2/2-way valves DN 10

for neutral gaseous and liquid fluids
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

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

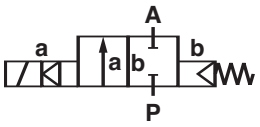
Body:	Brass, PA 66
Seat seal:	NBR
Internal parts:	Stainless steel, PVDF

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

Features

- Suitable for vacuum
- Clear design
- Compact solenoid with integrated core tube
- Valve operates without pressure differential (Δp)
- Operating pressure 0 – 20 bar with AC and NBR sealing

Symbol



Ordering information

To order, quote model number from table overleaf, e.g. 8253200.8001 for a G 1/2 valve with standard solenoid.

Characteristic data

See page 2 valve and solenoid informations

Detmolder Straße 256
D-32545 Bad Oeynhausen

Postfach 10 02 52-53
D-32502 Bad Oeynhausen

Telefon 05731 / 7 91-0
Telefax 05731 / 791-179

http://www.buschjost.de
mail@buschjost.de

Characteristic data

Valves

Part Number with DC or AC solenoid	Nominal Diameter (mm)	Port size	Valve length (mm)	Operating Pressure * min	max (bar)	kv-value ** (Base m^3/h)	Weight (kg)
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

State voltage [V] and frequency [Hz]

* with gaseous and liquid fluids up to 25 mm^2/s (cSt)
** C_V-value (US) ≈ k_V-value x 1,2

8001 Solenoid

Standard voltages

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

Design acc. to VDE 0580
Voltage range ±10 %
100 % duty cycle
Protection class acc. to EN 60529 IP65
Socket acc. to DIN EN 175301-803 (included)

Power Consumption

According to VDE 0580 at coil temperature +20 °C. In operating the solenoid coil decrease the power consumption appr. 30 %.

DC	AC Inrush	AC Holding
12 W	20 VA	16 VA

For technical details see catalogue-register "Solenoids"

Options

available at extra cost

Valves

XXXXX**03.**XXXX	Seat seal FPM, max. fluid temperature +110 °C
XXXXX**14.**XXXX	Seat seal EPDM, for hot water, max. fluid temperature +110 °C
XXXXX**18.**XXXX	Degreased version, seat seal FPM
XXXXX**22.**XXXX	Operating pressure 0 up to 20 bar, only for NBR and AC solenoid
XXXXX**51.**XXXX	Seat seal HNBR, for hot water and steam, fluid temperature 0 °C up to max. +150 °C, operating pressure 0 – 6 bar
On request	Further versions body with fastening thread 2x M5

Options

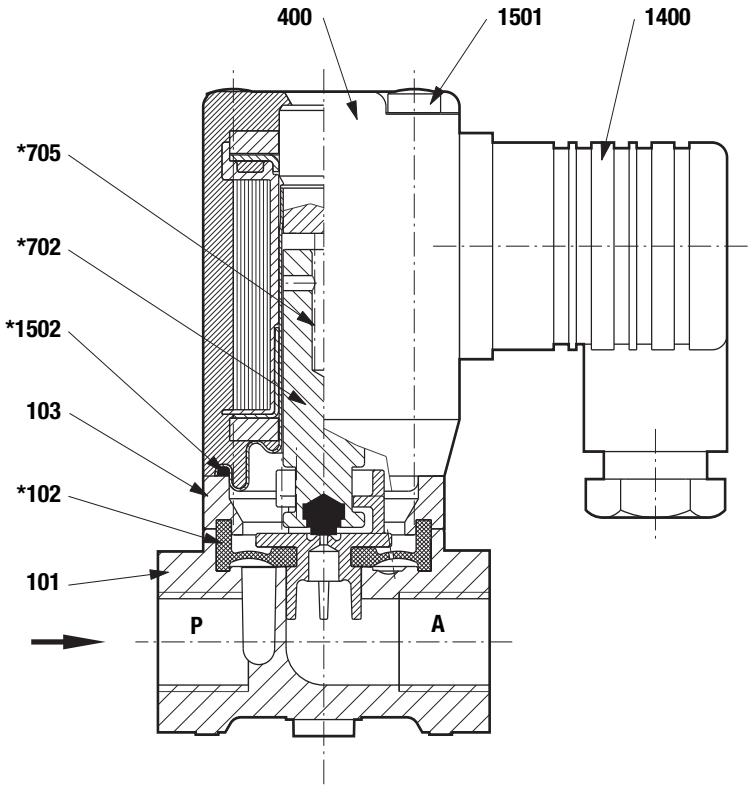
available at extra cost

Solenoids

XXXXXXX**.8004**	DC solenoid with rectifier for AC only
XXXXXXX**.8041**	Solenoid in protection class EEx me II T3
On request	Further versions

Section View

Solenoid rotated by 90° in drawing

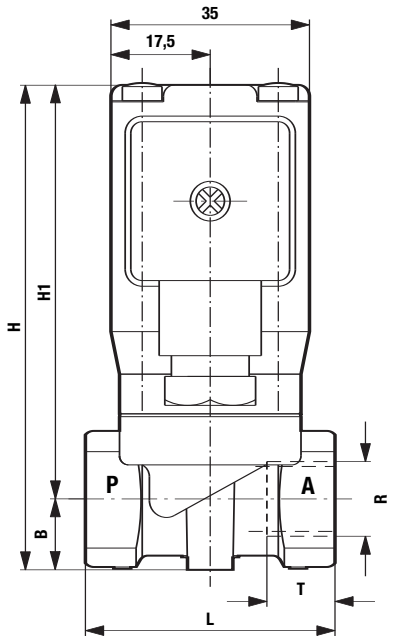


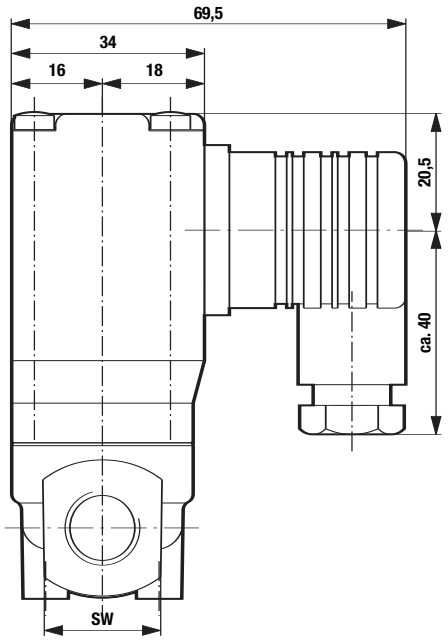
101	Valve body
*102	Diaphragm
103	Spacer
400	Solenoid
*702	Core
*705	Pressure spring
1400	Socket
1501	Oval head cap screw
*1502	O-ring

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

General Dimensions

Socket turnable 4 x 90°





Part Number	L	H	H1	B	SW	R	T
8253000.8001 8263000.8001	44	87	73	12,5	21	G 1/4 1/4" NPT	12,0 10,0
8253100.8001 8263100.8001	44	87	73	12,5	21	G 3/8 3/8" NPT	12,0 10,0
8253200.8001 8263200.8001	60	90	75,5	12,5	27	G 1/2 1/2" NPT	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 harmonised standards EN 50081-1 and EN 50082-1 are observed, and hence the requirements of the Electromagnetic Compatibility Guideline (89/336/EEC) satisfield.