

## Solenoid valve VZWD

**FESTO**



### Characteristics

#### At a glance

Directly actuated operated solenoid valves VZWD are mainly intended for applications with high pressure ranges and low flow rates. Directly actuated valves switch the sealing element directly via the solenoid system. The seal generally has to lift away from the seat against the effective operating pressure using just the actuator. A closing spring keeps the valve closed supported by the pressure of the medium. The function is dependent on the seat size, the effective operating pressure and the magnetic force. The difference with respect to force pilot operated solenoid valves (VZWF) lies in the flow rate.

Note: The valves are suitable for vacuum with Pabs > 100 mbar. Please ensure the flow direction corresponds to the direction of the arrow.

## Type code

|      |                                        |  |
|------|----------------------------------------|--|
| 001  | Series                                 |  |
| VZWD | Solenoid valve, directly actuated VZWD |  |

|     |                                |  |
|-----|--------------------------------|--|
| 002 | Directional control valve type |  |
| L   | In-line valve                  |  |

|      |                                |  |
|------|--------------------------------|--|
| 003  | Valve function                 |  |
| M22C | 2/2-way valve, normally closed |  |

|     |                                                    |  |
|-----|----------------------------------------------------|--|
| 004 | Reset method for monostable/single solenoid valves |  |
| M   | Mechanical spring                                  |  |

|     |                          |  |
|-----|--------------------------|--|
| 005 | Process valve connection |  |
| G18 | G1/8                     |  |
| G14 | G1/4                     |  |
| N18 | 1/8 NPT                  |  |
| N14 | 1/4 NPT                  |  |

|     |               |  |
|-----|---------------|--|
| 006 | Nominal width |  |
| 10  | 1 mm          |  |
| 15  | 1.5 mm        |  |
| 20  | 2 mm          |  |
| 25  | 2.5 mm        |  |
| 30  | 3 mm          |  |
| 40  | 4 mm          |  |
| 50  | 5 mm          |  |
| 60  | 6 mm          |  |

|     |         |  |
|-----|---------|--|
| 007 | Sealant |  |
| V   | FPM     |  |

|     |                           |  |
|-----|---------------------------|--|
| 008 | Nominal operating voltage |  |
| 1   | 24 V DC                   |  |
| 2A  | 110 V AC/50-60 Hz         |  |
| 3A  | 230 V AC/50-60 Hz         |  |

|     |                       |  |
|-----|-----------------------|--|
| 009 | Electrical connection |  |
| P4  | Plug socket, 3-wire   |  |

|     |                          |  |
|-----|--------------------------|--|
| 010 | Pressure of medium [bar] |  |
| 4   | 4                        |  |
| 5   | 5                        |  |
| 8   | 8                        |  |
| 15  | 15                       |  |
| 22  | 22                       |  |
| 30  | 30                       |  |
| 40  | 40                       |  |
| 50  | 50                       |  |
| 85  | 85                       |  |
| 90  | 90                       |  |

|     |                      |  |
|-----|----------------------|--|
| 011 | Corrosion protection |  |
|     | Standard             |  |
| R1  | Stainless steel      |  |

## Datasheet

## General technical data, G thread and NPT thread

| Nominal size             | 1 mm                           | 1.5 mm | 2 mm | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm |
|--------------------------|--------------------------------|--------|------|--------|------|------|------|------|
| Connection Process valve | G1/8, G1/4, 1/8 NPT, 1/4 NPT   |        |      |        |      |      |      |      |
| Nominal pressure PN      | 50<br>100                      |        |      |        | 100  |      |      |      |
| Valve function           | 2/2-way, closed, monostable    |        |      |        |      |      |      |      |
| Design                   | Directly actuated poppet valve |        |      |        |      |      |      |      |
| Type of mounting         | In-line installation           |        |      |        |      |      |      |      |
| Type of actuation        | Electric                       |        |      |        |      |      |      |      |
| Type of reset            | Mechanical spring              |        |      |        |      |      |      |      |
| Flow direction           | Non-reversible                 |        |      |        |      |      |      |      |
| Type of piloting         | Direct                         |        |      |        |      |      |      |      |
| Manual override          | None                           |        |      |        |      |      |      |      |
| Mounting position        | optional                       |        |      |        |      |      |      |      |
| Sealing principle        | Soft                           |        |      |        |      |      |      |      |
| Max. viscosity           | 22 mm²/s                       |        |      |        |      |      |      |      |
| Degree of protection     | IP65                           |        |      |        |      |      |      |      |

## Operating and environmental conditions, G thread and NPT thread

| Nominal size                                          | 1 mm                                                                                                               | 1.5 mm                      | 2 mm                      | 2.5 mm                  | 3 mm             | 4 mm           | 5 mm            | 6 mm           |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------|-------------------------|------------------|----------------|-----------------|----------------|
| Standard nominal flow rate (standardised to DIN 1343) | 60 l/min                                                                                                           | 95 l/min                    | 140 l/min                 | 170 l/min               | 210 l/min        | 310 l/min      | 375 l/min       | 430 l/min      |
| Flow rate Kv                                          | 0.06 m³/h                                                                                                          | 0.09 m³/h                   | 0.13 m³/h                 | 0.16 m³/h               | 0.2 m³/h         | 0.3 m³/h       | 0.35 m³/h       | 0.4 m³/h       |
| Nominal pressure PN                                   | 50 ... 100                                                                                                         |                             |                           |                         | 100              |                |                 |                |
| Medium                                                | Compressed air to ISO 8573-1:2010 [7:4:4], Inert gases, Mineral oil, Water, Neutral fluids, Other media on request |                             |                           |                         |                  |                |                 |                |
| Medium pressure                                       | 0 MPa, 5 MPa, 9 MPa                                                                                                | 0 MPa, 3 MPa, 8.5 MPa       | 0 MPa, 1.5 MPa, 4 MPa     | 0 MPa, 0.8 MPa, 2.2 MPa | 0 MPa, 1.5 MPa   | 0 MPa, 0.8 MPa | 0 MPa, 0.5 MPa  | 0 MPa, 0.4 MPa |
| Medium pressure                                       | 0 bar, 50 bar, 90 bar                                                                                              | 0 bar, 30 bar, 85 bar       | 0 bar, 15 bar, 40 bar     | 0 bar, 8 bar, 22 bar    | 0 bar, 15 bar    | 0 bar, 8 bar   | 0 bar, 5 bar    | 0 bar, 4 bar   |
| Medium pressure                                       | 0 psi, 725 psi, 1,305 psi                                                                                          | 0 psi, 435 psi, 1,232.5 psi | 0 psi, 217.5 psi, 580 psi | 0 psi, 116 psi, 319 psi | 0 psi, 217.5 psi | 0 psi, 116 psi | 0 psi, 72.5 psi | 0 psi, 58 psi  |
| Pressure difference                                   | 0 MPa                                                                                                              |                             |                           |                         |                  |                |                 |                |
| Pressure difference                                   | 0 bar                                                                                                              |                             |                           |                         |                  |                |                 |                |
| Pressure difference                                   | 0 psi                                                                                                              |                             |                           |                         |                  |                |                 |                |
| Ambient temperature                                   | -10 ... 35°C                                                                                                       |                             |                           |                         |                  |                |                 |                |
| Media temperature                                     | -10 ... 80°C                                                                                                       |                             |                           |                         |                  |                |                 |                |
| Leakage rate to EN 12266-1                            | A                                                                                                                  |                             |                           |                         |                  |                |                 |                |
| Corrosion resistance class CRC <sup>1)</sup>          | 1 - Low corrosion stress, 3 - high corrosion stress                                                                |                             |                           |                         |                  |                |                 |                |
| UKCA marking (see declaration of conformity)          | To UK regulations for electrical equipment                                                                         |                             |                           |                         |                  |                |                 |                |

1) Corrosion resistance class CRC 1 according to Festo standard FN 940070. Low corrosion stress. Dry indoor application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).

## Electrical data, G thread and NPT thread

| Electrical data, 5-thread and M 4-thread |                                                                       |                                                                        |                                                                        |                                                                       |                 |                |
|------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------|----------------|
| Characteristic coil data                 | 110 V AC: 50/60 Hz,<br>pick-up power 10.5 VA,<br>holding power 8.0 VA | 110 V AC: 50/60 Hz,<br>pick-up power 19.0 VA,<br>holding power 16.0 VA | 230 V AC: 50/60 Hz,<br>pick-up power 18.0 VA,<br>holding power 15.0 VA | 230 V AC: 50/60 Hz,<br>pick-up power 10.5 VA,<br>holding power 7.6 VA | 24 V DC: 11.0 W | 24 V DC: 6.8 W |
| Electrical connection                    | Type A, Plugs, To EN 175301-803, Square design                        |                                                                        |                                                                        |                                                                       |                 |                |
| CE mark (see declaration of conformity)  | To EU Low Voltage Directive                                           |                                                                        |                                                                        |                                                                       | –               |                |
| Insulation material class                | F                                                                     |                                                                        |                                                                        |                                                                       | H               |                |
| Duty cycle                               | 100%                                                                  |                                                                        |                                                                        |                                                                       |                 |                |
| Permissible voltage fluctuations         | +/- 10%                                                               |                                                                        |                                                                        |                                                                       |                 |                |
| Switching time on                        | 20 ... 25 ms                                                          | 20 ms                                                                  |                                                                        | 20 ... 25 ms                                                          | 20 ms           | 25 ms          |
| Switching time off                       | 10 ... 18 ms                                                          | 18 ms                                                                  |                                                                        | 10 ... 18 ms                                                          | 18 ms           | 10 ms          |

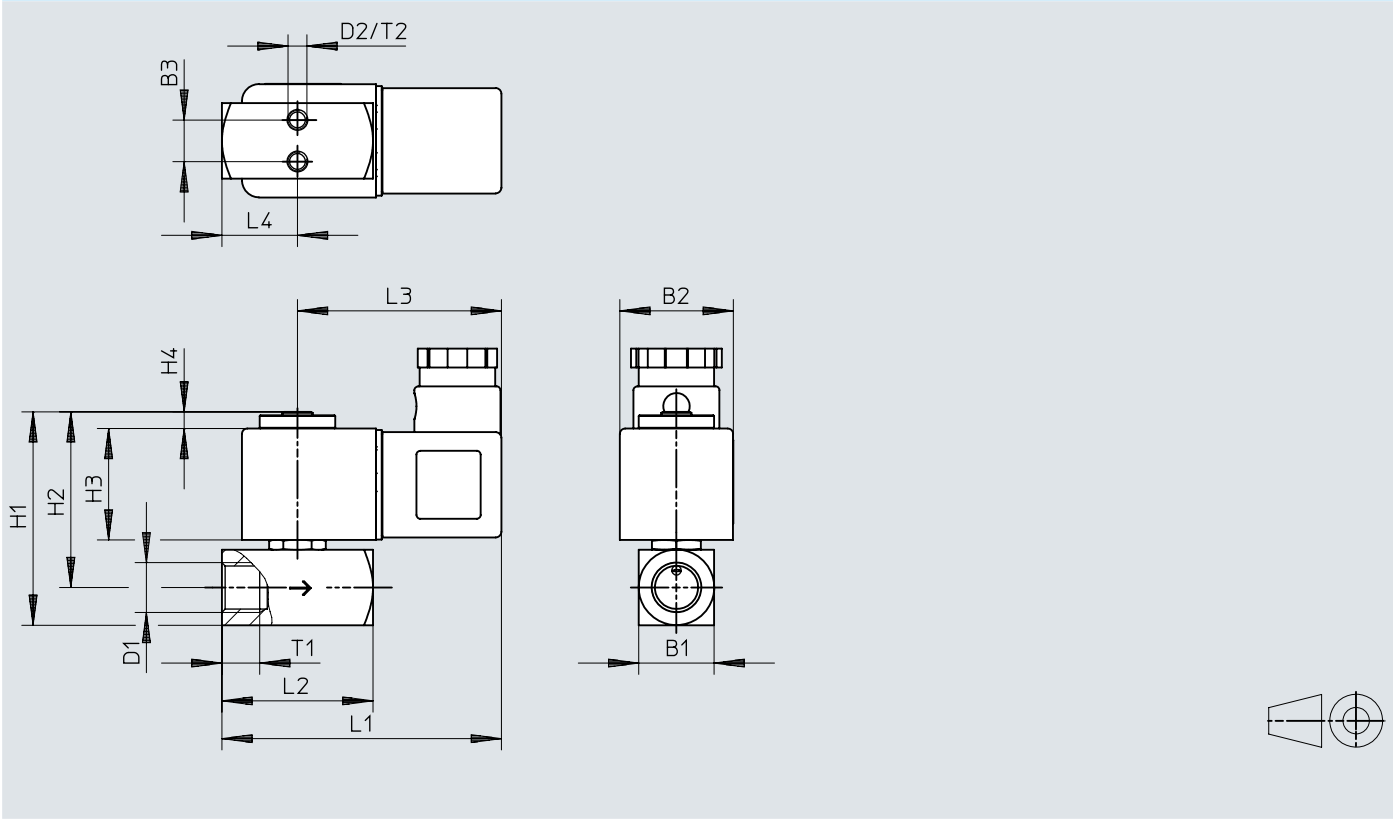
## Datasheet

**Material, G thread and NPT thread**

|                         |                                               |
|-------------------------|-----------------------------------------------|
| Material housing        | Brass, Cast brass, High-alloy stainless steel |
| Material number housing | 1.4305, CW614N, CW617N                        |
| Material seals          | FPM                                           |
| Note on materials       | RoHS-compliant                                |

Dimensions

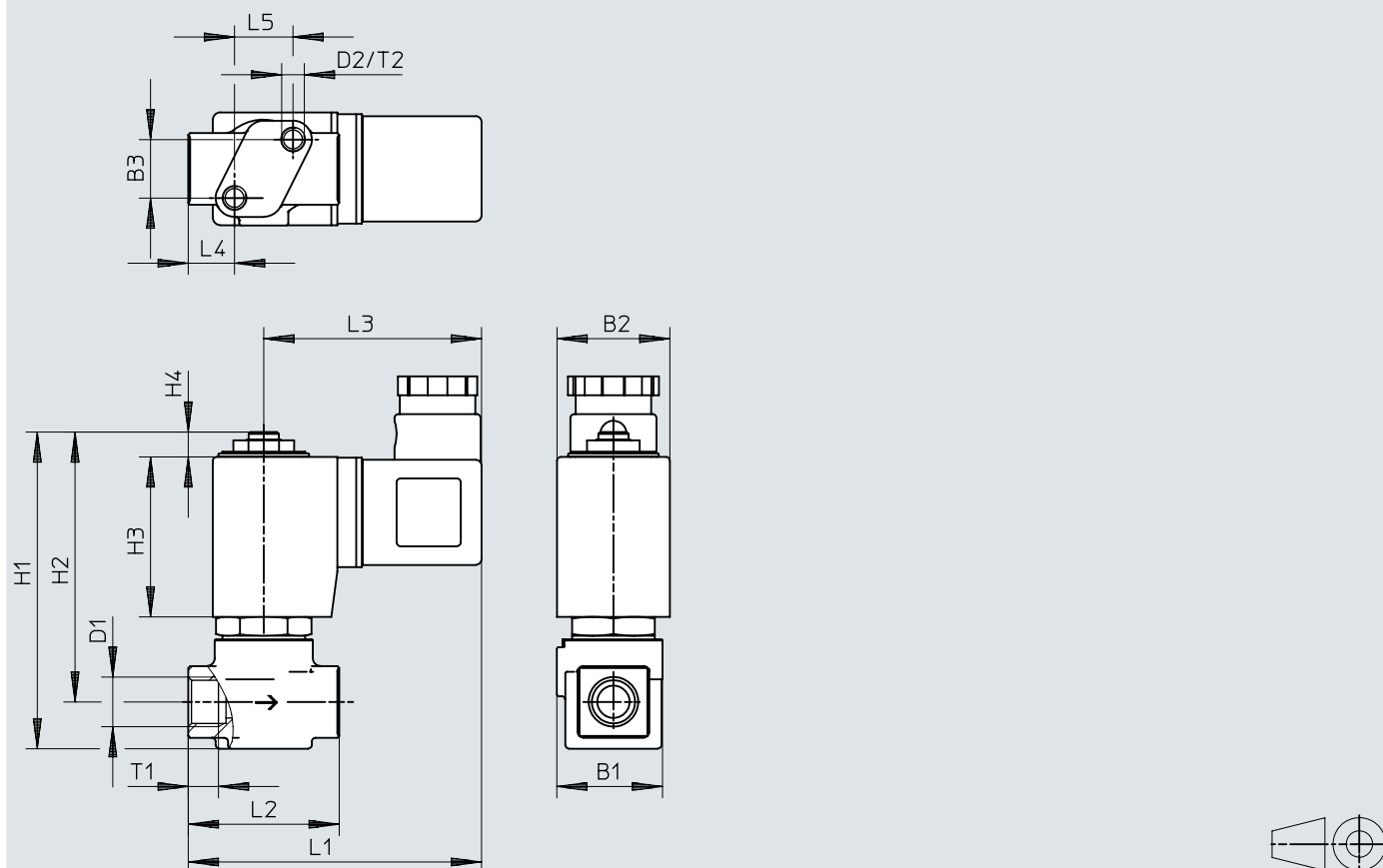
Dimensions – Milled brass housing, nominal pressure PN 50 Download CAD data [www.festo.com](http://www.festo.com)



|                         | B1 | B2 | B3 | D1   | D2 | H1 | H2 | H3 | H4 | L1 | L2 | L3 | L4 | T1 | T2  |
|-------------------------|----|----|----|------|----|----|----|----|----|----|----|----|----|----|-----|
| VZWD-...-G1/8-10-...-50 | 15 | 30 | 8  | G1/8 | M3 | 52 | 44 | 30 | 5  | 70 | 32 | 54 | 16 | 8  | 4,5 |
| VZWD-...-G1/8-15-...-30 |    |    |    |      |    |    |    |    |    |    |    |    |    |    |     |
| VZWD-...-G1/8-20-...-15 |    |    |    |      |    |    |    |    |    |    |    |    |    |    |     |
| VZWD-...-G1/4-10-...-50 | 20 | 30 | 11 | G1/4 | M5 | 57 | 47 | 30 | 5  | 74 | 40 | 54 | 20 | 10 | 5,5 |
| VZWD-...-G1/4-15-...-30 |    |    |    |      |    |    |    |    |    |    |    |    |    |    |     |
| VZWD-...-G1/4-20-...-15 |    |    |    |      |    |    |    |    |    |    |    |    |    |    |     |
| VZWD-...-G1/4-25-...-8  |    |    |    |      |    |    |    |    |    |    |    |    |    |    |     |

## Dimensions

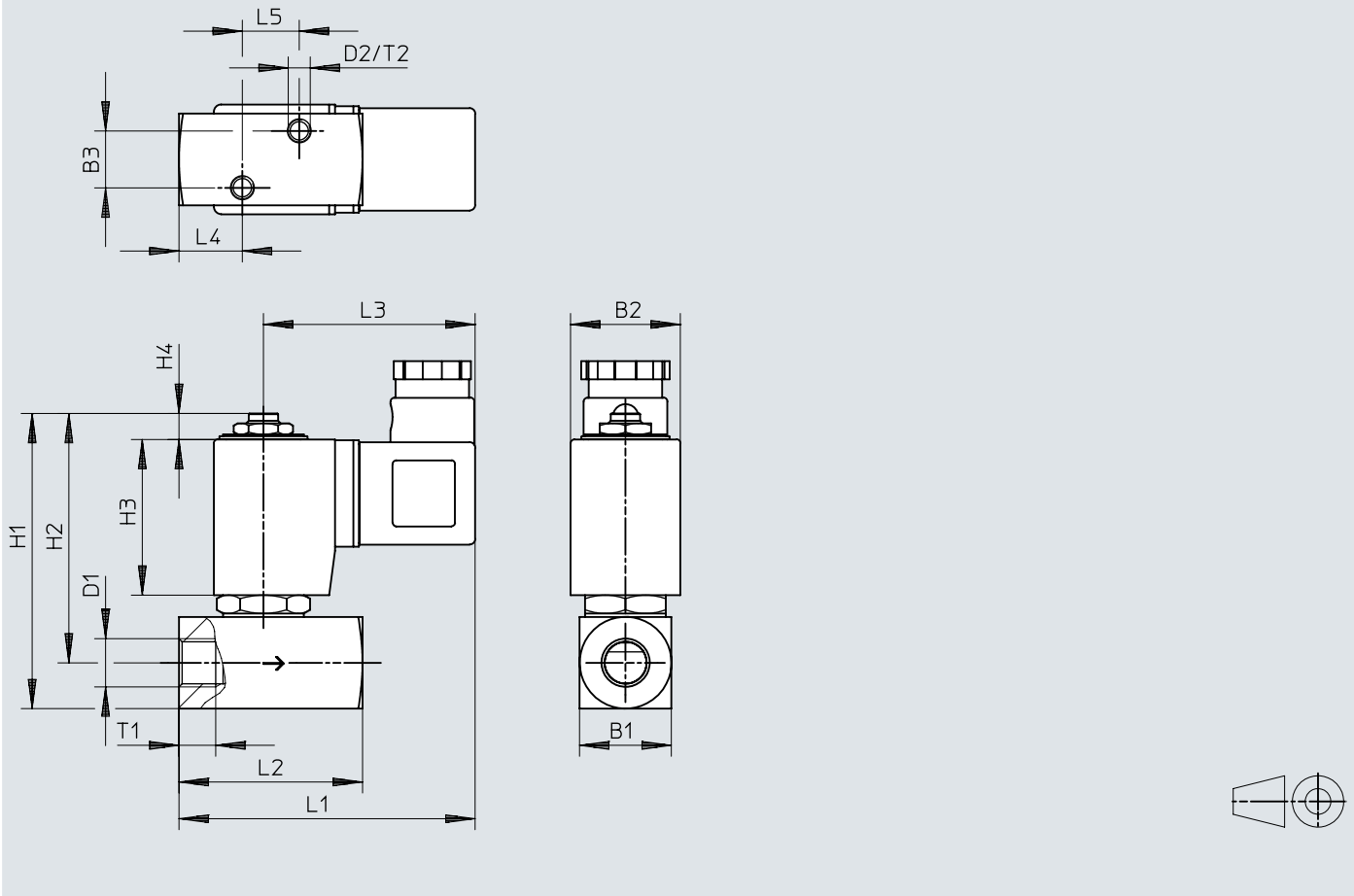
Dimensions – Brass housing, die-cast metal, nominal pressure PN 100

Download CAD data [www.festo.com](http://www.festo.com)

|                         | B1 | B2 | B3   | D1   | D2 | H1 | H2 | H3   | H4  | L1 | L2 | L3 | L4 | L5   | T1 | T2 |
|-------------------------|----|----|------|------|----|----|----|------|-----|----|----|----|----|------|----|----|
| VZWD-...-G1/8-10-...-90 | 28 | 30 | 15,5 | G1/8 | M6 | 84 | 72 | 42,5 | 6,5 | 78 | 40 | 58 | 12 | 15,5 | 8  | 6  |
| VZWD-...-G1/8-15-...-85 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/8-20-...-40 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/8-25-...-22 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/8-30-...-15 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/8-40-...-8  | 28 | 30 | 15,5 | G1/4 | M6 | 84 | 72 | 42,5 | 6,5 | 78 | 40 | 58 | 12 | 15,5 | 10 | 6  |
| VZWD-...-G1/4-10-...-90 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/4-15-...-85 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/4-20-...-40 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/4-25-...-22 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/4-30-...-15 | 25 | 30 | 15,5 | G1/8 | M6 | 81 | 68 | 42,5 | 7   | 78 | 40 | 58 | 12 | 15,5 | 8  | 6  |
| VZWD-...-G1/8-50-...-5  |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/8-60-...-4  | 25 | 30 | 15,5 | G1/4 | M6 | 81 | 68 | 42,5 | 7   | 85 | 50 | 58 | 17 | 15,5 | 10 | 6  |
| VZWD-...-G1/4-50-...-5  |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/4-60-...-4  |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |

Dimensions

Dimensions – Milled brass housing, nominal pressure PN 100 Download CAD data [www.festo.com](http://www.festo.com)



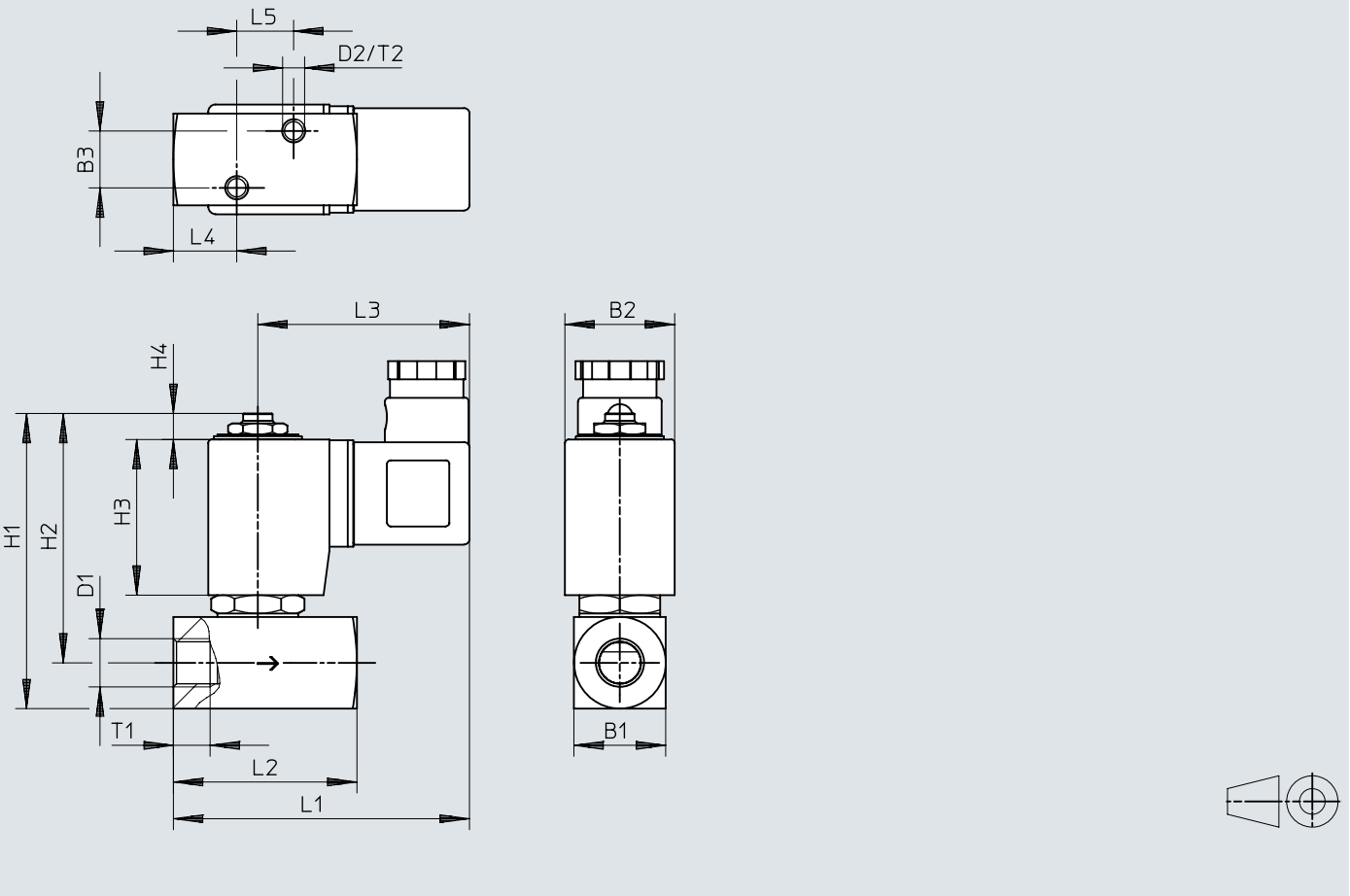
|                         | B1 | B2 | B3   | D1   | D2 | H1 | H2 | H3   | H4  | L1 | L2 | L3 | L4 | L5   | T1 | T2 |
|-------------------------|----|----|------|------|----|----|----|------|-----|----|----|----|----|------|----|----|
| VZWD-...-G1/8-10-...-90 | 28 | 30 | 15,5 | G1/8 | M6 | 84 | 72 | 42,5 | 6,5 | 78 | 40 | 58 | 12 | 15,5 | 8  | 6  |
| VZWD-...-G1/8-15-...-85 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/8-20-...-40 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/8-25-...-22 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/8-30-...-15 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/8-40-...-8  | 28 | 30 | 15,5 | G1/4 | M6 | 84 | 72 | 42,5 | 6,5 | 78 | 40 | 58 | 12 | 15,5 | 10 | 6  |
| VZWD-...-G1/4-10-...-90 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/4-15-...-85 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/4-20-...-40 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/4-25-...-22 |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/4-30-...-15 | 25 | 30 | 15,5 | G1/8 | M6 | 81 | 68 | 42,5 | 7   | 78 | 40 | 58 | 12 | 15,5 | 8  | 6  |
| VZWD-...-G1/8-50-...-5  |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/8-60-...-4  |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...-G1/4-50-...-5  |    |    |      | G1/4 | M6 | 81 | 68 | 42,5 | 7   | 85 | 50 | 58 | 17 | 15,5 | 10 | 6  |
| VZWD-...-G1/4-60-...-4  |    |    |      |      |    |    |    |      |     |    |    |    |    |      |    |    |



Dimensions

Dimensions – Stainless steel housing, nominal pressure PN 100

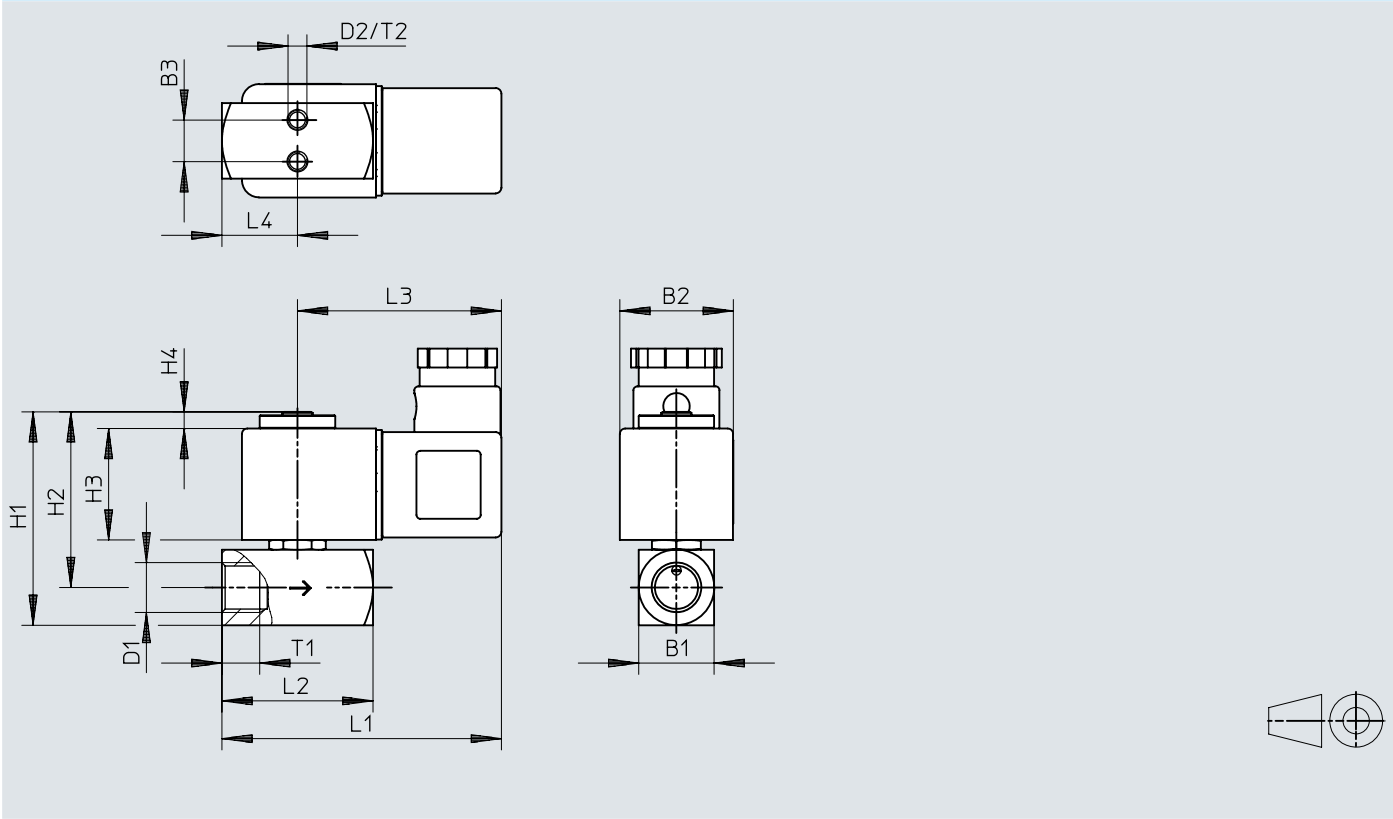
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|                            | B1 | B2 | B3   | D1   | D2 | H1 | H2 | H3   | H4 | L1 | L2 | L3 | L4 | L5   | T1 | T2 |
|----------------------------|----|----|------|------|----|----|----|------|----|----|----|----|----|------|----|----|
| VZWD-...-G 1/8-50-...-5-R1 | 25 | 30 | 15,5 | G1/8 | M6 | 81 | 68 | 42,5 | 7  | 78 | 40 | 58 | 12 | 15,5 | 8  | 6  |
| VZWD-...-G 1/8-60-...-4-R1 |    |    |      | G1/8 | M6 | 81 | 68 | 42,5 | 7  | 78 | 40 | 58 | 12 | 15,5 | 8  | 6  |
| VZWD-...-G 1/4-50-...-5-R1 | 25 | 30 | 15,5 | G1/4 | M6 | 81 | 68 | 42,5 | 7  | 85 | 50 | 58 | 17 | 15,5 | 10 | 6  |
| VZWD-...-G 1/4-60-...-4-R1 |    |    |      | G1/4 | M6 | 81 | 68 | 42,5 | 7  | 85 | 50 | 58 | 17 | 15,5 | 10 | 6  |

Dimensions

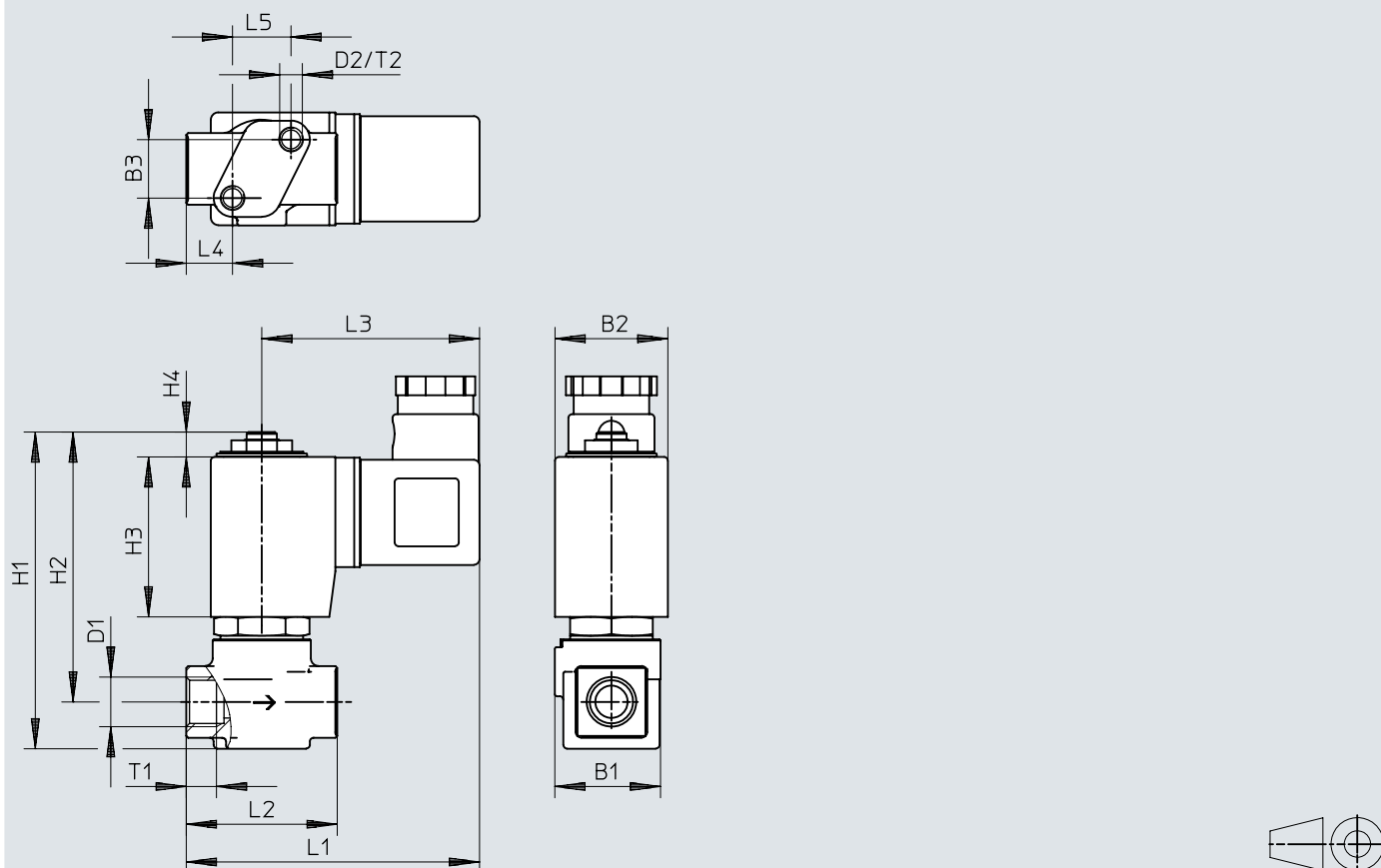
Dimensions – Brass housing, milled, nominal pressure PN 50 Download CAD data [www.festo.com](http://www.festo.com)



|                         | B1 | B2 | B3 | D1      | D2 | H1 | H2 | H3 | H4 | L1 | L2 | L3 | L4 | T1 | T2  |
|-------------------------|----|----|----|---------|----|----|----|----|----|----|----|----|----|----|-----|
| VZWD-...-N1/8-10-...-50 | 15 | 30 | 8  | 1/8 NPT | M3 | 52 | 44 | 30 | 5  | 70 | 32 | 54 | 16 | 8  | 4,5 |
| VZWD-...-N1/8-15-...-30 |    |    |    |         |    |    |    |    |    |    |    |    |    |    |     |
| VZWD-...-N1/8-20-...-15 |    |    |    |         |    |    |    |    |    |    |    |    |    |    |     |
| VZWD-...-N1/4-10-...-50 | 20 | 30 | 11 | 1/4 NPT | M5 | 57 | 47 | 30 | 5  | 74 | 40 | 54 | 20 | 10 | 5,5 |
| VZWD-...-N1/4-15-...-30 |    |    |    |         |    |    |    |    |    |    |    |    |    |    |     |
| VZWD-...-N1/4-20-...-15 |    |    |    |         |    |    |    |    |    |    |    |    |    |    |     |
| VZWD-...-N1/4-25-...-8  |    |    |    |         |    |    |    |    |    |    |    |    |    |    |     |

## Dimensions

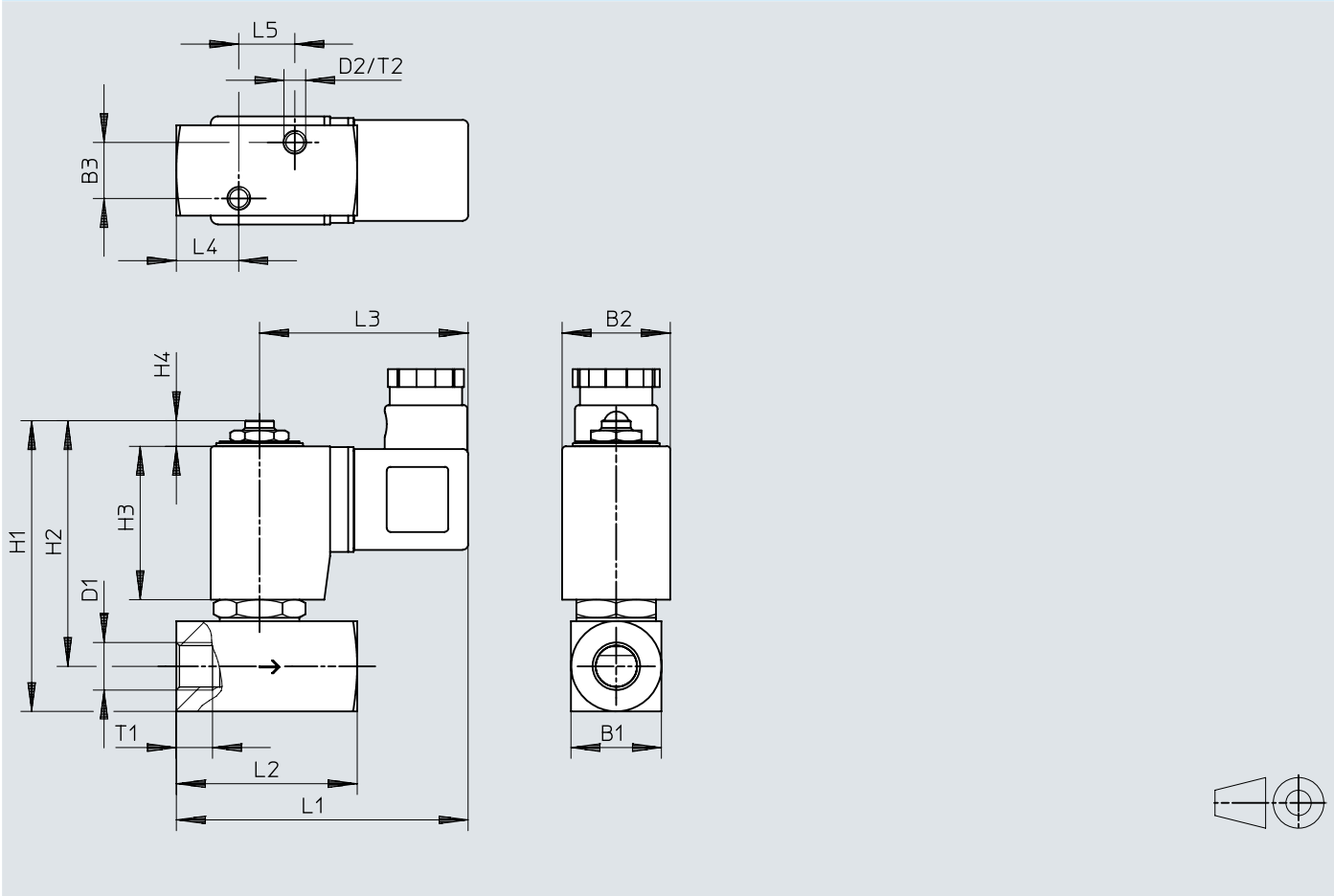
Dimensions – Brass housing, die-cast metal, nominal pressure PN 100

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|                        | B1 | B2 | B3   | D1      | D2 | H1 | H2 | H3   | H4  | L1 | L2 | L3 | L4 | L5   | T1 | T2 |
|------------------------|----|----|------|---------|----|----|----|------|-----|----|----|----|----|------|----|----|
| VZWD-...N1/8-10-...-90 | 28 | 30 | 15,5 | 1/8 NPT | M6 | 84 | 72 | 42,5 | 6,5 | 78 | 40 | 58 | 12 | 15,5 | 8  | 6  |
| VZWD-...N1/8-15-...-85 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/8-20-...-40 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/8-25-...-22 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/8-30-...-15 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/8-40-...-8  | 28 | 30 | 15,5 | 1/4 NPT | M6 | 84 | 72 | 42,5 | 6,5 | 78 | 40 | 58 | 12 | 15,5 | 10 | 6  |
| VZWD-...N1/4-10-...-90 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/4-15-...-85 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/4-20-...-40 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/4-25-...-22 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/4-30-...-15 | 25 | 30 | 15,5 | 1/8 NPT | M6 | 81 | 68 | 42,5 | 7   | 78 | 40 | 58 | 12 | 15,5 | 8  | 6  |
| VZWD-...N1/4-40-...-8  |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/8-50-...-5  | 25 | 30 | 15,5 | 1/4 NPT | M6 | 81 | 68 | 42,5 | 7   | 85 | 50 | 58 | 17 | 15,5 | 10 | 6  |
| VZWD-...N1/8-60-...-4  |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/4-50-...-5  | 25 | 30 | 15,5 | 1/4 NPT | M6 | 81 | 68 | 42,5 | 7   | 85 | 50 | 58 | 17 | 15,5 | 10 | 6  |
| VZWD-...N1/4-60-...-4  |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |

Dimensions

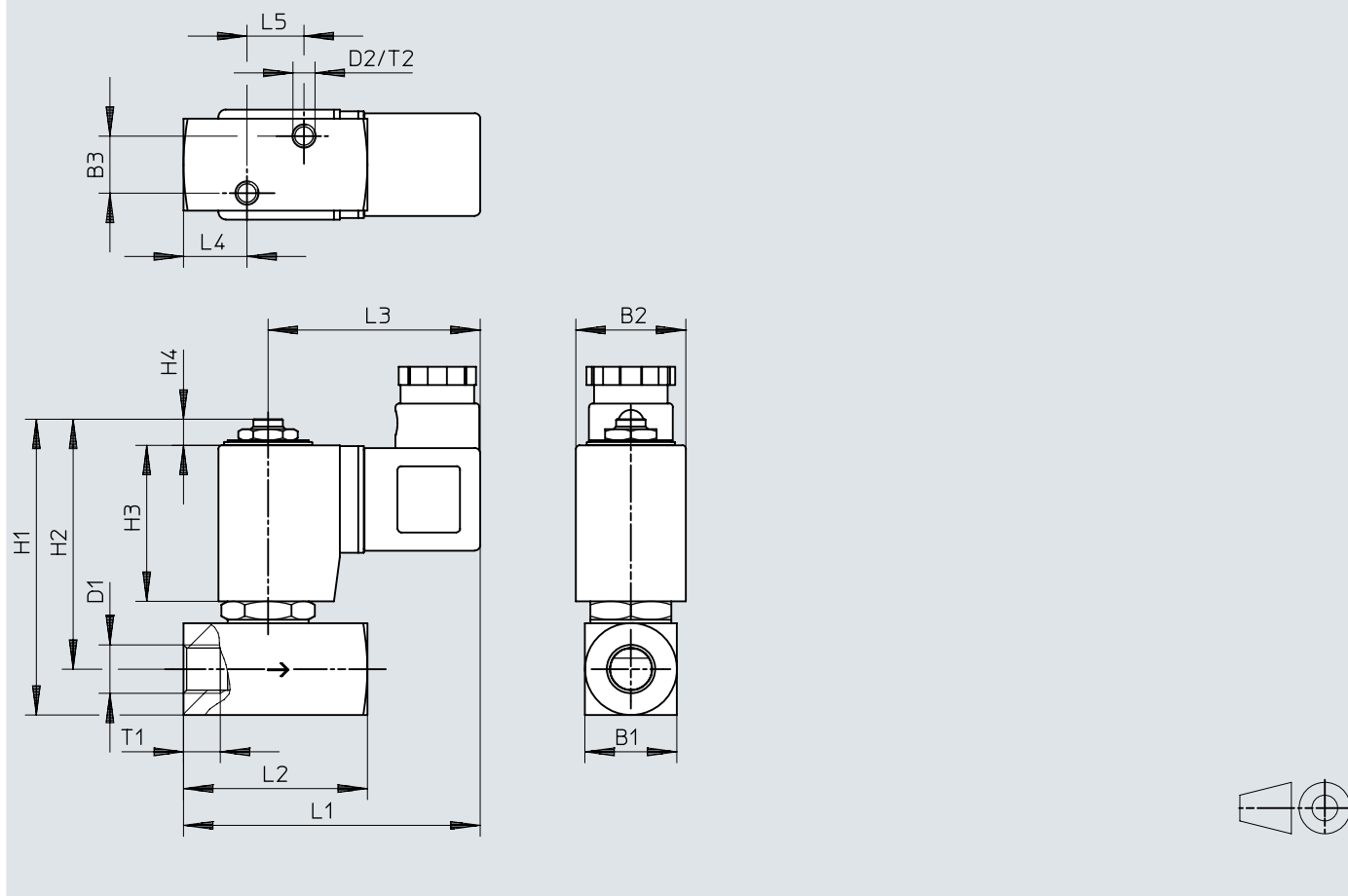
Dimensions – Brass housing, milled, nominal pressure PN 100 Download CAD data [www.festo.com](http://www.festo.com)



|                        | B1 | B2 | B3   | D1      | D2 | H1 | H2 | H3   | H4  | L1 | L2 | L3 | L4 | L5   | T1 | T2 |
|------------------------|----|----|------|---------|----|----|----|------|-----|----|----|----|----|------|----|----|
| VZWD-...N1/8-10-...-90 | 28 | 30 | 15,5 | 1/8 NPT | M6 | 84 | 72 | 42,5 | 6,5 | 78 | 40 | 58 | 12 | 15,5 | 8  | 6  |
| VZWD-...N1/8-15-...-85 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/8-20-...-40 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/8-25-...-22 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/8-30-...-15 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/8-40-...-8  | 28 | 30 | 15,5 | 1/4 NPT | M6 | 84 | 72 | 42,5 | 6,5 | 78 | 40 | 58 | 12 | 15,5 | 10 | 6  |
| VZWD-...N1/4-10-...-90 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/4-15-...-85 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/4-20-...-40 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/4-25-...-22 |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/4-30-...-15 | 25 | 30 | 15,5 | 1/8 NPT | M6 | 81 | 68 | 42,5 | 7   | 78 | 40 | 58 | 12 | 15,5 | 8  | 6  |
| VZWD-...N1/4-40-...-8  |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/8-50-...-5  |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/8-60-...-4  |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |
| VZWD-...N1/4-50-...-5  |    |    |      | 1/4 NPT | M6 | 81 | 68 | 42,5 | 7   | 85 | 50 | 58 | 17 | 15,5 | 10 | 6  |
| VZWD-...N1/4-60-...-4  |    |    |      |         |    |    |    |      |     |    |    |    |    |      |    |    |

## Dimensions

Dimensions – Stainless steel housing, nominal pressure PN 100

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|                           | B1 | B2 | B3   | D1      | D2 | H1 | H2 | H3   | H4 | L1 | L2 | L3 | L4 | L5   | T1 | T2 |
|---------------------------|----|----|------|---------|----|----|----|------|----|----|----|----|----|------|----|----|
| VZWD-...-N1/8-50-...-5-R1 | 25 | 30 | 15,5 | 1/8 NPT | M6 | 81 | 68 | 42,5 | 7  | 78 | 40 | 58 | 12 | 15,5 | 8  | 6  |
| VZWD-...-N1/8-60-...-4-R1 |    |    |      |         |    |    |    |      |    |    |    |    |    |      |    |    |
| VZWD-...-N1/4-50-...-5-R1 | 25 | 30 | 15,5 | 1/4 NPT | M6 | 81 | 68 | 42,5 | 7  | 85 | 50 | 58 | 17 | 15,5 | 10 | 6  |
| VZWD-...-N1/4-60-...-4-R1 |    |    |      |         |    |    |    |      |    |    |    |    |    |      |    |    |

## Ordering data

| Ordering data                                                                    |                               |              |                                |                |          |                                   |                                   |
|----------------------------------------------------------------------------------|-------------------------------|--------------|--------------------------------|----------------|----------|-----------------------------------|-----------------------------------|
|                                                                                  | Connection Pro-<br>cess valve | Nominal size | Valve function                 | Product weight | Part no. | Type                              |                                   |
|  | G1/8                          | 1 mm         | 2/2-way, closed,<br>monostable | 300 g          | 1491981  | VZWD-L-M22C-M-G18-10-V-3AP4-50    |                                   |
|                                                                                  |                               |              |                                |                | 1491903  | VZWD-L-M22C-M-G18-10-V-2AP4-50    |                                   |
|                                                                                  |                               |              |                                |                | 1491825  | VZWD-L-M22C-M-G18-10-V-1P4-50     |                                   |
|                                                                                  |                               |              |                                | 500 g          | 1491926  | VZWD-L-M22C-M-G18-10-V-2AP4-90-R1 |                                   |
|                                                                                  |                               |              |                                |                | 1492004  | VZWD-L-M22C-M-G18-10-V-3AP4-90-R1 |                                   |
|                                                                                  |                               |              |                                |                | 1491848  | VZWD-L-M22C-M-G18-10-V-1P4-90-R1  |                                   |
|                                                                                  |                               |              |                                | 550 g          | 1491832  | VZWD-L-M22C-M-G18-10-V-1P4-90     |                                   |
|                                                                                  |                               |              |                                |                | 1491910  | VZWD-L-M22C-M-G18-10-V-2AP4-90    |                                   |
|                                                                                  |                               |              |                                |                | 1491988  | VZWD-L-M22C-M-G18-10-V-3AP4-90    |                                   |
|                                                                                  |                               | 1.5 mm       |                                | 300 g          | 1491826  | VZWD-L-M22C-M-G18-15-V-1P4-30     |                                   |
|                                                                                  |                               |              |                                |                | 1491982  | VZWD-L-M22C-M-G18-15-V-3AP4-30    |                                   |
|                                                                                  |                               |              |                                |                | 1491904  | VZWD-L-M22C-M-G18-15-V-2AP4-30    |                                   |
|                                                                                  |                               |              |                                | 500 g          | 1492005  | VZWD-L-M22C-M-G18-15-V-3AP4-85-R1 |                                   |
|                                                                                  |                               |              |                                |                | 1491927  | VZWD-L-M22C-M-G18-15-V-2AP4-85-R1 |                                   |
|                                                                                  |                               |              |                                |                | 1491849  | VZWD-L-M22C-M-G18-15-V-1P4-85-R1  |                                   |
|                                                                                  |                               |              |                                | 550 g          | 1491911  | VZWD-L-M22C-M-G18-15-V-2AP4-85    |                                   |
|                                                                                  |                               |              |                                |                | 1491989  | VZWD-L-M22C-M-G18-15-V-3AP4-85    |                                   |
|                                                                                  |                               |              |                                |                | 1491833  | VZWD-L-M22C-M-G18-15-V-1P4-85     |                                   |
|                                                                                  |                               | 2 mm         |                                | 300 g          | 1491827  | VZWD-L-M22C-M-G18-20-V-1P4-15     |                                   |
|                                                                                  |                               |              |                                |                | 1491983  | VZWD-L-M22C-M-G18-20-V-3AP4-15    |                                   |
|                                                                                  |                               |              |                                |                | 1491905  | VZWD-L-M22C-M-G18-20-V-2AP4-15    |                                   |
|                                                                                  |                               |              |                                | 500 g          | 1491850  | VZWD-L-M22C-M-G18-20-V-1P4-40-R1  |                                   |
|                                                                                  |                               |              |                                |                | 1492006  | VZWD-L-M22C-M-G18-20-V-3AP4-40-R1 |                                   |
|                                                                                  |                               |              |                                |                | 1491928  | VZWD-L-M22C-M-G18-20-V-2AP4-40-R1 |                                   |
|                                                                                  |                               |              |                                | 550 g          | 1491990  | VZWD-L-M22C-M-G18-20-V-3AP4-40    |                                   |
|                                                                                  |                               |              |                                |                | 1491834  | VZWD-L-M22C-M-G18-20-V-1P4-40     |                                   |
|                                                                                  |                               |              |                                |                | 1491912  | VZWD-L-M22C-M-G18-20-V-2AP4-40    |                                   |
|                                                                                  |                               | 2.5 mm       |                                | 500 g          | 1491851  | VZWD-L-M22C-M-G18-25-V-1P4-22-R1  |                                   |
|                                                                                  |                               |              |                                |                | 1492007  | VZWD-L-M22C-M-G18-25-V-3AP4-22-R1 |                                   |
|                                                                                  |                               |              |                                |                | 1491929  | VZWD-L-M22C-M-G18-25-V-2AP4-22-R1 |                                   |
|                                                                                  |                               |              |                                | 550 g          | 1491913  | VZWD-L-M22C-M-G18-25-V-2AP4-22    |                                   |
|                                                                                  |                               |              |                                |                | 1491835  | VZWD-L-M22C-M-G18-25-V-1P4-22     |                                   |
|                                                                                  |                               |              |                                |                | 1491991  | VZWD-L-M22C-M-G18-25-V-3AP4-22    |                                   |
|                                                                                  |                               |              |                                | 3 mm           | 500 g    | 1492008                           | VZWD-L-M22C-M-G18-30-V-3AP4-15-R1 |
|                                                                                  |                               |              |                                |                |          | 1491930                           | VZWD-L-M22C-M-G18-30-V-2AP4-15-R1 |
|                                                                                  |                               |              |                                |                |          | 1491852                           | VZWD-L-M22C-M-G18-30-V-1P4-15-R1  |
|                                                                                  |                               | 550 g        |                                |                | 1491992  | VZWD-L-M22C-M-G18-30-V-3AP4-15    |                                   |
|                                                                                  |                               |              |                                |                | 1491836  | VZWD-L-M22C-M-G18-30-V-1P4-15     |                                   |
|                                                                                  |                               |              |                                |                | 1491914  | VZWD-L-M22C-M-G18-30-V-2AP4-15    |                                   |
|                                                                                  |                               | 4 mm         |                                | 500 g          | 1492009  | VZWD-L-M22C-M-G18-40-V-3AP4-8-R1  |                                   |
|                                                                                  |                               |              |                                |                | 1491853  | VZWD-L-M22C-M-G18-40-V-1P4-8-R1   |                                   |
|                                                                                  |                               |              |                                |                | 1491931  | VZWD-L-M22C-M-G18-40-V-2AP4-8-R1  |                                   |
|                                                                                  |                               |              |                                | 550 g          | 1491915  | VZWD-L-M22C-M-G18-40-V-2AP4-8     |                                   |
|                                                                                  |                               |              |                                |                | 1491993  | VZWD-L-M22C-M-G18-40-V-3AP4-8     |                                   |
|                                                                                  |                               |              |                                |                | 1491837  | VZWD-L-M22C-M-G18-40-V-1P4-8      |                                   |
|                                                                                  |                               | 5 mm         |                                | 500 g          | 1492010  | VZWD-L-M22C-M-G18-50-V-3AP4-5-R1  |                                   |
|                                                                                  |                               |              |                                |                | 1491854  | VZWD-L-M22C-M-G18-50-V-1P4-5-R1   |                                   |
|                                                                                  |                               |              |                                |                | 1491932  | VZWD-L-M22C-M-G18-50-V-2AP4-5-R1  |                                   |
|                                                                                  |                               |              |                                | 600 g          | 1491994  | VZWD-L-M22C-M-G18-50-V-3AP4-5     |                                   |
| 1491916                                                                          | VZWD-L-M22C-M-G18-50-V-2AP4-5 |              |                                |                |          |                                   |                                   |

## Ordering data

| Ordering data                                                                     |                          |              |                             |                |          |                                   |
|-----------------------------------------------------------------------------------|--------------------------|--------------|-----------------------------|----------------|----------|-----------------------------------|
|                                                                                   | Connection Process valve | Nominal size | Valve function              | Product weight | Part no. | Type                              |
|  | G1/8                     | 5 mm         | 2/2-way, closed, monostable | 600 g          | 1491838  | VZWD-L-M22C-M-G18-50-V-1P4-5      |
|                                                                                   |                          | 6 mm         |                             | 500 g          | 1491855  | VZWD-L-M22C-M-G18-60-V-1P4-4-R1   |
|                                                                                   |                          |              |                             |                | 1491933  | VZWD-L-M22C-M-G18-60-V-2AP4-4-R1  |
|                                                                                   |                          |              |                             |                | 1492011  | VZWD-L-M22C-M-G18-60-V-3AP4-4-R1  |
|                                                                                   |                          |              |                             | 600 g          | 1491995  | VZWD-L-M22C-M-G18-60-V-3AP4-4     |
|                                                                                   |                          |              |                             |                | 1491839  | VZWD-L-M22C-M-G18-60-V-1P4-4      |
|                                                                                   |                          |              |                             |                | 1491917  | VZWD-L-M22C-M-G18-60-V-2AP4-4     |
|                                                                                   | G1/4                     | 1 mm         |                             | 350 g          | 1491906  | VZWD-L-M22C-M-G14-10-V-2AP4-50    |
|                                                                                   |                          |              |                             |                | 1491984  | VZWD-L-M22C-M-G14-10-V-3AP4-50    |
|                                                                                   |                          |              |                             |                | 1491828  | VZWD-L-M22C-M-G14-10-V-1P4-50     |
|                                                                                   |                          |              |                             | 550 g          | 1491840  | VZWD-L-M22C-M-G14-10-V-1P4-90     |
|                                                                                   |                          |              |                             |                | 1491918  | VZWD-L-M22C-M-G14-10-V-2AP4-90    |
|                                                                                   |                          |              |                             |                | 1491996  | VZWD-L-M22C-M-G14-10-V-3AP4-90    |
|                                                                                   |                          |              |                             | 650 g          | 1491856  | VZWD-L-M22C-M-G14-10-V-1P4-90-R1  |
|                                                                                   |                          |              |                             |                | 1492012  | VZWD-L-M22C-M-G14-10-V-3AP4-90-R1 |
|                                                                                   |                          |              |                             |                | 1491934  | VZWD-L-M22C-M-G14-10-V-2AP4-90-R1 |
|                                                                                   |                          | 1.5 mm       |                             | 350 g          | 1491829  | VZWD-L-M22C-M-G14-15-V-1P4-30     |
|                                                                                   |                          |              |                             |                | 1491907  | VZWD-L-M22C-M-G14-15-V-2AP4-30    |
|                                                                                   |                          |              |                             |                | 1491985  | VZWD-L-M22C-M-G14-15-V-3AP4-30    |
|                                                                                   |                          |              |                             | 550 g          | 1491997  | VZWD-L-M22C-M-G14-15-V-3AP4-85    |
|                                                                                   |                          |              |                             |                | 1491919  | VZWD-L-M22C-M-G14-15-V-2AP4-85    |
|                                                                                   |                          |              |                             |                | 1491841  | VZWD-L-M22C-M-G14-15-V-1P4-85     |
|                                                                                   |                          |              |                             | 650 g          | 1492013  | VZWD-L-M22C-M-G14-15-V-3AP4-85-R1 |
|                                                                                   |                          |              |                             |                | 1491935  | VZWD-L-M22C-M-G14-15-V-2AP4-85-R1 |
|                                                                                   |                          |              |                             |                | 1491857  | VZWD-L-M22C-M-G14-15-V-1P4-85-R1  |
|                                                                                   |                          | 2 mm         |                             | 350 g          | 1491908  | VZWD-L-M22C-M-G14-20-V-2AP4-15    |
|                                                                                   |                          |              |                             |                | 1491986  | VZWD-L-M22C-M-G14-20-V-3AP4-15    |
|                                                                                   |                          |              |                             |                | 1491830  | VZWD-L-M22C-M-G14-20-V-1P4-15     |
|                                                                                   |                          |              |                             | 550 g          | 1491920  | VZWD-L-M22C-M-G14-20-V-2AP4-40    |
|                                                                                   |                          |              |                             |                | 1491842  | VZWD-L-M22C-M-G14-20-V-1P4-40     |
|                                                                                   |                          |              |                             |                | 1491998  | VZWD-L-M22C-M-G14-20-V-3AP4-40    |
|                                                                                   |                          |              |                             | 650 g          | 1491858  | VZWD-L-M22C-M-G14-20-V-1P4-40-R1  |
|                                                                                   |                          |              |                             |                | 1491936  | VZWD-L-M22C-M-G14-20-V-2AP4-40-R1 |
|                                                                                   |                          |              |                             |                | 1492014  | VZWD-L-M22C-M-G14-20-V-3AP4-40-R1 |
|                                                                                   |                          | 2.5 mm       |                             | 350 g          | 1491831  | VZWD-L-M22C-M-G14-25-V-1P4-8      |
|                                                                                   |                          |              |                             |                | 1491987  | VZWD-L-M22C-M-G14-25-V-3AP4-8     |
|                                                                                   |                          |              |                             |                | 1491909  | VZWD-L-M22C-M-G14-25-V-2AP4-8     |
|                                                                                   |                          |              |                             | 550 g          | 1491999  | VZWD-L-M22C-M-G14-25-V-3AP4-22    |
|                                                                                   |                          |              |                             |                | 1491843  | VZWD-L-M22C-M-G14-25-V-1P4-22     |
|                                                                                   |                          |              |                             |                | 1491921  | VZWD-L-M22C-M-G14-25-V-2AP4-22    |
|                                                                                   |                          |              |                             | 650 g          | 1491859  | VZWD-L-M22C-M-G14-25-V-1P4-22-R1  |
|                                                                                   |                          |              |                             |                | 1491937  | VZWD-L-M22C-M-G14-25-V-2AP4-22-R1 |
|                                                                                   |                          |              |                             |                | 1492015  | VZWD-L-M22C-M-G14-25-V-3AP4-22-R1 |
|                                                                                   |                          | 3 mm         |                             | 550 g          | 1491844  | VZWD-L-M22C-M-G14-30-V-1P4-15     |
|                                                                                   |                          |              |                             |                | 1491922  | VZWD-L-M22C-M-G14-30-V-2AP4-15    |
|                                                                                   |                          |              |                             |                | 1492000  | VZWD-L-M22C-M-G14-30-V-3AP4-15    |
|                                                                                   |                          |              |                             | 650 g          | 1491860  | VZWD-L-M22C-M-G14-30-V-1P4-15-R1  |
|                                                                                   |                          |              |                             |                | 1491938  | VZWD-L-M22C-M-G14-30-V-2AP4-15-R1 |
|                                                                                   |                          |              |                             |                | 1492016  | VZWD-L-M22C-M-G14-30-V-3AP4-15-R1 |
|                                                                                   |                          | 4 mm         |                             | 550 g          | 1491923  | VZWD-L-M22C-M-G14-40-V-2AP4-8     |

## Ordering data

| Ordering data                                                                    |                          |              |                             |                                |                                  |                                   |                                   |
|----------------------------------------------------------------------------------|--------------------------|--------------|-----------------------------|--------------------------------|----------------------------------|-----------------------------------|-----------------------------------|
|                                                                                  | Connection Process valve | Nominal size | Valve function              | Product weight                 | Part no.                         | Type                              |                                   |
|  | G1/4                     | 4 mm         | 2/2-way, closed, monostable | 550 g                          | 1492001                          | VZWD-L-M22C-M-G14-40-V-3AP4-8     |                                   |
|                                                                                  |                          |              |                             |                                | 1491845                          | VZWD-L-M22C-M-G14-40-V-1P4-8      |                                   |
|                                                                                  |                          |              |                             | 650 g                          | 1491861                          | VZWD-L-M22C-M-G14-40-V-1P4-8-R1   |                                   |
|                                                                                  |                          |              |                             |                                | 1492017                          | VZWD-L-M22C-M-G14-40-V-3AP4-8-R1  |                                   |
|                                                                                  |                          |              |                             |                                | 1491939                          | VZWD-L-M22C-M-G14-40-V-2AP4-8-R1  |                                   |
|                                                                                  |                          |              |                             | 600 g                          | 1491846                          | VZWD-L-M22C-M-G14-50-V-1P4-5      |                                   |
|                                                                                  |                          |              |                             |                                | 1491924                          | VZWD-L-M22C-M-G14-50-V-2AP4-5     |                                   |
|                                                                                  |                          |              |                             |                                | 1492002                          | VZWD-L-M22C-M-G14-50-V-3AP4-5     |                                   |
|                                                                                  |                          |              |                             | 650 g                          | 1492018                          | VZWD-L-M22C-M-G14-50-V-3AP4-5-R1  |                                   |
|                                                                                  |                          | 1491940      |                             |                                | VZWD-L-M22C-M-G14-50-V-2AP4-5-R1 |                                   |                                   |
|                                                                                  |                          | 1491862      |                             |                                | VZWD-L-M22C-M-G14-50-V-1P4-5-R1  |                                   |                                   |
|                                                                                  |                          | 6 mm         |                             | 600 g                          | 1492003                          | VZWD-L-M22C-M-G14-60-V-3AP4-4     |                                   |
|                                                                                  |                          |              |                             |                                | 1491847                          | VZWD-L-M22C-M-G14-60-V-1P4-4      |                                   |
|                                                                                  |                          |              |                             |                                | 1491925                          | VZWD-L-M22C-M-G14-60-V-2AP4-4     |                                   |
|                                                                                  |                          |              |                             | 650 g                          | 1492019                          | VZWD-L-M22C-M-G14-60-V-3AP4-4-R1  |                                   |
|                                                                                  |                          |              |                             |                                | 1491863                          | VZWD-L-M22C-M-G14-60-V-1P4-4-R1   |                                   |
|                                                                                  |                          |              |                             |                                | 1491941                          | VZWD-L-M22C-M-G14-60-V-2AP4-4-R1  |                                   |
|                                                                                  |                          | 1/8 NPT      |                             | 1 mm                           | 300 g                            | 1491864                           | VZWD-L-M22C-M-N18-10-V-1P4-50     |
|                                                                                  |                          |              |                             |                                |                                  | 1491942                           | VZWD-L-M22C-M-N18-10-V-2AP4-50    |
|                                                                                  |                          |              |                             |                                |                                  | 1492020                           | VZWD-L-M22C-M-N18-10-V-3AP4-50    |
|                                                                                  |                          |              |                             |                                | 500 g                            | 1492048                           | VZWD-L-M22C-M-N18-10-V-3AP4-90-R1 |
|                                                                                  |                          |              |                             |                                |                                  | 1491965                           | VZWD-L-M22C-M-N18-10-V-2AP4-90-R1 |
|                                                                                  |                          |              |                             |                                |                                  | 1491887                           | VZWD-L-M22C-M-N18-10-V-1P4-90-R1  |
|                                                                                  |                          |              |                             |                                | 550 g                            | 1491949                           | VZWD-L-M22C-M-N18-10-V-2AP4-90    |
|                                                                                  |                          |              |                             |                                |                                  | 1491871                           | VZWD-L-M22C-M-N18-10-V-1P4-90     |
|                                                                                  |                          |              |                             |                                |                                  | 1492027                           | VZWD-L-M22C-M-N18-10-V-3AP4-90    |
|                                                                                  |                          |              |                             | 1.5 mm                         | 300 g                            | 1491943                           | VZWD-L-M22C-M-N18-15-V-2AP4-30    |
|                                                                                  | 1492021                  |              |                             |                                |                                  | VZWD-L-M22C-M-N18-15-V-3AP4-30    |                                   |
|                                                                                  | 1491865                  |              |                             |                                |                                  | VZWD-L-M22C-M-N18-15-V-1P4-30     |                                   |
|                                                                                  | 500 g                    |              |                             |                                | 1492049                          | VZWD-L-M22C-M-N18-15-V-3AP4-85-R1 |                                   |
|                                                                                  |                          |              |                             |                                | 1491966                          | VZWD-L-M22C-M-N18-15-V-2AP4-85-R1 |                                   |
|                                                                                  |                          |              |                             |                                | 1491888                          | VZWD-L-M22C-M-N18-15-V-1P4-85-R1  |                                   |
|                                                                                  | 550 g                    |              |                             |                                | 1491950                          | VZWD-L-M22C-M-N18-15-V-2AP4-85    |                                   |
|                                                                                  |                          |              |                             |                                | 1492028                          | VZWD-L-M22C-M-N18-15-V-3AP4-85    |                                   |
|                                                                                  |                          |              |                             |                                | 1491872                          | VZWD-L-M22C-M-N18-15-V-1P4-85     |                                   |
|                                                                                  | 2 mm                     |              |                             | 300 g                          | 1491866                          | VZWD-L-M22C-M-N18-20-V-1P4-15     |                                   |
|                                                                                  |                          |              |                             |                                | 1492022                          | VZWD-L-M22C-M-N18-20-V-3AP4-15    |                                   |
|                                                                                  |                          |              |                             |                                | 1491944                          | VZWD-L-M22C-M-N18-20-V-2AP4-15    |                                   |
|                                                                                  |                          |              |                             | 500 g                          | 1492050                          | VZWD-L-M22C-M-N18-20-V-3AP4-40-R1 |                                   |
|                                                                                  |                          |              |                             |                                | 1491967                          | VZWD-L-M22C-M-N18-20-V-2AP4-40-R1 |                                   |
|                                                                                  |                          |              |                             |                                | 1491889                          | VZWD-L-M22C-M-N18-20-V-1P4-40-R1  |                                   |
|                                                                                  |                          |              |                             | 550 g                          | 1492029                          | VZWD-L-M22C-M-N18-20-V-3AP4-40    |                                   |
|                                                                                  |                          |              |                             |                                | 1491873                          | VZWD-L-M22C-M-N18-20-V-1P4-40     |                                   |
|                                                                                  |                          |              |                             |                                | 1491951                          | VZWD-L-M22C-M-N18-20-V-2AP4-40    |                                   |
|                                                                                  | 2.5 mm                   |              |                             | 500 g                          | 1492051                          | VZWD-L-M22C-M-N18-25-V-3AP4-22-R1 |                                   |
|                                                                                  |                          |              |                             |                                | 1491968                          | VZWD-L-M22C-M-N18-25-V-2AP4-22-R1 |                                   |
|                                                                                  |                          |              |                             |                                | 1491890                          | VZWD-L-M22C-M-N18-25-V-1P4-22-R1  |                                   |
| 550 g                                                                            |                          |              | 1491874                     | VZWD-L-M22C-M-N18-25-V-1P4-22  |                                  |                                   |                                   |
|                                                                                  |                          |              | 1492030                     | VZWD-L-M22C-M-N18-25-V-3AP4-22 |                                  |                                   |                                   |
|                                                                                  |                          |              | 1491952                     | VZWD-L-M22C-M-N18-25-V-2AP4-22 |                                  |                                   |                                   |



## Ordering data

| Ordering data                                                                     |                          |              |                                   |                                   |                                |                                   |
|-----------------------------------------------------------------------------------|--------------------------|--------------|-----------------------------------|-----------------------------------|--------------------------------|-----------------------------------|
|                                                                                   | Connection Process valve | Nominal size | Valve function                    | Product weight                    | Part no.                       | Type                              |
|  | 1/8 NPT                  | 3 mm         | 2/2-way, closed, monostable       | 500 g                             | 1491891                        | VZWD-L-M22C-M-N18-30-V-1P4-15-R1  |
|                                                                                   |                          |              |                                   |                                   | 1492052                        | VZWD-L-M22C-M-N18-30-V-3AP4-15-R1 |
|                                                                                   |                          |              |                                   |                                   | 1491969                        | VZWD-L-M22C-M-N18-30-V-2AP4-15-R1 |
|                                                                                   |                          |              |                                   | 550 g                             | 1491875                        | VZWD-L-M22C-M-N18-30-V-1P4-15     |
|                                                                                   |                          |              |                                   |                                   | 1491953                        | VZWD-L-M22C-M-N18-30-V-2AP4-15    |
|                                                                                   |                          |              |                                   |                                   | 1492031                        | VZWD-L-M22C-M-N18-30-V-3AP4-15    |
|                                                                                   |                          | 4 mm         |                                   | 500 g                             | 1492053                        | VZWD-L-M22C-M-N18-40-V-3AP4-8-R1  |
|                                                                                   |                          |              |                                   |                                   | 1491970                        | VZWD-L-M22C-M-N18-40-V-2AP4-8-R1  |
|                                                                                   |                          |              |                                   |                                   | 1491892                        | VZWD-L-M22C-M-N18-40-V-1P4-8-R1   |
|                                                                                   |                          |              |                                   | 550 g                             | 1491876                        | VZWD-L-M22C-M-N18-40-V-1P4-8      |
|                                                                                   |                          |              |                                   |                                   | 1492032                        | VZWD-L-M22C-M-N18-40-V-3AP4-8     |
|                                                                                   |                          |              |                                   |                                   | 1491954                        | VZWD-L-M22C-M-N18-40-V-2AP4-8     |
|                                                                                   |                          | 5 mm         |                                   | 500 g                             | 1491971                        | VZWD-L-M22C-M-N18-50-V-2AP4-5-R1  |
|                                                                                   |                          |              |                                   |                                   | 1491893                        | VZWD-L-M22C-M-N18-50-V-1P4-5-R1   |
|                                                                                   |                          |              |                                   |                                   | 1492054                        | VZWD-L-M22C-M-N18-50-V-3AP4-5-R1  |
|                                                                                   |                          |              |                                   | 600 g                             | 1492033                        | VZWD-L-M22C-M-N18-50-V-3AP4-5     |
|                                                                                   |                          |              |                                   |                                   | 1491877                        | VZWD-L-M22C-M-N18-50-V-1P4-5      |
|                                                                                   |                          |              |                                   |                                   | 1491955                        | VZWD-L-M22C-M-N18-50-V-2AP4-5     |
|                                                                                   |                          | 6 mm         |                                   | 500 g                             | 1491894                        | VZWD-L-M22C-M-N18-60-V-1P4-4-R1   |
|                                                                                   |                          |              |                                   |                                   | 1491972                        | VZWD-L-M22C-M-N18-60-V-2AP4-4-R1  |
|                                                                                   |                          |              |                                   |                                   | 1492055                        | VZWD-L-M22C-M-N18-60-V-3AP4-4-R1  |
|                                                                                   |                          |              |                                   | 600 g                             | 1491878                        | VZWD-L-M22C-M-N18-60-V-1P4-4      |
|                                                                                   |                          |              |                                   |                                   | 1492034                        | VZWD-L-M22C-M-N18-60-V-3AP4-4     |
|                                                                                   |                          |              |                                   |                                   | 1491956                        | VZWD-L-M22C-M-N18-60-V-2AP4-4     |
|                                                                                   | 1/4 NPT                  | 1 mm         | 350 g                             | 1491867                           | VZWD-L-M22C-M-N14-10-V-1P4-50  |                                   |
|                                                                                   |                          |              |                                   | 1492023                           | VZWD-L-M22C-M-N14-10-V-3AP4-50 |                                   |
|                                                                                   |                          |              |                                   | 1491945                           | VZWD-L-M22C-M-N14-10-V-2AP4-50 |                                   |
|                                                                                   |                          |              | 550 g                             | 1491957                           | VZWD-L-M22C-M-N14-10-V-2AP4-90 |                                   |
|                                                                                   |                          |              |                                   | 1492040                           | VZWD-L-M22C-M-N14-10-V-3AP4-90 |                                   |
|                                                                                   |                          |              |                                   | 1491879                           | VZWD-L-M22C-M-N14-10-V-1P4-90  |                                   |
| 650 g                                                                             |                          |              | 1491895                           | VZWD-L-M22C-M-N14-10-V-1P4-90-R1  |                                |                                   |
|                                                                                   |                          |              | 1492090                           | VZWD-L-M22C-M-N14-10-V-3AP4-90-R1 |                                |                                   |
|                                                                                   |                          |              | 1491973                           | VZWD-L-M22C-M-N14-10-V-2AP4-90-R1 |                                |                                   |
| 1.5 mm                                                                            |                          | 350 g        | 1492024                           | VZWD-L-M22C-M-N14-15-V-3AP4-30    |                                |                                   |
|                                                                                   |                          |              | 1491946                           | VZWD-L-M22C-M-N14-15-V-2AP4-30    |                                |                                   |
|                                                                                   |                          |              | 1491868                           | VZWD-L-M22C-M-N14-15-V-1P4-30     |                                |                                   |
|                                                                                   |                          | 550 g        | 1491958                           | VZWD-L-M22C-M-N14-15-V-2AP4-85    |                                |                                   |
|                                                                                   |                          |              | 1491880                           | VZWD-L-M22C-M-N14-15-V-1P4-85     |                                |                                   |
|                                                                                   |                          |              | 1492041                           | VZWD-L-M22C-M-N14-15-V-3AP4-85    |                                |                                   |
|                                                                                   |                          | 650 g        | 1492091                           | VZWD-L-M22C-M-N14-15-V-3AP4-85-R1 |                                |                                   |
|                                                                                   |                          |              | 1491896                           | VZWD-L-M22C-M-N14-15-V-1P4-85-R1  |                                |                                   |
|                                                                                   |                          |              | 1491974                           | VZWD-L-M22C-M-N14-15-V-2AP4-85-R1 |                                |                                   |
| 2 mm                                                                              |                          | 350 g        | 1491869                           | VZWD-L-M22C-M-N14-20-V-1P4-15     |                                |                                   |
|                                                                                   |                          |              | 1491947                           | VZWD-L-M22C-M-N14-20-V-2AP4-15    |                                |                                   |
|                                                                                   |                          |              | 1492025                           | VZWD-L-M22C-M-N14-20-V-3AP4-15    |                                |                                   |
|                                                                                   |                          | 550 g        | 1491881                           | VZWD-L-M22C-M-N14-20-V-1P4-40     |                                |                                   |
|                                                                                   |                          |              | 1491959                           | VZWD-L-M22C-M-N14-20-V-2AP4-40    |                                |                                   |
|                                                                                   |                          |              | 1492042                           | VZWD-L-M22C-M-N14-20-V-3AP4-40    |                                |                                   |
|                                                                                   | 650 g                    | 1491975      | VZWD-L-M22C-M-N14-20-V-2AP4-40-R1 |                                   |                                |                                   |
|                                                                                   |                          | 1491897      | VZWD-L-M22C-M-N14-20-V-1P4-40-R1  |                                   |                                |                                   |

## Ordering data

| Ordering data                                                                    |                          |              |                             |                |          |                                   |
|----------------------------------------------------------------------------------|--------------------------|--------------|-----------------------------|----------------|----------|-----------------------------------|
|                                                                                  | Connection Process valve | Nominal size | Valve function              | Product weight | Part no. | Type                              |
|  | 1/4 NPT                  | 2 mm         | 2/2-way, closed, monostable | 650 g          | 1492092  | VZWD-L-M22C-M-N14-20-V-3AP4-40-R1 |
|                                                                                  |                          |              |                             | 350 g          | 1491948  | VZWD-L-M22C-M-N14-25-V-2AP4-8     |
|                                                                                  |                          |              |                             |                | 1491870  | VZWD-L-M22C-M-N14-25-V-1P4-8      |
|                                                                                  |                          |              |                             |                | 1492026  | VZWD-L-M22C-M-N14-25-V-3AP4-8     |
|                                                                                  |                          |              |                             | 550 g          | 1492043  | VZWD-L-M22C-M-N14-25-V-3AP4-22    |
|                                                                                  |                          |              |                             |                | 1491882  | VZWD-L-M22C-M-N14-25-V-1P4-22     |
|                                                                                  |                          |              |                             |                | 1491960  | VZWD-L-M22C-M-N14-25-V-2AP4-22    |
|                                                                                  |                          |              |                             | 650 g          | 1492093  | VZWD-L-M22C-M-N14-25-V-3AP4-22-R1 |
|                                                                                  |                          |              |                             |                | 1491976  | VZWD-L-M22C-M-N14-25-V-2AP4-22-R1 |
|                                                                                  |                          |              |                             |                | 1491898  | VZWD-L-M22C-M-N14-25-V-1P4-22-R1  |
|                                                                                  |                          | 3 mm         |                             | 550 g          | 1491883  | VZWD-L-M22C-M-N14-30-V-1P4-15     |
|                                                                                  |                          |              |                             |                | 1492044  | VZWD-L-M22C-M-N14-30-V-3AP4-15    |
|                                                                                  |                          |              |                             |                | 1491961  | VZWD-L-M22C-M-N14-30-V-2AP4-15    |
|                                                                                  |                          |              |                             | 650 g          | 1491899  | VZWD-L-M22C-M-N14-30-V-1P4-15-R1  |
|                                                                                  |                          |              |                             |                | 1491977  | VZWD-L-M22C-M-N14-30-V-2AP4-15-R1 |
|                                                                                  |                          |              |                             |                | 1492094  | VZWD-L-M22C-M-N14-30-V-3AP4-15-R1 |
|                                                                                  |                          | 4 mm         |                             | 550 g          | 1492045  | VZWD-L-M22C-M-N14-40-V-3AP4-8     |
|                                                                                  |                          |              |                             |                | 1491962  | VZWD-L-M22C-M-N14-40-V-2AP4-8     |
|                                                                                  |                          |              |                             |                | 1491884  | VZWD-L-M22C-M-N14-40-V-1P4-8      |
|                                                                                  |                          |              |                             | 650 g          | 1491900  | VZWD-L-M22C-M-N14-40-V-1P4-8-R1   |
|                                                                                  |                          |              |                             |                | 1491978  | VZWD-L-M22C-M-N14-40-V-2AP4-8-R1  |
|                                                                                  |                          |              |                             |                | 1492095  | VZWD-L-M22C-M-N14-40-V-3AP4-8-R1  |
|                                                                                  |                          | 5 mm         |                             | 600 g          | 1492046  | VZWD-L-M22C-M-N14-50-V-3AP4-5     |
|                                                                                  |                          |              |                             |                | 1491963  | VZWD-L-M22C-M-N14-50-V-2AP4-5     |
|                                                                                  |                          |              |                             |                | 1491885  | VZWD-L-M22C-M-N14-50-V-1P4-5      |
|                                                                                  |                          |              |                             | 650 g          | 1491979  | VZWD-L-M22C-M-N14-50-V-2AP4-5-R1  |
|                                                                                  |                          |              |                             |                | 1492096  | VZWD-L-M22C-M-N14-50-V-3AP4-5-R1  |
|                                                                                  |                          |              |                             |                | 1491901  | VZWD-L-M22C-M-N14-50-V-1P4-5-R1   |
|                                                                                  |                          | 6 mm         |                             | 600 g          | 1491886  | VZWD-L-M22C-M-N14-60-V-1P4-4      |
|                                                                                  |                          |              |                             |                | 1491964  | VZWD-L-M22C-M-N14-60-V-2AP4-4     |
|                                                                                  |                          |              |                             |                | 1492047  | VZWD-L-M22C-M-N14-60-V-3AP4-4     |
|                                                                                  |                          |              |                             | 650 g          | 1491980  | VZWD-L-M22C-M-N14-60-V-2AP4-4-R1  |
|                                                                                  |                          |              |                             |                | 1492097  | VZWD-L-M22C-M-N14-60-V-3AP4-4-R1  |
|                                                                                  |                          |              |                             |                | 1491902  | VZWD-L-M22C-M-N14-60-V-1P4-4-R1   |