat seal PTFE,
max. fluid temperature +110 °C

On request Further versions

Further Options (Solenoids)

XXXXXXXX.8042 Solenoid in protection class
⊕ II 2 GD EEx me II T3 T 140 °C

On request Further versions

Power Consumption

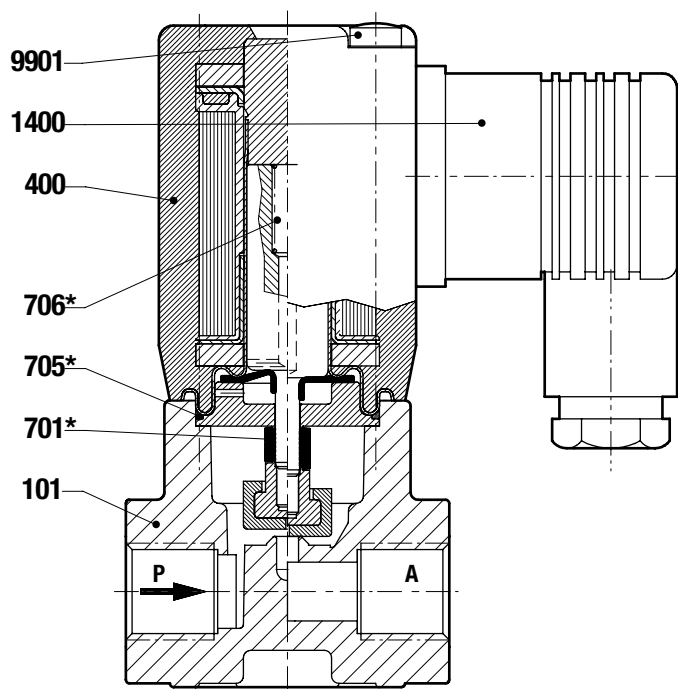
According to DIN VDE 0580 at coil temperature of +20 °C. In operation the power consumption of the solenoid decreases by approx. 30 %.

Solenoid	DC \equiv	AC \sim	
		Inrush	Holding
8050	12 W	–	–
8051	–	13 VA	13 VA

Attention!

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

Section View

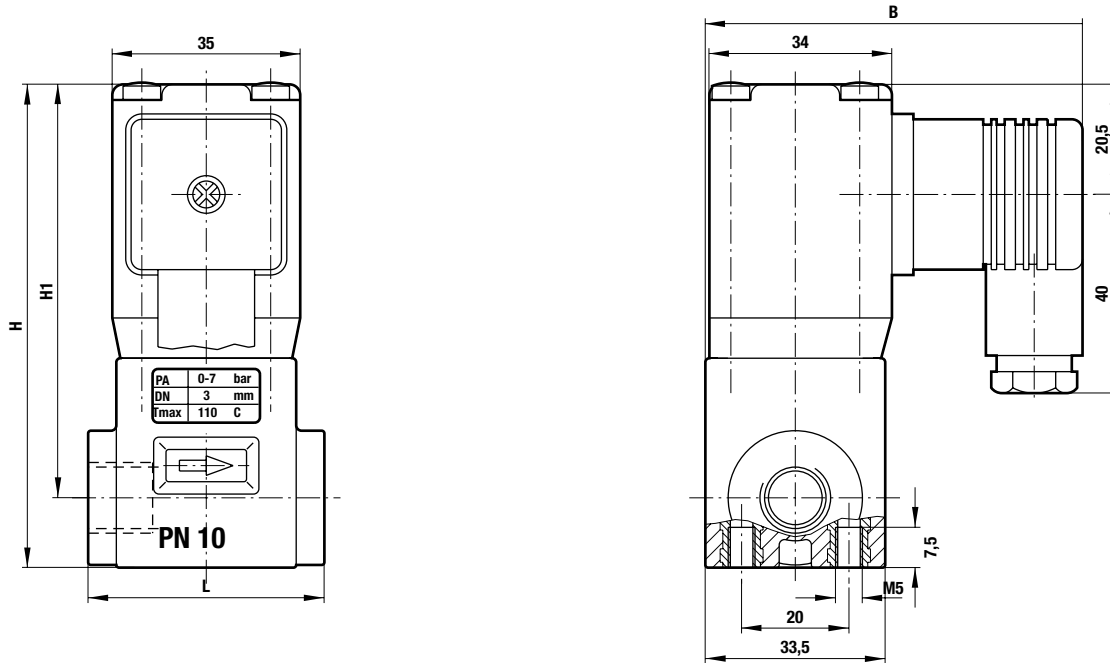


- 101 Valve body
- 400 Solenoid
- *701 Bellow assembly
- *705 O-ring
- *706 Pressure spring
- 1400 Electrical connector
- 9901 Oval head cap screw

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

General Dimensions

Solenoid and Socket turnable 4 x 90°
(Socket included)



Part Number	Nominal Diameter (mm)	Connection size	B * (mm)	H (mm)	H1 (mm)	L (mm)
82080XX.8050	3	G 1/4	70	90	77	44
82080XX.8051	3	G 3/8	70	90	77	44
82081XX.8050	4.5	G 1/4	70	90	77	44
82081XX.8051	4.5	G 3/8	70	90	77	44

* B = max. depth

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