

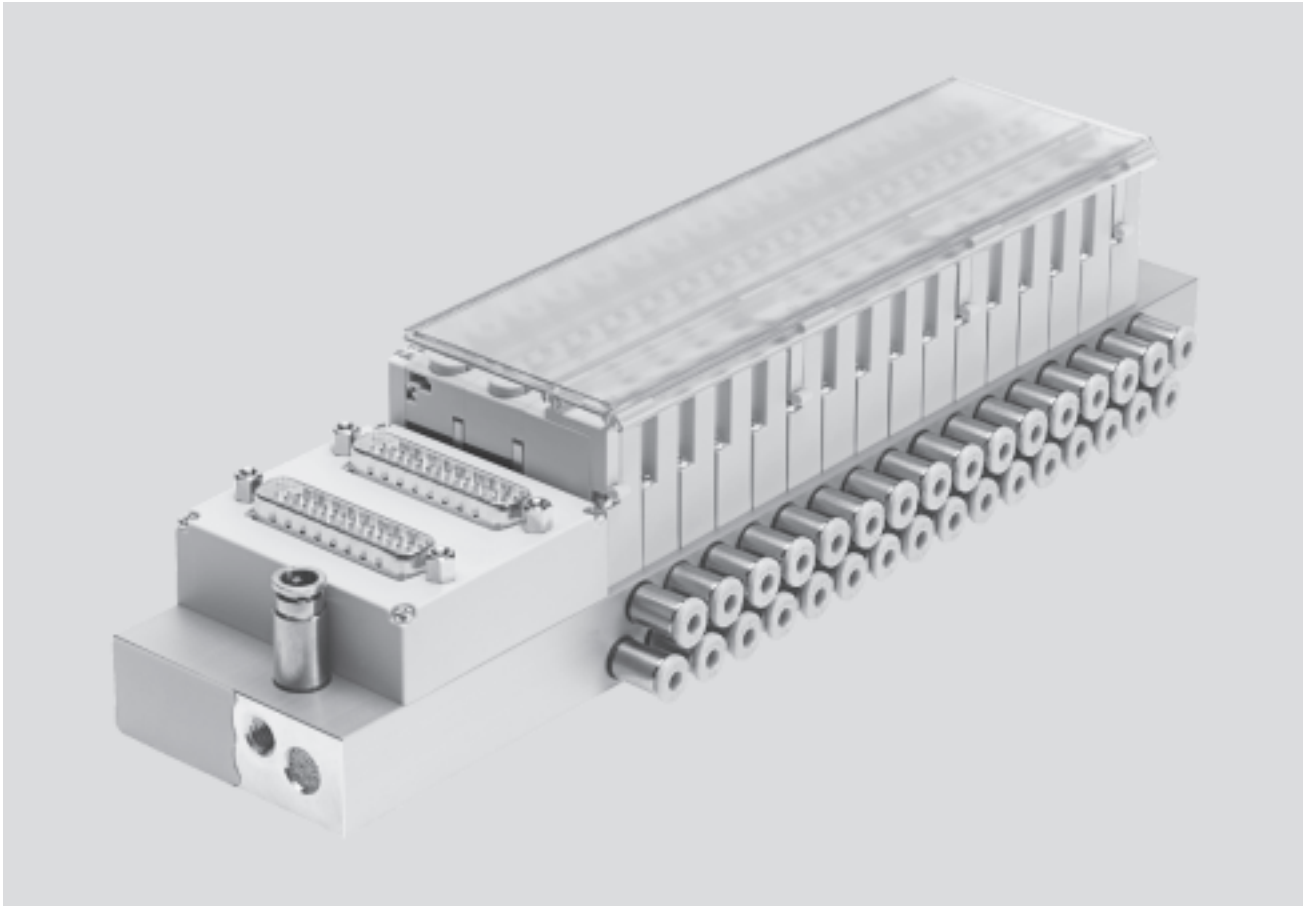
Valve terminals type 84 VTOC

FESTO



Valve terminals type 84 VTOC

Key features



Innovative

- Valve terminal for a wide range of pneumatic applications
- Weight-optimised metal manifold rail
- Space-saving thanks to 2x3/2-way valves on one valve position
- Great flexibility during planning, assembly and operation
- Configurable manifold rails (pneumatic and electric connections)

Versatile

- Provides 2 ... 24 valve positions on one terminal
- Flexibility of the pneumatic working lines provides a practical solution to different requirements
- Wide range of electrical outlet directions
- Multi-pin plug connection with Sub-D plug or flat cable

Reliable

- Manual override
- Durable
- Sturdy thanks to simple structure

Easy to mount

- Ready-to-install and tested unit
- Lower ordering, installation and commissioning costs
- Easy valve assembly

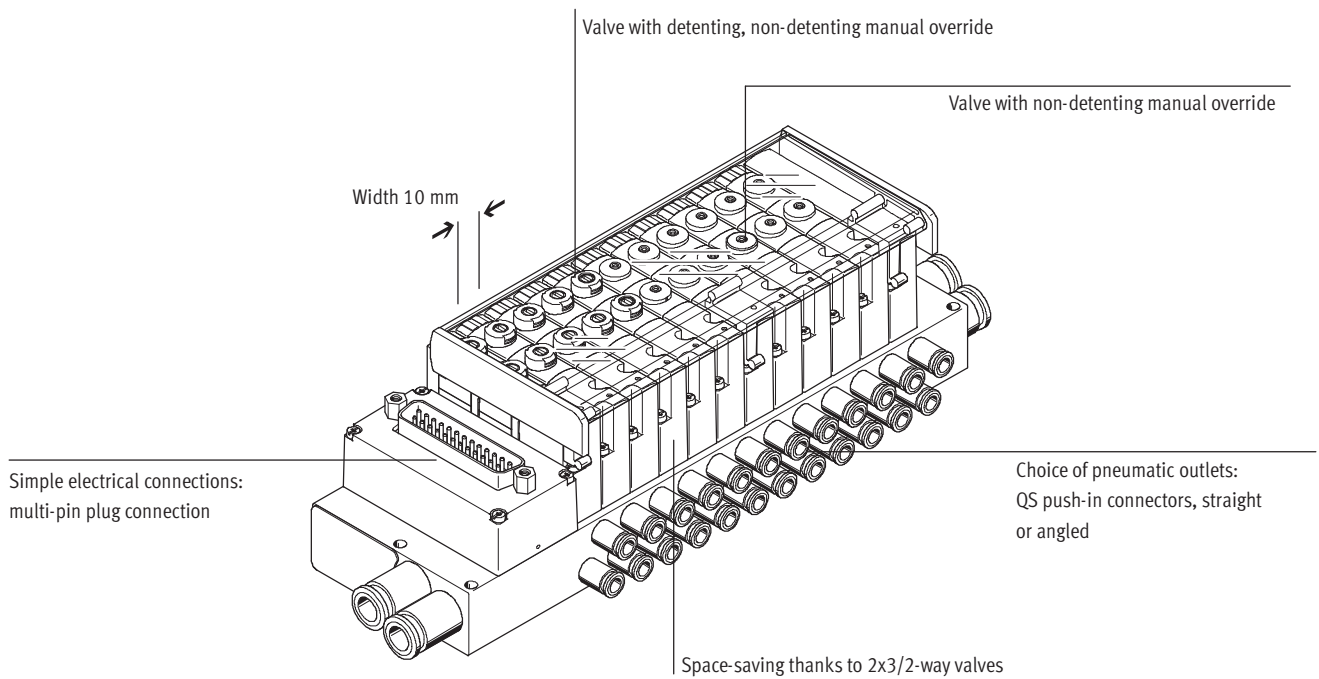
 Note

Ordering system for valve terminal type 84 VTOC

➔ Internet: vtoc

Valve terminals type 84 VTOC

Key features



Equipment options

Valve functions

- 2x3/2-way valve, single solenoid, normally closed
- Valve with non-detenting manual override
- Valve with detenting, non-detenting manual override

Electrical connection options

- Multi-pin plug
- 2 ... 24 valve positions/
max. 48 solenoid coils
- Sub-D/flat cable

Valve terminals type 84 VTOC

Peripherals overview

Overview of valve terminals type 84 VTOC

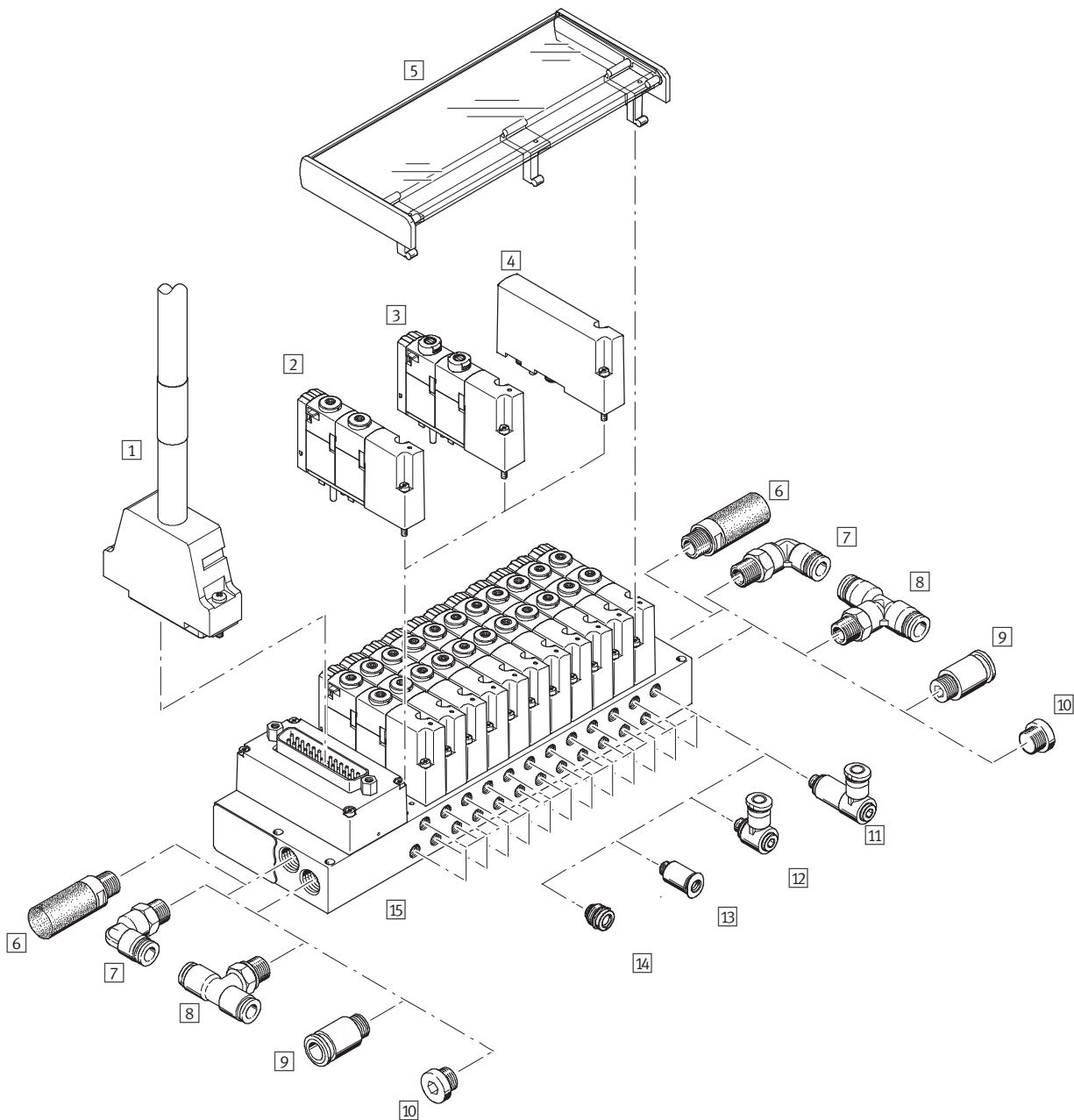
Valve terminal with electrical multi-pin plug connection

- Up to 24 valve positions/
48 solenoid coils
- Flat cable connection type, code: RC
- Sub-D plug connection type, code: SD

Valve terminals with electrical multi-pin plug connection are available in gradations from 2 to max. 24 valve positions. Each valve position can either be equipped with a valve body or a blanking plate.

Only valve bodies containing two single solenoid 3/2-way valves are available.

A maximum of 48 valve solenoid coils can be actuated via the electrical multi-pin plug connection.



Valve terminals type 84 VTOC

Peripherals overview

| Accessories | | | |
|-------------|--------|---|---------------------|
| | Type | Brief description | → Page/ Internet |
| 1 | KMP6 | Connecting cable for multi-pin plug connection, with Sub-D plug, 25-pin | 25 |
| 2 | VOVC | Solenoid valve with non-detenting manual override | 25 |
| 3 | VOVC | Solenoid valve with detenting, non-detenting manual override | 25 |
| 4 | VABB | Blanking plate for vacant position | 25 |
| 5 | ASCF | For labelling the valves/manual override cover | 25 |
| 6 | U | For fitting in exhaust ports | 26 |
| 7 | QSL | For connecting to the air supply or exhaust | 26 |
| 8 | QST | For connecting to the air supply or exhaust | 26 |
| 9 | OS | For connecting to the air supply or exhaust | 26 |
| 10 | B | For sealing the port for the air supply or exhaust | 25 |
| 11 | QSMLLV | Long elbow connector for working lines | 26 |
| 12 | QSMLV | Elbow connector for working lines | 26 |
| 13 | QS | Straight push-in fitting for working lines | 26 |
| 14 | QSIMG | Straight countersunk push-in fitting for working lines (compact) | – |
| 15 | VABB | With multi-pin plug connection for max. 24 valve positions | – |

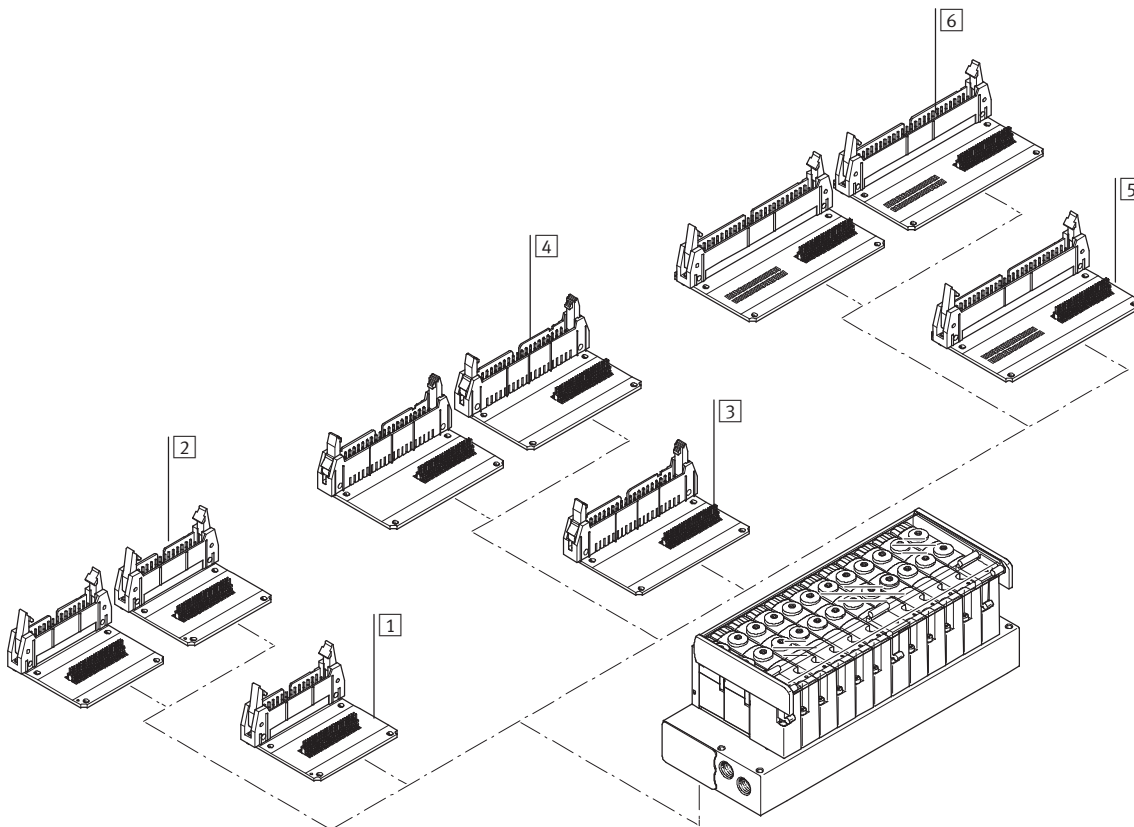
Valve terminals type 84 VTOC

Peripherals overview

Overview of electrical connections

Valve terminal with flat cable connection on top

- Flat cable connection type, code: RC
 - Connection direction:
 - Left (code LT)
 - Right (code RT)
- VTOC valve terminals with electrical multi-pin plug connection are available in gradations from 2 to max. 24 valve positions. A valve body occupies one valve position and contains two single solenoid 3/2-way valves.
- A maximum of 48 solenoid coils can therefore be actuated via the electrical multi-pin plug connection.
- A total of 19 pin allocation variants are available.



| Accessories | | |
|-------------|-------|-----------------------|
| | Code | Brief description |
| 1 | LT | 1-way, top left |
| 2 | LT | 2-way, top left |
| 3 | RT | 1-way, top right |
| 4 | RT | 2-way, top right |
| 5 | RT/LT | 1-way, top right/left |
| 6 | RT/LT | 2-way, top right/left |

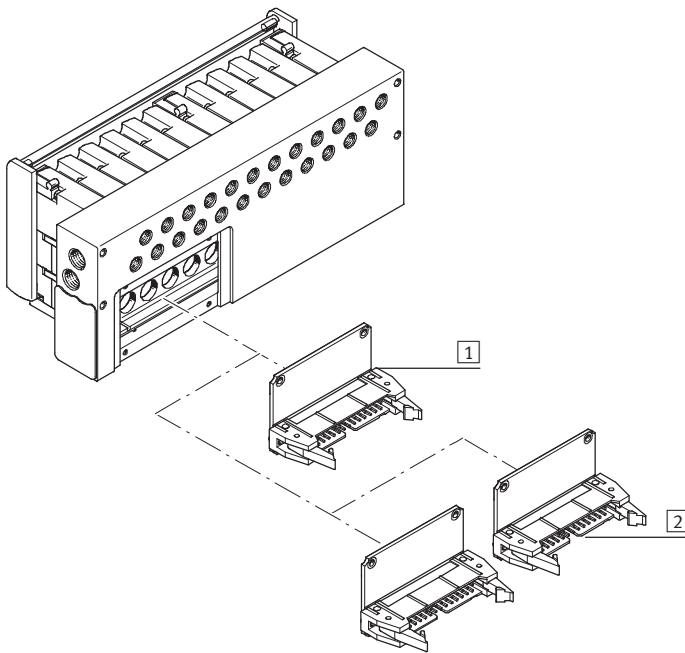
Valve terminals type 84 VTOC

Peripherals overview

Overview of electrical connections

Valve terminal with flat cable connection underneath

- Flat cable connection type, code: RC
 - Connection direction:
 - Left (code LB)
- VTOC valve terminals with electrical multi-pin plug connection are available in gradations from 2 to max. 24 valve positions. A valve body occupies one valve position and contains two single solenoid 3/2-way valves.
- A maximum of 48 solenoid coils can therefore be actuated via the electrical multi-pin plug connection.
- A total of 19 pin allocation variants are available.



| Accessories | | |
|----------------------|------|--------------------|
| | Code | Brief description |
| 1 Flat cable, 26-pin | LB | 1-way, bottom left |
| 2 Flat cable, 26-pin | | 2-way, bottom left |

Valve terminals type 84 VTOC

Peripherals overview

Overview of electrical connections

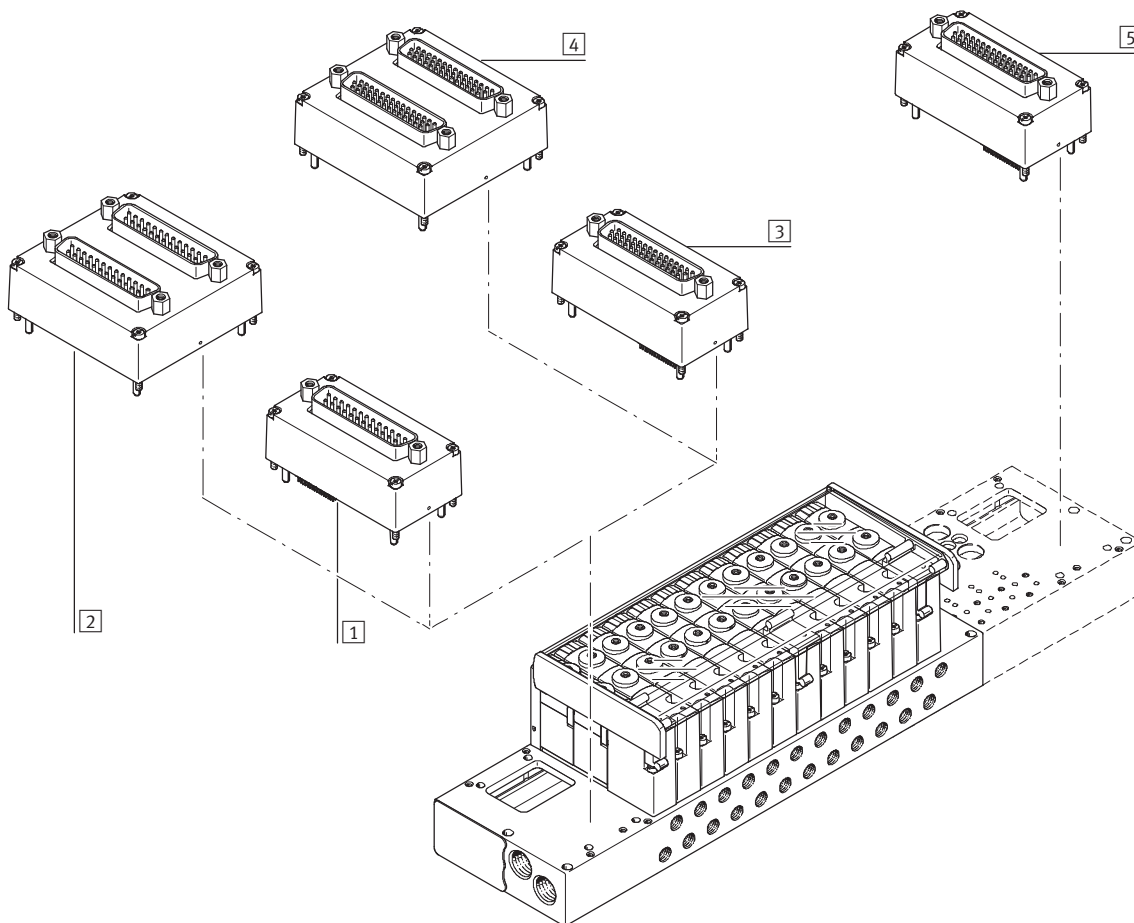
Valve terminal with Sub-D connection on top

- Sub-D connection type, code: SD
- Connection direction:
 - Left (code LT)
 - Right (code RT)

VTOC valve terminals with electrical multi-pin plug connection are available in gradations from 2 to max. 24 valve positions. A valve body occupies one valve position and contains two single solenoid 3/2-way valves.

A maximum of 48 solenoid coils can therefore be actuated via the electrical multi-pin plug connection.

A total of 19 pin allocation variants are available.



| Accessories | | |
|-------------|------|-------------------|
| | Code | Brief description |
| 1 | LT | 1-way, top left |
| 2 | | 2-way, top left |
| 3 | LT | 1-way, top left |
| 4 | | 2-way, top left |
| 5 | RT | 1-way, top right |

Valve terminals type 84 VTOC

Key features – Pneumatic components

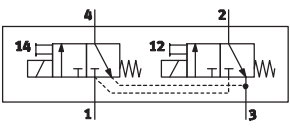
Design

The valves are mounted on the metal manifold rail using two screws. The use of 2x3/2 directional control valves per valve position guarantees optimum use of space with maximum performance. The valves only differ in

the type of manual override. The assembled and tested units or individual components as modules enable a custom configuration.

Blanking plates can be replaced by valves at a later date. The dimensions, mounting points and existing

pneumatic and electrical installations remain unchanged during this process.

| Valve function | | | |
|----------------|---|-------|---|
| Code | Circuit symbol | Width | Description |
| | | 10 mm | |
| K |  | ■ | 2x3/2-way valve, single solenoid <ul style="list-style-type: none"> • Mechanical spring return • Non-reversible |

Valve terminals type 84 VTOC

Key features – Pneumatic components

Fittings

Port 1/3

Wide range of connection sizes:

- Threaded connection M7, G $\frac{1}{8}$, $\frac{1}{8}$ NPT
- Push-in connector QS-6-, QS-8, QS- $\frac{3}{8}$ or QS- $\frac{1}{4}$ (compressed air supply)
- Push-in connector QS6, QS- $\frac{1}{4}$ or silencer (exhaust air)

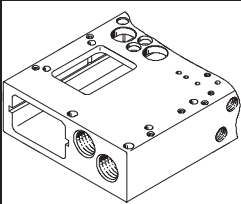
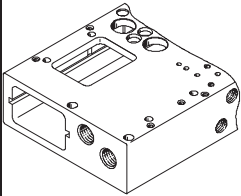
Variable connection types for port 1, compressed air supply and port 3, exhaust air:

- Straight
- Push-in L-fitting
- T-fitting

Flexible connection positions for the compressed air supply and exhaust:

- Both sides
- Left-hand
- Right-hand

Port 1/3

| Connection direction: front | Code | Description |
|--|------|--|
|  | -G18 | Manifold block G $\frac{1}{8}$ (diagram shows example of Sub-D electrical connection on left) Basis for design: <ul style="list-style-type: none"> • Push-in connector QS8 • Push-in connector QS-$\frac{3}{8}$" |
|  | -M7 | Manifold block M7 (diagram shows example of Sub-D electrical connection on left) Basis for design: <ul style="list-style-type: none"> • Push-in connector QS6 • Push-in connector QS-$\frac{1}{4}$" • Exhaust port via push-in fitting or silencer |

Valve terminals type 84 VTOC

Key features – Pneumatic components

Fittings

Port 2/4

Wide range of connection sizes:

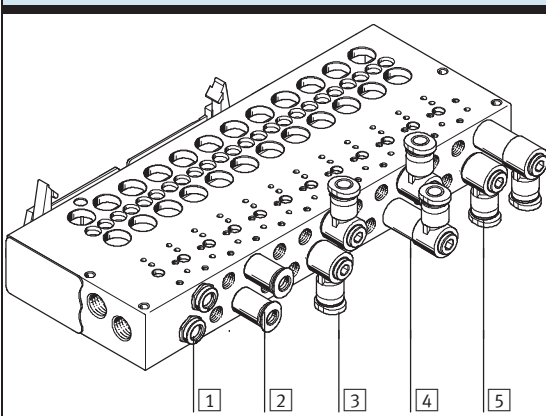
- Threaded connection M5
- 10-32 UNF
- Push-in connector QS-3, QS-4 or 1/8"

Outlet direction:

- Front
- Underneath

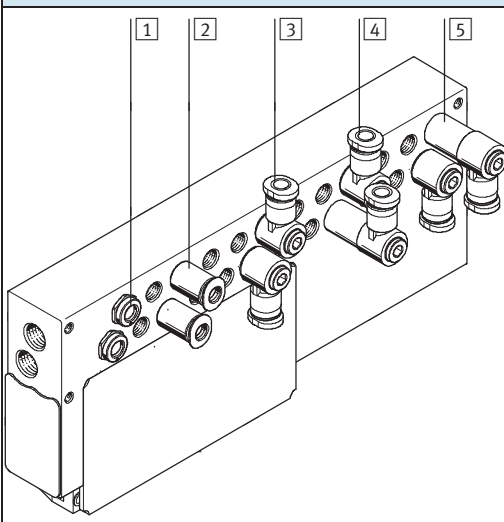
Connection on the valve (port 2/4)

Outlet direction to the front



| | Code | Description |
|---|------|---------------------------------------|
| 1 | X | Straight countersunk outlet (compact) |
| 2 | – | Straight outlet |
| 3 | FB | Angled output, upwards/downwards |
| 4 | FA | Angled outlet, upwards |
| 5 | FC | Angled outlet, downwards |

Outlet direction underneath



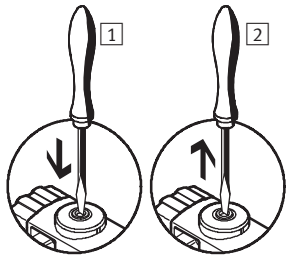
| | | |
|---|----|---------------------------------------|
| 1 | X | Straight countersunk outlet (compact) |
| 2 | U | Straight outlet |
| 3 | UB | Angled outlet, to the front/rear |
| 4 | UA | Angled outlet, to the front |
| 5 | UC | Angled outlet, to the rear |

Valve terminals type 84 VTOC

Key features – Display and operation

Manual override (MO)

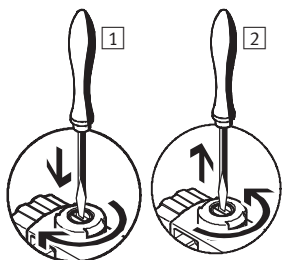
Manual override with automatic return (non-detenting)



1 Press in the stem of the manual override with a pointed object or screwdriver.
The valve switches.

2 Remove the pointed object or screwdriver.
Spring force pushes the manual override back.
Valve returns to normal position.

Manual override with lock (non-detenting/detenting)



1 Press in the stem of the manual override with a screwdriver until the valve switches and then turn the stem clockwise by 90° until the stop is reached.
The valve remains switched.

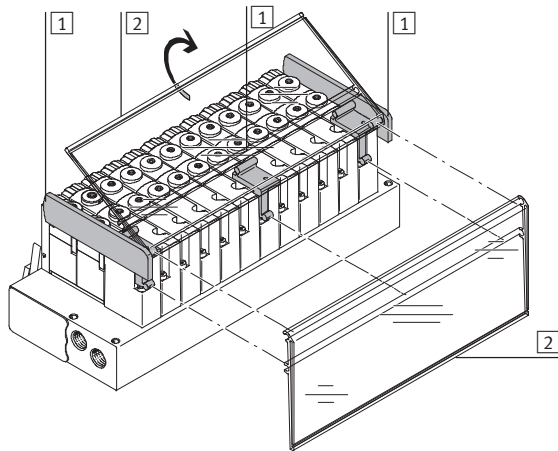
2 Turn the stem anti-clockwise by 90° until the stop is reached and then remove the screwdriver.
Spring force pushes the manual override back.
Valve returns to normal position.



Note

VTOC provides two valves with the same valve function but different types of manual override. There is no provision for subsequent modification of the type of manual override (e.g. by attaching a cover).

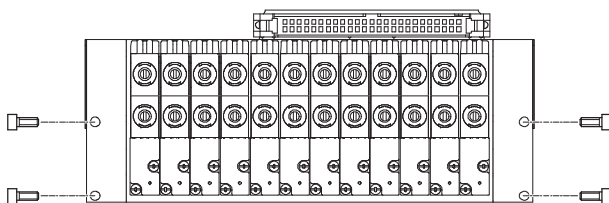
Identification system



1 Retainer for inscription label holder
The retainer for the inscription label holder is fastened to the valves with one screw and enables the inscription label holder to be mounted in two different directions. The retainers at the side are flanged to prevent the inscription label sliding out.

2 Inscription label holder
A transparent inscription label holder ASCF-H-L2 (code F/T in the order code) can be mounted for labelling the valves.
Inscription labels can be inserted in the holders for labelling purposes. Templates for printing the inscription label are available on request.

Mounting – Valve terminal



Sturdy terminal mounting thanks to:

- Four through-holes for wall mounting (hole \varnothing : 3.3 mm)
- Four holes with thread on the reverse side:
 - Thread M3
 - Thread M4

- Thread 8-32 UNC
- Thread 10-32 UNC-2B

Valve terminals type 84 VTOC

Key features – Electrical components

Electrical multi-pin plug connection

The following multi-pin plug connections are available for the valve terminal VTOC:

- Sub-D multi-pin plug connection (25-pin, 1-way or 2-way)
- Sub-D multi-pin plug connection (44-pin, 1-way or 2-way)
- Flat cable plug (26-pin, 1-way or 2-way)
- Flat cable plug (40-pin, 1-way or 2-way)
- Flat cable plug (50-pin, 1-way or 2-way)

Connection directions:

- Sub-D connection (top left/right)
- Flat cable (top/bottom left, top/bottom right)

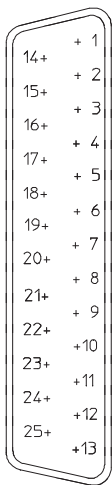
Control signals from the controller to the valve terminal are transmitted via the multi-core pre-assembled cable, which substantially reduces installation time.


The valves are switched by means of positive or negative logic (positive switching or negative switching). Mixed operation is not permitted. Each pin on the multi-pin plug can actuate exactly one solenoid coil. If the maximum configurable number of valve positions is 24, then

48 valves can be addressed with one solenoid coil (single solenoid). The multi-pin plug connection is available with 19 different pin allocation variants. Other variants on request.

Pin allocation – Sub-D plug, 25-pin

| Pin | -V2 | | -V3 | | -V1 | | -V4 | | | | -V12 | | | |
|-----|-----------------------|----|-----------------------|-----|-----------------------|----|-----------------------|----|-----------------------|----|-----------------------|----|------|----|
| | Sub-D A ¹⁾ | | Sub-D B ²⁾ | | Sub-D A ¹⁾ | | Sub-D B ²⁾ | | Sub-D A ¹⁾ | | Sub-D B ²⁾ | | | |
| 1 | VP1 | 14 | VP1 | 14- | VP1 | 12 | VP1 | 14 | VP13 | 14 | VP1 | 14 | VP1 | 14 |
| 2 | VP2 | 14 | VP2 | 14- | VP1 | 14 | VP1 | 12 | VP13 | 12 | VP1 | 12 | VP1 | 12 |
| 3 | VP3 | 14 | VP3 | 14- | VP2 | 12 | VP2 | 14 | VP14 | 14 | VP2 | 14 | VP2 | 14 |
| 4 | VP4 | 14 | VP4 | 14- | VP2 | 14 | VP2 | 12 | VP14 | 12 | VP2 | 12 | VP2 | 12 |
| 5 | VP5 | 14 | VP5 | 14- | VP3 | 12 | VP3 | 14 | VP15 | 14 | VP3 | 14 | VP3 | 14 |
| 6 | VP6 | 14 | VP6 | 14- | VP3 | 14 | VP3 | 12 | VP15 | 12 | VP3 | 12 | VP3 | 12 |
| 7 | VP7 | 14 | VP7 | 14- | VP4 | 12 | VP4 | 14 | VP16 | 14 | VP4 | 14 | VP4 | 14 |
| 8 | VP8 | 14 | VP8 | 14- | VP4 | 14 | VP4 | 12 | VP16 | 12 | VP4 | 12 | VP4 | 12 |
| 9 | VP9 | 14 | VP9 | 14- | VP5 | 12 | VP5 | 14 | VP17 | 14 | VP5 | 14 | VP5 | 14 |
| 10 | VP10 | 14 | VP10 | 14- | VP5 | 14 | VP5 | 12 | VP17 | 12 | VP5 | 12 | VP5 | 12 |
| 11 | VP11 | 14 | VP11 | 14- | VP6 | 12 | VP6 | 14 | VP18 | 14 | VP6 | 14 | VP6 | 14 |
| 12 | VP12 | 14 | VP12 | 14- | VP6 | 14 | VP6 | 12 | VP18 | 12 | VP6 | 12 | VP6 | 12 |
| 13 | Com | | Com+ | | VP7 | 12 | VP7 | 14 | VP19 | 14 | VP7 | 14 | VP7 | 14 |
| 14 | VP1 | 12 | VP1 | 12- | VP7 | 14 | VP7 | 12 | VP19 | 12 | VP7 | 12 | VP7 | 12 |
| 15 | VP2 | 12 | VP2 | 12- | VP8 | 12 | VP8 | 14 | VP20 | 14 | VP8 | 14 | VP8 | 14 |
| 16 | VP3 | 12 | VP3 | 12- | VP8 | 14 | VP8 | 12 | VP20 | 12 | VP8 | 12 | VP8 | 12 |
| 17 | VP4 | 12 | VP4 | 12- | VP9 | 12 | VP9 | 14 | VP21 | 14 | VP9 | 14 | VP9 | 14 |
| 18 | VP5 | 12 | VP5 | 12- | VP9 | 14 | VP9 | 12 | VP21 | 12 | VP9 | 12 | VP9 | 12 |
| 19 | VP6 | 12 | VP6 | 12- | VP10 | 12 | VP10 | 14 | VP22 | 14 | VP10 | 14 | VP10 | 14 |
| 20 | VP7 | 12 | VP7 | 12- | VP10 | 14 | VP10 | 12 | VP22 | 12 | VP10 | 12 | VP10 | 12 |
| 21 | VP8 | 12 | VP8 | 12- | VP11 | 12 | VP11 | 14 | VP23 | 14 | VP11 | 14 | VP11 | 14 |
| 22 | VP9 | 12 | VP9 | 12- | VP11 | 14 | VP11 | 12 | VP23 | 12 | VP11 | 12 | VP11 | 12 |
| 23 | VP10 | 12 | VP10 | 12- | VP12 | 12 | VP12 | 14 | VP24 | 14 | VP12 | 14 | VP12 | 14 |
| 24 | VP11 | 12 | VP11 | 12- | VP12 | 14 | VP12 | 12 | VP24 | 12 | VP12 | 12 | VP12 | 12 |
| 25 | VP12 | 12 | VP12 | 12- | Com | | Com 1-12 | | Com 13-24 | | - | - | - | - |



 **Note**
The drawing shows the view onto the Sub-D plug on the valve terminal.

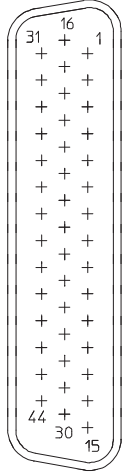
VP Valve position
1) Sub-D A, first Sub-D plug
2) Sub-D B, second Sub-D plug


Valve terminals type 84 VTOC

Key features – Electrical components

Pin allocation – Sub-D plug, 44-pin

| Pin | -V5 | | -V7 | | | | -V6 | | | | -V13 | |
|-----|------|----|-----------------------|----|-----------------------|----|-----------------------|-----|-----------------------|-----|------|----|
| | | | Sub-D A ¹⁾ | | Sub-D B ²⁾ | | Sub-D A ¹⁾ | | Sub-D B ²⁾ | | | |
| 1 | VP1 | 14 | VP1 | 14 | VP1 | 14 | VP1 | 14+ | VP1 | 14- | VP1 | 12 |
| 2 | VP1 | 12 | VP1 | 12 | VP1 | 12 | VP1 | 12+ | VP1 | 12- | VP1 | 14 |
| 3 | VP2 | 14 | VP2 | 14 | VP2 | 14 | VP2 | 14+ | VP2 | 14- | VP2 | 12 |
| 4 | VP2 | 12 | VP2 | 12 | VP2 | 12 | VP2 | 12+ | VP2 | 12- | VP2 | 14 |
| 5 | VP3 | 14 | VP3 | 14 | VP3 | 14 | VP3 | 14+ | VP3 | 14- | VP3 | 12 |
| 6 | VP3 | 12 | VP3 | 12 | VP3 | 12 | VP3 | 12+ | VP3 | 12- | VP3 | 14 |
| 7 | VP4 | 14 | VP4 | 14 | VP4 | 14 | VP4 | 14+ | VP4 | 14- | VP4 | 12 |
| 8 | VP4 | 12 | VP4 | 12 | VP4 | 12 | VP4 | 12+ | VP4 | 12- | VP4 | 14 |
| 9 | VP5 | 14 | VP5 | 14 | VP5 | 14 | VP5 | 14+ | VP5 | 14- | VP5 | 12 |
| 10 | VP5 | 12 | VP5 | 12 | VP5 | 12 | VP5 | 12+ | VP5 | 12- | VP5 | 14 |
| 11 | VP6 | 14 | VP6 | 14 | VP6 | 14 | VP6 | 14+ | VP6 | 14- | VP6 | 12 |
| 12 | VP6 | 12 | VP6 | 12 | VP6 | 12 | VP6 | 12+ | VP6 | 12- | VP6 | 14 |
| 13 | VP7 | 14 | VP7 | 14 | VP7 | 14 | VP7 | 14+ | VP7 | 14- | VP7 | 12 |
| 14 | VP7 | 12 | VP7 | 12 | VP7 | 12 | VP7 | 12+ | VP7 | 12- | VP7 | 14 |
| 15 | VP8 | 14 | VP8 | 14 | VP8 | 14 | VP8 | 14+ | VP8 | 14- | VP8 | 12 |
| 16 | VP8 | 12 | VP8 | 12 | VP8 | 12 | VP8 | 12+ | VP8 | 12- | VP8 | 14 |
| 17 | VP9 | 14 | VP9 | 14 | VP9 | 14 | VP9 | 14+ | VP9 | 14- | VP9 | 12 |
| 18 | VP9 | 12 | VP9 | 12 | VP9 | 12 | VP9 | 12+ | VP9 | 12- | VP9 | 14 |
| 19 | VP10 | 14 | VP10 | 14 | VP10 | 14 | VP10 | 14+ | VP10 | 14- | VP10 | 12 |
| 20 | VP10 | 12 | VP10 | 12 | VP10 | 12 | VP10 | 12+ | VP10 | 12- | VP10 | 14 |
| 21 | VP11 | 14 | VP11 | 14 | VP11 | 14 | VP11 | 14+ | VP11 | 14- | VP11 | 12 |
| 22 | VP11 | 12 | VP11 | 12 | VP11 | 12 | VP11 | 12+ | VP11 | 12- | VP11 | 14 |
| 23 | VP12 | 14 | VP12 | 14 | VP12 | 14 | VP12 | 14+ | VP12 | 14- | VP12 | 12 |
| 24 | VP12 | 12 | VP12 | 12 | VP12 | 12 | VP12 | 12+ | VP12 | 12- | VP12 | 14 |
| 25 | VP13 | 14 | VP13 | 14 | VP13 | 14 | VP13 | 14+ | VP13 | 14- | VP13 | 12 |
| 26 | VP13 | 12 | VP13 | 12 | VP13 | 12 | VP13 | 12+ | VP13 | 12- | VP13 | 14 |
| 27 | VP14 | 14 | VP14 | 14 | VP14 | 14 | VP14 | 14+ | VP14 | 14- | VP14 | 12 |
| 28 | VP14 | 12 | VP14 | 12 | VP14 | 12 | VP14 | 12+ | VP14 | 12- | VP14 | 14 |
| 29 | VP15 | 14 | VP15 | 14 | VP15 | 14 | VP15 | 14+ | VP15 | 14- | VP15 | 12 |
| 30 | VP15 | 12 | VP15 | 12 | VP15 | 12 | VP15 | 12+ | VP15 | 12- | VP15 | 14 |
| 31 | VP16 | 14 | VP16 | 14 | VP16 | 14 | VP16 | 14+ | VP16 | 14- | VP16 | 12 |
| 32 | VP16 | 12 | VP16 | 12 | VP16 | 12 | VP16 | 12+ | VP16 | 12- | VP16 | 14 |
| 33 | VP17 | 14 | VP17 | 14 | VP17 | 14 | VP17 | 14+ | VP17 | 14- | VP17 | 12 |
| 34 | VP17 | 12 | VP17 | 12 | VP17 | 12 | VP17 | 12+ | VP17 | 12- | VP17 | 14 |
| 35 | VP18 | 14 | VP18 | 14 | VP18 | 14 | VP18 | 14+ | VP18 | 14- | VP18 | 12 |
| 36 | VP18 | 12 | VP18 | 12 | VP18 | 12 | VP18 | 12+ | VP18 | 12- | VP18 | 14 |
| 37 | VP19 | 14 | VP19 | 14 | VP19 | 14 | VP19 | 14+ | VP19 | 14- | VP19 | 12 |
| 38 | VP19 | 12 | VP19 | 12 | VP19 | 12 | VP19 | 12+ | VP19 | 12- | VP19 | 14 |
| 39 | VP20 | 14 | VP20 | 14 | VP20 | 14 | VP20 | 14+ | VP20 | 14- | VP20 | 12 |
| 40 | VP20 | 12 | VP20 | 12 | VP20 | 12 | VP20 | 12+ | VP20 | 12- | VP20 | 14 |
| 41 | VP21 | 14 | VP21 | 14 | VP21 | 14 | VP21 | 14+ | VP21 | 14- | Com | |
| 42 | VP21 | 12 | VP21 | 12 | VP21 | 12 | VP21 | 12+ | VP21 | 12- | Com | |
| 43 | Com | | VP22 | 14 | VP22 | 14 | VP22 | 14+ | VP22 | 14- | Com | |
| 44 | Com | | VP22 | 12 | VP22 | 12 | VP22 | 12+ | VP22 | 12- | Com | |

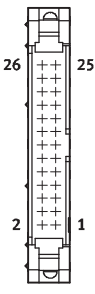



 **Note**
The drawing shows the view onto the Sub-D plug on the valve terminal.

VP Valve position
1) Sub-D A, first Sub-D plug
2) Sub-D B, second Sub-D plug

Valve terminals type 84 VTOC

Key features – Electrical components

| Pin allocation – Flat cable, 26-pin | | | | | | | | | | | | | |
|---|-----|------|-----|--------|-----|--------|-----|------|-----|--------|-----|--------|----|
| | Pin | -V14 | | -V15 | | | | -V8 | | -V17 | | | |
| | | | | Plug 1 | | Plug 2 | | | | Plug 1 | | Plug 2 | |
|  | 1 | VP1 | 14 | VP1 | 14 | VP13 | 14 | VP1 | 14 | VP12 | 14 | VP24 | 14 |
| | 2 | VP1 | 12 | VP1 | 12 | VP13 | 12 | VP1 | 12 | VP12 | 12 | VP24 | 12 |
| | 3 | VP2 | 14 | VP2 | 14 | VP14 | 14 | VP2 | 14 | VP11 | 14 | VP23 | 14 |
| | 4 | VP2 | 12 | VP2 | 12 | VP14 | 12 | VP2 | 12 | VP11 | 12 | VP23 | 12 |
| | 5 | VP3 | 14 | VP3 | 14 | VP15 | 14 | VP3 | 14 | VP10 | 14 | VP22 | 14 |
| | 6 | VP3 | 12 | VP3 | 12 | VP15 | 12 | VP3 | 12 | VP10 | 12 | VP22 | 12 |
| | 7 | VP4 | 14 | VP4 | 14 | VP16 | 14 | VP4 | 14 | VP9 | 14 | VP21 | 14 |
| | 8 | VP4 | 12 | VP4 | 12 | VP16 | 12 | VP4 | 12 | VP9 | 12 | VP21 | 12 |
| | 9 | VP5 | 14 | VP5 | 14 | VP17 | 14 | VP5 | 14 | VP8 | 14 | VP20 | 14 |
| | 10 | VP5 | 12 | VP5 | 12 | VP17 | 12 | VP5 | 12 | VP8 | 12 | VP20 | 12 |
| | 11 | VP6 | 14 | VP6 | 14 | VP18 | 14 | VP6 | 14 | VP7 | 14 | VP19 | 14 |
| | 12 | VP6 | 12 | VP6 | 12 | VP18 | 12 | VP6 | 12 | VP7 | 12 | VP19 | 12 |
| | 13 | VP7 | 14 | VP7 | 14 | VP19 | 14 | VP7 | 14 | VP6 | 14 | VP18 | 14 |
| | 14 | VP7 | 12 | VP7 | 12 | VP19 | 12 | VP7 | 12 | VP6 | 12 | VP18 | 12 |
| | 15 | VP8 | 14 | VP8 | 14 | VP20 | 14 | VP8 | 14 | VP5 | 14 | VP17 | 14 |
| | 16 | VP8 | 12 | VP8 | 12 | VP20 | 12 | VP8 | 12 | VP5 | 12 | VP17 | 12 |
| | 17 | VP9 | 14 | VP9 | 14 | VP21 | 14 | VP9 | 14 | VP4 | 14 | VP16 | 14 |
| | 18 | VP9 | 12 | VP9 | 12 | VP21 | 12 | VP9 | 12 | VP4 | 12 | VP16 | 12 |
| | 19 | VP10 | 14 | VP10 | 14 | VP22 | 14 | VP10 | 14 | VP3 | 14 | VP15 | 14 |
| | 20 | VP10 | 14 | VP10 | 14 | VP22 | 12 | VP10 | 14 | VP3 | 12 | VP15 | 12 |
| | 21 | VP11 | 14 | VP11 | 14 | VP23 | 14 | VP11 | 14 | VP2 | 14 | VP14 | 14 |
| | 22 | VP11 | 12 | VP21 | 12 | VP23 | 12 | VP11 | 12 | VP2 | 12 | VP14 | 12 |
| | 23 | VP12 | 14 | VP12 | 14 | VP24 | 14 | VP12 | 14 | VP1 | 14 | VP13 | 14 |
| | 24 | VP12 | 12 | VP12 | 12 | VP24 | 12 | VP12 | 12 | VP1 | 12 | VP13 | 12 |
| 25 | Com | | Com | | Com | | Com | | Com | | Com | | |
| 26 | Com | | Com | | Com | | Com | | Com | | Com | | |

 Note
The drawing shows the view onto the flat cable plug on the valve terminal.

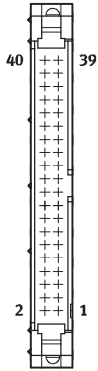
VP Valve position


Valve terminals type 84 VTOC

Key features – Electrical components

Pin allocation – Flat cable, 40-pin

| Pin | -V9 | | -V18 | | | |
|-----|------|-----|--------|-----|--------|-----|
| | | | Plug 1 | | Plug 2 | |
| 1 | VP10 | 12+ | VP10 | 12+ | VP11 | 14+ |
| 2 | VP10 | 12- | VP10 | 12- | VP11 | 14- |
| 3 | VP10 | 14+ | VP10 | 14+ | VP11 | 12+ |
| 4 | VP10 | 14- | VP10 | 14- | VP11 | 12- |
| 5 | VP9 | 12+ | VP9 | 12+ | VP12 | 14+ |
| 6 | VP9 | 12- | VP9 | 12- | VP12 | 14- |
| 7 | VP9 | 14+ | VP9 | 14+ | VP12 | 12+ |
| 8 | VP9 | 14- | VP9 | 14- | VP12 | 12- |
| 9 | VP8 | 12+ | VP8 | 12+ | VP13 | 14+ |
| 10 | VP8 | 12- | VP8 | 12- | VP13 | 14- |
| 11 | VP8 | 14+ | VP8 | 14+ | VP13 | 12+ |
| 12 | VP8 | 14- | VP8 | 14- | VP13 | 12- |
| 13 | VP7 | 12+ | VP7 | 12+ | VP14 | 14+ |
| 14 | VP7 | 12- | VP7 | 12- | VP14 | 14- |
| 15 | VP7 | 14+ | VP7 | 14+ | VP14 | 12+ |
| 16 | VP7 | 14- | VP7 | 14- | VP14 | 12- |
| 17 | VP6 | 12+ | VP6 | 12+ | VP15 | 14+ |
| 18 | VP6 | 12- | VP6 | 12- | VP15 | 14- |
| 19 | VP6 | 14+ | VP6 | 14+ | VP15 | 12+ |
| 20 | VP6 | 14- | VP6 | 14- | VP15 | 12- |
| 21 | VP5 | 12+ | VP5 | 12+ | VP16 | 14+ |
| 22 | VP5 | 12- | VP5 | 12- | VP16 | 14- |
| 23 | VP5 | 14+ | VP5 | 14+ | VP16 | 12+ |
| 24 | VP5 | 14- | VP5 | 14- | VP16 | 12- |
| 25 | VP4 | 12+ | VP4 | 12+ | VP17 | 14+ |
| 26 | VP4 | 12- | VP4 | 12- | VP17 | 14- |
| 27 | VP4 | 14+ | VP4 | 14+ | VP17 | 12+ |
| 28 | VP4 | 14- | VP4 | 14- | VP17 | 12- |
| 29 | VP3 | 12+ | VP3 | 12+ | VP18 | 14+ |
| 30 | VP3 | 12- | VP3 | 12- | VP18 | 14- |
| 31 | VP3 | 14+ | VP3 | 14+ | VP18 | 12+ |
| 32 | VP3 | 14- | VP3 | 14- | VP18 | 12- |
| 33 | VP2 | 12+ | VP2 | 12+ | VP19 | 14+ |
| 34 | VP2 | 12- | VP2 | 12- | VP19 | 14- |
| 35 | VP2 | 14+ | VP2 | 14+ | VP19 | 12+ |
| 36 | VP2 | 14- | VP2 | 14- | VP19 | 12- |
| 37 | VP1 | 12+ | VP1 | 12+ | VP20 | 14+ |
| 38 | VP1 | 12- | VP1 | 12- | VP20 | 14- |
| 39 | VP1 | 14+ | VP1 | 14+ | VP20 | 12+ |
| 40 | VP1 | 14- | VP1 | 14- | VP20 | 12- |



 Note

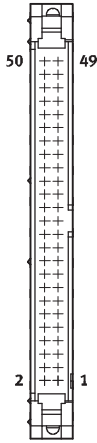
The drawing shows the view onto the flat cable plug on the valve terminal.

VP Valve position

Valve terminals type 84 VTOC

Key features – Electrical components

| Pin allocation – Flat cable, 50-pin | | | | | | | | | | | | |
|-------------------------------------|------|----|--------|----|--------|----|------|----|--------|----|--------|----|
| Pin | -V11 | | -V16 | | | | -V10 | | -V19 | | | |
| | | | Plug 1 | | Plug 2 | | | | Plug 1 | | Plug 2 | |
| 1 | VP1 | 12 | VP1 | 12 | VP24 | 12 | VP12 | 12 | VP12 | 12 | VP13 | 12 |
| 2 | VP1 | 12 | VP1 | 12 | VP24 | 12 | VP12 | 12 | VP12 | 12 | VP13 | 12 |
| 3 | VP1 | 14 | VP1 | 14 | VP24 | 14 | VP12 | 14 | VP12 | 14 | VP13 | 14 |
| 4 | VP1 | 14 | VP1 | 14 | VP24 | 14 | VP12 | 14 | VP12 | 14 | VP13 | 14 |
| 5 | VP2 | 12 | VP2 | 12 | VP23 | 12 | VP11 | 12 | VP11 | 12 | VP14 | 12 |
| 6 | VP2 | 12 | VP2 | 12 | VP23 | 12 | VP11 | 12 | VP11 | 12 | VP14 | 12 |
| 7 | VP2 | 14 | VP2 | 14 | VP23 | 14 | VP11 | 14 | VP11 | 14 | VP14 | 14 |
| 8 | VP2 | 14 | VP2 | 14 | VP23 | 14 | VP11 | 14 | VP11 | 14 | VP14 | 14 |
| 9 | VP3 | 12 | VP3 | 12 | VP22 | 12 | VP10 | 12 | VP10 | 12 | VP15 | 12 |
| 10 | VP3 | 12 | VP3 | 12 | VP22 | 12 | VP10 | 12 | VP10 | 12 | VP15 | 12 |
| 11 | VP3 | 14 | VP3 | 14 | VP22 | 14 | VP10 | 14 | VP10 | 14 | VP15 | 14 |
| 12 | VP3 | 14 | VP3 | 14 | VP22 | 14 | VP10 | 14 | VP10 | 14 | VP15 | 14 |
| 13 | VP4 | 12 | VP4 | 12 | VP21 | 12 | VP9 | 12 | VP9 | 12 | VP16 | 12 |
| 14 | VP4 | 12 | VP4 | 12 | VP21 | 12 | VP9 | 12 | VP9 | 12 | VP16 | 12 |
| 15 | VP4 | 14 | VP4 | 14 | VP21 | 14 | VP9 | 14 | VP9 | 14 | VP16 | 14 |
| 16 | VP4 | 14 | VP4 | 14 | VP21 | 14 | VP9 | 14 | VP9 | 14 | VP16 | 14 |
| 17 | VP5 | 12 | VP5 | 12 | VP20 | 12 | VP8 | 12 | VP8 | 12 | VP17 | 12 |
| 18 | VP5 | 12 | VP5 | 12 | VP20 | 12 | VP8 | 12 | VP8 | 12 | VP17 | 12 |
| 19 | VP5 | 14 | VP5 | 14 | VP20 | 14 | VP8 | 14 | VP8 | 14 | VP17 | 14 |
| 20 | VP5 | 14 | VP5 | 14 | VP20 | 14 | VP8 | 14 | VP8 | 14 | VP17 | 14 |
| 21 | VP6 | 12 | VP6 | 12 | VP19 | 12 | VP7 | 12 | VP7 | 12 | VP18 | 12 |
| 22 | VP6 | 12 | VP6 | 12 | VP19 | 12 | VP7 | 12 | VP7 | 12 | VP18 | 12 |
| 23 | VP6 | 14 | VP6 | 14 | VP19 | 14 | VP7 | 14 | VP7 | 14 | VP18 | 14 |
| 24 | VP6 | 14 | VP6 | 14 | VP19 | 14 | VP7 | 14 | VP7 | 14 | VP18 | 14 |
| 25 | VP7 | 12 | VP7 | 12 | VP18 | 12 | VP6 | 12 | VP6 | 12 | VP19 | 12 |
| 26 | VP7 | 12 | VP7 | 12 | VP18 | 12 | VP6 | 12 | VP6 | 12 | VP19 | 12 |
| 27 | VP7 | 14 | VP7 | 14 | VP18 | 14 | VP6 | 14 | VP6 | 14 | VP19 | 14 |
| 28 | VP7 | 14 | VP7 | 14 | VP18 | 14 | VP6 | 14 | VP6 | 14 | VP19 | 14 |
| 29 | VP8 | 12 | VP8 | 12 | VP17 | 12 | VP5 | 12 | VP5 | 12 | VP20 | 12 |
| 30 | VP8 | 12 | VP8 | 12 | VP17 | 12 | VP5 | 12 | VP5 | 12 | VP20 | 12 |
| 31 | VP8 | 14 | VP8 | 14 | VP17 | 14 | VP5 | 14 | VP5 | 14 | VP20 | 14 |
| 32 | VP8 | 14 | VP8 | 14 | VP17 | 14 | VP5 | 14 | VP5 | 14 | VP20 | 14 |
| 33 | VP9 | 12 | VP9 | 12 | VP16 | 12 | VP4 | 12 | VP4 | 12 | VP21 | 12 |
| 34 | VP9 | 12 | VP9 | 12 | VP16 | 12 | VP4 | 12 | VP4 | 12 | VP21 | 12 |
| 35 | VP9 | 14 | VP9 | 14 | VP16 | 14 | VP4 | 14 | VP4 | 14 | VP21 | 14 |
| 36 | VP9 | 14 | VP9 | 14 | VP16 | 14 | VP4 | 14 | VP4 | 14 | VP21 | 14 |
| 37 | VP10 | 12 | VP10 | 12 | VP15 | 12 | VP3 | 12 | VP3 | 12 | VP22 | 12 |
| 38 | VP10 | 12 | VP10 | 12 | VP15 | 12 | VP3 | 12 | VP3 | 12 | VP22 | 12 |
| 39 | VP10 | 14 | VP10 | 14 | VP15 | 14 | VP3 | 14 | VP3 | 14 | VP22 | 14 |
| 40 | VP10 | 14 | VP10 | 14 | VP15 | 14 | VP3 | 14 | VP3 | 14 | VP22 | 14 |
| 41 | VP11 | 12 | VP11 | 12 | VP14 | 12 | VP2 | 12 | VP2 | 12 | VP23 | 12 |
| 42 | VP11 | 12 | VP11 | 12 | VP14 | 12 | VP2 | 12 | VP2 | 12 | VP23 | 12 |
| 43 | VP11 | 14 | VP11 | 14 | VP14 | 14 | VP2 | 14 | VP2 | 14 | VP23 | 14 |
| 44 | VP11 | 14 | VP11 | 14 | VP14 | 14 | VP2 | 14 | VP2 | 14 | VP23 | 14 |
| 45 | VP12 | 12 | VP12 | 12 | VP13 | 12 | VP1 | 12 | VP1 | 12 | VP24 | 12 |
| 46 | VP12 | 12 | VP12 | 12 | VP13 | 12 | VP1 | 12 | VP1 | 12 | VP24 | 12 |
| 47 | VP12 | 14 | VP12 | 14 | VP13 | 14 | VP1 | 14 | VP1 | 14 | VP24 | 14 |
| 48 | VP12 | 14 | VP12 | 14 | VP13 | 14 | VP1 | 14 | VP1 | 14 | VP24 | 14 |
| 49 | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - |



 Note

The drawing shows the view onto the flat cable plug on the valve terminal.


VP Valve position

Valve terminals type 84 VTOC

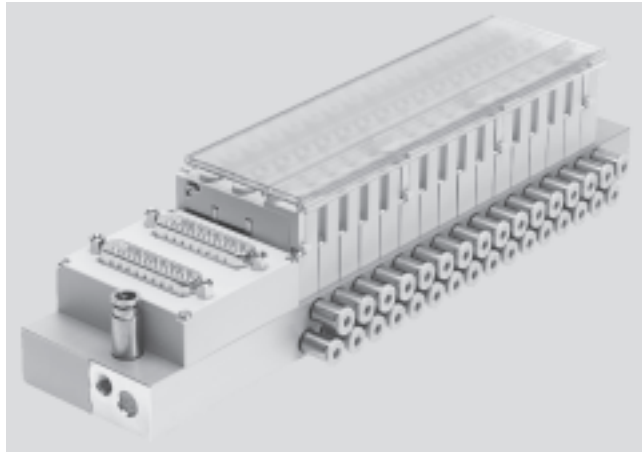
Technical data

FESTO

 Voltage
24 V DC

 Pressure
0 ... +8 bar

 Temperature range
-5 ... +50 °C



| General technical data | | | |
|--------------------------------|--|---------|----|
| Valve function | 2x3/2-way valve, single solenoid, closed | | |
| Design | Poppet valve with spring return | | |
| Sealing principle | Soft | | |
| Actuation type | Electrical | | |
| Reset method | Mechanical spring | | |
| Type of control | Direct | | |
| Direction of flow | Non-reversible | | |
| Exhaust function | No flow control | | |
| Manual override | Non-detenting, detenting and non-detenting | | |
| Type of mounting | Via through-hole or thread | | |
| Width | [mm] | 10 | |
| Nominal size | [mm] | 0.65 | |
| Max. number of valve positions | 24 | | |
| Standard nominal flow rate | qnN | [l/min] | 10 |

| Operating and environmental conditions | | | |
|--|--|------------|--|
| Operating medium | Dried and filtered compressed air, lubricated or unlubricated, grade of filtration 40 µm | | |
| Operating pressure | [bar] | 0 ... +8 | |
| Ambient temperature | [°C] | -5 ... +50 | |
| Temperature of medium | [°C] | +5 ... +50 | |
| Note on materials | RoHS-compliant | | |

| Product weight | |
|------------------------------------|-----|
| Approx. weight | [g] |
| Valve | 30 |
| Blanking plate for vacant position | 20 |

Valve terminals type 84 VTOC

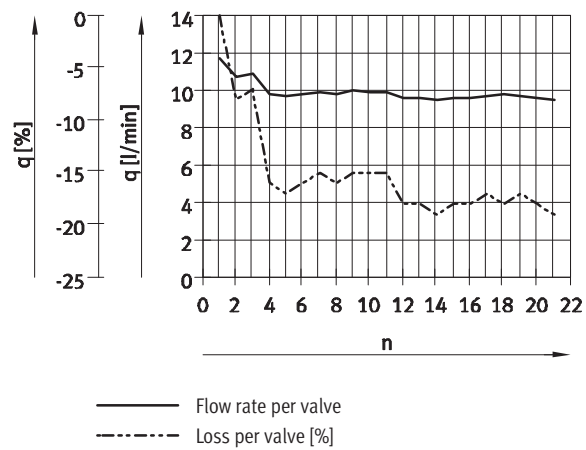
Technical data

| Electrical data | | |
|----------------------------------|--------|-----------------------------------|
| Electrical actuation | | Multi-pin plug (Sub-D/flat cable) |
| Nominal operating voltage | [V DC] | 24 |
| Permissible voltage fluctuations | [%] | ±10 |
| Protection class to EN 60529 | | IP40 |
| Duty cycle | [%] | 100 |

| Valve switching times | |
|-----------------------|------|
| | [ms] |
| On | 4.7 |
| Off | 5.2 |

Flow rate with multiple valves switched simultaneously (tolerance ± 20%)

Flow rate q per valve n

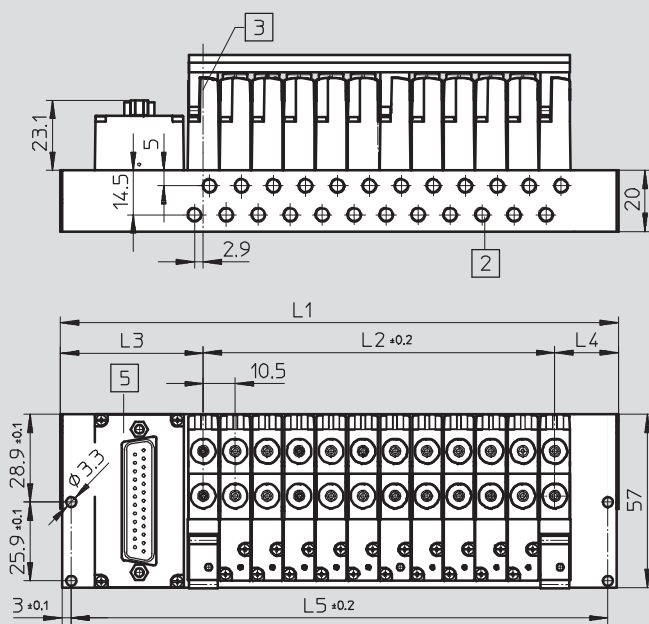


Valve terminals type 84 VTOC

Technical data

Dimensions – Sub-D, single or double

Download CAD data → www.festo.com



- 1 Ports 1 and 3, left and right, M7 or G1/8
- 2 Ports 2 and 4, front or underneath, M5 or 10-32 UNF
- 3 Centre of first valve position
- 4 Inscription label
- 5 Electrical connection via Sub-D, single or double (left or right)

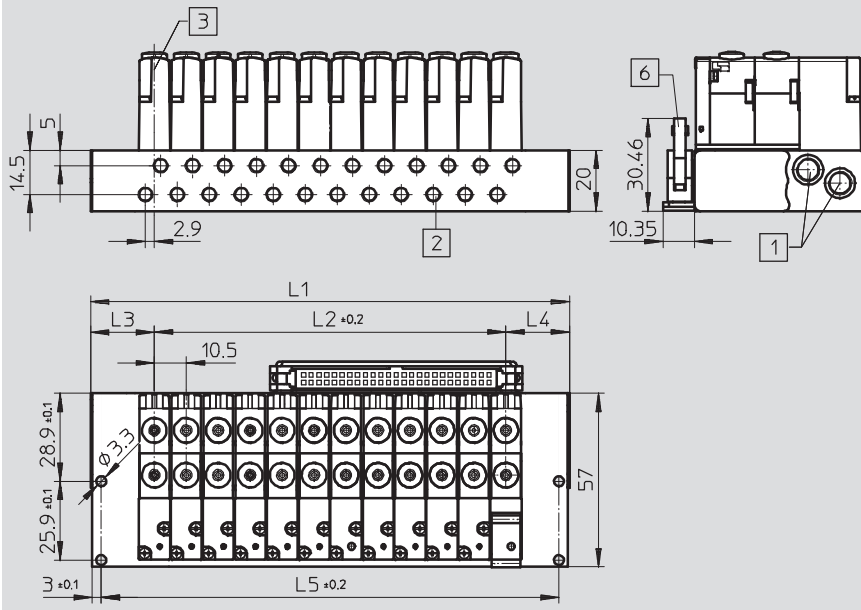
| | Comment | Electrical connection on top, single | | | Electrical connection on top, double | | |
|----------------------|---|--------------------------------------|------------|------------|--------------------------------------|------------|------------|
| Pneumatic connection | – | M7 | G1/8 | G1/8 | M7 | G1/8 | G1/8 |
| Through-hole | – | ∅ 3.3 | ∅ 3.3 | M4 | ∅ 3.3 | ∅ 3.3 | M4 |
| L1 | – | L2+L3+L4 | L2+L3+L4 | L2+L3+L4 | L2+L3+L4 | L2+L3+L4 | L2+L3+L4 |
| L2 | – | (n-1)×10.5 | (n-1)×10.5 | (n-1)×10.5 | (n-1)×10.5 | (n-1)×10.5 | (n-1)×10.5 |
| L3 | Distance from centre of first valve position to outer edge on left-hand side | 41.4 | 46.4 | 36.9 | 66.4 | 71.4 | 66.4 |
| | Sub-D connection, 44-pin, top right, 1-way: Distance from centre of first valve position to outer edge on left-hand side | 14.4 | 20.4 | 20.4 | – | – | – |
| L4 | Distance from centre of last valve position to outer edge on right-hand side | 14.4 | 20.4 | 20.4 | – | – | – |
| | Sub-D connection, 44-pin, top right, 1-way: Distance from centre of last valve position to outer edge on right-hand side | 41.4 | 46.4 | 36.9 | – | – | – |
| L5 | – | (L1-6) | (L1-6) | (L1-6) | (L1-6) | (L1-6) | (L1-6) |

Valve terminals type 84 VTOC

Technical data

Dimensions – Flat cable on top

Download CAD data → www.festo.com



- 1 Ports 1 and 3, left and right, M7 or G $\frac{1}{8}$
- 2 Ports 2 and 4, front or underneath, M5 or 10-32 UNF
- 3 Centre of first valve position
- 6 Electrical connection via flat cable

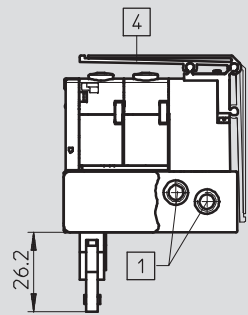
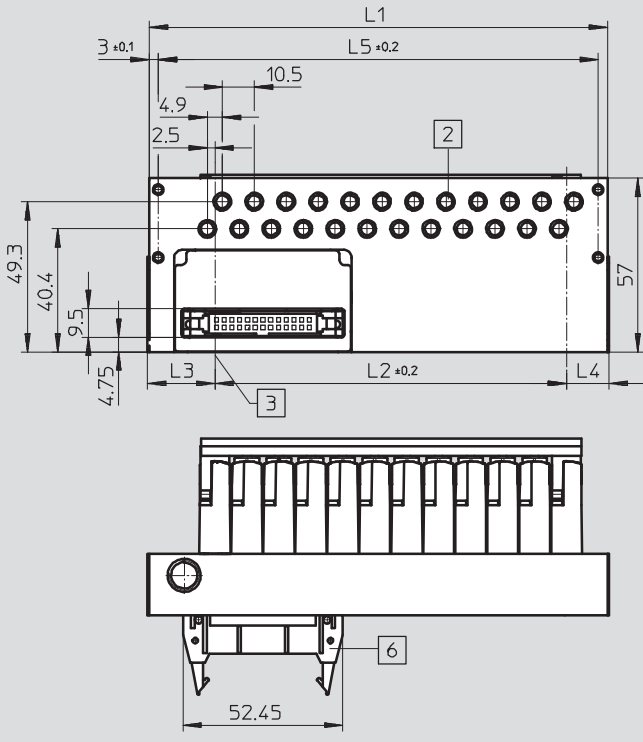
| | Comment | | | |
|----------------------|--|------------|-----------------|-----------------|
| Pneumatic connection | – | M7 | G $\frac{1}{8}$ | G $\frac{1}{8}$ |
| Through-hole | – | ∅ 3.3 | ∅ 3.3 | M4 |
| L1 | – | L2+L3+L4 | L2+L3+L4 | L2+L3+L4 |
| L2 | – | (n-1)×10.5 | (n-1)×10.5 | (n-1)×10.5 |
| L3 | Distance from centre of first valve position to outer edge on left-hand side | 41.4 | 46.4 | 36.9 |
| L4 | Distance from centre of last valve position to outer edge on right-hand side | 14.4 | 20.4 | 20.4 |
| L5 | – | (L1-6) | (L1-6) | (L1-6) |

Valve terminals type 84 VTOC

Technical data

Dimensions – Flat cable underneath

Download CAD data → www.festo.com



- 1 Ports 1 and 3, left and right, M7 or G $\frac{1}{8}$
- 2 Ports 2 and 4, front or underneath, M5 or 10-32 UNF
- 3 Centre of first valve position
- 4 Inscription label
- 6 Electrical connection via flat cable underneath

| | Comment | | | | | |
|----------------------|--|------------|------------|-----------------------|----------------------|----------------------|
| Pneumatic connection | - | M7 left | M7 front | G $\frac{1}{8}$ front | G $\frac{1}{8}$ left | G $\frac{1}{8}$ left |
| Through-hole | - | ∅ 3.3 | ∅ 3.3 | ∅ 3.3 | ∅ 3.3 | M4 |
| L1 | - | L2+L3+L4 | L2+L3+L4 | L2+L3+L4 | | |
| L2 | - | (n-1)x10.5 | (n-1)x10.5 | (n-1)x10.5 | | |
| L3 | Distance from centre of first valve position to outer edge on left-hand side | 14.4 | 25.55 | 21.6 | 20.4 | 20.4 |
| L4 | Distance from centre of last valve position to outer edge on right-hand side | 14.4 | 28.55 | 20.4 | 20.4 | 20.4 |
| L5 | - | (L1-6) | (L1-6) | (L1-6) | (L1-6) | (L1-6) |

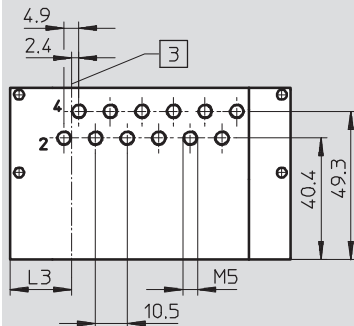
Valve terminals type 84 VTOC

Technical data

Dimensions – Pneumatic connections

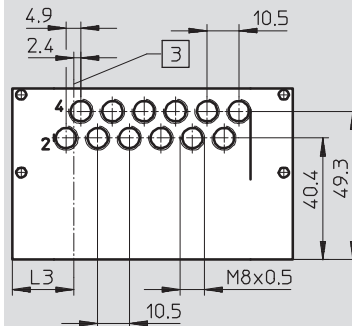
Download CAD data → www.festo.com

Ports 2 and 4 underneath, M5 (10-32 UNF)



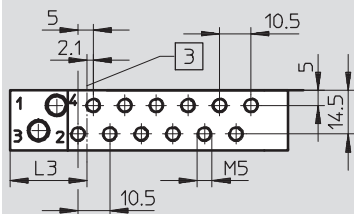
3 Centre of first valve position

Ports 2 and 4 underneath, compact



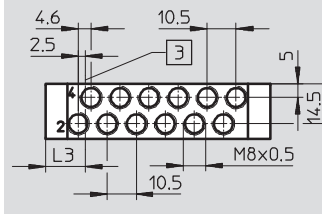
3 Centre of first valve position

Ports 2 and 4 at front, M5 (10-32 UNF)



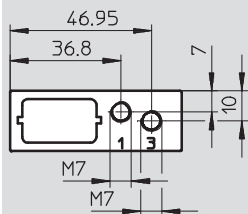
3 Centre of first valve position

Ports 2 and 4 at front, compact

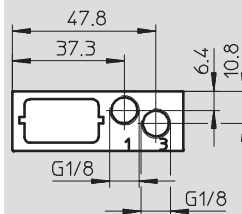


3 Centre of first valve position

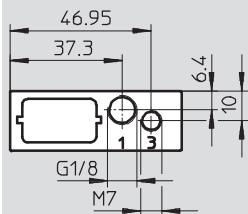
Ports 1 and 3, M7 left



Ports 1 and 3, G1/8 left



Ports 1 and 3, G1/8, left with mounting hole M4



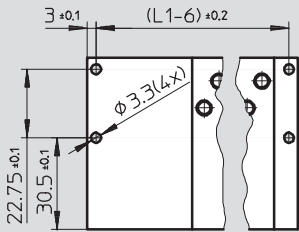
Valve terminals type 84 VTOC

Technical data

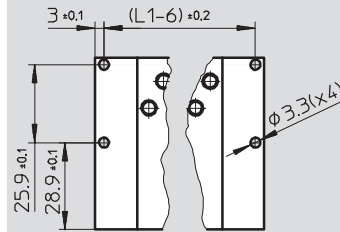
Dimensions – Mounting hole

Download CAD data → www.festo.com

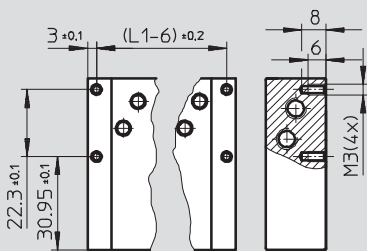
∅ 3.3 underneath, ports 1 and 3, M7



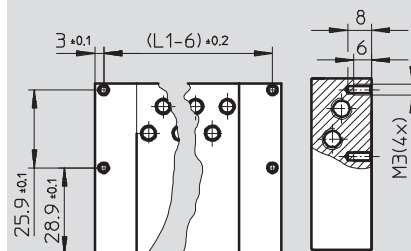
∅ 3.3 underneath, ports 1 and 3, G1/8



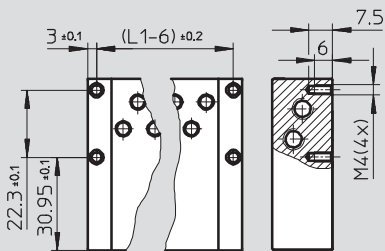
M3 underneath, ports 1 and 3, M7



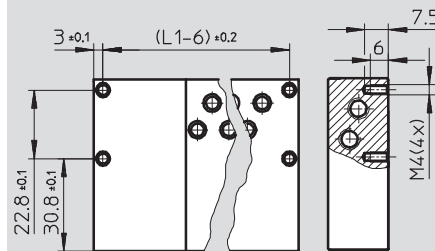
M3 underneath, ports 1 and 3, G1/8



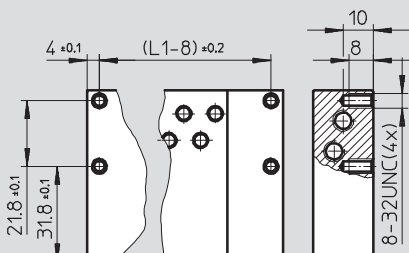
M4 underneath, ports 1 and 3, M7



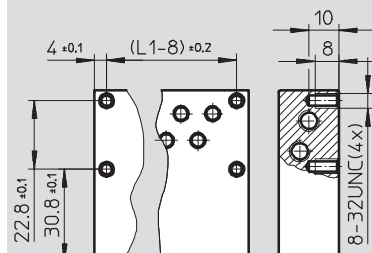
M4 or 8-32UNC underneath, ports 1 and 3, G1/8



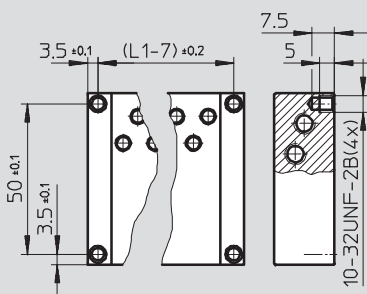
8-32UNC underneath, ports 1 and 3, M7



8-32UNC underneath, ports 1 and 3, G1/8

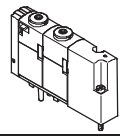
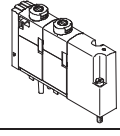
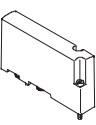

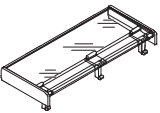
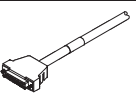


10-32UNF-2B underneath, ports 1 and 3, M7 or G1/8




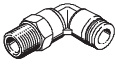

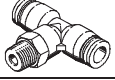
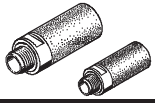
Valve terminals type 84 VTOC

Accessories

| Ordering data | | | | |
|---|------------------------------------|---|--------------------|--------------------------------------|
| | Code | Valve function | Part No. | Type |
| Solenoid valves | | | | |
|  | K | 2x3/2-way valve, single solenoid, normally closed, non-detenting manual override | 565450 | VOVC-BT-T32C-MT-F-1T1 |
|  | K | 2x3/2-way valve, single solenoid, normally closed, detenting, non-detenting/detenting manual override | 565449 | VOVC-BT-T32C-MH-F-1T1 |
| Blanking plate | | | | |
|  | L | Blanking plate for vacant position | 565451 | VABB-L2-P3 |
| Blanking plug | | | | |
|  | - | For sealing the air supply or exhaust port | 3568 | B-1/8 |
| | | | 174309 | B-M7 |
| Inscription label holder | | | | |
|  | - | Inscription label holder for identifying the valves | 3 valve positions | 565571 ASCF-H-L2-3V |
| | | | 4 valve positions | 565572 ASCF-H-L2-4V |
| | | | 5 valve positions | 565573 ASCF-H-L2-5V |
| | | | 6 valve positions | 565574 ASCF-H-L2-6V |
| | | | 7 valve positions | 565575 ASCF-H-L2-7V |
| | | | 8 valve positions | 565576 ASCF-H-L2-8V |
| | | | 9 valve positions | 565577 ASCF-H-L2-9V |
| | | | 10 valve positions | 565578 ASCF-H-L2-10V |
| | | | 11 valve positions | 565579 ASCF-H-L2-11V |
| | | | 12 valve positions | 565580 ASCF-H-L2-12V |
| | | | 13 valve positions | 565581 ASCF-H-L2-13V |
| | | | 14 valve positions | 565582 ASCF-H-L2-14V |
| | | | 15 valve positions | 565583 ASCF-H-L2-15V |
| | | | 16 valve positions | 565584 ASCF-H-L2-16V |
| | | | 17 valve positions | 565585 ASCF-H-L2-17V |
| | | | 18 valve positions | 565586 ASCF-H-L2-18V |
| 19 valve positions | 565587 ASCF-H-L2-19V | | | |
| 20 valve positions | 565588 ASCF-H-L2-20V | | | |
| 21 valve positions | 565589 ASCF-H-L2-21V | | | |
| 22 valve positions | 565590 ASCF-H-L2-22V | | | |
| 23 valve positions | 565591 ASCF-H-L2-23V | | | |
| 24 valve positions | 565592 ASCF-H-L2-24V | | | |
| Connecting cable | | | | |
|  | - | Sub-D, 25-pin, 15-wire cable | 2.5 m | 530049 KMP6-25P-12-2,5 |
| | | | 5 m | 530050 KMP6-25P-12-5 |
| | | | 10 m | 530051 KMP6-25P-12-10 |
| | | Sub-D, 25-pin, 25-wire cable | 2.5 m | 530046 KMP6-25P-20-2,5 |
| | | | 5 m | 530047 KMP6-25P-20-5 |
| | | | 10 m | 530048 KMP6-25P-20-10 |

Valve terminals type 84 VTOC

Accessories

| Ordering data | | | | | | |
|---|------|-------------------------|-------------|----------------|----------|---------------------------------------|
| | Code | Description | Tubing O.D. | Packaging unit | Part No. | Type |
| Push-in fittings | | | | | | Technical data → Internet: quick star |
|  | - | QS push-in fitting | 1/4" | 1 piece | 183741 | QS-1/8-1/4-I-U-M |
| | | | 3/8" | 1 piece | 190679 | QS-1/8-3/8-U |
| | | | 8 mm | 10 pieces | 153015 | QS-1/8-8-I |
| | | | 6 mm | 10 pieces | 153321 | QSM-M7-6-I |
| | | | 1/4" | 1 piece | 183740 | QSM-M7-1/4-I-U-M |
| | | | 1/8" | 10 pieces | 183749 | QSM-M5-1/8-I-U-M |
| | | | 3 mm | 10 pieces | 153313 | QSM-M5-3-I |
| | | | 4 mm | 10 pieces | 153315 | QSM-M5-4-I |
|  | - | Push-in L-fitting | 1/4 | 1 piece | 533235 | QSL-H-1/8-1/4-U-M |
| | | | 3/16 | 1 piece | 533234 | QSL-H-1/8-3/16-U-M |
| | | | 3 mm | 10 pieces | 130830 | QSM-LV-M5-3-I |
| | | | 4 mm | 10 pieces | 130831 | QSM-LV-M5-4-I |
|  | - | Push-in L-fitting, long | 3 mm | 10 pieces | 130834 | QSM-LLV-M5-3-I |
| | | | 4 mm | 10 pieces | 130835 | QSM-LLV-M5-4-I |
|  | - | T-fitting | 3/8 | 1 piece | 562579 | QST-H-1/8-3/8-U-M |
| | | | | | 132412 | QST-H-1/8-3/8-U-MP |
| Silencer | | | | | | Technical data → Internet: quick star |
|  | U | Silencer | - | 1 piece | 161418 | UC-M7 |
| | | | | 50 pieces | 534218 | UC-M7-50 |