Product range overview

| Function | Electrical connection | | Voltage | Manual override | → Page/Internet |
|-------------|-----------------------|-----------------------|-----------------|-------------------------|-----------------|
| Pilot valve | Plug | | | | |
| to | Square plug, type C, | - | 12 V DC | Non-detenting | 2 |
| ISO 15218 | to EN 175301-803 | | | Non-detenting/detenting | 2 |
| | | | 24 V DC | Non-detenting | 2 |
| | | | | Non-detenting/detenting | 2 |
| | | | 24 V AC | Non-detenting | 2 |
| | | | | Non-detenting/detenting | 2 |
| | | With protective earth | 24 V DC | Non-detenting/detenting | 4 |
| | | conductor | 12 V DC/24 V AC | Non-detenting/detenting | 4 |
| | | | 110 V AC | Non-detenting | 4 |
| | | | | Non-detenting/detenting | 4 |
| | | | | Non-detenting/detenting | 4 |
| | | | 230 V AC | Non-detenting | 4 |
| | | | | Non-detenting/detenting | 4 |
| | | | | Non-detenting/detenting | 4 |
| | Round plug M12, | - | 24 V DC | Non-detenting | 6 |
| | to IEC 61076-2-101 | | | Non-detenting/detenting | 6 |
| | Square plug, type A, | - | 24 V DC | Non-detenting/detenting | 8 |
| | to EN 175301-803 | | | - | 8 |
| | | | 24 V DC/42 V AC | Non-detenting | 8 |
| | | | 24 V DC/48 V AC | Non-detenting | 8 |
| | | | 110 V AC | Non-detenting | 8 |
| | | | | Non-detenting/detenting | 8 |
| | | | 230 V AC | Non-detenting | 8 |
| | | | | tastend/rastend | 8 |

Technical data – Valve with square plug, type C

Piloted standard valve with square plug VSCS-B-M32-MD-WA-1C1 VSCS-B-M32-MH-WA-1C1 VSCS-B-M32-...-1AC1 VSCS-B-M32-...-5C1

- Valve actuator for electrically actuating basic valve bodies
- Pneumatic connection: to ISO 15218 (CNOMO)
- Electrical connection: to EN 175301-803, type C



General technical data Square plug, type C (without protective earth conductor), to EN 175301-803 Electrical connection Valve function 3/2-way valve, closed, single solenoid Sealing principle Soft Actuation type Electric Reset method Mechanical spring Type of control Direct Direction of flow Non-reversible Non-overlapping No Width [mm] 15 Mounting position Any On basic valve body or sub-base via screws (2x M3) Mounting Standard nominal flow rate [l/min] 18 Duty cycle [%] 100 Operating pressure [bar] 0 ... 10 Protection class to EN 60529 IP65 (in combination with plug socket) Conforms to standard ISO 15218

| Coil characteristics | | 1 | | |
|----------------------------|--------|---------|---------|----------|
| Туре | | VSCS5C1 | VSCS1C1 | VSCS1AC1 |
| Operating voltage | [V AC] | - | - | 24 |
| | [V DC] | 12 | 24 | - |
| | [Hz] | - | - | 50/60 |
| Power | [W] | 1.8 | 1.8 | - |
| Pick-up power | [VA] | - | - | 3.1 |
| Holding power | [VA] | - | - | 2.3 |
| Switching time on/off | [ms] | 6/6 | 6/6 | 6/6 |
| Perm. voltage fluctuations | [%] | -15/+10 | -15/+10 | -15/+10 |

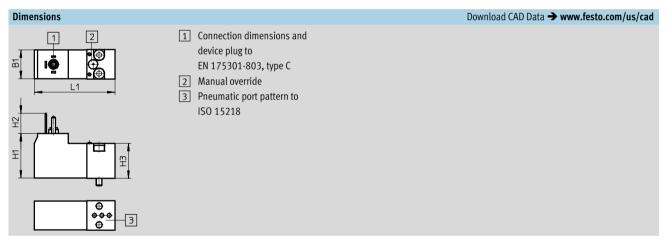
| Materials | |
|-------------------|----------------|
| Seals | NBR |
| Note on materials | RoHS-compliant |

Technical data – Valve with square plug, type C

| Operating and environmental co | Operating and environmental conditions | | | |
|--|--|--|--|--|
| Operating medium | | Compressed air to ISO 8573-1:2010 [7:4:4] | | |
| Note on operating/pilot medium | | Lubricated operation possible (required during subsequent operation) | | |
| Ambient temperature | [°C] | -10 +50 | | |
| Temperature of medium | [°C] | -10 +50 | | |
| Corrosion resistance class CRC ¹⁾ | | 2 | | |

1) Corrosion resistance class 2 according to 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.

| Valve functions | |
|-----------------|---|
| Circuit symbol | Description |
| | 3/2-way valve, single solenoidNormally closedMechanical spring return |



| Туре | B1 | H1 | H2 | H3 | L1 |
|--------|------|------|------|------|------|
| VSCSC1 | 15.2 | 23.2 | 10.5 | 18.2 | 41.9 |

| Ordering data | | | | | |
|---|--------------------------|---------|-------------------------|----------|-----------------------|
| Pilot valve to ISO | Pilot valve to ISO 15218 | | Manual override | Part No. | Туре |
| 6 ¶ | Square plug, type C, | 12 V DC | Non-detenting | 546257 | VSCS-B-M32-MH-WA-5C1 |
| (9) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1 | to EN 175301-803 | | Non-detenting/detenting | 571062 | VSCS-B-M32-MD-WA-5C1 |
| | | 24 V DC | Non-detenting | 546256 | VSCS-B-M32-MH-WA-1C1 |
| | | | Non-detenting/detenting | 571061 | VSCS-B-M32-MD-WA-1C1 |
| | | 24 V AC | Non-detenting | 546258 | VSCS-B-M32-MH-WA-1AC1 |
| | | | Non-detenting/detenting | 571063 | VSCS-B-M32-MD-WA-1AC1 |

Technical data – Valve with square plug, type C

Piloted standard valve with square plug VSCS-B-M32-...-2AC1 VSCS-B-M32-...-3AC1

- Valve actuator for electrically actuating basic valve bodies
- Pneumatic connection: to ISO 15218 (CNOMO)
- Electrical connection: to EN 175301-803, type C
- With protective earth conductor



| General technical data | | |
|------------------------------|---------|---|
| Electrical connection | | Square plug, type C (with protective earth conductor), to EN 175301-803 |
| Valve function | | 3/2-way valve, closed, single solenoid |
| Sealing principle | | Soft |
| Actuation type | | Electric |
| Reset method | | Mechanical spring |
| Type of control | | Direct |
| Direction of flow | | Non-reversible |
| Non-overlapping | | No |
| Width | [mm] | 15 |
| Mounting position | | Any |
| Mounting | | On basic valve body or sub-base via screws (2x M3) |
| Standard nominal flow rate | [l/min] | 18 |
| Duty cycle | [%] | 100 |
| Operating pressure | [bar] | 010 |
| Protection class to EN 60529 | | IP65 (in combination with plug socket) |
| Conforms to standard | | ISO 15218 |

Coil characteristics

| contenaracteristics | | | |
|----------------------------|--------|---------|---------|
| Туре | | MH 2AC1 | MH 3AC1 |
| | | MD 2AC1 | MD 3AC1 |
| Operating voltage | [V AC] | 110 | 230 |
| | [V DC] | - | - |
| | [Hz] | 50/60 | 50/60 |
| Power | [W] | - | - |
| Pick-up power | [VA] | 2.9 | 2.9 |
| Holding power | [VA] | 2.1 | 2.1 |
| Switching time on/off | [ms] | 6/6 | 6/6 |
| Perm. voltage fluctuations | [%] | -15/+10 | -15/+10 |

| Materials | |
|-------------------|----------------|
| Seals | NBR |
| Note on materials | RoHS-compliant |

Technical data – Valve with square plug, type C

| Operating and environmental conditions | | |
|--|-----------|--|
| Operating medium | | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Note on operating/pilot medium | | Lubricated operation possible (required during subsequent operation) |
| Ambient temperature | [°C] | -10 +50 |
| Temperature of medium | [°C] | -10 +50 |
| Corrosion resistance class CRC ¹⁾ | | 2 |
| Degree of contamination | | - |
| CE marking (see declaration of co | nformity) | In accordance with EU Low Voltage Directive |

1) Corrosion resistance class 2 according to 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.

| Valve functions | |
|-----------------|---|
| Circuit symbol | Description |
| | 3/2-way valve, single solenoidNormally closedMechanical spring return |

| Dimensions | | | | Download CAD Data 🗲 | www.festo.com/us/cad |
|--------------|--|-----------|------|---------------------|----------------------|
| VSCS-B-M32C1 | | | | | |
| | Connection dim device plug to EN 175301-803 Manual override Pneumatic port ISO 15218 | 3, type C | | | |
| | D1 | Ц1 | Ца | Ца | 14 |
| Туре | B1 | H1 | H2 | H3 | L1 |
| VSCS-B-M32C1 | 15.2 | 23.2 | 10.5 | 18.2 | 41.9 |

| Ordering data | | | | | | |
|--------------------|---|-------------------|-------------------------|----------|-----------------------|--|
| Pilot valve to ISO | 15218 | Operating voltage | Manual override | Part No. | Туре | |
| (1997) (1997) | Square plug, type C, | | Non-detenting | 546259 | VSCS-B-M32-MH-WA-2AC1 | |
| 9 | to EN 175301-803, with protective earth conductor | | Non-detenting/detenting | 571064 | VSCS-B-M32-MD-WA-2AC1 | |
| | | 230 V AC | Non-detenting | 546260 | VSCS-B-M32-MH-WA-3AC1 | |
| | | | Non-detenting/detenting | 571065 | VSCS-B-M32-MD-WA-3AC1 | |

Technical data – Valve with round plug, M12 $\,$

Piloted standard valve with round plug VSCS-B-M32 ... R3

- Valve actuator for electrically actuating basic valve bodies
- Pneumatic connection: to ISO 15218 (CNOMO)
 Electrical connection:
 - to IEC 61076-2-101/M12x1



| General technical data | | |
|------------------------------|---------|--|
| Electrical connection | | Round plug, M12x1, to IEC 61076-2-101 |
| Valve function | | 3/2-way valve, closed, single solenoid |
| Sealing principle | | Soft |
| Actuation type | | Electric |
| Reset method | | Mechanical spring |
| Type of control | | Direct |
| Direction of flow | | Non-reversible |
| Non-overlapping | | No |
| Width | [mm] | 15 |
| Mounting position | | Any |
| Mounting | | On basic valve body or sub-base via screws (2x M3) |
| Standard nominal flow rate | [l/min] | 18 |
| Duty cycle | [%] | 100 |
| Operating pressure | [bar] | 0 10 |
| Protection class to EN 60529 | | IP65 (in combination with plug socket) |
| Conforms to standard | | ISO 15218 |

| Operating voltage | [V DC] | 24 |
|----------------------------|--------|---------|
| Power | [W] | 1.8 |
| Switching time on/off | [ms] | 6/6 |
| Perm. voltage fluctuations | [%] | -15/+10 |

Materials

| Seals | NBR | | |
|-------------------|----------------|--|--|
| Note on materials | RoHS-compliant | | |
| | | | |

Technical data – Valve with round plug, M12

| Operating and environmental c | onditions | |
|---|-----------|--|
| Operating medium | | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Note on operating/pilot medium | | Lubricated operation possible (required during subsequent operation) |
| Ambient temperature [°C] | | -10 +50 |
| Temperature of medium | [°C] | -10 +50 |
| Corrosion resistance class CRC ¹ |) | 2 |

1) Corrosion resistance class 2 according to 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.

| Pin allocation | | |
|----------------|-----|-------------|
| M12x1, 2-pin | Pin | Description |
| | 3 | 0 V |
| | 4 | UB |
| | | |

| Valve functions | |
|-----------------|---|
| Circuit symbol | Description |
| | 3/2-way valve, single solenoidNormally closedMechanical spring return |

| Dimensions | | | | D | ownload CAD Data 🗲 🛚 | ww.festo.com/us/cad |
|------------|------------------|--|----|----|----------------------|---------------------|
| | 1 2 3 3 | device plug, M12 plug Manual override | | | | |
| | | | | | | |
| | | | | | | |
| Туре | B1 | D1 | H1 | H2 | H3 | L1 |

| Ordering data | | | | | | |
|--------------------|---------------------------------------|-------------------|-------------------------|----------|----------------------|--|
| Pilot valve to ISO | 15218 | Operating voltage | Manual override | Part No. | Туре | |
| | Round plug M12, to IEC 61076-2-101 | 24 V DC | Non-detenting | 573214 | VSCS-B-M32-MH-WA-1R3 | |
| | | | Non-detenting/detenting | 573215 | VSCS-B-M32-MD-WA-1R3 | |

26.1

FESTO

VSCS-...R3

15.2

M12

10.6

18.2

41.9

Technical data – Valve with square plug, type A

Pilot standard valve with square plug MDH-3/2 ... MD-3/2-24DC-PI-IA-EX

- Valve actuator for electrical actuation of basic valve bodies
- Pneumatic connection: to ISO 15218 (CNOMO)
 Electrical connection: to
- EN 175301-803, type A



| General technical data | | | | | | | |
|------------------------------|------------------------------|-----------------------------|--|-------|--|--|--|
| Туре | | MDH | MDH PI | MD EX | | | |
| Electrical connection | | Square plug, type A, to EN | Square plug, type A, to EN 175301-803 | | | | |
| Valve function | | 3/2-way valve, single solen | oid, closed | | | | |
| Sealing principle | | Soft-sealing | - | | | | |
| Actuation type | | Electric | | | | | |
| Reset method | | Mechanical spring | | | | | |
| Design | | Poppet valve | | | | | |
| Type of control | | Direct | | | | | |
| Direction of flow | | Non-reversible | Non-reversible | | | | |
| Non-overlapping | | No | | | | | |
| Switching position display | | No | | | | | |
| Width [mm] | | 30 | | | | | |
| Mounting position | | Any | | | | | |
| Mounting | | Screwed to basic valve bod | y or connecting plate | | | | |
| Manual override | | Non-detenting | Detenting, non-detenting | - | | | |
| Standard nominal flow rate | [l/min] | 50 | 20 | 13 | | | |
| Duty cycle | [%] | 100 | | | | | |
| Operating pressure | [bar] | 1 16 | 0.5 10 | 1 8 | | | |
| Protection class to EN 60529 | Protection class to EN 60529 | | IP65 (in combination with plug socket) | | | | |
| | | - | NEMA 4 (not Part No. 546021) | - | | | |
| Conforms to standard | | ISO 15218 | 15218 | | | | |
| Weight | [g] | 140 | | | | | |

Technical data – Valve with square plug, type C

| Coil characteristics | | | | | |
|------------------------------|--------|---------------------|--------------|----------------|----------------|
| Туре | | MDH-3/2-24VDC/42VAC | MDH-3/2-24DC | MDH-3/2-110VAC | MDH-3/2-230VAC |
| Operating voltage [V AC] | | 42 | 48 | 110 | 230 |
| | [V DC] | 24 | 24 | - | - |
| | [Hz] | 50/60 | 50/60 | 50/60 | 50/60 |
| Power | [W] | 8.4 | 6 | - | - |
| Pick-up power | [VA] | 11.5 | 14.5 | 12 | 12 |
| Holding power | [VA] | 8.5 | 9.9 | 8 | 8 |
| Switching time on/off | [ms] | 11/9 | 11/9 | 11/9 | 11/9 |
| Perm. voltage fluctuations | [%] | -10/+10 | -10/+10 | -10/+10 | -10/+10 |
| Perm. frequency fluctuations | [%] | -10/+10 | - | -10/+10 | -10/+10 |

| Coil characteristics | | | | |
|------------------------------|--------|-----------------|------------------|------------------|
| Туре | | MDH-3/2-24DC-PI | MDH-3/2-110AC-PI | MDH-3/2-230AC-PI |
| Operating voltage [V AC] | | - | 110 | 230 |
| | [V DC] | 24 | - | - |
| | [Hz] | - | 50/60 | 50/60 |
| Power | [W] | 2.1 | - | - |
| Pick-up power | [VA] | - | 6.6 | 6.6 |
| Holding power | [VA] | - | 4 | 4 |
| Switching time on/off | [ms] | 12/8 | 12/8 | 12/8 |
| Perm. voltage fluctuations | [%] | -15/+10 | -15/+10 | -15/+10 |
| Perm. frequency fluctuations | [%] | - | -10/+10 | -10/+10 |

| Coil characteristics | | | | | | |
|------------------------------|--------|----------------------|--|--|--|--|
| Туре | | MD-3/2-24DC-PI-IA-EX | | | | |
| Operating voltage | [V DC] | 24 | | | | |
| Switching time on/off | [ms] | 9/50 | | | | |
| Required current consumption | [mA] | 27 | | | | |
| Max. input power Pi | [W] | 1.6 | | | | |
| Max. input voltage Ui | [V] | 28 | | | | |
| Max. input current li | [mA] | 115 | | | | |
| Pneumatic connection 3 | | Ducted, M5 | | | | |

| ATEX | | |
|---|---|--|
| Туре | MD-3/2-24DC-PI-IA-EX | |
| ATEX category for gas | II 2G | |
| Explosion ignition protection type for gas | Ex ia IIC T6 X | |
| ATEX category for dust | II 2D | |
| Explosion ignition protection type for dust | Ex tD A21 IP65 T80°C X | |
| Explosion-proof temperature [°C] | -20 <= Ta <= +50 | |
| ATEX certification | PTB 09 ATEX 2043 | |
| CE marking (see declaration of conformity) | To EU Explosion Protection Directive (ATEX) | |



Technical data – Valve with square plug, type C

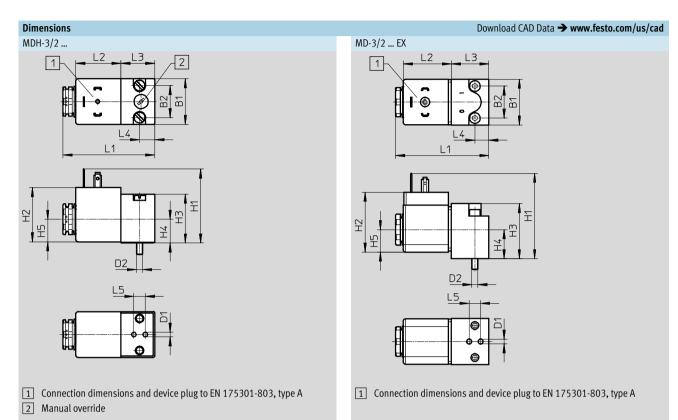
| Operating and environmental conditions | | | | | | | | | |
|--|--|---|-------------------|-----------------|----------------------------|--|--|--|--|
| Туре | MDH-3/2-24DC | MDH-3/2-110VAC | | MDH-3/2-24DC-PI | MD-3/2-24DC-PI-IA-EX | | | | |
| | MDH-3/2-24VDC/42VAC | MDH-3/2-230VAC | MDH-3/2-230AC-PI | | | | | | |
| Operating medium | Compressed air according to | Compressed air according to ISO 8573-1:2010 [7:4:4] | | | | | | | |
| Note on operating/pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) | | | | | | | | |
| Ambient temperature [°C] | -10 +50 | -15 +50 | -20 +60 | -20 +60 | - | | | | |
| Temperature of medium [°C] | -15 +80 | -15 +80 | -20 +60 | -20 +60 | -20 +70 | | | | |
| Corrosion resistance class CRC ¹⁾ | 1) 2 | | | | | | | | |
| CE marking | - | To EU Low Voltage | To EU Low Voltage | - | To EU Explosion Protection | | | | |
| (see declaration of conformity) | | Directive | Directive | | Directive (ATEX) | | | | |

Corrosion resistance class 2 according to 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.

| Materials | | | |
|-------------------|----------------|--------|-----------|
| Туре | MDH | MDH PI | MD EX |
| Seals | FPM | HNBR | HNBR, VMQ |
| Note on materials | RoHS-compliant | | |

| Valve functions | | | | |
|-----------------|--------------------------------------|--|--|--|
| Circuit symbol | Description | | | |
| 2 | MDH-3/2 | | | |
| | 3/2-way valve, single solenoid | | | |
| | Normally closed | | | |
| 1 3 | Mechanical spring return | | | |
| 2 | MD-3/2 EX | | | |
| 12 | 3/2-way valve, single solenoid, ATEX | | | |
| | Normally closed | | | |
| 1 3 | Mechanical spring return | | | |

Technical data – Valve with square plug, type C



| Туре | B1 | B2 | D1 | D2 | H1 | H2 | H3 | H4 | H5 | L1 | L2 | L3 | L4 | L5 |
|------------|-------|-------|-------|----|------|------|------|------|------|------|------|------|-----|-----|
| | +0.15 | +0.15 | +0.25 | | | +0.2 | +0.4 | | ±0.2 | | +0.3 | | | |
| | -0.5 | -0.5 | -0.2 | | | -0.4 | -0.1 | | | | | | | |
| MDH-3/2 PI | 30 | 21 | 3 | M4 | 48.4 | 35.5 | 32 | 15.5 | 14.7 | 60.2 | 29.5 | 22 | 10 | 7.5 |
| MDH-3/2 | | | | | | | | | | 60.7 | | | | |
| | | | | | | | | | | +1.0 | | | | |
| | | | | | | | | | | -0.5 | | | | |
| MD-3/2 EX | 30 | 21 | 2.9 | M4 | 55.9 | 39.2 | 36 | 19 | 14.7 | 61 | 31.5 | 24.5 | 9.2 | 7.5 |

| Ordering data | | | | | |
|----------------------|--------------------------|-----------------|-----------------------------------|--------|----------------------|
| Pilot valve to ISO | Pilot valve to ISO 15218 | | Operating voltage Manual override | | Туре |
| Square plug, type A, | | 24 V DC | Non-detenting/detenting | 546019 | MDH-3/2-24DC-PI |
| | to EN 175301-803 | 24 V DC/42 V AC | Non-detenting | 119603 | MDH-3/2-24VDC/42VAC |
| | | 24 V DC/48 V AC | Non-detenting | 119600 | MDH-3/2-24DC |
| — | | 110 V AC | Non-detenting | 119601 | MDH-3/2-110VAC |
| | | | Non-detenting/detenting | 546020 | MDH-3/2-110AC-PI |
| | | 230 V AC | Non-detenting | 119602 | MDH-3/2-230VAC |
| | | | Non-detenting/detenting | 546021 | MDH-3/2-230AC-PI |
| | Square plug, type A, | 24 V DC | - | 546022 | MD-3/2-24DC-PI-IA-EX |
| | to EN 175301-803 | | | | |

Product Range and Company Overview

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