

## 85380/85390 2/2-way piston valves

- Port size: DN 8 ... 25, 1/4 ... 1 (ISO G/NPT)
- Compact build piston valve
- Functional design
- High flow rate
- Piston guided in PTFE rings
- Long lifetime
- Solenoid interchangeable without tools (Click-on®)
- Leakrate E acc. to DIN EN 12266-1
- International approvals



### Technical features

**Medium:**  
Neutral steam and liquids

**Switching function:**  
Normally closed

**Operation:**  
Indirectly solenoid actuated

**Mounting:**  
Optional, preferably solenoid vertical on top

**Flow direction:**  
Determined

**Port size:**  
G1/4, G3/8, G1/2, G3/4, G1, 1/4 NPT, 3/8 NPT, 1/2 NPT, 3/4 NPT, 1 NPT

**Operating pressure:**  
1 ... 25 bar (14,5 ... 362 psi)

**Fluid temperature:**  
0 ... +200°C (+32 ... +392°F)\*3)

**Ambient temperature:**  
0 ... +50°C (+32 ... +122°F)\*3)  
with solenoid mounted vertical underneath max. +60 °C (+140°F)

**Material:**  
Body: Brass (CW617N)  
Seat seal: PTFE  
Internal parts: Stainless steel, FPM, PTFE

For contaminated fluids insertion of a strainer is recommended.

### Technical data – standard models

Symbol	Port size	Orifice (mm)	Flow kv value *1) (m <sup>3</sup> /h)	Operating pressure *2)		Weight (kg)	Model Solenoid in V d.c./a.c.
				(bar)	(psi)		
	G1/4	8	2,2	1 ... 25	14,5 ... 362	0,83	8538000.9152.xxxxx
	1/4 NPT	8	2,2	1 ... 25	14,5 ... 362	0,83	8539000.9152.xxxxx
	G3/8	10	3,4	1 ... 25	14,5 ... 362	0,82	8538100.9152.xxxxx
	3/8 NPT	10	3,4	1 ... 25	14,5 ... 362	0,82	8539100.9152.xxxxx
	G1/2	12	4,4	1 ... 25	14,5 ... 362	0,85	8538200.9152.xxxxx
	1/2 NPT	12	4,4	1 ... 25	14,5 ... 362	0,85	8539200.9152.xxxxx
	G3/4	20	7	1 ... 25	14,5 ... 362	1,25	8538300.9152.xxxxx
	3/4 NPT	20	7	1 ... 25	14,5 ... 362	1,25	8539300.9152.xxxxx
	G1	25	10,5	1 ... 25	14,5 ... 362	1,7	8538400.9152.xxxxx
	1 NPT	25	10,5	1 ... 25	14,5 ... 362	1,7	8539400.9152.xxxxx

xxxxx Please insert voltage and frequency codes

\*1) Cv-value (US) ≈ kv value x 1,2

\*2) For gases and liquid fluids up to 40 mm<sup>2</sup>/s (cSt)

\*3) Temperature < 0°C on request

### Option selector

853\*\*\*\*.9152.\*\*\*\*\*

Thread form	Substitute
ISO G	6
NPT	7
Port size	Substitute
1/4	0
3/8	1
1/2	2
3/4	3
1	4
Valve options	Substitute
Normally open (NO), Operating pressure 1 ... 16 bar (14 ... 232 psi)	01
Manual override	02

Frequency	Substitute
See table frequency codes	xx
Voltage	Substitute
See table voltage codes	xxx

### Standard solenoid systems

Voltage and Frequency Solenoid 9152 *4)					
Code Voltage	Code Frequency	Voltage	Frequency	Power consumption	
				Inrush	Holding
024	00	24 V d.c.	-	10 W	10 W
024	50	24 V a.c.	50 Hz	45 VA	10 W
110	50	110 V a.c.	50 Hz	45 VA	10 W
120	60	120 V a.c.	60 Hz	45 VA	10 W
230	50	230 V a.c.	50 Hz	45 VA	10 W

\*4)  US only

Further versions on request!

### Electrical details for all solenoid systems

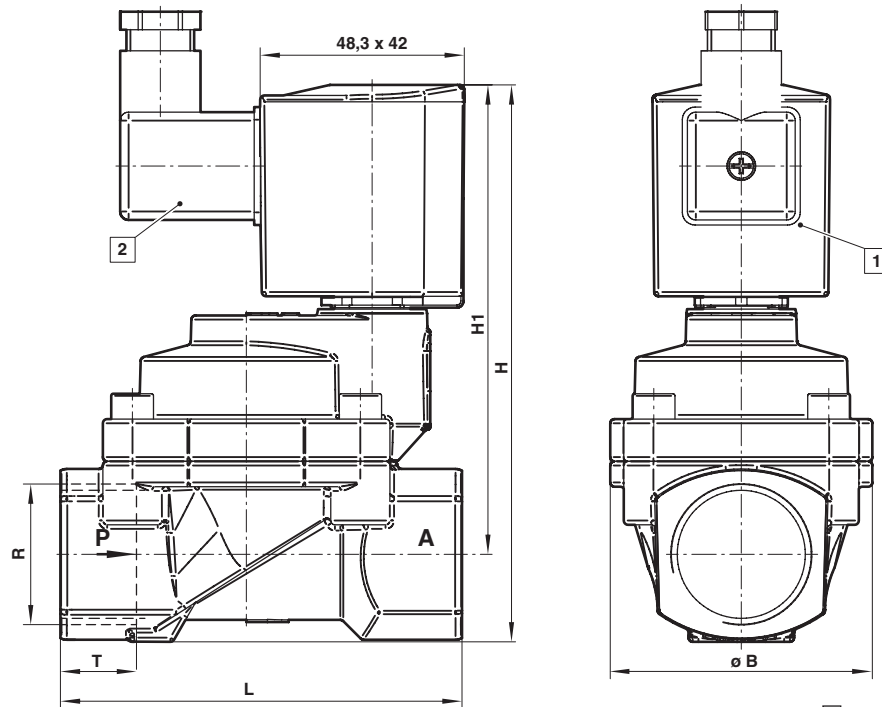
Design	DIN VDE 0580
Voltage range	±10%
Duty cycle	100% ED
Protection class	EN 60529 IP65
Socket	Form A acc. to DIN EN 175301-803 (included)

According to DIN VDE 0580 at a solenoid temperature of +20°C.  
At operating state temperature the input power of a coil decreases by up to ca. 30% due to physical reasons.

## Dimensions

G1/4 ... 1  
1/4 ... 1 NPT

Dimensions in mm  
Projection/first angle



- 1 Solenoid rotatable 360°
- 2 Socket turnable 4 x 90°  
(Socket included)

Port size R	ø B	H	H1	L	T	Model
G1/4	44	105	93,5	60	12	8538000.9152.xxxxx
1/4 NPT	44	105	93,5	60	12	8539000.9152.xxxxx
G3/8	44	105	93,5	60	12	8538100.9152.xxxxx
3/8 NPT	44	105	93,5	60	12	8539100.9152.xxxxx
G1/2	44	107,5	102,5	67	14	8538200.9152.xxxxx
1/2 NPT	44	107,5	102,5	67	14	8539200.9152.xxxxx
G3/4	50	119	102,5	80	16	8538300.9152.xxxxx
3/4 NPT	50	119	102,5	80	16	8539300.9152.xxxxx
G1	62	131,5	110,5	95	18	8538400.9152.xxxxx
1 NPT	62	131,5	110,5	95	18	8539400.9152.xxxxx

### Note to Pressure Equipment Directive (PED):

The valves of this series up to and including DN 25 (G1) are according to Art. 4 § 3 of the Pressure Equipment Directive (PED) 2014/68/EU. 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.

### For valves > DN 25 (G1) Art. 4 § (1) Letter d) 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 (2014/30/EU) satisfied.

### Note to EAC marking:

The EAC-marked products comply with the applicable requirements stated in the technical regulations of the Eurasian Economic Union.