2/2-way valves DN 20 to DN 50

for air
Indirectly solenoid actuated
Diaphragm valves
Internal threads G 3/4 up to G 2
Operating pressure 0.3 to 8 bar

82860

OBSOLETE DOCUMENT
Technical Reference Only

Description (standard valve)

Flow direction:	determined
Fluid temperature:	max. +90°C
Ambient temperature:	max. +50°C
Sum of fluid and ambient temperature:	max +130°C
Mounting position:	optional, preferably solenoid vertical on top

Material

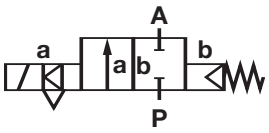
Body:	Aluminium
Seat seal:	fabric diaphragm with NBR valve plate

Venting from top of the diaphragm into atmosphere (without connection thread).
For contaminated media insertion of a strainer (see accessories) is recommended.

Features

- Filter ventilation valve
- Short switching time
- High flow rate

Symbol



Ordering information

To order, quote model number from table overleaf, e.g. 8286351.8001 for a G 3/4 valve with standard solenoid.

Characteristic data

See page 2 valve and solenoid informations

Detmolder Strasse 256
D-32545 Bad Oeynhausen

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D-32502 Bad Oeynhausen

Phone ++49 5731 / 791-0
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http://www.buschjost.com
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Characteristic data

Valves

Part Number	DN mm	Connection	Weight kg	Operating Pressure (bar) min.[1]	max.	kv-value [2] Base m^3/h	Section No.	Dimension table No.
8286351.8001	20	G 3/4	0.6	0.3	8	15	01	01
8286451.8001	25	G 1	0.65	0.3	8	20	01	02
8286651.9303	40	G 1 1/2	1.40	0.3	8	43	02	04
8286751.9303	50	G 2	1.90	0.3	8	61	03	05

State voltage [V] and frequency [Hz]

[1]) Minimum pressure differential P -> A 0.3 bar
[2]) C_V-value (US) ≈ k_V-value x 1.2

Solenoid

Standard voltages

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

Design acc. to DIN VDE 0580
Voltage range ±10 %
100 % duty cycle
Protection class acc. to DIN VDE 0470 T1 IP 65, EN 60529
Socket acc. to DIN 43 650

Power Consumption

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

Magnet	DC	AC Inrush	AC Holding
8001	12 W	20 VA	16 VA
9303	16 W	50 VA	24 VA

For technical details see catalogue-register "Solenoids"

Options (Valves)

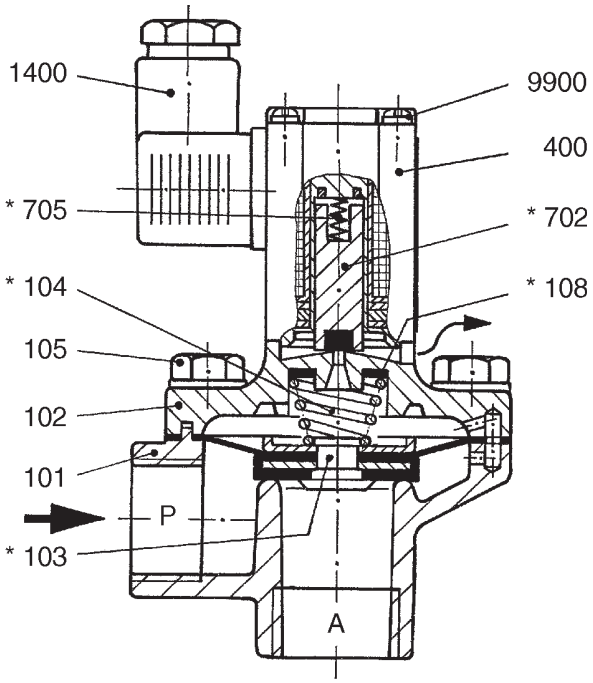
XXXXX**54.**XXXX Flange mounted (without body)

XXXXX**56.**XXXX Double pilot stage (extremly short switching time)

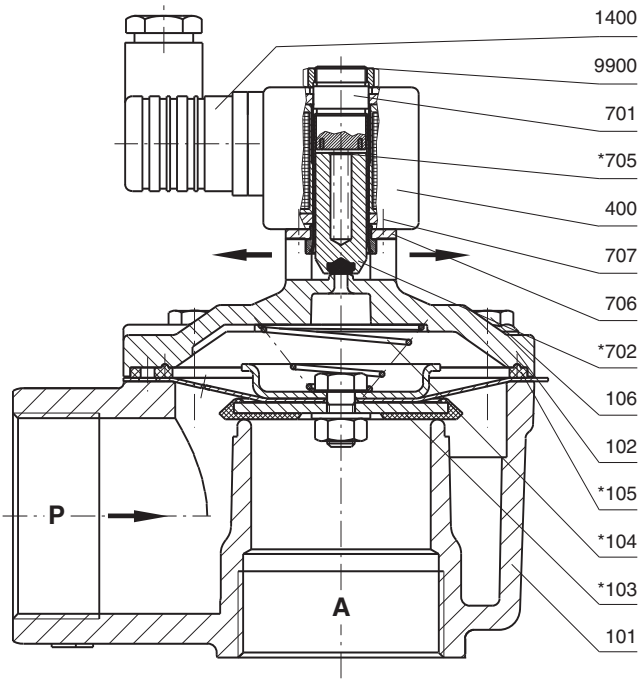
On request Further versions

Section View

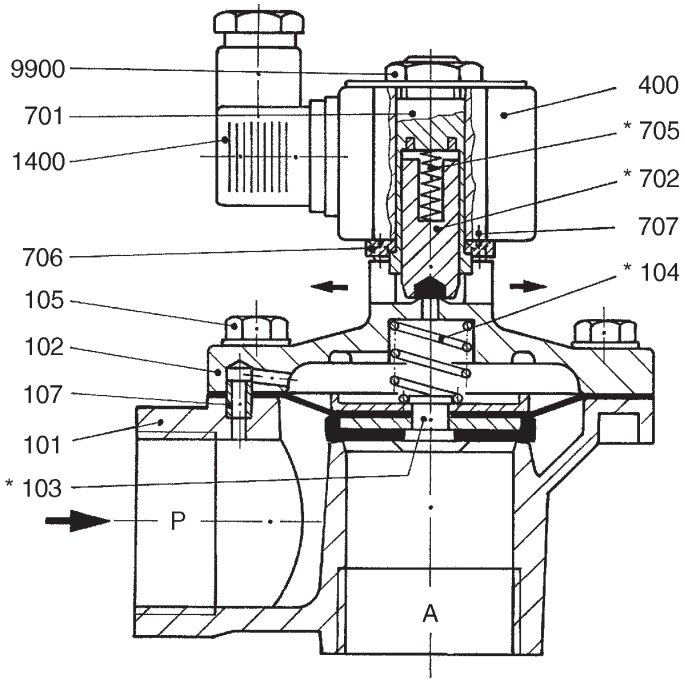
01



03



02



	101 Body	
	102 Body cover	
*	103 Diaphragm	
*	104 Compression spring	
	105 Locking bolt	Sections 01 and 02
*	105 Seal ring	Section 03
	106 Hex bolt	Section 03
	107 Bush	Section 02
*	108 Gasket	Section 01
	400 Solenoid	
	701 Core tube	Sections 02 and 03
*	702 Core	
*	705 Compression spring	
	706 Plate	Sections 02 and 03
	707 Countersunk screw	Sections 02 and 03
1400	Socket	Section 03
9900	Oval head cap screw	Section 01
9900	Hex nut	Sections 02 and 03

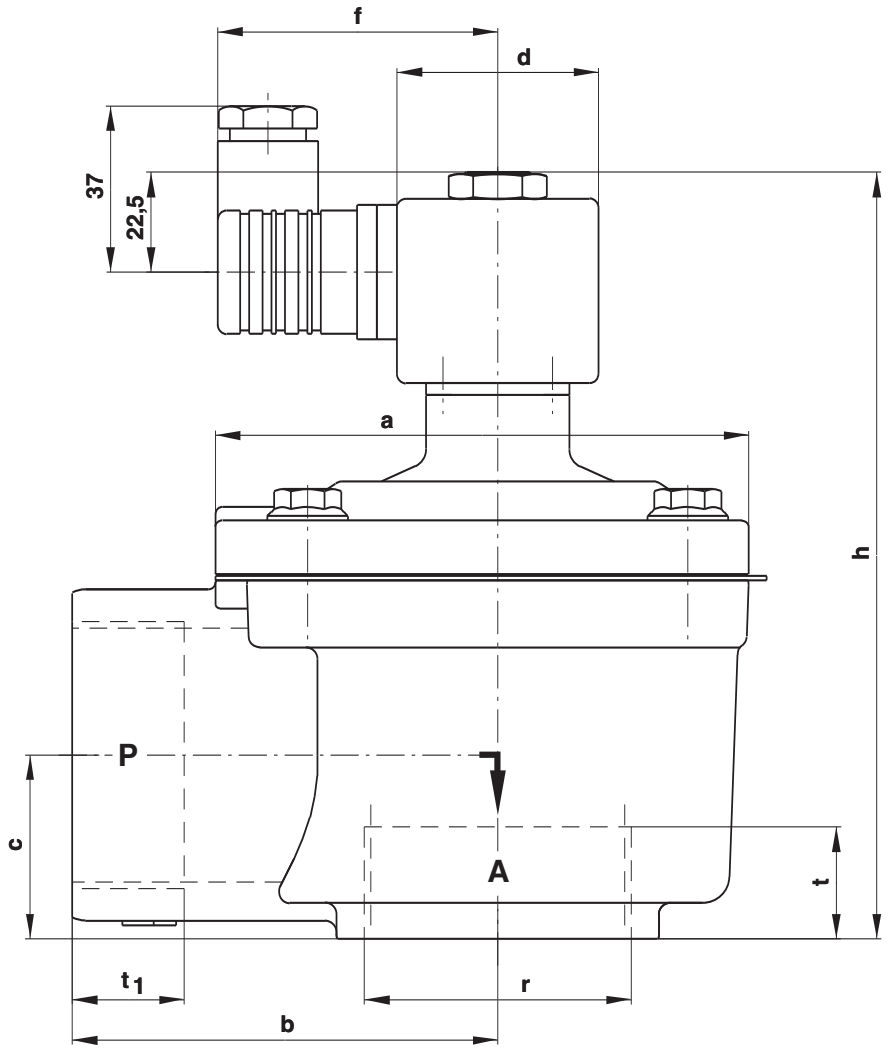
* These individual parts form a complete wearing unit.
When ordering spare parts please state Cat no and series no.

General Dimensions

Solenoid cat no 8001 can be inserted in 4 positions 90° apart

Solenoid cat no 9303 can be rotated 360°

Socket can be inserted in 4 positions 90° apart



Part Number	a	b	c	□ d	e	f	h	r	t	t_1
01	□ 75	44	30	32 x 35	Pg 9	52	120	G 3/4	15	15
02	□ 75	50	30	32 x 35	Pg 9	52	125	G 1	18	18
04	Ø 115	75	31	45 x 54	Pg 11	63	145	G 1 1/2	20	17
05	□ 112	95	41	45 x 54	Pg 11	63	174	G 2	25	25

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.