- **Port size: DN 25, G1**
- **Valve operates without differential pressure**
- **Valve with PTFE piston guide rings**
- **Suitable for vacuum**
- **Damped operation**
- **Shock and vibration tested to EN 61373, Category 1, class B**
- **Voltage tolerance ±30%**

EN 61373

+60°C (+140°F)

–40°C (–40°F)

## Technical features

**Medium:**
Air, water and oil
**Switching function:**
Normally open
**Operation:**
Solenoid actuated, with forced lifting
**Mounting position:**
Solenoid vertical on top
**Flow direction:**
Determined

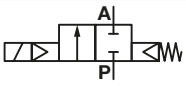
**Port size:**
G1, DN 25
**Operating pressure:**
0 … 6 bar (0 ... 87 psi)

**Fluid temperature:**
–40 ... +60°C (–40 ... +140°F)
**Ambient temperature:**
–40 ... +60°C (–40 ... +140°F)

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

For contaminated fluids insertion of a strainer is recommended.

## Technical data - standard models

| Symbol | Port size | Orifice (mm) | Flow kv value *1) ($m^3/h$) | Operating pressure *2) (bar) | Weight (kg) | Model Solenoid in V d.c. |
|---|---|---|---|---|---|---|
|   | G1 | 25 | 10 | 0 ... 6 | 2,2 | 8591099.8402.02400 |

*1) Cv-value (US) ≈ kv value x 1,2
*2) For gases and liquid fluids up to 40 $mm^2/s$ (cSt)

## Standard solenoid systems

| Voltage and Frequency Solenoid 8402 | | | | | |
|---|---|---|---|---|---|
| Code Voltage | Code Frequency | Voltage | Frequency | Power consumption | |
| | | | | Inrush | Holding |
| 024 | 00 | 24 V d.c. | - | 29 W | 29 W |

**Further versions on request!**

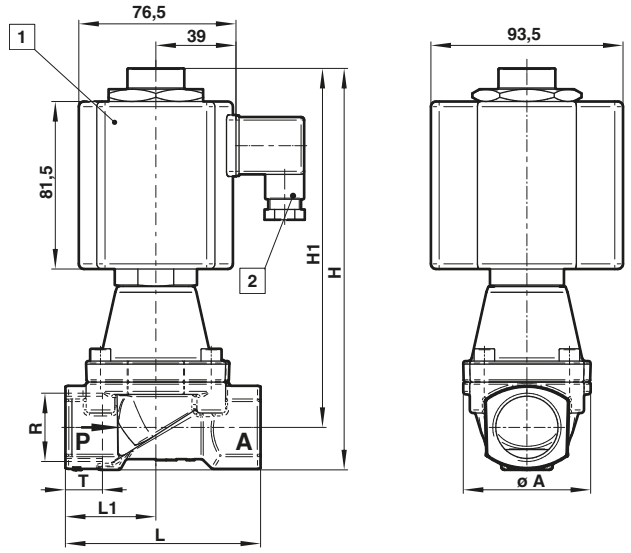
## Electrical details for all solenoid systems

| | |
|---|---|
| **Design** | DIN VDE 0580 |
| **Voltage range** | ±30% |
| **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

Dimensions in mm
Projection/First angle




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

| Port size R | ø A | H | H1 | L | L1 | T | Model |
|---|---|---|---|---|---|---|---|
| G1 | 62 | 195 | 175 | 95 | 44 | 18 | 8591099.8402.02400 |

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

The valves of this series, including the connection size 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 refers not to the PED. Thus the declaration of conformity is not longer applicable for this directive.

**For valves > DN 25 (G1) 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 (EMC):**

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 satisfield.