

## Valve series VOVG

**FESTO**



# Solenoid valves VOVG

Product range overview

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| Function      | Symbol | Version            | Normally |        | Voltage [V DC] |    |    | → Page/<br>Internet |
|---------------|--------|--------------------|----------|--------|----------------|----|----|---------------------|
|               |        |                    | open     | closed | 5              | 12 | 24 |                     |
| 3/2-way valve |        | In-line valve      | ■        | ■      | ■              | ■  | ■  | 8/vovg              |
|               |        | Semi in-line valve | ■        | ■      | ■              | ■  | ■  |                     |
|               |        | Sub-base valve     | ■        | ■      | ■              | ■  | ■  |                     |
|               |        |                    |          |        |                |    |    |                     |
| 5/2-way valve |        | In-line valve      | –        | –      | ■              | ■  | ■  |                     |
|               |        | Semi in-line valve | –        | –      | ■              | ■  | ■  |                     |
|               |        | Sub-base valve     | –        | –      | ■              | ■  | ■  |                     |
|               |        |                    |          |        |                |    |    |                     |

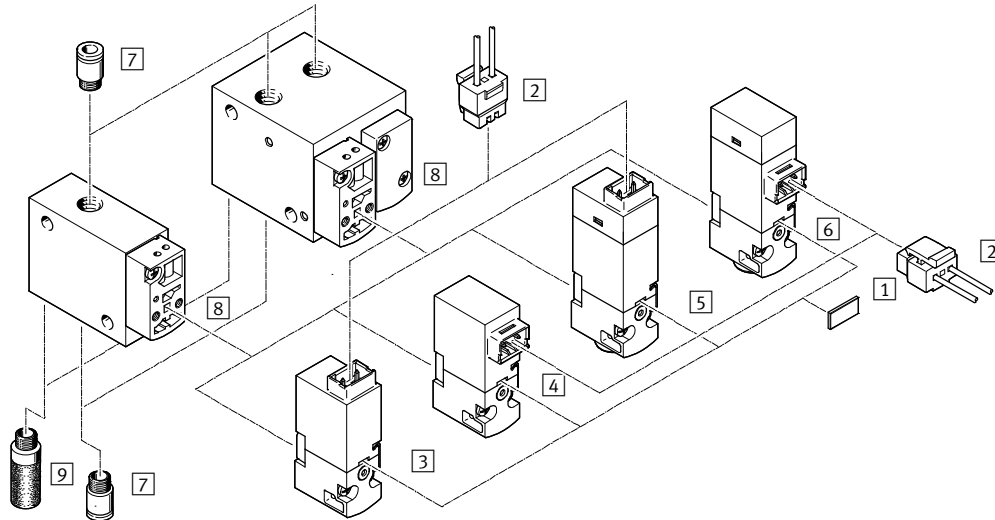
| Mounting options                |                   |      |      |      |         |
|---------------------------------|-------------------|------|------|------|---------|
| Voltage [V DC]                  |                   | 5    | 12   | 24   |         |
| Signal status display           |                   | None | None | None | Via LED |
| Horizontal plug connection (H2) |                   |      |      |      |         |
|                                 | Direct mounting   | ■    | ■    | ■    | ■       |
|                                 | Manifold assembly | ■    | ■    | ■    | ■       |
| Vertical plug connection (H3)   |                   |      |      |      |         |
|                                 | Direct mounting   | ■    | ■    | ■    | ■       |
|                                 | Manifold assembly | ■    | ■    | ■    | ■       |

# Solenoid valves VOVG

Peripherals overview

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## In-line valve



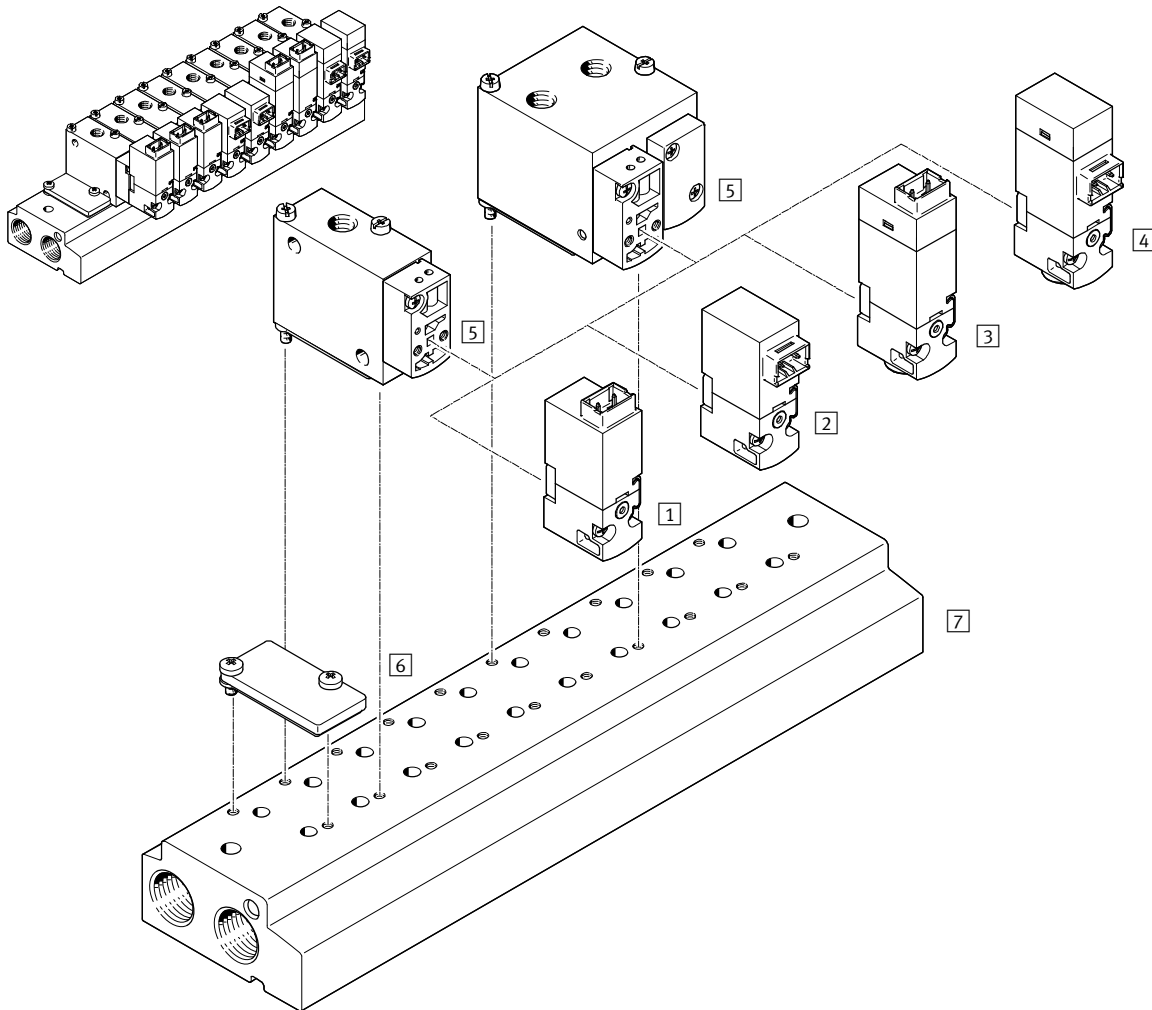
| Component parts |                        |                   |                                                                                 |    |
|-----------------|------------------------|-------------------|---------------------------------------------------------------------------------|----|
|                 | Type                   | Brief description | ➔ Page/<br>Internet                                                             |    |
| 1               | Inscription label      | MH-BZ-80X         | For identifying the solenoid valves                                             | 19 |
| 2               | Plug socket with cable | NEBV              | For solenoid coils                                                              | 19 |
| 3               | Pilot valve            | –                 | Sub-assembly of the solenoid valve VOVG with vertical plug connection           | 8  |
| 4               | Pilot valve            | –                 | Sub-assembly of the solenoid valve VOVG with horizontal plug connection         |    |
| 5               | Pilot valve            | –                 | Sub-assembly of the solenoid valve VOVG with vertical plug connection and LED   |    |
| 6               | Pilot valve            | –                 | Sub-assembly of the solenoid valve VOVG with horizontal plug connection and LED |    |
| 7               | Push-in fitting        | QS/QSM            | For standard O.D. tubing                                                        | 18 |
| 8               | Basic valves           | –                 | Sub-assemblies of the solenoid valves VOVG                                      | 8  |
| 9               | Silencer               | U                 | For fitting on exhaust ports                                                    | 18 |

# Solenoid valves VOVG

System overview

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## Manifold assembly – Semi in-line valves



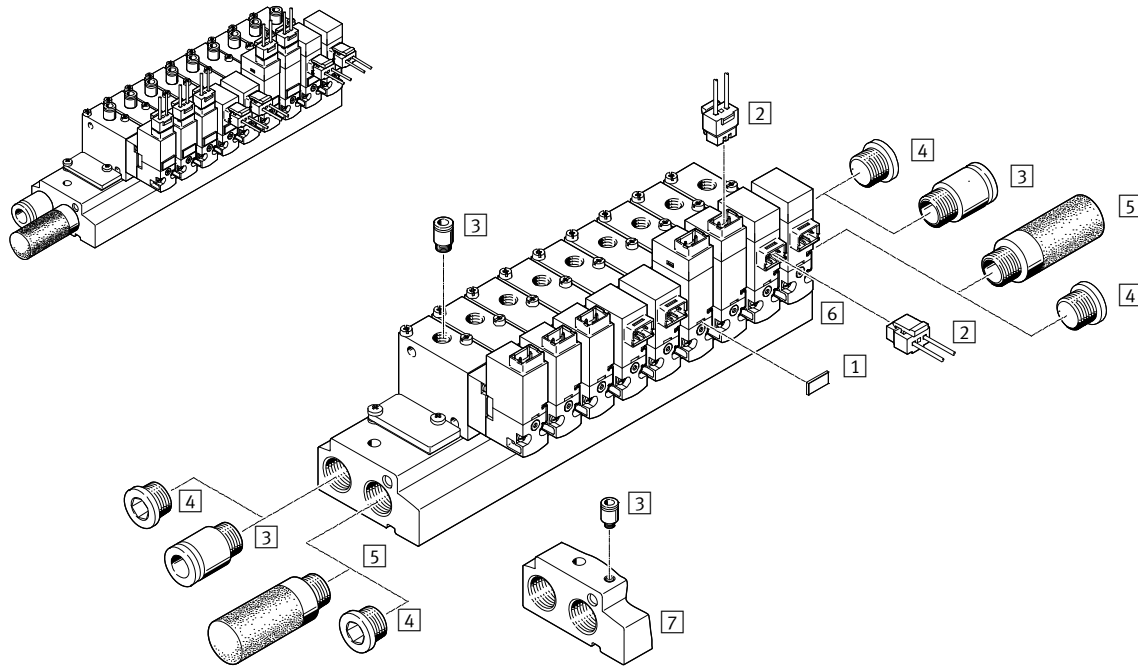
| Component parts |              |                                                                                 |                     |
|-----------------|--------------|---------------------------------------------------------------------------------|---------------------|
|                 | Type         | Brief description                                                               | → Page/<br>Internet |
| 1               | –            | Sub-assembly of the solenoid valve VOVG with vertical plug connection           | 8                   |
| 2               | –            | Sub-assembly of the solenoid valve VOVG with horizontal plug connection         |                     |
| 3               | –            | Sub-assembly of the solenoid valve VOVG with vertical plug connection and LED   |                     |
| 4               | –            | Sub-assembly of the solenoid valve VOVG with horizontal plug connection and LED |                     |
| 5               | –            | Sub-assemblies of the solenoid valves VOVG                                      |                     |
| 6               | VABB-C7-12-W | For vacant positions                                                            | 18                  |
| 7               | VABM-C7-...  | For semi in-line valves                                                         | 16                  |

# Solenoid valves VOVG

Peripherals overview

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## Manifold assembly – Semi in-line valves with accessories



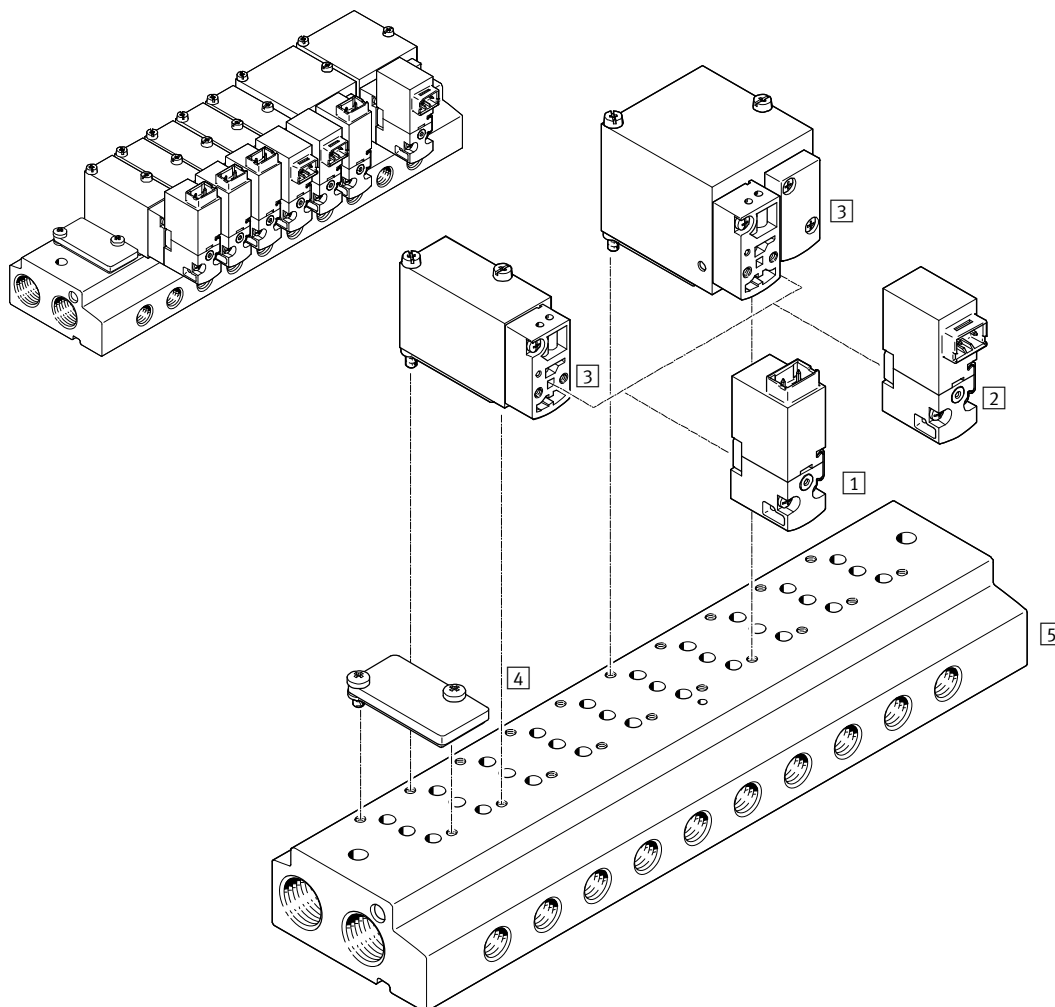
| Component parts |                        |                   |                                                                               |    |
|-----------------|------------------------|-------------------|-------------------------------------------------------------------------------|----|
|                 | Type                   | Brief description | ➔ Page/<br>Internet                                                           |    |
| 1               | Inscription label      | MH-BZ-80X         | For identifying the solenoid valves                                           | 19 |
| 2               | Plug socket with cable | NEBV              | For solenoid coils                                                            | 19 |
| 3               | Push-in fitting        | QS/QSM            | For standard O.D. tubing                                                      | 18 |
| 4               | Blanking plug          | B                 | For sealing unused ports                                                      | 18 |
| 5               | Silencer               | U                 | For fitting on exhaust ports                                                  | 18 |
| 6               | Manifold rail          | VABM-...-P...     | Without port for external pilot air for valves with internal pilot air supply | 16 |
| 7               | Manifold rail          | VABM-...-G...     | With port for external pilot air                                              | 16 |

# Solenoid valves VOVG

System overview

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## Manifold assembly – Sub-base valves



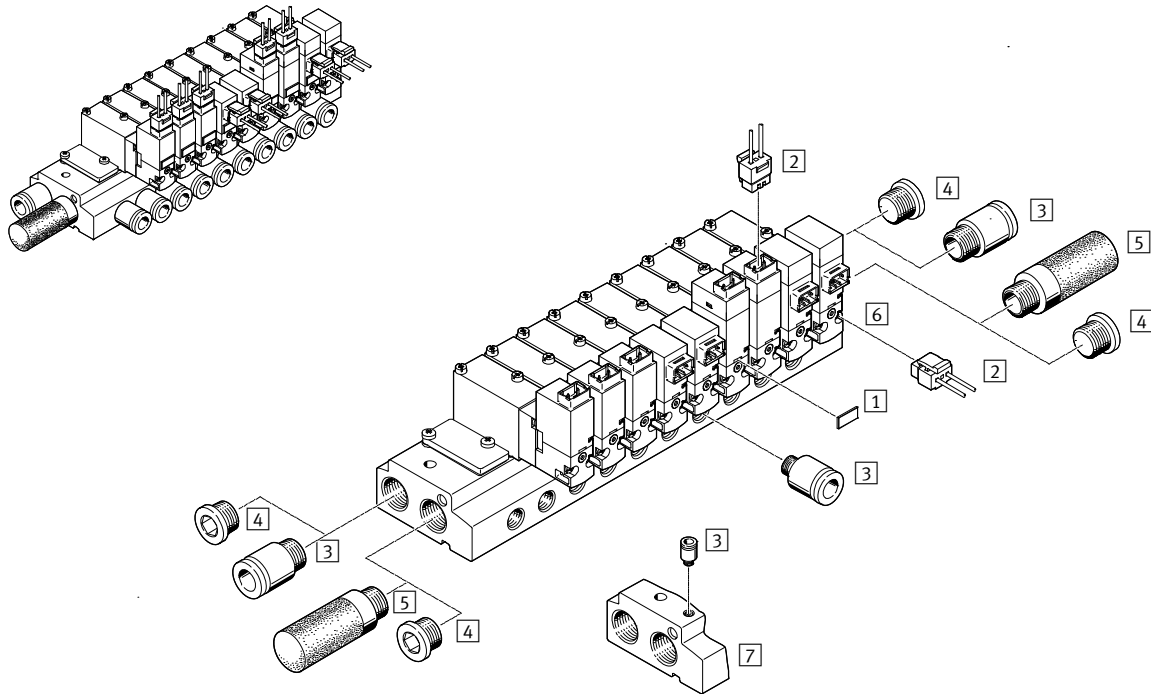
| Component parts |                |                   |                      |               |
|-----------------|----------------|-------------------|----------------------|---------------|
|                 | Type           | Brief description | ➔ Page/<br>Internet  |               |
| 1               | Pilot valve    | –                 | 8                    |               |
| 2               | Pilot valve    | –                 |                      |               |
| 3               | Basic valves   | –                 |                      |               |
| 4               | Blanking plate | VABB-C7-12-W      | For vacant positions | LEERER MERKER |
| 5               | Manifold rail  | VABM-C7-...       | For sub-base valves  | 17            |

# Solenoid valves VOVG

Peripherals overview

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## Manifold assembly – Sub-base valves with accessories



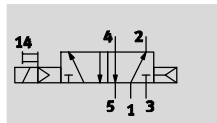
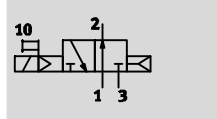
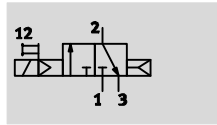
| Component parts |                        |                   |                                                                               |    |
|-----------------|------------------------|-------------------|-------------------------------------------------------------------------------|----|
|                 | Type                   | Brief description | ➔ Page/<br>Internet                                                           |    |
| 1               | Inscription label      | MH-BZ-80X         | For identifying the solenoid valves                                           | 19 |
| 2               | Plug socket with cable | NEBV              | For solenoid coils                                                            | 19 |
| 3               | Push-in fitting        | QS/QSM            | For standard O.D. tubing                                                      | 18 |
| 4               | Blanking plug          | B                 | For sealing unused ports                                                      | 18 |
| 5               | Silencer               | U                 | For fitting on exhaust ports                                                  | 18 |
| 6               | Manifold rail          | VABM-...-M...     | Without port for external pilot air for valves with internal pilot air supply | 17 |
| 7               | Manifold rail          | VABM-...-W...     | With port for external pilot air                                              | 17 |

# Solenoid valves VOVG

Technical data

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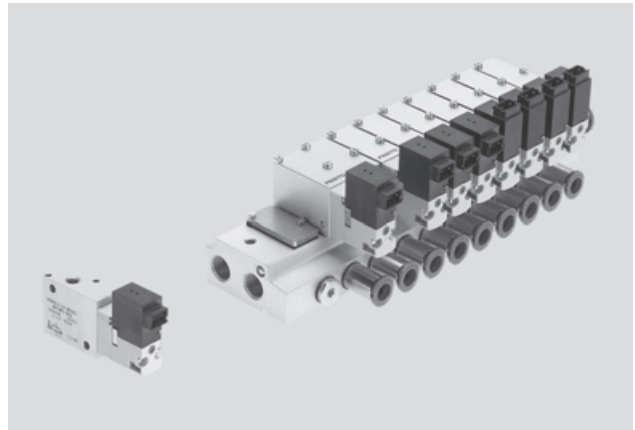
## Function



-  - Voltage  
5, 12, 24 V DC

-  - Pressure  
-0.9 ... +8 bar

-  - Temperature range  
-5 ... +50 °C



| General technical data     |                         |       |                                            |       |                |       |       |
|----------------------------|-------------------------|-------|--------------------------------------------|-------|----------------|-------|-------|
| Design                     | In-line valve           |       | Semi in-line valve                         |       | Sub-base valve |       |       |
| Valve function             | 3/2                     | 5/2   | 3/2                                        | 5/2   | 3/2            | 5/2   |       |
| Memory stability           | Single                  |       |                                            |       |                |       |       |
| Constructional design      | Piston spool            |       |                                            |       |                |       |       |
| Sealing principle          | Soft                    |       |                                            |       |                |       |       |
| Actuation type             | Electrical              |       |                                            |       |                |       |       |
| Reset method               | Pneumatic spring        |       |                                            |       |                |       |       |
| Type of control            | Piloted                 |       |                                            |       |                |       |       |
| Direction of flow          | Non-reversible          |       |                                            |       |                |       |       |
| Exhaust function           | Flow control            |       |                                            |       |                |       |       |
| Manual override            | Non-detenting/detenting |       | Non-detenting                              |       |                |       |       |
| Type of mounting           | Via through-holes       |       | On sub-base or manifold, via through-holes |       |                |       |       |
| Mounting position          | Any                     |       |                                            |       |                |       |       |
| Nominal size               | [mm]                    | 2.1   |                                            |       |                |       |       |
| Standard nominal flow rate | [l/min]                 | 200   | 180                                        | 180   |                |       |       |
| Width                      | [mm]                    | 10/12 | 25                                         | 12    | 25             | 12    | 25    |
| Switching time on/off      | [ms]                    | 12/10 | 15/18                                      | 12/10 | 15/18          | 12/10 | 15/18 |
| Pneumatic connection       | M5                      |       | Sub-base                                   |       |                |       |       |

| Operating and environmental conditions            |                                                                                                        |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Operating medium                                  | Compressed air in accordance with ISO 8573-1:2010 [7:4:4]                                              |
| Note on operating/pilot medium                    | Operation with lubricated medium possible (in which case lubricated operation will always be required) |
| Operating pressure with internal pilot air supply | 2 ... 8                                                                                                |
| Operating pressure with external pilot air supply | -0.9 ... 8                                                                                             |
| Pilot pressure <sup>1)</sup>                      | 3 ... 8                                                                                                |
| Ambient temperature                               | -5 ... +50                                                                                             |
| Temperature of medium                             | -5 ... +50                                                                                             |

1) The minimum pilot pressure (at port 12) is 4 bar with vacuum (at port 3) and ejector pulse (at port 1).



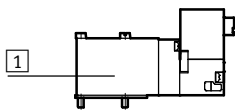
# Solenoid valves VOVG

Technical data

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| Electrical data                  |        |                            |
|----------------------------------|--------|----------------------------|
| Operating voltage                | [V DC] | 5 ±10%, 12 ±10% or 24 ±10% |
| Type of connection               |        | Plug connection            |
| Power consumption                | [W]    | 1                          |
| Duty cycle                       | [%]    | 100                        |
| Protection class to EN 60529     |        |                            |
| With plug socket with cable NEBV |        | IP40                       |

## Materials



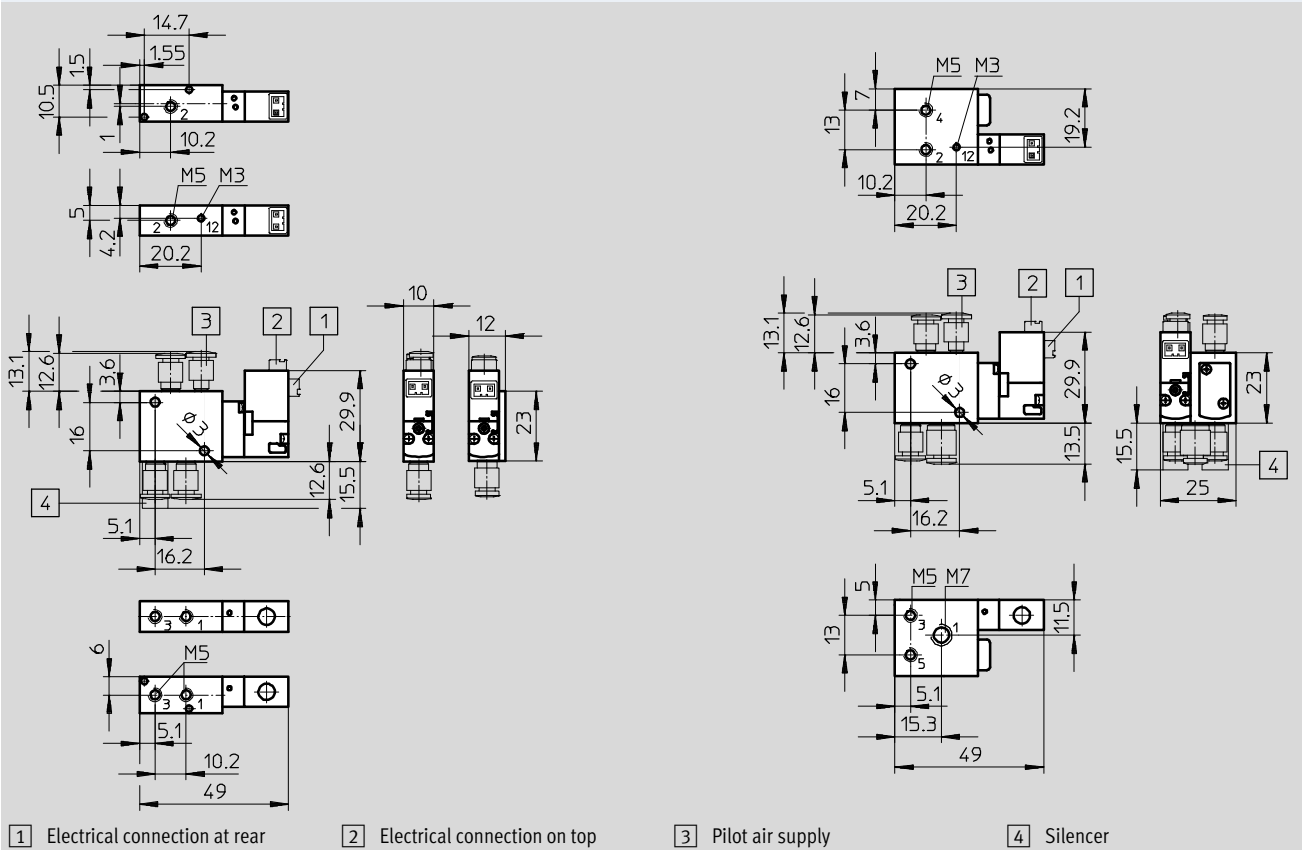
|   |                   |                |
|---|-------------------|----------------|
| 1 | Housing           | Aluminium      |
| - | Seals             | FPM, NBR, HNBR |
| - | Note on materials | RoHS-compliant |

## Dimensions – Valve

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

3/2-way in-line valve

5/2-way in-line valve



# Solenoid valves VOVG

Technical data

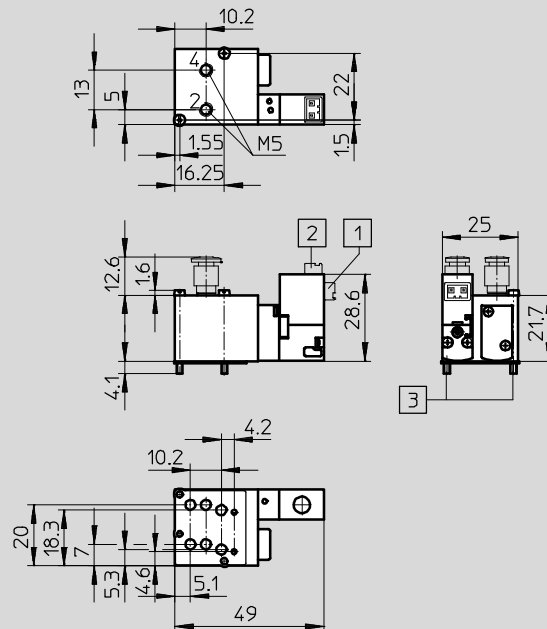
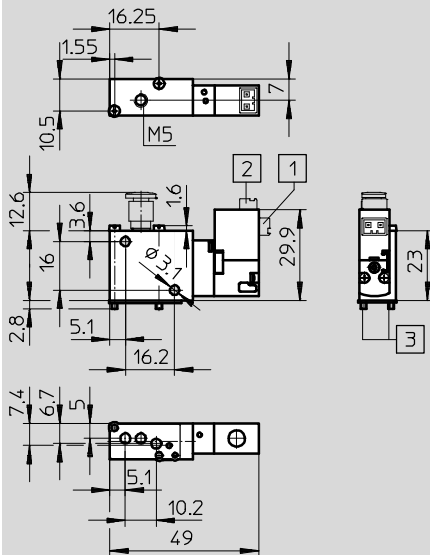
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## Dimensions – Valve

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

### 3/2-way semi in-line valve

### 5/2-way semi in-line valve



1 Electrical connection at rear

2 Electrical connection on top

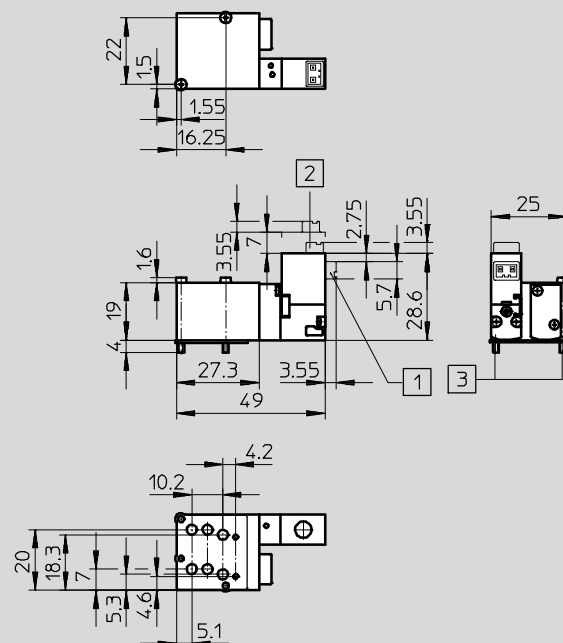
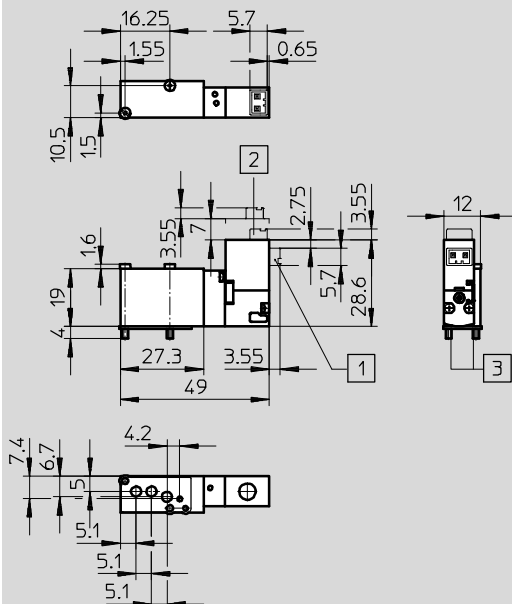
3 Mounting screws M2x25

## Dimensions – Valve

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

### 3/2-way sub-base valve

### 5/2-way sub-base valve



1 Electrical connection at rear

2 Electrical connection on top

3 Mounting screws M2x23

# Solenoid valves VOVG

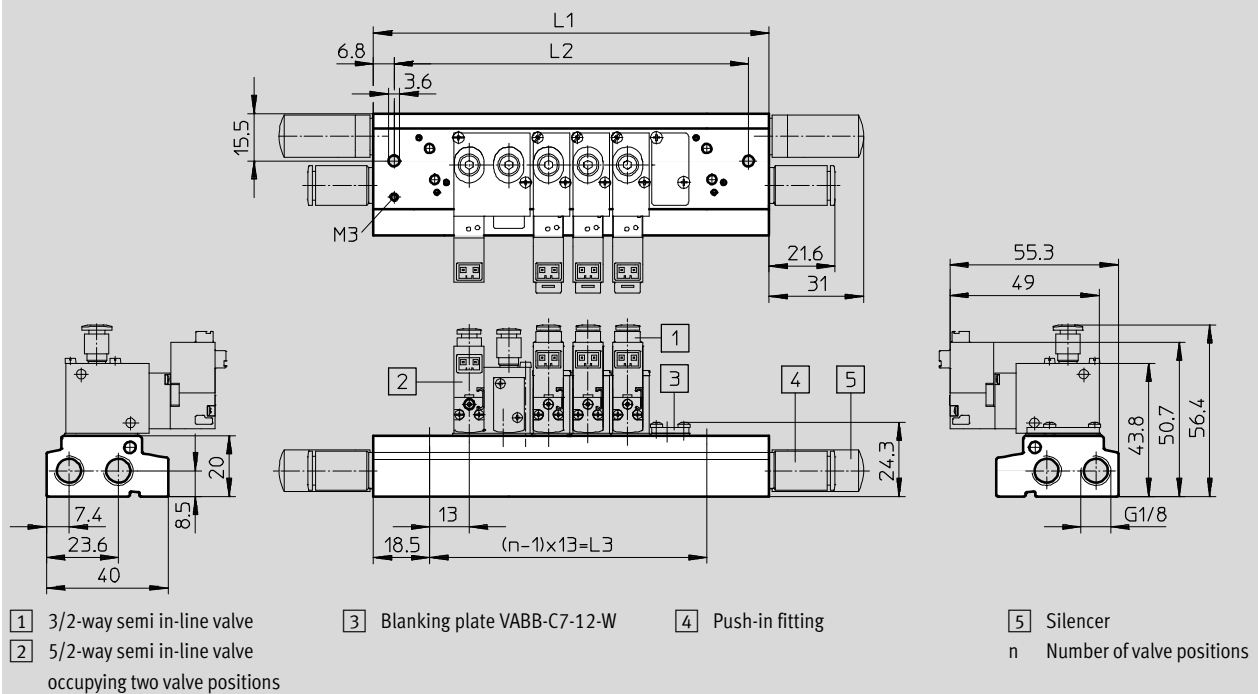
Technical data

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## Dimensions – Manifold assembly

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

### Semi in-line valve



| Number of valve positions n | L1  | L2 (-0/+0.4) | L3  |
|-----------------------------|-----|--------------|-----|
| 2                           | 52  | 38.4         | 13  |
| 3                           | 65  | 51.4         | 26  |
| 4                           | 78  | 64.4         | 39  |
| 5                           | 91  | 77.4         | 52  |
| 6                           | 104 | 90.4         | 65  |
| 7                           | 117 | 103.4        | 78  |
| 8                           | 130 | 116.4        | 91  |
| 9                           | 143 | 129.4        | 104 |
| 10                          | 156 | 142.4        | 117 |

# Solenoid valves VOVG

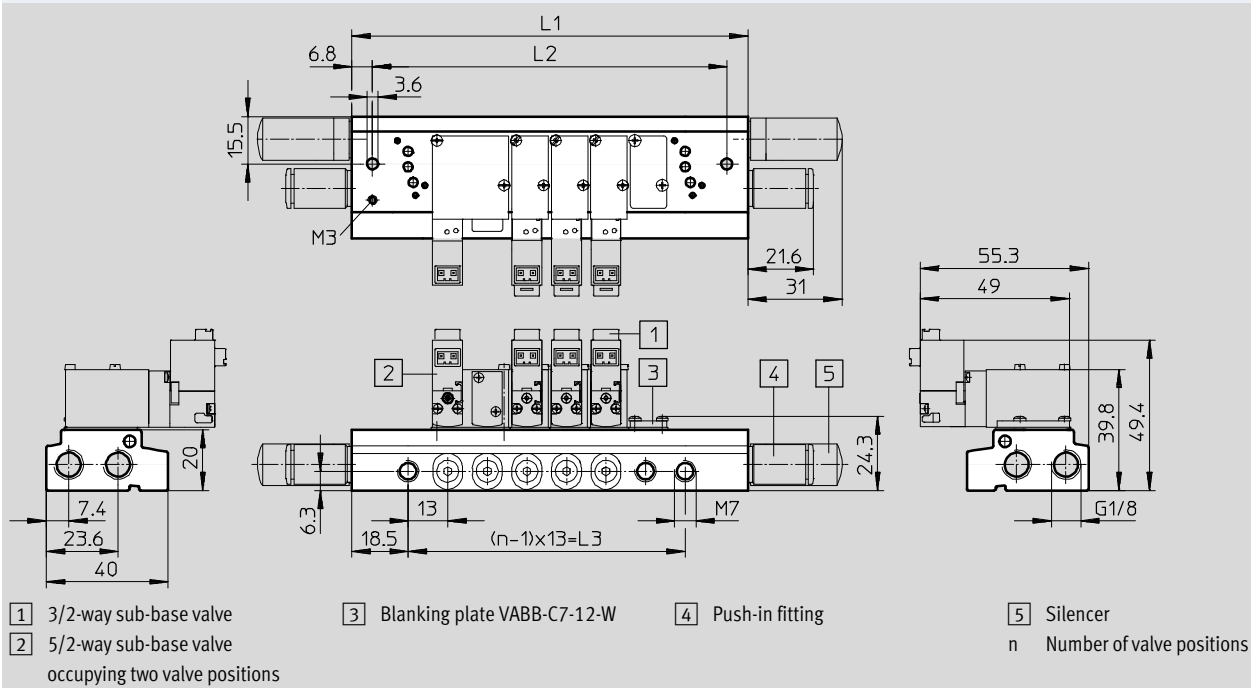
Technical data

FESTO

## Dimensions – Manifold assembly

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

### Sub-base valve

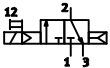
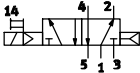
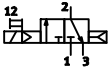
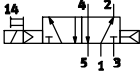
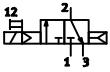
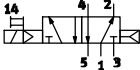


| Number of valve positions n | L1  | L2 (-0/+0.4) | L3  |
|-----------------------------|-----|--------------|-----|
| 2                           | 52  | 38.4         | 13  |
| 3                           | 65  | 51.4         | 26  |
| 4                           | 78  | 64.4         | 39  |
| 5                           | 91  | 77.4         | 52  |
| 6                           | 104 | 90.4         | 65  |
| 7                           | 117 | 103.4        | 78  |
| 8                           | 130 | 116.4        | 91  |
| 9                           | 143 | 129.4        | 104 |
| 10                          | 156 | 142.4        | 117 |

# Solenoid valves VOVG

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Ordering data

| Ordering data                                                                       |                             |                 |                |                  |                       |          |                         |
|-------------------------------------------------------------------------------------|-----------------------------|-----------------|----------------|------------------|-----------------------|----------|-------------------------|
| Circuit symbol                                                                      | Function                    | Normal position | Plug direction | Pilot air supply | Voltage <sup>1)</sup> | Part No. | Type                    |
| In-line valve                                                                       |                             |                 |                |                  |                       |          |                         |
|    | 3/2-way,<br>single solenoid | Closed          | Horizontal     | Internal         | 24 V DC               | 560 697  | VOVG-L10-M32C-AH-M5-1H2 |
|                                                                                     |                             |                 | Vertical       |                  |                       | 560 698  | VOVG-L10-M32C-AH-M5-1H3 |
|                                                                                     |                             | Open            | Horizontal     |                  |                       | 560 699  | VOVG-L10-M32U-AH-M5-1H2 |
|                                                                                     |                             |                 | Vertical       |                  |                       | 560 700  | VOVG-L10-M32U-AH-M5-1H3 |
|    | 5/2-way,<br>single solenoid | –               | Horizontal     |                  |                       | 560 701  | VOVG-L12-M52Q-AH-M5-1H2 |
|                                                                                     |                             |                 | Vertical       |                  |                       | 560 702  | VOVG-L12-M52Q-AH-M5-1H3 |
| Semi in-line valve                                                                  |                             |                 |                |                  |                       |          |                         |
|    | 3/2-way,<br>single solenoid | Closed          | Horizontal     | Internal         | 24 V DC               | 560 703  | VOVG-S12-M32C-AH-M5-1H2 |
|                                                                                     |                             |                 | Vertical       |                  |                       | 560 704  | VOVG-S12-M32C-AH-M5-1H3 |
|                                                                                     |                             | Open            | Horizontal     |                  |                       | 560 705  | VOVG-S12-M32U-AH-M5-1H2 |
|                                                                                     |                             |                 | Vertical       |                  |                       | 560 706  | VOVG-S12-M32U-AH-M5-1H3 |
|    | 5/2-way,<br>single solenoid | –               | Horizontal     |                  |                       | 560 707  | VOVG-S12-M52Q-AH-M5-1H2 |
|                                                                                     |                             |                 | Vertical       |                  |                       | 560 708  | VOVG-L12-M52Q-AH-M5-1H3 |
| Sub-base valve                                                                      |                             |                 |                |                  |                       |          |                         |
|  | 3/2-way,<br>single solenoid | Closed          | Horizontal     | Internal         | 24 V DC               | 560 709  | VOVG-B12-M32C-AH-F-1H2  |
|                                                                                     |                             |                 | Vertical       |                  |                       | 560 710  | VOVG-B12-M32C-AH-F-1H3  |
|                                                                                     |                             | Open            | Horizontal     |                  |                       | 560 711  | VOVG-B12-M32U-AH-F-1H2  |
|                                                                                     |                             |                 | Vertical       |                  |                       | 560 712  | VOVG-B12-M32U-AH-F-1H3  |
|  | 5/2-way,<br>single solenoid | –               | Horizontal     |                  |                       | 560 713  | VOVG-B12-M52Q-AH-F-1H2  |
|                                                                                     |                             |                 | Vertical       |                  |                       | 560 714  | VOVG-B12-M52Q-AH-F-1H3  |

1) See modular system for other voltages

# Solenoid valves VOVG

Ordering data – Modular products



| M Mandatory data     |       |             |          |                      |              | O Options        | → |
|----------------------|-------|-------------|----------|----------------------|--------------|------------------|---|
| Module No.           | Valve | Valve type  | Size     | Valve function       | Reset method | Pilot air supply |   |
| 549438               | VOVG  | B<br>S<br>L | 10<br>12 | M32C<br>M32U<br>M52Q | A            | –<br>Z           |   |
| <b>Order example</b> |       |             |          |                      |              |                  |   |
| 549438               | VOVG  | – S         | 12       | – M32U               | – A          |                  |   |

| Ordering table |                  |                                                   |   | Condi-<br>tions | Code  | Enter<br>code |
|----------------|------------------|---------------------------------------------------|---|-----------------|-------|---------------|
| M              | Module No.       | 549438                                            |   |                 |       |               |
|                | Valve            | Solenoid valve                                    |   |                 | VOVG  | VOVG          |
|                | Valve type       | Sub-base valve                                    |   |                 | -B    |               |
|                |                  | Semi in-line valve                                |   |                 | -S    |               |
|                |                  | In-line valve                                     |   |                 | -L    |               |
|                | Size             | 10 (200 l/min)                                    | 1 |                 | 10    |               |
|                |                  | 12 (200 l/min)                                    |   |                 | 12    |               |
|                | Valve function   | 3/2-way valve, single solenoid, normally closed   |   |                 | -M32C |               |
|                |                  | 3/2-way valve, single solenoid, normally open     |   |                 | -M32U |               |
|                |                  | 5/2-way valve, single solenoid, 2 valve positions | 8 |                 | -M52Q |               |
|                | Reset method     | Pneumatic spring                                  |   |                 | -A    | -A            |
| O              | Pilot air supply | Internal pilot air supply                         |   |                 |       |               |
| ↓              |                  | External pilot air supply                         | 9 |                 | Z     |               |

1 10, D, U Not with valve type B, S

8 Z Not in combination with size 10

9 Z Not in combination with valve type L and size 12

Transfer order code

549 438 VOVG – – – A

# Solenoid valves VOVG

Ordering data – Modular products

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| Options         |                           |          |               | Mandatory data            |                       |         |                        |
|-----------------|---------------------------|----------|---------------|---------------------------|-----------------------|---------|------------------------|
| Manual override | Pneumatic connection      | Exhaust  | Pilot exhaust | Nominal operating voltage | Electrical connection | Display | Electrical accessories |
| H<br>D          | F<br>M5<br>Q3<br>Q4<br>Q6 | –<br>U   | –             | 1<br>4<br>5               | H2<br>H3              | –<br>L  | W1, W2, W3, W4         |
| <b>H</b>        | – <b>Q3</b>               | <b>U</b> |               | – <b>4</b>                | <b>H3</b>             |         | + <b>W1</b>            |

| Ordering table |                                  |                         |     | Condi-<br>tions | Code | Enter<br>code |
|----------------|----------------------------------|-------------------------|-----|-----------------|------|---------------|
| M              | Manual override                  | Pushing                 |     |                 | H    |               |
|                |                                  | Pushing/detenting       | 1 2 |                 | D    |               |
|                | Pneumatic connection             | Flange/sub-base         | 3   |                 | -F   |               |
|                |                                  | Metric thread M5        | 4   |                 | -M5  |               |
|                |                                  | Push-in connectors 3 mm | 4   |                 | -Q3  |               |
|                |                                  | Push-in connectors 4 mm | 4   |                 | -Q4  |               |
|                |                                  | Push-in connectors 6 mm | 4   |                 | -Q6  |               |
| O              | Exhaust                          | Ducted                  |     |                 |      |               |
|                |                                  | Silencer                | 1 5 |                 | U    |               |
|                | Pilot exhaust                    | Unducted                |     |                 |      |               |
| M              | Nominal operating voltage [V DC] | 24                      |     |                 | -1   |               |
|                |                                  | 5                       |     |                 | -4   |               |
|                |                                  | 12                      |     |                 | -5   |               |
|                | Electrical connection            | Horizontal plug         |     |                 | H2   |               |
|                |                                  | Vertical plug           |     |                 | H3   |               |
| O              | Display                          | None                    |     |                 |      |               |
|                |                                  | LED signal display      | 7   |                 | L    |               |
|                | Electrical accessories           |                         |     |                 | +    | +             |
|                | Connecting cable                 | Without sheath, 0.5 m   |     |                 | W1   |               |
|                |                                  | Without sheath, 1 m     |     |                 | W2   |               |
|                |                                  | Without sheath, 2.5 m   |     |                 | W3   |               |
|                |                                  | Without sheath, 5 m     |     |                 | W4   |               |

- 1 10, D, U Not with valve type B, S  
 2 D Not with nominal operating voltage 5 V DC, 12 V DC  
 3 F Not with valve type L, S

- 4 M5, Q3, Q4, Q6 Not with valve type B  
 5 U Not with pneumatic connection F, M5  
 7 L Not with nominal operating voltage 5 V DC, 12 V DC

## Transfer order code

|  |   |  |  |  |   |  |  |  |   |  |
|--|---|--|--|--|---|--|--|--|---|--|
|  | – |  |  |  | – |  |  |  | + |  |
|--|---|--|--|--|---|--|--|--|---|--|

# Solenoid valves VOVG

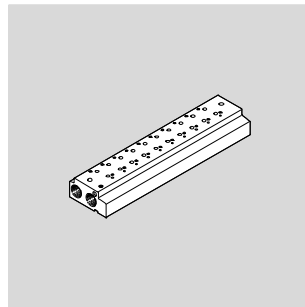
Technical data – Manifold rail

FESTO

## Manifold rail VABM-C7 for semi in-line valves

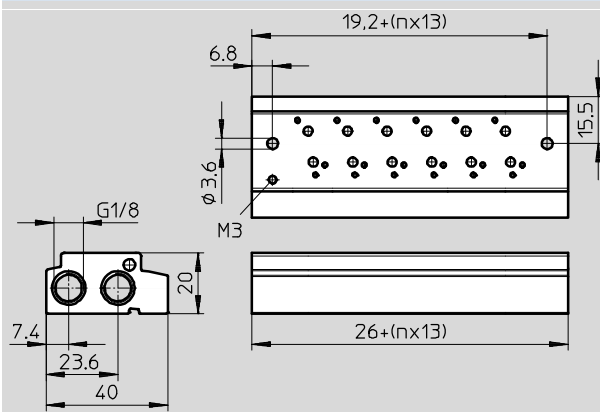
Material:  
Wrought aluminium alloy

Note on materials  
RoHS-compliant



### Dimensions – Manifold rails for semi in-line valves

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



n Number of valve positions

### Ordering data – Manifold rails for semi in-line valves

| Valve positions n                  | Weight<br>[g] | CRC             | Part No. | Type               |
|------------------------------------|---------------|-----------------|----------|--------------------|
| For valves with internal pilot air |               |                 |          |                    |
| 2                                  | 84            | 2 <sup>1)</sup> | 552652   | VABM-C7-12P-G18-2  |
| 3                                  | 105           |                 | 552653   | VABM-C7-12P-G18-3  |
| 4                                  | 126           |                 | 552654   | VABM-C7-12P-G18-4  |
| 5                                  | 147           |                 | 552655   | VABM-C7-12P-G18-5  |
| 6                                  | 168           |                 | 552656   | VABM-C7-12P-G18-6  |
| 7                                  | 189           |                 | 552657   | VABM-C7-12P-G18-7  |
| 8                                  | 210           |                 | 552658   | VABM-C7-12P-G18-8  |
| 9                                  | 231           |                 | 552659   | VABM-C7-12P-G18-9  |
| 10                                 | 252           |                 | 552660   | VABM-C7-12P-G18-10 |
|                                    |               |                 |          |                    |
| For valves with external pilot air |               |                 |          |                    |
| 2                                  | 84            | 2 <sup>1)</sup> | 552661   | VABM-C7-12G-G18-2  |
| 3                                  | 105           |                 | 552662   | VABM-C7-12G-G18-3  |
| 4                                  | 126           |                 | 552663   | VABM-C7-12G-G18-4  |
| 5                                  | 147           |                 | 552664   | VABM-C7-12G-G18-5  |
| 6                                  | 168           |                 | 552665   | VABM-C7-12G-G18-6  |
| 7                                  | 189           |                 | 552666   | VABM-C7-12G-G18-7  |
| 8                                  | 210           |                 | 552667   | VABM-C7-12G-G18-8  |
| 9                                  | 231           |                 | 552668   | VABM-C7-12G-G18-9  |
| 10                                 | 252           |                 | 552669   | VABM-C7-12G-G18-10 |

1) Corrosion resistance class 2 as per Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.



# Solenoid valves VOVG

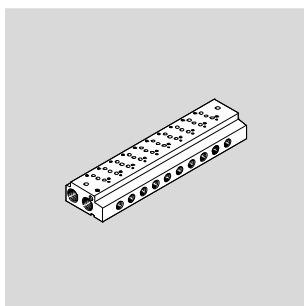
Technical data – Manifold rail

FESTO

## Manifold rail VABM-C7 for sub-base valves

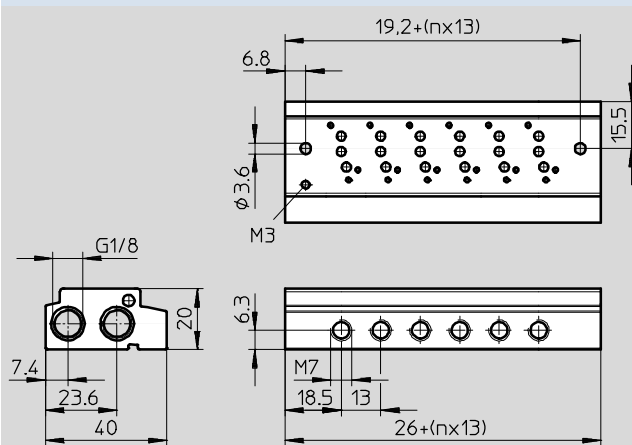
Material:  
Wrought aluminium alloy

Note on materials  
RoHS-compliant



## Dimensions – Manifold rails for sub-base valves

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



n Number of valve positions

## Ordering data – Manifold rails for sub-base valves

| Ordering data                      | Mainten. data for sub. base valves |                 |          |                    |
|------------------------------------|------------------------------------|-----------------|----------|--------------------|
| Valve positions                    | Weight<br>[g]                      | CRC             | Part No. | Type               |
| For valves with internal pilot air |                                    |                 |          |                    |
| 2                                  | 82                                 | 2 <sup>1)</sup> | 549639   | VABM-C7-12M-G18-2  |
| 3                                  | 102                                |                 | 549640   | VABM-C7-12M-G18-3  |
| 4                                  | 122                                |                 | 549641   | VABM-C7-12M-G18-4  |
| 5                                  | 142                                |                 | 549642   | VABM-C7-12M-G18-5  |
| 6                                  | 162                                |                 | 549643   | VABM-C7-12M-G18-6  |
| 7                                  | 182                                |                 | 549644   | VABM-C7-12M-G18-7  |
| 8                                  | 202                                |                 | 549645   | VABM-C7-12M-G18-8  |
| 9                                  | 222                                |                 | 549646   | VABM-C7-12M-G18-9  |
| 10                                 | 242                                |                 | 549647   | VABM-C7-12M-G18-10 |
| For valves with external pilot air |                                    |                 |          |                    |
| 2                                  | 82                                 | 2 <sup>1)</sup> | 549648   | VABM-C7-12W-G18-2  |
| 3                                  | 102                                |                 | 549649   | VABM-C7-12W-G18-3  |
| 4                                  | 122                                |                 | 549650   | VABM-C7-12W-G18-4  |
| 5                                  | 142                                |                 | 549651   | VABM-C7-12W-G18-5  |
| 6                                  | 162                                |                 | 549652   | VABM-C7-12W-G18-6  |
| 7                                  | 182                                |                 | 549653   | VABM-C7-12W-G18-7  |
| 8                                  | 202                                |                 | 549654   | VABM-C7-12W-G18-8  |
| 9                                  | 222                                |                 | 549655   | VABM-C7-12W-G18-9  |
| 10                                 | 242                                |                 | 549656   | VABM-C7-12W-G18-10 |

1) Corrosion resistance class 2 as per Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

# Solenoid valves VOVG

Accessories

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## Blanking plate VABB-C7

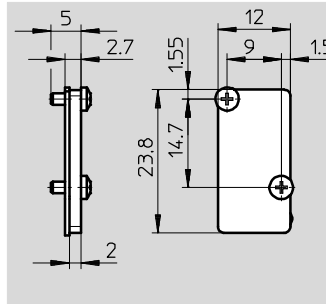
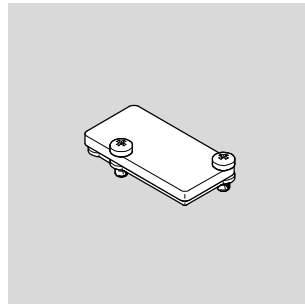
Material:

Blanking plate: Steel

Seal: NBR

Note on materials

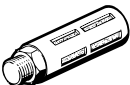
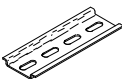
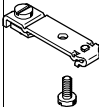
RoHS-compliant



| Ordering data                       |               |                 |          |              |
|-------------------------------------|---------------|-----------------|----------|--------------|
|                                     | Weight<br>[g] | CRC             | Part No. | Type         |
| Blanking plate for vacant positions | 6             | 2 <sup>1)</sup> | 552651   | VABB-C7-12-W |

1) Corrosion resistance class 2 as per Festo standard 940 070

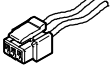
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

| Ordering data – Accessories                                                                                                                                                |                                        |                  |          |               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------|----------|---------------|
| Designation                                                                                                                                                                |                                        |                  | Part No. | Type          |
| Silencer                                                                                                                                                                   |                                        |                  |          |               |
|                                                                                         | Connecting thread G1/8                 | Polymer version  | 2307     | U-1/8         |
|                                                                                                                                                                            |                                        | Metal version    | 6841     | U-1/8-B       |
| Blanking plug                                                                                                                                                              |                                        |                  |          |               |
|                                                                                         | Thread G1/8                            | 10 pieces        | 3568     | B-1/8         |
| Push-in fitting                                                                                                                                                            |                                        |                  |          |               |
| <br> | Connecting thread G1/8 for tubing O.D. | 6 mm (10 pieces) | 153002   | QS-1/8-6      |
|                                                                                                                                                                            |                                        | 8 mm (10 pieces) | 153004   | QS-1/8-8      |
|                                                                                                                                                                            | Connecting thread M3 for tubing O.D.   | 3 mm (10 pieces) | 153312   | QSM-M3-3-I    |
|                                                                                                                                                                            | Connecting thread M5 for tubing O.D.   | 3 mm (10 pieces) | 153313   | QSM-M5-3-I    |
|                                                                                                                                                                            |                                        | 4 mm (10 pieces) | 153315   | QSM-M5-4-I    |
|                                                                                                                                                                            |                                        | 6 mm (10 pieces) | 153317   | QSM-M5-6-I    |
|                                                                                                                                                                            | Connecting thread M7 for tubing O.D.   | 4 mm (10 pieces) | 153319   | QSM-M7-4-I    |
|                                                                                                                                                                            |                                        | 6 mm (10 pieces) | 153321   | QSM-M7-6-I    |
| H-rail                                                                                                                                                                     |                                        |                  |          |               |
|                                                                                         |                                        |                  | 35430    | NRH-35-2000   |
| Mounting                                                                                                                                                                   |                                        |                  |          |               |
|                                                                                         | For H-rail                             |                  | 527392   | CPASC1-BG-NRH |

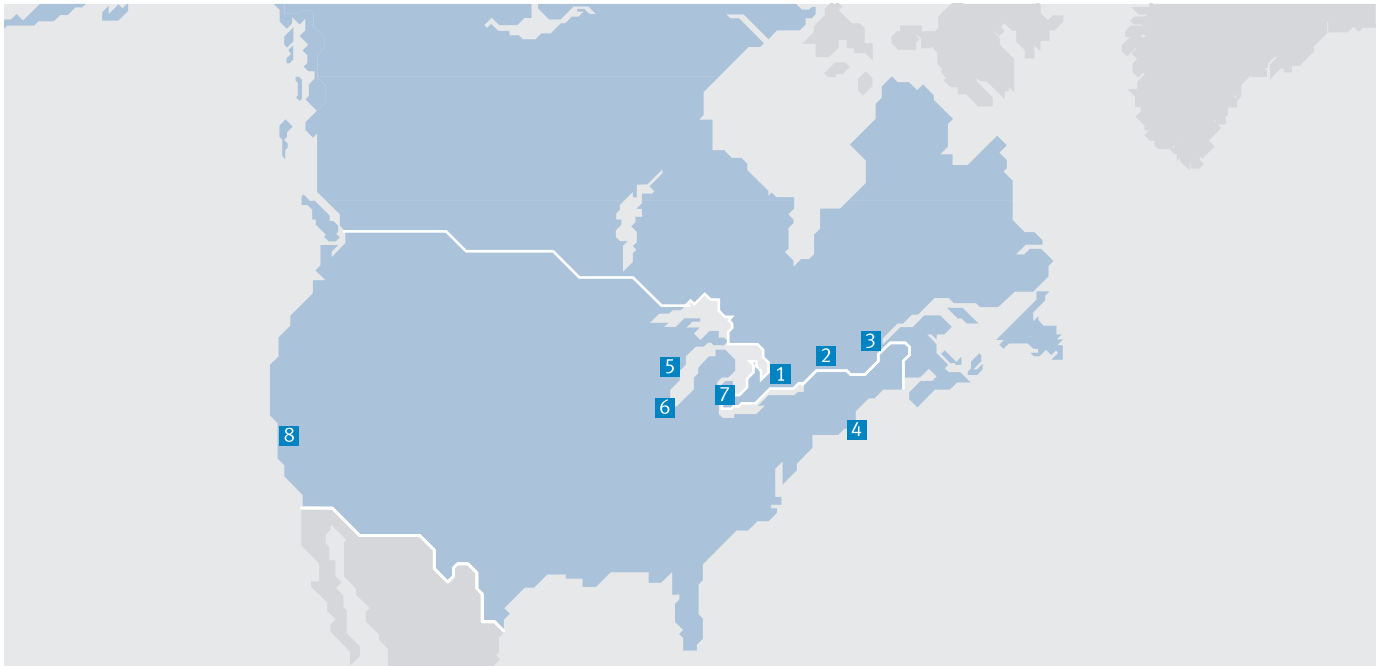
# Solenoid valves VOVG

Accessories

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| Ordering data – Accessories                                                       |                                     |           |               |                               |
|-----------------------------------------------------------------------------------|-------------------------------------|-----------|---------------|-------------------------------|
| Designation                                                                       |                                     |           | Part No.      | Type                          |
| Inscription label                                                                 |                                     |           |               |                               |
|  | For identifying the valve positions | 80 pieces | <b>197259</b> | <b>MH-BZ-80X</b>              |
| Plug socket with cable                                                            |                                     |           |               |                               |
|  | For 1 coil, 2-wire                  | 0.5 m     | <b>566654</b> | <b>NEBV-H1G2-KN-0.5-N-LE2</b> |
|                                                                                   |                                     | 1 m       | <b>566655</b> | <b>NEBV-H1G2-KN-1-N-LE2</b>   |
|                                                                                   |                                     | 2.5 m     | <b>566656</b> | <b>NEBV-H1G2-KN-2.5-N-LE2</b> |
|                                                                                   |                                     | 5 m       | <b>566657</b> | <b>NEBV-H1G2-KN-5-N-LE2</b>   |

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