82340 82440

2/2-way-valves DN 8 to DN 50

for neutral gaseous and liquid fluids solenoid actuated, with forced lifting Diaphragm valves Internal threads G 1/4 to G 2 or 1/4" NPT to 2" NPT Operating pressure 0 to 16 bar



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. $+90^{\circ}\text{C}$ Ambient temperature: -10°C up to max. $+50^{\circ}\text{C}$ Mounting position: optional, preferably solenoid

vertical on top



Material

Body: Brass Seat seal: NBR

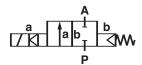
Internal parts: Stainless steel, Brass

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

Features

- Valve operates without differential pressure (Δ p)
- · High flow rate
- · Easily interchangeable solenoid
- · Suitable for vacuum

Symbol



Ordering information

To order, quote model number from table overleaf, e.g. 8234000.8301 for a G 1/4 valve with standard solenoid.

Characteristic data

See page 2 valve and solenoid informations

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2/2-way valves DN 8 to DN 50

Characteristic data

Valves

Part Number with DC solenoid	Part Number with AC solenoid	Nominal Diameter (mm)	Port size	Operating min	Pressure * max (bar)	kv-value ** (Base m³/h)	Weight (kg)
8234000.8301	8234000.8304	8	G 1/4	0 16	16	2.00	1.3
8244000.8301	8244000.8304	0	1/4" NPT		2.00	1.0	
8234100.8301	8234100.8304	10	G 3/8	0 16	16	3.40	1.2
8244100.8301	8244100.8304	10	3/8" NPT		10	3.40	1.4
8234200.8301	8234200.8304	10	G 1/2	0 1	10	3.60	1.2
8244200.8301	8244200.8304	12	1/2" NPT		16		
8234300.8301	8234300.8304	20	G 3/4	0	16	10.00	1.9
8244300.8301	8244300.8304	20	3/4" NPT				
8234400.8301	8234400.8304	05	G 1	0	16	12.50	1.8
8244400.8301	8244400.8304	25	1" NPT				
8234500.8401	8234500.8404	00	G 1 1/4	0	16	27.00	4.7
8244500.8401	8244500.8404	32	1 1/4" NPT				
8234600.8401	8234600.8404	40	G 1 1/2	0 16	10	30.00	4.6
8244600.8401	8244600.8404		1 1/2" NPT		10		
8234700.8401	8234700.8404	50	G 2	0	10	43.00	5.5
8244700.8401	8244700.8404		2" NPT		10		

^{*} with gaseous and liquid fluids up to 25 mm²/s (cSt)

State voltage [V] and frequency [Hz]

8301/8304 and 8401/8404 Solenoid

Standard voltages

DC	AC		
	40 Hz to 60 Hz		
24 V	24 V		
_	110 V		
205 V	230 V		

Design acc. to DIN VDE 0580 Voltage range ±10 % 100 % duty cycle

Protection class acc. to EN 60529 IP65 with mounted Socket

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

AC solenoids with rectifier

Power Consumption

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

Solenoid	DC	AC Inrush	Holding
8301	22 W	–	–
8304	-	25 VA	25 VA
8401	40 W	–	–
8404	-	45 VA	45 VA

Attention!

Restricted temperature range for explosion proof solenoids.

For technical details see catalog-register "Solenoids".

Options (Valves)

XXXXX**01.**XXXX Normally open XXXXX**03.**XXXX Seat seal FPM,

max. fluid temperature +110°C, operating pressure 10 bar max,

differential pressure for liquid fluids max 1 bar

in energized position

XXXXX**14.**XXXX Seat seal EPDM, for hot water,

max fluid temperature +110°C, operating pressure 10 bar max,

differential pressure for liquid fluids max 1 bar

in energized position

XXXXX**17.**XXXX Normally open,

Seat seal FPM,

max fluid temperature +110°C, operating pressure 10 bar max,

differential pressure for liquid fluids max 1 bar

in energized position

On request Further versions

Options (Solenoids)

XXXXXXX.8341 Solenoid in protection class

XXXXXXX.8441 Solenoid in protection class

XXXXXXX.8900 Solenoid in protection class

in Il 2 GD EEx de IIC T4 und T5 T 140°C

XXXXXXX**.8920** Solenoid in protection class

(Ex all CT4 und T5 T 140°C

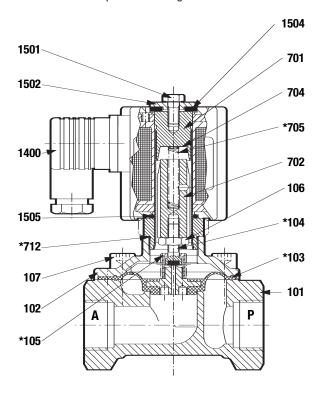
On request Further versions

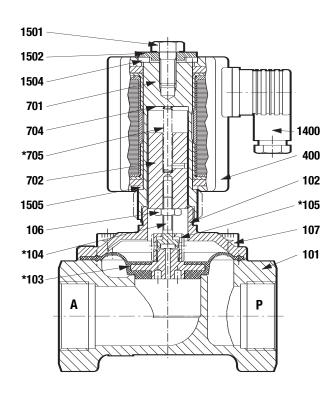
C_V-value (US) \approx k_V-value x 1.2



Section View

to G 1 bzw. 1" NPT up to G 1 1/4 e.g. 1 1/4" NPT





- 101 Valve body
- 102 Body cover
- *103 Diaphragm
- *104 Valve spindle
- *105 Screw piece
- 106 Hexagon nut
- 107 Oval head cap screw up to 1/2 (1/2" NPT) Hexagon socket screw for G 3/4 (3/4" NPT)
- 400 Solenoid
- 701 Core tube
- 702 Core

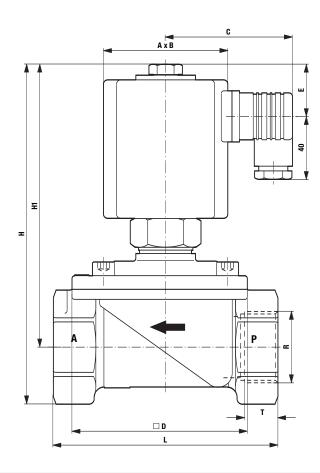
- 704 Anti magnetic spacer
- *705 Pressure spring
- *712 O-ring
- 1400 Socket
- 1501 Hexagon screw
- 1502 Round plate
- 1504 Gasket
- 1505 O-ring

^{*} These individual parts from a complete wearing unit.
When ordering spare parts please state Cat No and Series No.



General Dimensions

Solenoid may be rotated 360° Socket turnable 4 x 90°



Part Number	AxB	С	□ D	Е	Н	H1	L	R	Т
8234000.830x	52 x 65	65	44	26	125	110	67	G 1/4	12.0
8244000.830x								1/4" NPT	10.0
8234100.830x	52 x 65	65	44	26	125	110	67	G 3/8	12.0
8244100.830x								3/8" NPT	10.5
8234200.830x	52 x 65	65	44	26	125	110	67	G 1/2	14.0
8244200.830x		00	44	20	125	110		1/2" NPT	13.5
8234300.830x	E2 v 6E	65	70	26	150	125	95	G 3/4	12.5
8244300.830x	52 x 65							3/4" NPT	14.0
8234400.830x	52 x 65	65	70	26	150	125	95	G 1	14.0
8244400.830x								1" NPT	17.0
8234500.840x	72 x 91	2 x 91 75	96	31	205	170	132	G 1 1/4	18.0
8244500.840x								1 1/4" NPT	17.0
8234600.840x	72 x 91	75	96	31	205	170	132	G 1 1/2	18.0
8244600.840x								1 1/2" NPT	17.0
8234700.840x	72 x 91	75 112	112 31	21	220	180	160	G 2	20.0
8244700.840x				220	100	100	2" NPT	17.5	

Note to Pressure Equipment Directive (PED):

The valves of this series, including the connection-size DN 25 (G 1), 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 refers not to the PED. Thus the declaration of conformity is not longer applicable for this directive.

For valves > DN 25 (G 1) Art. 3 § (1) No.1.4 applies.

The basic requirements of the Enclosure I of the PED must be fulfilled. The CE-sign at the valve includes the PED. A certificate of conformity of this directive will be available on request.

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.

Buschjost and the picture [



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