- **Port size: DN 15 ... 50, Flange connection, Pressure rating PN 40**
- **High flow rate**
- **For robust industry solutions**
- **Damped operation**
- **Leakage rate E acc. to DIN EN 12266-1**
- **Solenoid interchangeable without tools (*Click-on*®) up to DN 25 thread**
- **Valve operates without differential pressure (Zero Delta P)**
- **Fluids of Group 2 acc. Pressure Equipment Directive 97/23/EC**

Click-on®

OBSOLETE DOCUMENT
Technical Reference Only

## Technical features

**Medium:**
Neutral steam and liquid fluids
Switching function:
Normally closed
Operation:
Solenoid actuated, with forced lifting
Mounting position:
Optional, preferably solenoid vertical on top

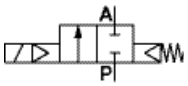
Flow direction:
Determined
Port size:
DN 15, DN 20, DN 25, DN 32, DN 40, DN 50
Operating pressure:
0 … 16 bar (0 ... 232 psi)

Fluid temperature:
0° ... +200°C (+32° ... +392°F)
Ambient temperature:
0° ... +60°C (+32° ... +140°F)

Material:
Body: Stainless steel (1.4408), Brass
Seat seal: PTFE
Internal parts: Stainless steel, PTFE / Carbon / FPM

For contaminated fluids insertion of a strainer is recommended.

## Technical data - standard models

| Symbol | Orifice (mm) | Flow kv value *1) ($m^3/h$) | Operating pressure *2) (bar) | Weight (kg) | Model Solenoid in V d.c. | Model Solenoid in V a.c. |
|---|---|---|---|---|---|---|
|  | 15 | 3,8 | 0 ... 16 | 3,8 | 8552200.9402.xxxxx | 8552200.9406.xxxxx |
| | 20 | 6,1 | 0 ... 16 | 4,2 | 8552300.9402.xxxxx | 8552300.9406.xxxxx |
| | 25 | 9,5 | 0 ... 16 | 4,8 | 8552400.9402.xxxxx | 8552400.9406.xxxxx |
| | 32 | 23 | 0 ... 16 | 9,6 | 8552500.8402.xxxxx | 8552500.8406.xxxxx |
| | 40 | 25 | 0 ... 16 | 10 | 8552600.8402.xxxxx | 8552600.8406.xxxxx |
| | 50 | 41 | 0 ... 16 | 11,5 | 8552700.8402.xxxxx | 8552700.8406.xxxxx |



xxxxx Please insert voltage and frequency codes
*1) Cv-value (US) ≈ kv-Wert x 1,2
*2) For gases and liquid fluids up to 80 $mm^2/s$ (cSt)

## Option selector

8552★★★.★★★★.★★★★★

| Port size | Substitute |
|---|---|
| 15 | **2** |
| 20 | **3** |
| 25 | **4** |
| 32 | **5** |
| 40 | **6** |
| 50 | **7** |

| Valve options | Substitute |
|---|---|
| Normaly open (NO), only with solenoid 8402/8406, Mounting position and fluid temperature: max. +150°C solenoid vertical on top, max.+ 200°C solenoid vertical underneath, from DN 32 Mounting position: solenoid vertical on top | **01** |
| Manual override | **02** |
| Seat seal EPDM, Fluid temperature 0 ... +130°C | **14** |
| Max. operating pressure 25 bar | **22** |
| Electrical position indicator with two limit switches (Reed contact) | **23** |
| Flanges acc. to ASME B 16.5 150 lb/ sq.In. | **47** |
| Flanges acc. to ASME B 16.5 300 lb/ sq.In. | **48** |

| Frequency | Substitute |
|---|---|
| See table frequency codes | **xx** |
| **Voltage** | **Substitute** |
| See Voltage codes | **xxx** |
| **Solenoid options** | **Substitute** |
| DN 15 ... 25 Solenoid in V d.c. | **9402** |
| DN 32 ... 50 Solenoid in V d.c. | **8402** |
| DN 15 ... 25 Solenoid in V a.c. | **9406** |
| DN 32 ... 50 Solenoid in V a.c. | **8406** |

## Standard solenoid systems

| Code Voltage | Code Frequency | Voltage | Frequency | Power consumption Inrush | Holding |
|---|---|---|---|---|---|
| **Voltage and Frequency Solenoid 9402/9406 *2)** | | | | | |
| 024 | 00 | 24 V d.c. | - | 29 W | 29 W |
| 024 | 49 | 24 V a.c. *1) | 40 … 60 Hz | 33 VA | 33 VA |
| 110 | 49 | 110 V a.c. *1) | 40 … 60 Hz | 33 VA | 33 VA |
| 120 | 49 | 120 V a.c. *1) | 40 … 60 Hz | 33 VA | 33 VA |
| 230 | 49 | 230 V a.c. *1) | 40 … 60 Hz | 33 VA | 33 VA |
| **Voltage and Frequency Solenoid 8402/8406** | | | | | |
| 024 | 00 | 24 V d.c. | - | 29 W | 29 W |
| 024 | 49 | 24 V a.c. *1) | 40 … 60 Hz | 33 VA | 33 VA |
| 110 | 49 | 110 V a.c. *1) | 40 … 60 Hz | 33 VA | 33 VA |
| 120 | 49 | 120 V a.c. *1) | 40 … 60 Hz | 33 VA | 33 VA |
| 230 | 49 | 230 V a.c. *1) | 40 … 60 Hz | 33 VA | 33 VA |

*1) A.c. only wit rectifier plug

*2) r coil only maintaining the ambient temperature of +65°C
(With the expection of solenoid 94XX up to 41 V a.c.)

Further versions on request!

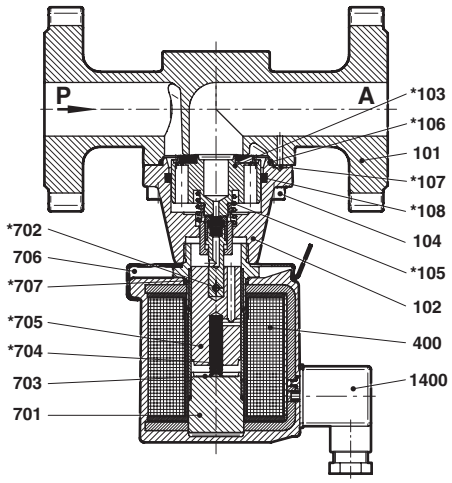
## Electrical details for all solenoid systems

| | |
|---|---|
| **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.

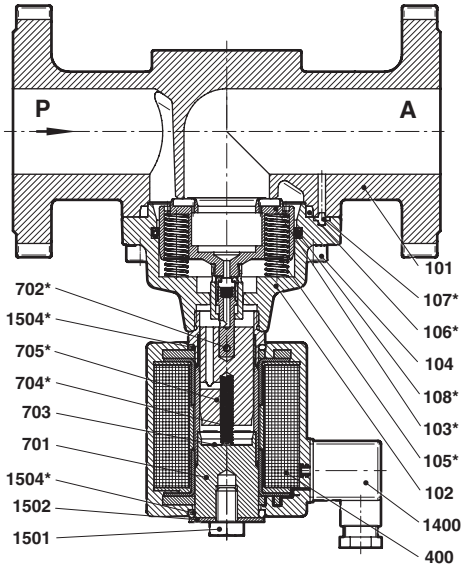
## Section View

### DN 15 ... 25




| No. | Description |
|---|---|
| 101 | Valve body |
| 102 | Valve cover |
| *103 | Valve piston |
| 104 | Straight pin |
| *105 | Pressure spring |
| *106 | Seal ring |
| *107 | Gaskets |
| *108 | Grooved ring |
| 400 | Solenoid |
| 701 | Core tube |
| *702 | Straight pin |
| 703 | Round plate |
| *704 | Pressure spring |
| *705 | Core |
| 706 | Spring-clip |
| *707 | O-ring |
| 1400 | Socket (included) |

### DN 32 ... 50



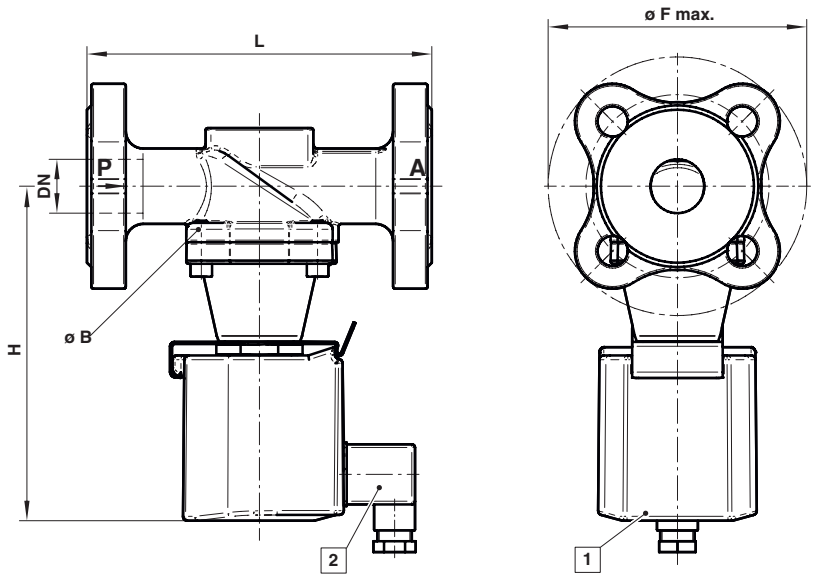

| No. | Description |
|---|---|
| 101 | Valve body |
| 102 | Valve cover |
| *103 | Valve piston |
| 104 | Straight pin |
| *105 | Pressure spring (2x) |
| *106 | Seal ring |
| *107 | Gaskets |
| *108 | Grooved ring |
| 400 | Solenoid |
| 701 | Core tube |
| *702 | Straight pin |
| 703 | Round plate |
| *704 | Pressure spring |
| *705 | Core |
| 1400 | Socket (included) |
| 1501 | Hexagon screw |
| 1502 | Round plate |
| *1504 | O-ring (2x) |

* These individual parts form a complete wearing unit.
When ordering spare parts please state Model No and Series No.

## Dimensions

Dimensions in mm
Projection/First angle

### DN 15 ... 25

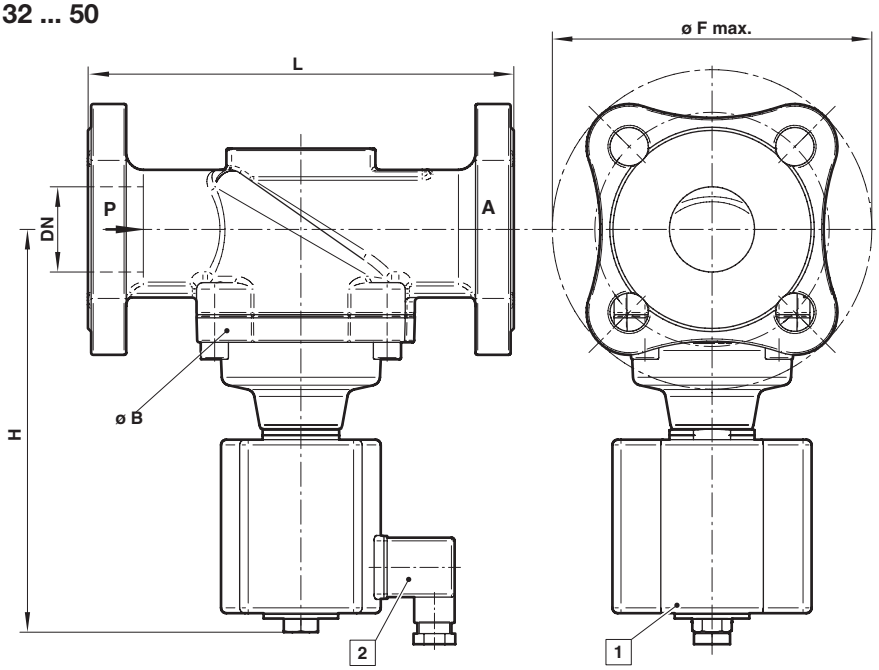



1 Solenoid rotatable 360°
2 Socket turnable 4 x 90°
(Socket included)

| Orifice (mm) | ø B | ø F max. | H | L | Model |
|---|---|---|---|---|---|
| 15 | 44 | 96 | 142 | 130 | 8552200.940x.xxxxx |
| 20 | 50 | 110 | 150 | 150 | 8552300.940x.xxxxx |
| 25 | 62 | 115 | 155 | 160 | 8552400.940x.xxxxx |

Contact face acc. to DIN EN 1092-1/B

### DN 32 ... 50




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

| Orifice (mm) | ø A | ø F max. | H | L | Model |
|---|---|---|---|---|---|
| 32 | 92 | 140 | 184 | 180 | 8552500.840x.xxxxx |
| 40 | 92 | 150 | 189 | 200 | 8552600.840x.xxxxx |
| 50 | 109 | 165 | 197 | 230 | 8552700.840x.xxxxx |

Contact face acc. to DIN EN 1092-1/B

**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: Inspection and production are in accordance to engineers practice well-known 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 (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 (2004/108/EG) satisfied.