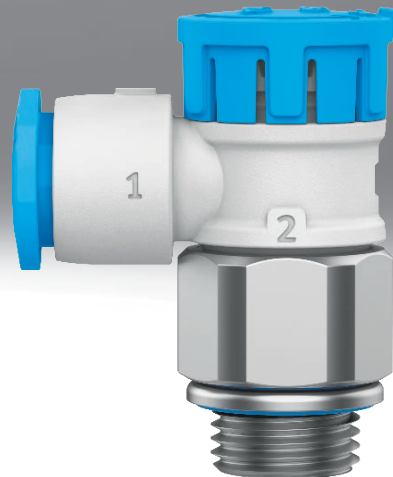


One-way flow control valves VFOE

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






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Simply good: Expected high Festo quality
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The Core Range offers you the best value for your automation tasks.

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



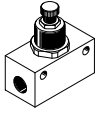
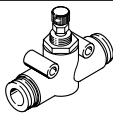
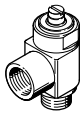
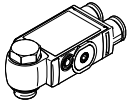
Product range overview – One-way flow control valves

| Version | Valve function | Version | Type | Outlet direction of connection | Pneumatic connection 1 | Pneumatic connection 2 | qnN ¹⁾ [l/min] | Adjusting element | → Page/ Internet | | | | | | | | |
|---|---|---------|--------------|--------------------------------------|--|------------------------|------------------------------|---|--------------------|------|--|--|--|--|--|--------------------|------|
| Standard | | | | | | | | | | | | | | | | | |
| Polymer | | | | | | | | | | | | | | | | | |
| Exhaust air one-way flow control function |  | VFOE-LE | Elbow outlet | QS-4, QS-6, QS-8, QS-10, QS-12 | M5, G1/8, G1/4, G3/8, G1/2, R1/8, R1/4, R3/8, R1/2 | | 90 ... 1200 | Rotary knob with detent | 6 | | | | | | | | |
| | | GRLA | Elbow outlet | QS-6, QS-8 | G1/8, G1/4, G3/8 | | 520 ... 650 | Knurled screw | grla | | | | | | | | |
| Supply air one-way flow control function |  | VFOE-LS | Elbow outlet | QS-4, QS-6, QS-8 | M5, M7, G1/8, R1/8 | | 90 ... 180 | Rotary knob with detent | 6 | | | | | | | | |
| Metal | | | | | | | | | | | | | | | | | |
| Exhaust air one-way flow control function |  | GRLA | Elbow outlet | QS-3, QS-4, QS-6, QS-8, QS-10, QS-12 | M5, G1/8, G1/4, G3/8, G1/2 | | 100 ... 1580 | Slotted head screw | grla | | | | | | | | |
| | | | | | | | | Knurled screw | | | | | | | | | |
| | | | | | | | |  | | | | | | | | Slotted head screw | grla |
| | Knurled screw | | | | | | | | | | | | | | | | |
| |  | | | | | | | | Slotted head screw | grla | | | | | | | |
|  | | GRLSA | Elbow outlet | QS-6, QS-8 | G1/8, G1/4 | | 0 ... 450 | Rotary knob with scale, internal hex | grlsa | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Supply air one-way flow control function |  | GRLZ | Elbow outlet | QS-3, QS-4, QS-6, QS-8 | M5, G1/8 | | 100 ... 215 | Slotted head screw | grlz | | | | | | | | |
| | | | | | | | |  | | | | | | | | Slotted head screw | grlz |
| | | | | | | | | | | | | | | | | Knurled screw | |
| |  | | | | | | | | Slotted head screw | grlz | | | | | | | |
|  | | VFOC-S | Elbow outlet | QS-4, QS-6 | Push-in sleeve ²⁾ QS-4, QS-6 | | 0 ... 270 | Slotted head screw | vfoc | | | | | | | | |
| Nickel-plated metal | | | | | | | | | | | | | | | | | |
| Exhaust air one-way flow control function |  | VFOH-LE | Elbow outlet | QS-4, QS-6, QS-8, QS-10 | G1/8, G1/4 | | 180 ... 530 | External hex | vfoh | | | | | | | | |

1) Standard nominal flow rate in flow control direction.

2) Only suitable for push-in connector QS.

Product range overview – One-way flow control valves

| Version | Valve function | Version | Type | Outlet direction of connection | Pneumatic connection 1 | Pneumatic connection 2 | qnN ¹⁾ [l/min] | Adjusting element | → Page/ Internet |
|-----------------------------|---|---|---|--------------------------------|--------------------------------------|--------------------------------------|------------------------------|--------------------|---------------------|
| Mini | Metal Exhaust air one-way flow control function |  | GRLA | Elbow outlet | QS-3, QS-4 | M3, M5 | 40 ... 41 | Slotted head screw | grla |
| | |  | | | M3 | M3 | 0 ... 18 | Slotted head screw | grla |
| | Supply air one-way flow control function |  | GRLZ | Elbow outlet | QS-3, QS-4 | M3, M5 | 41 ... 48 | Slotted head screw | grlz |
| | |  | | | M3 | M3 | 0 ... 18 | Slotted head screw | grlz |
| In-line installation | Metal One-way flow control function |  | GR/GRA | Straight | M3, M5, G1/8, G1/4, G3/8, G1/2, G3/4 | M3, M5, G1/8, G1/4, G3/8, G1/2, G3/4 | 29.5 ... 3300 | Knurled screw | gr |
| | | Polymer One-way flow control function |  | GR | Straight | QS-3, QS-4, QS-6, QS-8 | QS-3, QS-4, QS-6, QS-8 | 85 ... 265 | Knurled screw |
| Corrosion-resistant | Stainless steel Exhaust air one-way flow control function |  | CRGRLA | Elbow outlet | M5, G1/8, G1/4, G3/8, G1/2 | M5, G1/8, G1/4, G3/8, G1/2 | 95 ... 2100 | Slotted head screw | crgrla |
| Function combination | Polymer Exhaust air one-way flow control function |  | VFOF | Elbow outlet | QS-6, QS-8 | G1/8, G1/4 | 240 ... 590 | Internal hex | vfof |

1) Standard nominal flow rate in flow control direction.

Key features

Which fitting fits which thread?

Metric thread

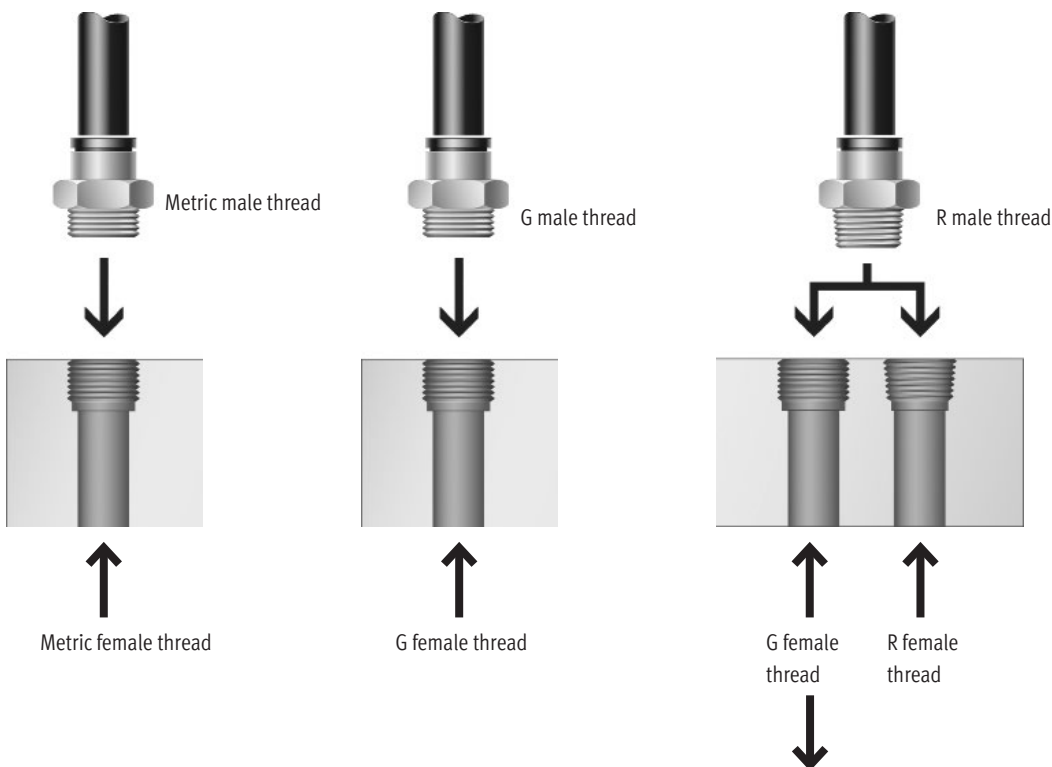
- Threads are comparable with G threads and are fitted as cylindrical metric thread
- Sealing is guaranteed as the O-ring sits in a groove that seals against the tube.


G thread to ISO 228-1


- Shorter thread
- Constant installation depth
- Replaceable sealing ring
- Sealing on front face
- Can be re-used a number of times thanks to replaceable sealing ring.


R thread to EN 10226-1 and ISO 7/1

- Self-sealing thread
- Sealing via coated threads
- No additional sealing surface required
- Smaller installation dimensions since there is no need for an offset for the sealing surface
- Can be reused up to 5 times.



 **Note**
 If R male threads are combined with G female threads, leakage can occur if the G female thread was not manufactured cleanly or if it is not within permissible tolerances. In this case additional sealing, e.g. using a sealing band, is required.

 **Note**
 Contact between the assembly tool and the housing should be avoided during assembly.

 **Note**
 When re-installing the one-way flow control valves with R thread, we also recommend using sealing band.

Key features

For manufacturing lithium-ion batteries (F1A)

Recommended for production plants for manufacturing lithium-ion batteries.

Metals with copper, zinc or nickel as the main constituent are excluded from use.

Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.



Note

Foreign particles can adhere to the product or arise during installation. Depending on the application, it may be necessary to purge the product with clean compressed air, to clean it after installation and to operate it with ducted exhaust air.

Type codes

| 001 | | Series |
|------|--|------------------------|
| VFOE | One-way flow control valve | |
| 002 | | Design |
| L | L-shape | |
| 003 | | Function |
| E | One-way flow control valve for exhaust air | |
| S | One-way flow control valve for supply air | |
| 004 | | Adjusting component |
| T | Rotary knob with detent | |
| 005 | | Pneumatic connection 2 |
| M5 | M5 | |
| M7 | M7 | |
| G18 | G1/8 | |
| G14 | G1/4 | |
| G38 | G3/8 | |
| G12 | G1/2 | |
| R18 | R1/8 | |
| R14 | R1/4 | |
| R38 | R3/8 | |
| R12 | R1/2 | |

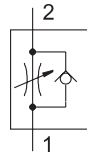
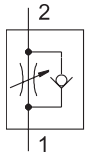
| 006 | | Pneumatic connection 1 |
|-----|--|-----------------------------|
| Q4 | Push-in connector 4 mm | |
| Q6 | Push-in connector 6 mm | |
| Q8 | Push-in connector 8 mm | |
| Q10 | Push-in connector 10 mm | |
| Q12 | Push-in connector 12 mm | |
| 007 | | Special material properties |
| | None | |
| F1A | Recommended for production facilities for the manufacture of lithium-ion batteries | |
| 008 | | Package unit |
| | Standard | |
| P20 | 20 | |
| P50 | 50 | |

Datasheet

One-way flow control function

Exhaust air

Supply air



- Flow rate
82 ... 1300 l/min
- Temperature range
-10 ... +60°C
- Operating pressure
0.02 ... 1 MPa



General technical data – VFOE-LE

| | | | | | | | | | | |
|---------------------------------|---|----------------------|-----------------------|---------------|---------|----------------------|---------------------------|---------------|-------|--|
| Pneumatic connection 2 | M5 | G1/8 | G1/4 | G3/8 | G1/2 | R1/8 | R1/4 | R3/8 | R1/2 | |
| Valve function | Exhaust air one-way flow control function | | | | | | | | | |
| Pneumatic connection 1 | QS-4 QS-6 | QS-4 QS-6 QS-8 | QS-6 QS-8 QS-10 | QS-8 QS-10 | QS-12 | QS-4 QS-6 QS-8 | QS-6 QS-8 QS-10 | QS-8 QS-10 | QS-12 | |
| Actuation type | Manual | | | | | | | | | |
| Mounting position | Any | | | | | | | | | |
| Adjusting element | Rotary knob with detent, colour: blue | | | | | | | | | |
| Type of mounting | Screw-in | | | | | | | | | |
| Suitability for re-installation | max. | - | | | | 5 | | | | |
| Rotatability | Can be rotated 360° around the screw-in axis after mounting / not permitted for continuous rotation | | | | | | | | | |
| Nominal tightening torque | [Nm] | 2 ±20% | 5 ±20% | 10 ±20% | 13 ±20% | 23 ±20% | Hand-tight + 1 to 2 turns | | | |
| Max. tightening torque | [Nm] | 2.4 | 6 | 12 | 15.6 | 27.6 | - | | | |

General technical data – VFOE-LS

| | | | | | |
|---------------------------------|---|--------------|----------------------|----------------------|---------------------------|
| Pneumatic connection 2 | M5 | M7 | G1/8 | R1/8 | |
| Valve function | Supply air one-way flow control function | | | | |
| Pneumatic connection 1 | QS-4 QS-6 | QS-4 QS-6 | QS-4 QS-6 QS-8 | QS-4 QS-6 QS-8 | |
| Actuation type | Manual | | | | |
| Mounting position | Any | | | | |
| Adjusting element | Rotary knob with detent, colour: light blue | | | | |
| Type of mounting | Screw-in | | | | |
| Suitability for re-installation | max. | - | | 5 | |
| Rotatability | Can be rotated 360° around the screw-in axis after mounting / not permitted for continuous rotation | | | | |
| Nominal tightening torque | [Nm] | 2 ±20% | 3 ±20% | 5 ±20% | Hand-tight + 1 to 2 turns |
| Max. tightening torque | [Nm] | 2.4 | 3.6 | 6 | - |

Datasheet

| Operating and environmental conditions | | |
|--|-------|---|
| Threaded bolt material ¹⁾ | | Galvanised steel Steel, chemically nickel-plated |
| Operating pressure for entire temperature range | [MPa] | 0.02 ... 1 |
| | [bar] | 0.2 ... 10 |
| | [psi] | 2.9 ... 145 |
| Operating medium | | Compressed air to ISO 8573-1:2010 [7:4:4] |
| PWIS conformity | | VDMA24364 zone III |
| Suitable for the production of lithium-ion batteries | | – Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class | | Class 4 to ISO 14644-1 |
| Note on the operating/pilot medium | | Lubricated operation possible (in which case lubricated operation will always be required) |
| Ambient temperature | [°C] | –10 ... +60 |
| Temperature of medium | [°C] | –10 ... +60 |
| Corrosion resistance class CRC ²⁾ | | 1 - no corrosion stress 0 - Low corrosion stress |
| ATEX certification ³⁾ | | The information in the certificate must be observed! For zone 1, 2, 21, 22 |

1) Steel, chemically nickel-plated: suitable for battery production (VFOE...-F1A)

2) More information www.festo.com/x/topic/kbk3) More information www.festo.com/catalogue/vfoe → Support/Downloads.

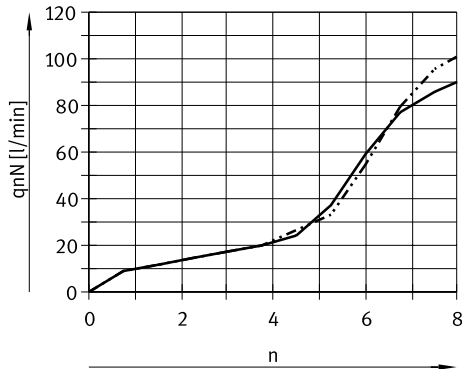
Materials

| | |
|-----------------------|------------------|
| Housing | PBT |
| Cover, releasing ring | PBT |
| Threaded bolt | Galvanised steel |
| Static seals | NBR |
| Dynamic seals | HNBR |
| Note on materials | RoHS-compliant |

Datasheet

Standard nominal flow rate q_{nN} at 0.6 → 0.5 MPa as a function of spindle rotations n

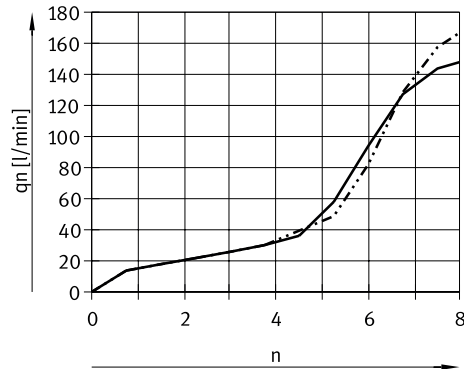
Threaded connection M5 (exhaust air)



- Push-in connector 4 mm
- - - Push-in connector 6 mm

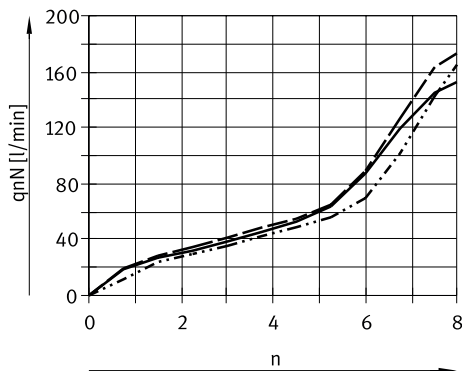
Standard flow rate q_n at 0.6 → 0 MPa as a function of spindle rotations n

Threaded connection M5 (exhaust air)



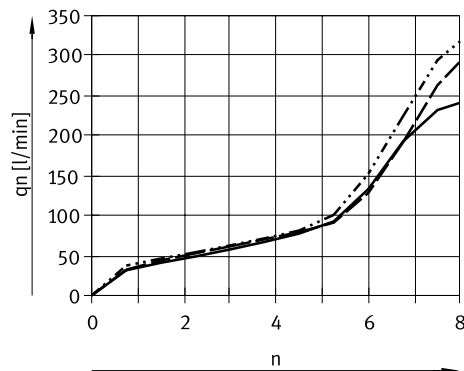
- Push-in connector 4 mm
- - - Push-in connector 6 mm

Threaded connection G1/8, R1/8 (exhaust air)



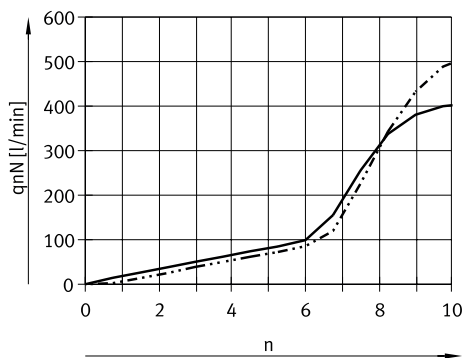
- Push-in connector 4 mm
- - - Push-in connector 6 mm
- · - Push-in connector 8 mm

Threaded connection G1/8, R1/8 (exhaust air)



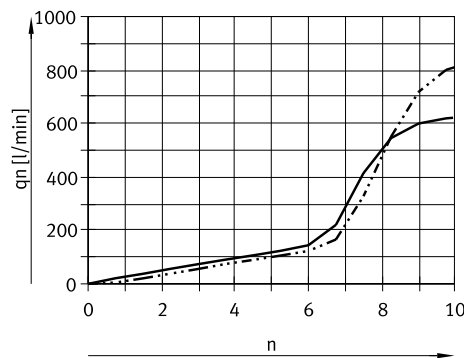
- Push-in connector 4 mm
- - - Push-in connector 6 mm
- · - Push-in connector 8 mm

Threaded connection G1/4, R1/4 (exhaust air)



- Push-in connector 6 mm
- - - Push-in connector 8 mm / 10 mm

Threaded connection G1/4, R1/4 (exhaust air)

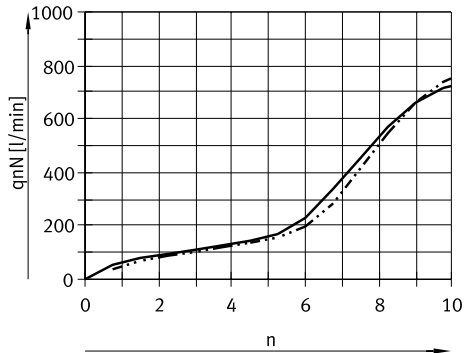


- Push-in connector 6 mm
- - - Push-in connector 8 mm / 10 mm

Datasheet

Standard nominal flow rate q_{nN} at 0.6 → 0.5 MPa as a function of spindle rotations n

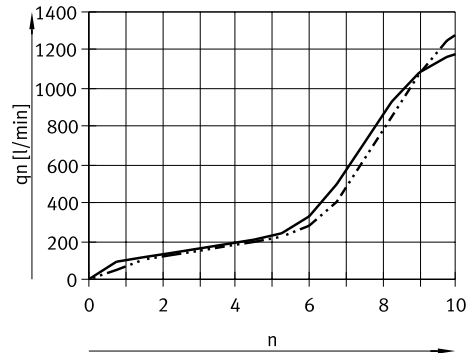
Threaded connection G3/8, R3/8 (exhaust air)



— Push-in connector 8 mm
 - - - - - Push-in connector 10 mm

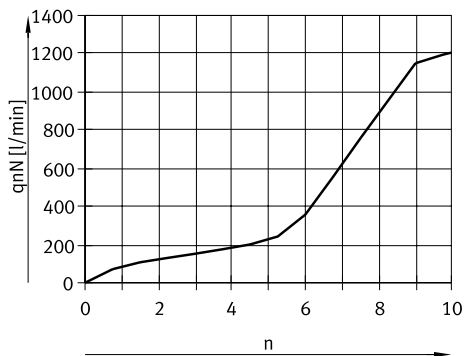
Standard flow rate q_n at 0.6 → 0 MPa as a function of spindle rotations n

Threaded connection G3/8, R3/8 (exhaust air)



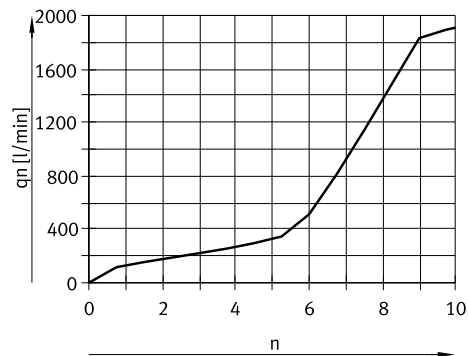
— Push-in connector 8 mm
 - - - - - Push-in connector 10 mm

Threaded connection G1/2, R1/2 (exhaust air)



— Push-in connector 12 mm

Threaded connection G1/2, R1/2 (exhaust air)

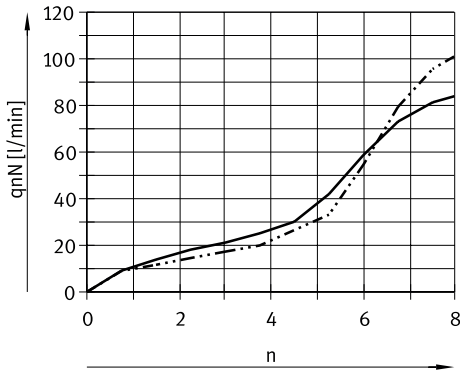


— Push-in connector 12 mm

Datasheet

Standard nominal flow rate q_{nN} at 0.6 → 0.5 MPa as a function of spindle rotations n

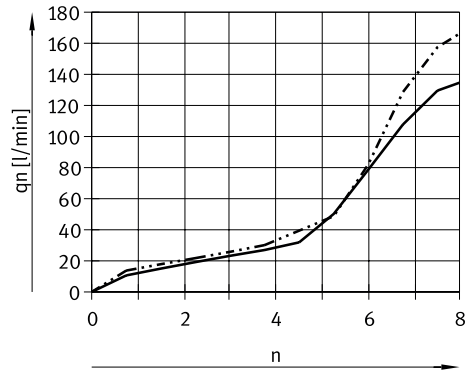
Threaded connection M5, M7 (supply air)



- Push-in connector 4 mm
- - - Push-in connector 6 mm

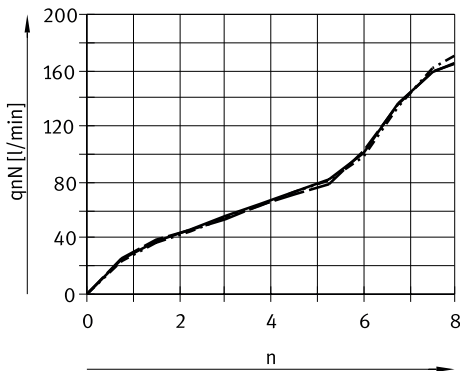
Standard flow rate q_n at 0.6 → 0 MPa as a function of spindle rotations n

Threaded connection M5, M7 (supply air)



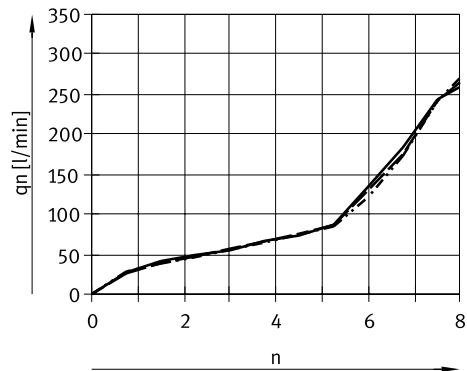
- Push-in connector 4 mm
- - - Push-in connector 6 mm

Threaded connection G1/8, R1/8 (supply air)



- Push-in connector 4 mm
- - - Push-in connector 6 mm
- · - Push-in connector 8 mm

Threaded connection G1/8, R1/8 (supply air)

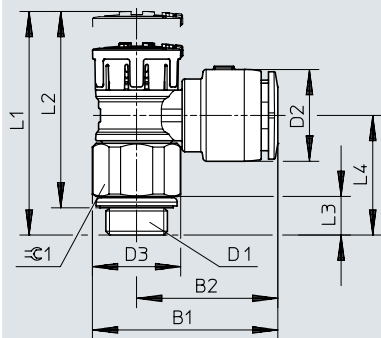


- Push-in connector 4 mm
- - - Push-in connector 6 mm
- · - Push-in connector 8 mm

Datasheet

Dimensions VFOE-...-M../G..

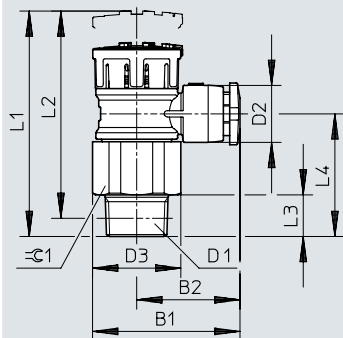
Download CAD data → www.festo.com



| Type | B1 | B2 | D1 | D2 ∅ | D3 ∅ | L1 | | L2 | | L3 | L4 | ≅ 1 |
|------------------|------|------|------|---------|---------|--------------------|------------------|--------------------|------------------|-----|------|-----|
| | | | | | | Unlocked (max.) | Locked (max.) | Unlocked (max.) | Locked (max.) | | | |
| VFOE-...-M5-Q4 | 19.6 | 14.6 | M5 | 9 | 10 | 27.6 | 26.6 | 25 | 24 | 4.1 | 13.9 | 9 |
| VFOE-...-M5-Q6 | 22.6 | 17.6 | M5 | 11 | 10 | 27.6 | 26.6 | 25 | 24 | 4.1 | 13.9 | 9 |
| VFOE-...-M7-Q4 | 19.6 | 14.6 | M7 | 9 | 10 | 29.5 | 28.5 | 25 | 24 | 6 | 15.8 | 9 |
| VFOE-...-M7-Q6 | 22.6 | 17.6 | M7 | 11 | 10 | 29.5 | 28.5 | 25 | 24 | 6 | 15.8 | 9 |
| VFOE-...-G18-Q4 | 23.3 | 16.3 | G1/8 | 9 | 14 | 31.7 | 30.3 | 27.4 | 26 | 6.1 | 18.9 | 13 |
| VFOE-...-G18-Q6 | 24.4 | 17.4 | G1/8 | 11 | 14 | 31.7 | 30.3 | 27.4 | 26 | 6.1 | 18.9 | 13 |
| VFOE-...-G18-Q8 | 29.3 | 22.3 | G1/8 | 14.5 | 14 | 31.7 | 30.3 | 27.4 | 26 | 6.1 | 18.9 | 13 |
| VFOE-...-G14-Q6 | 28.3 | 19.3 | G1/4 | 11 | 17.9 | 38.6 | 36.7 | 33.9 | 32 | 7 | 22 | 16 |
| VFOE-...-G14-Q8 | 30 | 21 | G1/4 | 14.5 | 17.9 | 38.6 | 36.7 | 33.9 | 32 | 7 | 22 | 16 |
| VFOE-...-G14-Q10 | 35.1 | 26.2 | G1/4 | 16.5 | 17.9 | 38.6 | 36.7 | 33.9 | 32 | 7 | 22 | 16 |
| VFOE-...-G38-Q8 | 34.5 | 23.3 | G3/8 | 14.5 | 22.4 | 44.1 | 41.9 | 38.2 | 36 | 8.5 | 26.2 | 21 |
| VFOE-...-G38-Q10 | 39.6 | 28.4 | G3/8 | 17.5 | 22.4 | 44.1 | 41.9 | 38.2 | 36 | 8.5 | 26.2 | 21 |
| VFOE-...-G12-Q12 | 46.8 | 33.3 | G1/2 | 20.8 | 27 | 53.7 | 50.8 | 46.8 | 43.9 | 9.5 | 31 | 24 |

Dimensions VFOE-...-R..

Download CAD data → www.festo.com



| Type | B1 | B2 | D1 | D2 ∅ | D3 ∅ | L1 | | L2 | | L3 | L4 | ≅ 1 |
|------------------|------|------|------|---------|---------|--------------------|------------------|--------------------|------------------|------|------|-----|
| | | | | | | Unlocked (max.) | Locked (max.) | Unlocked (max.) | Locked (max.) | | | |
| VFOE-...-R18-Q4 | 23.3 | 16.3 | R1/8 | 9 | 14 | 32.2 | 30.8 | 29.2 | 27.8 | 6.6 | 19.4 | 13 |
| VFOE-...-R18-Q6 | 24.4 | 17.4 | R1/8 | 11 | 14 | 32.2 | 30.8 | 29.2 | 27.8 | 6.6 | 19.4 | 13 |
| VFOE-...-R18-Q8 | 29.3 | 22.3 | R1/8 | 14.5 | 14 | 32.2 | 30.8 | 29.2 | 27.8 | 6.6 | 19.4 | 13 |
| VFOE-...-R14-Q6 | 28.3 | 19.3 | R1/4 | 11 | 17.9 | 41.2 | 39.3 | 36.7 | 34.8 | 10.1 | 25.1 | 16 |
| VFOE-...-R14-Q8 | 30 | 21 | R1/4 | 14.5 | 17.9 | 41.2 | 39.3 | 36.7 | 34.8 | 10.1 | 25.1 | 16 |
| VFOE-...-R14-Q10 | 35.1 | 26.2 | R1/4 | 17.5 | 17.9 | 41.2 | 39.3 | 36.7 | 34.8 | 10.1 | 25.1 | 16 |
| VFOE-...-R38-Q8 | 34.5 | 23.3 | R3/8 | 14.5 | 22.4 | 45.2 | 43 | 40.7 | 38.5 | 10.1 | 27.8 | 21 |
| VFOE-...-R38-Q10 | 39.6 | 28.4 | R3/8 | 17.5 | 22.4 | 45.2 | 43 | 40.7 | 38.8 | 10.1 | 27.8 | 21 |
| VFOE-...-R12-Q12 | 46.8 | 33.3 | R1/2 | 20.8 | 27 | 55.8 | 52.9 | 50.8 | 47.9 | 12.1 | 33.6 | 24 |

Datasheet

★ Core Range

| Ordering data | | | | | | | | | |
|--|-------|---|------------------------------------|---|------------------------------------|--------|-----------|-----------------------|------------------|
| Pneumatic connection | | Standard nominal flow rate q _N At 0.6 MPa → 0.5 MPa | | Standard flow rate q _n At 0.6 MPa → 0 MPa | | Weight | Part no. | Type | PU ¹⁾ |
| 2 | 1 | In flow control direction [l/min] | In non-return direction [l/min] | In flow control direction [l/min] | In non-return direction [l/min] | [g] | | | |
| Exhaust air one-way flow control function | | | | | | | | | |
| M5 | QS-4 | 90 | 50 ... 90 | 150 | 130 ... 160 | 3.3 | 8068723 | VFOE-LE-T-M5-Q4 | 1 |
| | | | | | | | 8095432 | VFOE-LE-T-M5-Q4-P50 | 50 |
| | QS-6 | 105 | 60 ... 105 | 160 | 150 ... 180 | | 8068724 | VFOE-LE-T-M5-Q6 | 1 |
| G1/8 | QS-4 | 150 | 90 ... 150 | 250 | 240 ... 300 | 9.5 | ★ 8068725 | VFOE-LE-T-G18-Q4 | 1 |
| | | | | | | | ★ 8068726 | VFOE-LE-T-G18-Q6 | 1 |
| | QS-6 | 165 | 110 ... 200 | 280 | 300 ... 360 | | 8095433 | VFOE-LE-T-G18-Q6-P50 | 50 |
| G1/4 | QS-8 | 170 | 130 ... 200 | 320 | 320 ... 390 | 16 | ★ 8068727 | VFOE-LE-T-G18-Q8 | 1 |
| | | | | | | | 8068728 | VFOE-LE-T-G14-Q6 | 1 |
| | QS-6 | 400 | 350 ... 450 | 610 | 700 ... 800 | | 8068729 | VFOE-LE-T-G14-Q8 | 1 |
| G1/2 | QS-8 | 500 | 370 ... 500 | 810 | 750 ... 900 | 29.5 | 8095434 | VFOE-LE-T-G14-Q8-P50 | 50 |
| | | | | | | | 8068730 | VFOE-LE-T-G14-Q10 | 1 |
| | QS-10 | 500 | 370 ... 500 | 810 | 750 ... 900 | | 8068731 | VFOE-LE-T-G38-Q8 | 1 |
| G3/8 | QS-8 | 720 | 600 ... 900 | 1150 | 1300 ... 1500 | 49.5 | 8068732 | VFOE-LE-T-G38-Q10 | 1 |
| | | | | | | | 8095435 | VFOE-LE-T-G38-Q10-P20 | 20 |
| | QS-10 | 750 | 700 ... 1000 | 1280 | 1400 ... 1600 | | 8068733 | VFOE-LE-T-G12-Q12 | 1 |
| G1/2 | QS-12 | 1200 | 600 ... 1200 | 1900 | 1400 ... 2000 | 49.5 | 8095436 | VFOE-LE-T-G12-Q12-P20 | 20 |
| | | | | | | | ★ 8068734 | VFOE-LE-T-R18-Q4 | 1 |
| | QS-4 | 150 | 90 ... 150 | 250 | 240 ... 300 | | ★ 8068735 | VFOE-LE-T-R18-Q6 | 1 |
| R1/8 | QS-6 | 165 | 110 ... 200 | 280 | 300 ... 360 | 9.5 | ★ 8068736 | VFOE-LE-T-R18-Q8 | 1 |
| | | | | | | | 8068737 | VFOE-LE-T-R14-Q6 | 1 |
| | QS-8 | 170 | 130 ... 200 | 320 | 320 ... 390 | | 8068738 | VFOE-LE-T-R14-Q8 | 1 |
| R1/4 | QS-6 | 400 | 350 ... 450 | 610 | 700 ... 800 | 16 | 8068739 | VFOE-LE-T-R14-Q10 | 1 |
| | | | | | | | 8068740 | VFOE-LE-T-R38-Q8 | 1 |
| | QS-8 | 500 | 370 ... 500 | 810 | 750 ... 900 | | 8068741 | VFOE-LE-T-R38-Q10 | 1 |
| R3/8 | QS-10 | 500 | 370 ... 500 | 810 | 750 ... 900 | 29.5 | 8068742 | VFOE-LE-T-R12-Q12 | 1 |
| | | | | | | | 8068743 | VFOE-LS-T-M5-Q4 | 1 |
| | QS-8 | 720 | 600 ... 900 | 1150 | 1300 ... 1500 | | 8068744 | VFOE-LS-T-M5-Q6 | 1 |
| R1/2 | QS-10 | 750 | 700 ... 1000 | 1280 | 1400 ... 1600 | 4 | 8068745 | VFOE-LS-T-M7-Q4 | 1 |
| | | | | | | | 8068746 | VFOE-LS-T-M7-Q6 | 1 |
| | QS-12 | 1200 | 600 ... 1200 | 1900 | 1400 ... 2000 | | 9.5 | ★ 8068747 | VFOE-LS-T-G18-Q4 |
| M5 | QS-4 | 85 | 50 ... 90 | 150 | 130 ... 160 | 3.3 | ★ 8068748 | VFOE-LS-T-G18-Q6 | 1 |
| | | | | | | | ★ 8068749 | VFOE-LS-T-G18-Q8 | 1 |
| | QS-6 | 100 | 60 ... 100 | 160 | 150 ... 180 | | 9.5 | ★ 8068750 | VFOE-LS-T-R18-Q4 |
| M7 | QS-4 | 85 | 50 ... 90 | 150 | 130 ... 160 | 4 | ★ 8068751 | VFOE-LS-T-R18-Q6 | 1 |
| | | | | | | | ★ 8068752 | VFOE-LS-T-R18-Q8 | 1 |
| | QS-6 | 100 | 60 ... 100 | 160 | 150 ... 180 | | 9.5 | | |
| G1/8 | QS-4 | 165 | 90 ... 165 | 260 | 240 ... 300 | 9.5 | | | |
| | | | | | | | | | |
| | QS-6 | 170 | 110 ... 200 | 270 | 300 ... 360 | | | | |
| R1/8 | QS-8 | 170 | 130 ... 200 | 270 | 320 ... 390 | 9.5 | | | |
| | | | | | | | | | |
| | QS-4 | 165 | 90 ... 165 | 260 | 240 ... 300 | | | | |
| R1/8 | QS-6 | 170 | 110 ... 200 | 270 | 300 ... 360 | 9.5 | | | |
| | | | | | | | | | |
| | QS-8 | 170 | 130 ... 200 | 270 | 320 ... 390 | | | | |

1) Packaging unit

Datasheet

★ Core Range

Ordering data - Products for battery production

| Pneumatic connection | | Standard nominal flow rate q _N At 0.6 MPa → 0.5 MPa | | Standard flow rate q _n At 0.6 MPa → 0 MPa | | Weight [g] | Part no. | Type | PU ¹⁾ |
|--|-------|---|------------------------------------|---|------------------------------------|---------------|----------|-------------------------------------|------------------|
| 2 | 1 | In flow control direction [l/min] | In non-return direction [l/min] | In flow control direction [l/min] | In non-return direction [l/min] | | | | |
| Exhaust air one-way flow control function | | | | | | | | | |
| M5 | QS-4 | 90 | 50 ... 90 | 150 | 130 ... 160 | 3.3 | 8157642 | VFOE-LE-T-M5-Q4-F1A ²⁾ | 1 |
| | QS-6 | 105 | 60 ... 105 | 160 | 150 ... 180 | | 8157641 | VFOE-LE-T-M5-Q6-F1A ²⁾ | 1 |
| R1/8 | QS-4 | 150 | 90 ... 150 | 250 | 240 ... 300 | 9.5 | 8157640 | VFOE-LE-T-R18-Q4-F1A ²⁾ | 1 |
| | QS-6 | 165 | 110 ... 200 | 280 | 300 ... 360 | | 8157639 | VFOE-LE-T-R18-Q6-F1A ²⁾ | 1 |
| | QS-8 | 170 | 130 ... 200 | 320 | 320 ... 390 | | 8157638 | VFOE-LE-T-R18-Q8-F1A ²⁾ | 1 |
| R1/4 | QS-6 | 400 | 350 ... 450 | 610 | 700 ... 800 | 16 | 8157637 | VFOE-LE-T-R14-Q6-F1A ²⁾ | 1 |
| | QS-8 | 500 | 370 ... 500 | 810 | 750 ... 900 | | 8157636 | VFOE-LE-T-R14-Q8-F1A ²⁾ | 1 |
| | QS-10 | 500 | 370 ... 500 | 810 | 750 ... 900 | | 8157635 | VFOE-LE-T-R14-Q10-F1A ²⁾ | 1 |
| R3/8 | QS-8 | 720 | 600 ... 900 | 1150 | 1300 ... 1500 | 29.5 | 8157634 | VFOE-LE-T-R38-Q8-F1A ²⁾ | 1 |
| | QS-10 | 750 | 700 ... 1000 | 1280 | 1400 ... 1600 | | 8157633 | VFOE-LE-T-R38-Q10-F1A ²⁾ | 1 |
| R1/2 | QS-12 | 1200 | 600 ... 1200 | 1900 | 1400 ... 2000 | 49.5 | 8157631 | VFOE-LE-T-R12-Q12-F1A ²⁾ | 1 |
| Supply air one-way flow control function | | | | | | | | | |
| M5 | QS-4 | 85 | 50 ... 90 | 150 | 130 ... 160 | 3.3 | 8157630 | VFOE-LS-T-M5-Q4-F1A ²⁾ | 1 |
| | QS-6 | 100 | 60 ... 100 | 160 | 150 ... 180 | | 8157629 | VFOE-LS-T-M5-Q6-F1A ²⁾ | 1 |
| R1/8 | QS-4 | 165 | 90 ... 165 | 260 | 240 ... 300 | 9.5 | 8157628 | VFOE-LS-T-R18-Q4-F1A ²⁾ | 1 |
| | QS-6 | 170 | 110 ... 200 | 270 | 300 ... 360 | | 8157627 | VFOE-LS-T-R18-Q6-F1A ²⁾ | 1 |
| | QS-8 | 170 | 130 ... 200 | 270 | 320 ... 390 | | 8157626 | VFOE-LS-T-R18-Q8-F1A ²⁾ | 1 |

1) Packaging unit

2) Recommended for production plants for manufacturing lithium-ion batteries

Festo - Your Partner in Automation



1 Festo Inc.
5300 Explorer Drive
Mississauga, ON L4W 5G4
Canada

Festo Customer Interaction Center
Tel: 1 877 463 3786
Fax: 1 877 393 3786
Email: customer.service.ca@festo.com



2 Festo Pneumatic
Av. Ceylán 3,
Col. Tequesquináhuac
54020 Tlalnepantla,
Estado de México

Multinational Contact Center
01 800 337 8669
ventas.mexico@festo.com



3 Festo Corporation
1377 Motor Parkway
Suite 310
Islandia, NY 11749

Festo Customer Interaction Center
1 800 993 3786
1 800 963 3786
customer.service.us@festo.com



4 Regional Service Center
7777 Columbia Road
Mason, OH 45040

Connect with us



www.festo.com/socialmedia



www.festo.com

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