

2/2-way valves DN 8 – DN 50

For neutral gases and liquids

Indirectly solenoid actuated

Piston valves

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

Operating pressure 0.5 to 40 bar

85360

85370

Description (standard valve)

Solenoid valve for air, water and other neutral fluids

Switching function:	normally closed
Flow direction:	determined
Fluid temperature:	-20 °C ... max. +90 °C
Ambient temperature:	-20 °C ... max. +50 °C
Mounting position:	optional, preferably solenoid vertical on top

Material

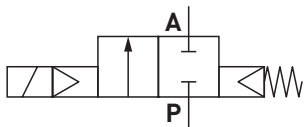
Body:	Brass (CW617N)
Seat seal:	NBR
Internal parts:	Stainless steel, Brass, PTFE / Carbon

For contaminated fluids insertion of a strainer is recommended.

Features

- Compact build piston valve
- Functional design
- High flow rate
- Damped operation via cone
- Piston guided in PTFE rings
- Long lifetime
- Solenoid interchangeable without tools (**Click-on®**)

Symbols



Ordering information

To order, quote model number from table overleaf. e. g. 8536400.9151 for a DN 25 valve.

Click-on®



Characteristic Data

Valves

Part Number Solenoid with 1	Nominal Diameter (mm)	Connection Size	Operating Pressure *		kv-value ** (Base m ³ /h)	Weight Total (kg)
			min. (bar)	max. (bar)		
8536000.9151 8537000.9151	8	G 1/4 1/4 NPT	0.5	40	2.2	0.83
8536100.9151 8537100.9151	10	G 3/8 3/8 NPT	0.5	40	3.4	0.82
8536200.9151 8537200.9151	12	G 1/2 1/2 NPT	0.5	40	4.4	0.85
8536300.9151 8531300.9151	20	G 3/4 3/4 NPT	0.5	40	7.0	1.25
8536400.9151 8537400.9151	25	G 1 1 NPT	0.5	40	10.5	1.70
8536500.9151 8537500.9151	32	G 1 1/4 1 1/4 NPT	0.5	40	25.0	4.10
8536600.9151 8537600.9151	40	G 1 1/2 1 1/2 NPT	0.5	40	27.0	3.85
8536700.9151 8537700.9151	50	G 2 2 NPT	0.5	40	43.0	5.60

* for gases and liquid fluids up to 40 mm²/s (cSt)

** C_v-value (US) ≈ kv-value x 1.2

State voltage [V] and frequency [Hz]

Solenoid 9151

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
9151 *	18 W	45 VA	35 VA

*  coil only

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)

XXXXX**01**.XXXX Normally open (NO);
up to DN 25: operating pressure 0.5 ... 35 bar
from DN 32: operating pressure 0.5 ... 25 bar

XXXXX**02**.XXXX Manual override



XXXXX**03**.XXXX Seat seal FPM;
fluid temperature -10 °C ... +110 °C

XXXXX**06**.XXXX Seat seal PTFE,
fluid temperature -10 °C ... +110 °C,
operating pressure 1... 40 bar



XXXXX**14**.XXXX Seat seal EPDM; for hot water.
fluid temperature -20 °C ... +110 °C

On request Further versions
eg. mounting bracket

Further Options (Solenoids)

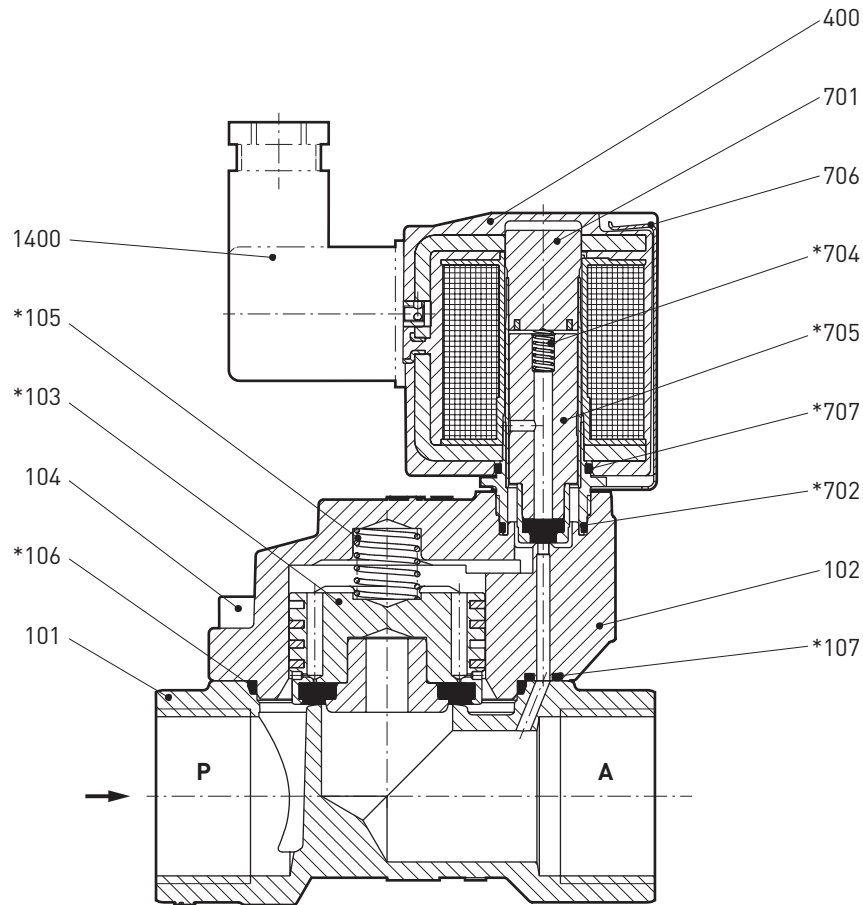
XXXXXXXX**.9176** Protection class
 II 3 G Ex nA II T4
 II 3 D Ex tD A22 IP65 T 135°C

XXXXXXXX**.9186** Protection class
 II 2 GD EEx me II T4 T 110 °C

XXXXXXXX**.468x** Protection class
 II 2 G Ex dmb IIC T4/T5
 II 2 D Ex tD A21 IP66 T 130°C
up to DN 25: operating pressure 0.5 ... 16 bar
from DN 32: operating pressure 0.5 ... 10 bar

On request Further versions

Section View

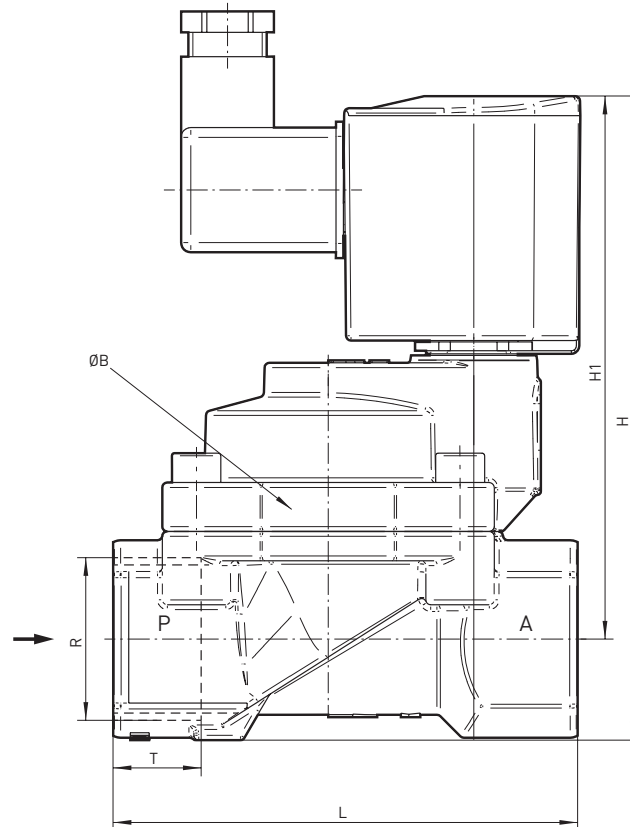


- 101 Valve body
- 102 Valve cover
- *103 Valve plate
- 104 Allen head screw
- *105 Pressure spring
- *106 Gasket
- *107 O-ring / gasket
- 400 Solenoid
- 701 Core tube
- *702 O-ring
- *704 Pressure spring
- *705 Plunger
- 706 Spring clip
- *707 O-ring
- 1400 Electrical connector (included)

* 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	Ø B (mm)	H (mm)	H 1 (mm)	L (mm)	T (mm)
8536000.9151 8537000.9151	8	G 1/4 1/4 NPT	44	105.0	93.5	60	12
8536100.9151 8537100.9151	10	G 3/8 3/8 NPT	44	105.0	93.5	60	12
8536200.9151 8537200.9151	12	G 1/2 1/2 NPT	44	107.5	93.5	67	14
8536300.9151 8537300.9151	20	G 3/4 3/4 NPT	50	119.0	102.5	80	16
8536400.9151 8537400.9151	25	G 1 1 NPT	62	131.5	110.5	95	18
8536500.9151 8537500.9151	32	G 1 1/4 1 1/4 NPT	92	166.0	137.0	132	20
8536600.9151 8537600.9151	40	G 1 1/2 1 1/2 NPT	92	166.0	137.0	132	22
8536700.9151 8537700.9151	50	G 2 2 NPT	109	186.0	151.5	160	24

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