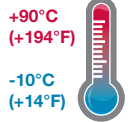


- > **Port size: 1/8" ... 3/8"**  
(ISO G/NPT)
- > **Small size drain or shut off valve**
- > **Direct acting**
- > **Suitable for vacuum**
- > **Body with 2 x M5 mounting threads as standard**
- > **Wide temperature range**
- > **Shock and vibration tested to EN 61373, Category 1, class A and B**

Click-on®



### Technical features

#### Medium:

Neutral gases and liquids

#### Switching function:

Normally closed

#### Operation:

Directly solenoid actuated

#### Mounting position:

Optional, preferably solenoid vertical on top

#### Flow direction:

Determined

#### Port size:

G1/8, G1/4, G3/8  
1/8 NPT, 1/4 NPT, 3/8 NPT

#### Operating pressure:

See table

#### Fluid temperature:

-10° ... +90°C (+14° ... +194°F)

#### Ambient temperature:

-10° ... +50°C (+14° ... +122°F)

#### Material:

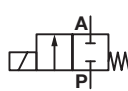
Body: Brass (CW617N)

Seat seal: NBR

Internal parts: Stainless steel, Brass

For contaminated fluids insertion of a strainer is recommended.

### 2/2 way Normally closed valves

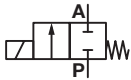
| Symbol                                                                              | Port size | Orifice (mm) | Flow kv value *1)<br>(m³/h) | Operating pressure *2)<br>(bar) | Weight<br>(kg) | Model<br>Solenoid in V d.c. / a.c. |
|-------------------------------------------------------------------------------------|-----------|--------------|-----------------------------|---------------------------------|----------------|------------------------------------|
|  | G1/8      | 1,5          | 0,07                        | 0 ... 25                        | 0,33           | 8251800.9101.xxxxx                 |
|                                                                                     | 1/8 NPT   | 1,5          | 0,07                        | 0 ... 25                        | 0,33           | 8252800.9101.xxxxx                 |
|                                                                                     | G1/4      | 1,5          | 0,07                        | 0 ... 25                        | 0,33           | 8251000.9101.xxxxx                 |
|                                                                                     | 1/4 NPT   | 1,5          | 0,07                        | 0 ... 25                        | 0,33           | 8252000.9101.xxxxx                 |
|                                                                                     | G3/8      | 1,5          | 0,07                        | 0 ... 25                        | 0,33           | 8251100.9101.xxxxx                 |
|                                                                                     | 3/8 NPT   | 1,5          | 0,07                        | 0 ... 25                        | 0,33           | 8252100.9101.xxxxx                 |
|                                                                                     | G1/8      | 1,5          | 0,07                        | 0 ... 70                        | 0,57           | 8251807.9151.xxxxx                 |
|                                                                                     | 1/8 NPT   | 1,5          | 0,07                        | 0 ... 70                        | 0,57           | 8252807.9151.xxxxx                 |
|                                                                                     | G1/4      | 1,5          | 0,07                        | 0 ... 70                        | 0,57           | 8251007.9151.xxxxx                 |
|                                                                                     | 1/4 NPT   | 1,5          | 0,07                        | 0 ... 70                        | 0,57           | 8252007.9151.xxxxx                 |
|                                                                                     | G3/8      | 1,5          | 0,07                        | 0 ... 70                        | 0,57           | 8251107.9151.xxxxx                 |
|                                                                                     | 3/8 NPT   | 1,5          | 0,07                        | 0 ... 70                        | 0,57           | 8252107.9151.xxxxx                 |
|                                                                                     | G1/8      | 2,5          | 0,15                        | 0 ... 10                        | 0,33           | 8251820.9101.xxxxx                 |
|                                                                                     | 1/8 NPT   | 2,5          | 0,15                        | 0 ... 10                        | 0,33           | 8252820.9101.xxxxx                 |
|                                                                                     | G1/4      | 2,5          | 0,15                        | 0 ... 10                        | 0,33           | 8251020.9101.xxxxx                 |
|                                                                                     | 1/4 NPT   | 2,5          | 0,15                        | 0 ... 10                        | 0,33           | 8252020.9101.xxxxx                 |
|                                                                                     | G3/8      | 2,5          | 0,15                        | 0 ... 10                        | 0,33           | 8251120.9101.xxxxx                 |
|                                                                                     | 3/8 NPT   | 2,5          | 0,15                        | 0 ... 10                        | 0,33           | 8252120.9101.xxxxx                 |
|                                                                                     | G1/8      | 2,5          | 0,15                        | 0 ... 40                        | 0,57           | 8251820.9151.xxxxx                 |
|                                                                                     | 1/8 NPT   | 2,5          | 0,15                        | 0 ... 40                        | 0,57           | 8252820.9151.xxxxx                 |
|                                                                                     | G1/4      | 2,5          | 0,15                        | 0 ... 40                        | 0,57           | 8251020.9151.xxxxx                 |
|                                                                                     | 1/4 NPT   | 2,5          | 0,15                        | 0 ... 40                        | 0,57           | 8252020.9151.xxxxx                 |
|                                                                                     | G3/8      | 2,5          | 0,15                        | 0 ... 40                        | 0,57           | 8251120.9151.xxxxx                 |
|                                                                                     | 3/8 NPT   | 2,5          | 0,15                        | 0 ... 40                        | 0,57           | 8252120.9151.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 25 mm²/s (cSt)

## 2/2 way Normally closed valves

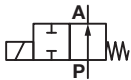
| Symbol                                                                            | Port size | Orifice (mm) | Flow kv value *1)<br>(m³/h) | Operating pressure *2)<br>(bar) | Weight<br>(kg) | Typ<br>Solenoid in V d.c. /a.c. |
|-----------------------------------------------------------------------------------|-----------|--------------|-----------------------------|---------------------------------|----------------|---------------------------------|
|  | G1/8      | 3            | 0,21                        | 0 ... 4                         | 0,33           | 8251840.9101.xxxxx              |
|                                                                                   | 1/8 NPT   | 3            | 0,21                        | 0 ... 4                         | 0,33           | 8252840.9101.xxxxx              |
|                                                                                   | G1/4      | 3            | 0,21                        | 0 ... 4                         | 0,33           | 8251040.9101.xxxxx              |
|                                                                                   | 1/4 NPT   | 3            | 0,21                        | 0 ... 4                         | 0,33           | 8252040.9101.xxxxx              |
|                                                                                   | G3/8      | 3            | 0,21                        | 0 ... 4                         | 0,33           | 8251140.9101.xxxxx              |
|                                                                                   | 3/8 NPT   | 3            | 0,21                        | 0 ... 4                         | 0,33           | 8252140.9101.xxxxx              |
|                                                                                   | G1/8      | 3            | 0,21                        | 0 ... 20                        | 0,57           | 8251840.9151.xxxxx              |
|                                                                                   | 1/8 NPT   | 3            | 0,21                        | 0 ... 20                        | 0,57           | 8252840.9151.xxxxx              |
|                                                                                   | G1/4      | 3            | 0,21                        | 0 ... 20                        | 0,57           | 8251040.9151.xxxxx              |
|                                                                                   | 1/4 NPT   | 3            | 0,21                        | 0 ... 20                        | 0,57           | 8252040.9151.xxxxx              |
|                                                                                   | G3/8      | 3            | 0,21                        | 0 ... 20                        | 0,57           | 8251140.9151.xxxxx              |
|                                                                                   | 3/8 NPT   | 3            | 0,21                        | 0 ... 20                        | 0,57           | 8252140.9151.xxxxx              |
|                                                                                   | G1/8      | 4            | 0,35                        | 0 ... 12                        | 0,57           | 8251860.9151.xxxxx              |
|                                                                                   | 1/8 NPT   | 4            | 0,35                        | 0 ... 12                        | 0,57           | 8252860.9151.xxxxx              |
|                                                                                   | G1/4      | 4            | 0,35                        | 0 ... 12                        | 0,57           | 8251060.9151.xxxxx              |
|                                                                                   | 1/4 NPT   | 4            | 0,35                        | 0 ... 12                        | 0,57           | 8252060.9151.xxxxx              |
|                                                                                   | G3/8      | 4            | 0,35                        | 0 ... 12                        | 0,57           | 8251160.9151.xxxxx              |
|                                                                                   | 3/8 NPT   | 4            | 0,35                        | 0 ... 12                        | 0,57           | 8252160.9151.xxxxx              |
|                                                                                   | G1/8      | 5            | 0,5                         | 0 ... 6                         | 0,57           | 8251880.9151.xxxxx              |
|                                                                                   | 1/8 NPT   | 5            | 0,5                         | 0 ... 6                         | 0,57           | 8252880.9151.xxxxx              |
|                                                                                   | G1/4      | 5            | 0,5                         | 0 ... 6                         | 0,57           | 8251080.9151.xxxxx              |
|                                                                                   | 1/4 NPT   | 5            | 0,5                         | 0 ... 6                         | 0,57           | 8252080.9151.xxxxx              |
|                                                                                   | G3/8      | 5            | 0,5                         | 0 ... 6                         | 0,57           | 8251180.9151.xxxxx              |
|                                                                                   | 3/8 NPT   | 5            | 0,5                         | 0 ... 6                         | 0,57           | 8252180.9151.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 25 mm²/s (cSt)

## 2/2 way normally open valves

| Symbol                                                                              | Port size | Orifice (mm) | Flow kv value *1)<br>(m³/h) | Operating pressure *2)<br>(bar) | Weight<br>(kg) | Model<br>Solenoid in V d.c. / a.c. |
|-------------------------------------------------------------------------------------|-----------|--------------|-----------------------------|---------------------------------|----------------|------------------------------------|
|  | G1/4      | 1,5          | 0,07                        | 0 ... 16                        | 0,33           | 8251001.9101.xxxxx                 |
|                                                                                     | 1/4 NPT   | 1,5          | 0,07                        | 0 ... 16                        | 0,33           | 8252001.9101.xxxxx                 |
|                                                                                     | G1/4      | 2,5          | 0,15                        | 0 ... 6                         | 0,33           | 8251021.9101.xxxxx                 |
|                                                                                     | 1/4 NPT   | 2,5          | 0,15                        | 0 ... 6                         | 0,33           | 8252021.9101.xxxxx                 |
|                                                                                     | G1/4      | 2,5          | 0,15                        | 0 ... 25                        | 0,57           | 8251021.9151.xxxxx                 |
|                                                                                     | 1/4 NPT   | 2,5          | 0,15                        | 0 ... 25                        | 0,57           | 8252021.9151.xxxxx                 |
|                                                                                     | G1/4      | 3            | 0,21                        | 0 ... 3                         | 0,33           | 8251041.9101.xxxxx                 |
|                                                                                     | 1/4 NPT   | 3            | 0,21                        | 0 ... 3                         | 0,33           | 8252041.9101.xxxxx                 |
|                                                                                     | G1/4      | 3            | 0,21                        | 0 ... 16                        | 0,57           | 8251041.9151.xxxxx                 |
|                                                                                     | 1/4 NPT   | 3            | 0,21                        | 0 ... 16                        | 0,57           | 8252041.9151.xxxxx                 |
|                                                                                     | G1/4      | 4            | 0,35                        | 0 ... 8                         | 0,57           | 8251061.9151.xxxxx                 |
|                                                                                     | 1/4 NPT   | 4            | 0,35                        | 0 ... 8                         | 0,57           | 8252061.9151.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 25 mm²/s (cSt)

## Option selector

825\*\*\*\*\*.\*\*\*\*\*

| Thread form                                                                             | Substitute |
|-----------------------------------------------------------------------------------------|------------|
| ISO G                                                                                   | 1          |
| NPT                                                                                     | 2          |
| Port size                                                                               | Substitute |
| 1/8"                                                                                    | 8          |
| 1/4"                                                                                    | 0          |
| 3/8"                                                                                    | 1          |
| Valve options                                                                           | Substitute |
| Normally closed (NC), DN 1,5<br>Operating pressure 0 ... 25 bar<br>(with solenoid 9101) | 00         |
| Normally open (NO), DN 1,5<br>Operating pressure 0 ... 16 bar<br>(with solenoid 9101)   | 01         |
| Normally closed (NC), DN 2,5<br>Operating pressure 0 ... 10 bar<br>(with solenoid 9101) | 20         |
| Normally closed (NC), DN 2,5<br>Operating pressure 0 ... 40 bar<br>(with solenoid 9151) | 20         |
| Normally open (NO), DN 2,5<br>Operating pressure 0 ... 6 bar<br>(with solenoid 9101)    | 21         |
| Normally open (NO), DN 2,5<br>Operating pressure 0 ... 25 bar<br>(with solenoid 9151)   | 21         |
| Normally closed (NC), DN 3<br>Operating pressure 0 ... 4 bar<br>(with solenoid 9101)    | 40         |
| Normally closed (NC), DN 3<br>Operating pressure 0 ... 20 bar<br>(with solenoid 9151)   | 40         |
| Normally open (NO), DN 3<br>Operating pressure 0 ... 3 bar<br>(with solenoid 9101)      | 41         |
| Normally open (NO), DN 3<br>Operating pressure 0 ... 16 bar<br>(with solenoid 9151)     | 41         |
| Normally closed (NC), DN 4<br>Operating pressure 0 ... 12 bar<br>(with solenoid 9151)   | 60         |
| Normally open (NO), DN 3<br>Operating pressure 0 ... 8 bar<br>(with solenoid 9151)      | 61         |
| Normally closed (NC), DN 5<br>Operating pressure 0 ... 6 bar<br>(with solenoid 9151)    | 80         |

| Frequency                 | Substitute |
|---------------------------|------------|
| See table frequency codes | xx         |
| Voltage                   | Substitute |
| See Voltage codes         | xxx        |
| Solenoid options          | Substitute |
| Solenoid 9101             | 9101       |
| Solenoid 9151             | 9151       |

## Standard solenoid systems

| Voltage and Frequency Solenoid 9101 *1) |           |            |           |                   |         |
|-----------------------------------------|-----------|------------|-----------|-------------------|---------|
| Code                                    | Code      | Voltage    | Frequency | Power consumption |         |
| Voltage                                 | Frequency |            |           | Inrush            | Holding |
| 024                                     | 00        | 24 V d.c.  | -         | 8 W               | 8 W     |
| 036                                     | 00        | 36 V d.c.  | -         | 8 W               | 8 W     |
| 110                                     | 00        | 110 V d.c. | -         | 8 W               | 8 W     |
| 024                                     | 50        | 24 V a.c.  | 50 Hz     | 15 VA             | 7 W     |
| 110                                     | 50        | 110 V a.c. | 50 Hz     | 15 VA             | 7 W     |
| 230                                     | 50        | 230 V a.c. | 50 Hz     | 15 VA             | 7 W     |
| 120                                     | 60        | 120 V a.c. | 60 Hz     | 15 VA             | 7 W     |
| 220                                     | 60        | 220 V a.c. | 60 Hz     | 15 VA             | 7 W     |
| Voltage and Frequency Solenoid 9151 *1) |           |            |           |                   |         |
| 024                                     | 00        | 24 V d.c.  | -         | 18 W              | 18 W    |
| 036                                     | 00        | 36 V d.c.  | -         | 18 W              | 18 W    |
| 110                                     | 00        | 110 V d.c. | -         | 18 W              | 18 W    |
| 024                                     | 50        | 24 V a.c.  | 50 Hz     | 45 VA             | 17 W    |
| 110                                     | 50        | 110 V a.c. | 50 Hz     | 45 VA             | 17 W    |
| 230                                     | 50        | 230 V a.c. | 50 Hz     | 45 VA             | 17 W    |
| 120                                     | 60        | 120 V a.c. | 60 Hz     | 45 VA             | 17 W    |
| 220                                     | 60        | 220 V a.c. | 60 Hz     | 45 VA             | 17 W    |

## 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.

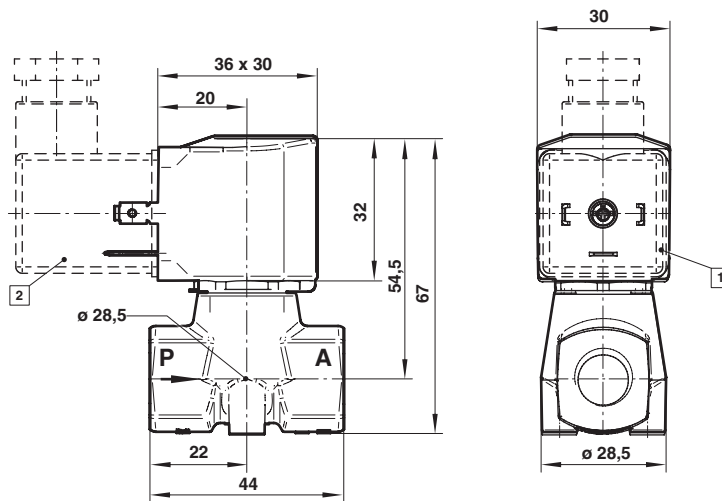
Further versions on request!



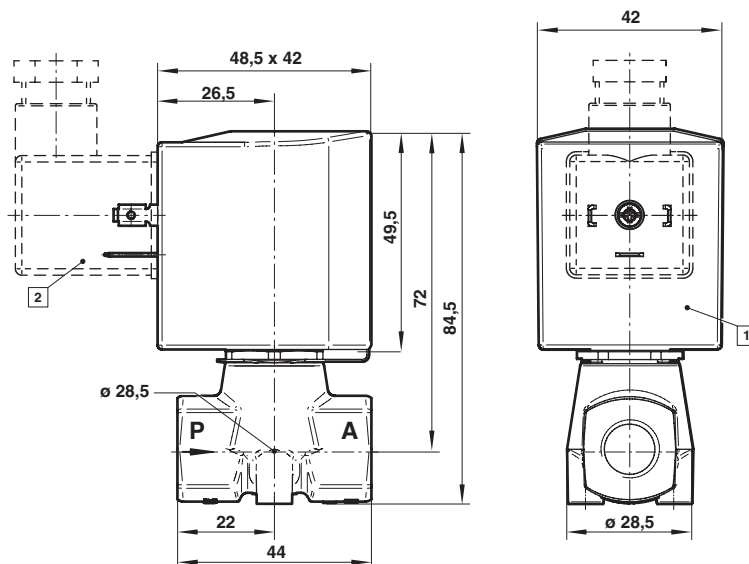
## Dimensions

### Solenoid 9101

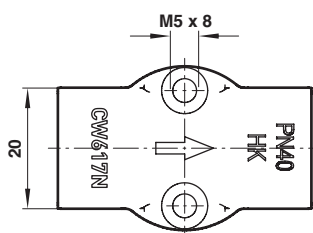
Dimensions in mm  
Projection/First angle



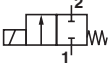
### Solenoid 9151



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



## Special applications

| Symbol                                                                            | Application              | Port size | Orifice (mm) | Body material       | Flow kv value (m³/h) | Operating pressure (bar) | Fluid temperature | Ambient/Pilot temperature | Sealing | Model                  |
|-----------------------------------------------------------------------------------|--------------------------|-----------|--------------|---------------------|----------------------|--------------------------|-------------------|---------------------------|---------|------------------------|
|  | 2/2 way pressure release | G1/8      | 1,2          | Aluminium, anodized | 0,04                 | 0 ... 10                 | -10 ... +60°C     | -10 ... +55°C             | NBR     | 8496228.9784.<br>xxxxx |

xxxxx Please insert voltage and frequency codes.

## Voltage and frequency codes solenoid 9784 series solenoid system

| Code Voltage | Code Frequency | Voltage    | Frequency | Power consumption |      |
|--------------|----------------|------------|-----------|-------------------|------|
|              |                |            |           | Inrush            | Hold |
| 024          | 00             | 24 V d.c.  | -         | 5 W               | 5 W  |
| 110          | 00             | 110 V d.c. | -         | 5 W               | 5 W  |

## Warning

These products are intended for use in industrial compressed air and rail transport systems only. Do not use these products where pressures and temperatures can exceed those listed under

### »Technical features/data«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI BUSCHJOST.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.