

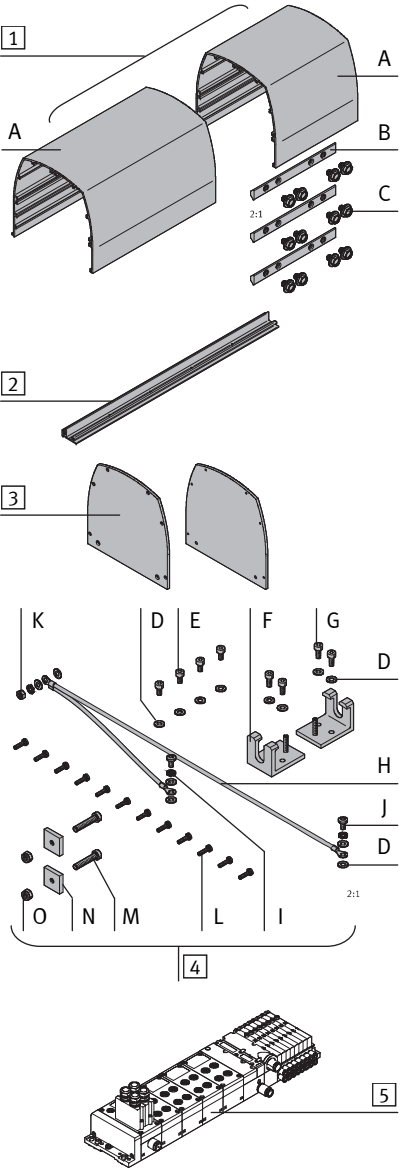
Covering hood
CAFC-X1-....

FESTO

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1. Parts list



- 1 Covering hood
Item 1 consists of:
(A) Hood piece (Xx)
CAFC-X1-GAL-...
(B) Slot nut (3x)
(C) Hexagon head screw (12x)
- 2 Rail (1x)
CAFC-X1-S
- 3 Side panel (2x)
CAFC-X1-EPL
4 Mounting kit (2x)
CAFC-X1-BE
Item 4 consists of:
(D) Washer (19x)
(E) Socket head screw (9x)
(F) Mounting bracket (2x)
(G) Socket head screw (4x)
(H) Earthing cable (1x)
(I) Retaining washer M4 (5x)
(J) Screw (1x)
(K) Hex nut M4 (2x)
(L) Screw (12x)
(M) Socket head screw (2x)
(N) Square nut M5 (2x)
(O) Hex nut M5 (2x)
- Not included in scope of delivery:
5 Valve terminal / Terminal
MPA-FB-VI / CPX

The covering hood CAFC-X1-... is intended as a low-cost and compact alternative to a control cabinet. The covering hood protects against damage from impact.

It is intended for valve terminals/terminals 5.

Information

- Check whether the covering hood fits over the valve terminal 5. There are components that project beyond the covering hood and so make it impossible to put it on, e.g. pressure regulator, pressure gauge, various interlinking blocks and fieldbus nodes. The dimensions of the covering hood can be found in the catalogue → www.festo.com/catalogue.

2. Instructions for potentially explosive environments

The covering hood CAFC-X1-... does not pose an ignition risk if all instructions are followed and mounting is correct. The following special ATEX conditions for the installed valve terminal are met when using the covering hood.

ATEX condition	
Protection from impact	The covering hood protects the valve terminal from impact from all directions, but not from the rear. The design of the through-hole for cables and tubing is small enough to absorb impacts from below.
Preventing disconnection of plug connectors or housing parts	The design of the covering hood has a special seal as defined by the appropriate standards.
Protection from UV radiation	The covering hood protects the valve terminal from UV radiation if it is mounted on an appropriate back wall.
Protection from electro-static charge	The covering hood protects the valve terminal from electrostatic charge.

Warning

Danger of ignition! For operation in potentially explosive atmospheres:

- Observe the ATEX documentation for the valve terminal.
- Mount the covering hood only on a back wall that:
 - is sufficiently strong to support all products to be installed,
 - is made of electrically conductive material and is included in equipotential bonding,
 - covers the entire rear area of the covering hood and offers adequate protection from impact and UV rays.
- Make sure that:
 - earthing of the covering hood, rail and valve terminal as required by regulation is achieved through the earthing cable (H) included,
 - the temperature below the covering hood does not exceed the permissible values for the valve terminal. The temperature under the covering hood can be higher than the ambient temperature,
 - all electric cables are equipped with additional strain relief or protected through fixed installation, for example.

3. Safety notes

Warning

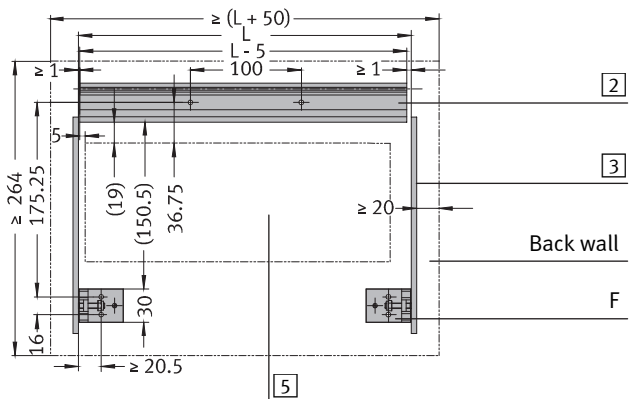
Beware of uncontrolled movements of components; they can result in injuries.

- Make sure that assembly or disassembly is carried out in the de-energised and unpressurised state.

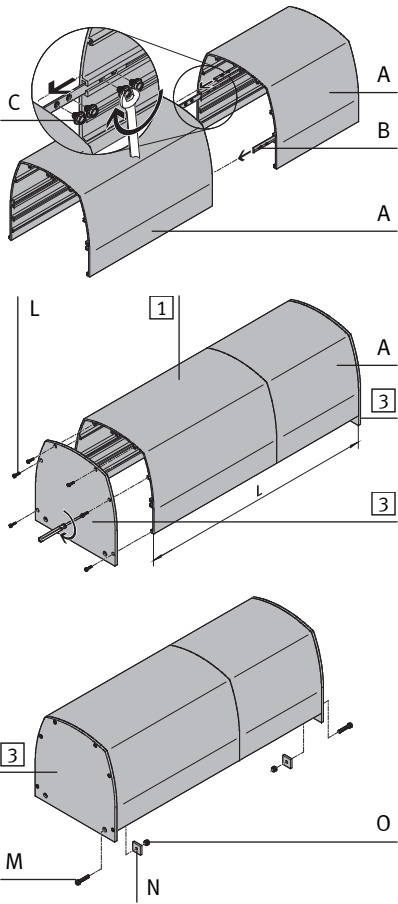
Note

- Make sure that the covering hood is used only for a horizontally (→ dimensional drawing) installed valve terminal 5, since it cannot withstand vibration/shock if vertically mounted.
- Note that the IP protection class of the valve terminal 5 is not influenced by the covering hood.

4. Dimensional drawing [mm]



5. Assembly

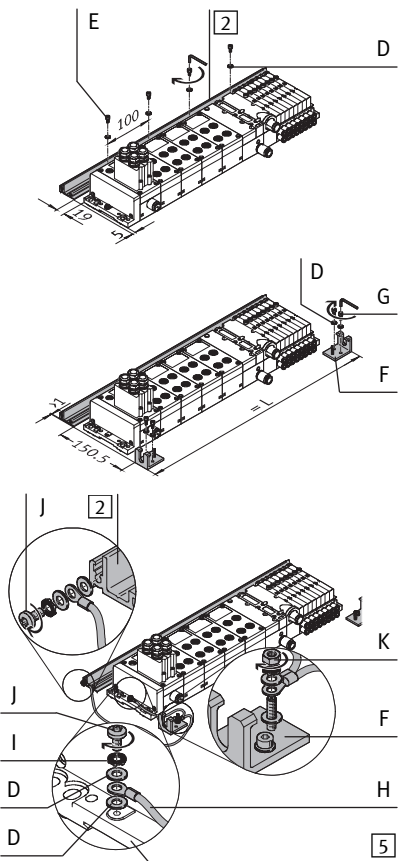


- Connect the hood pieces (A) via the side grooves and the upper groove using the slot nuts (B) and the hexagon head screws (C).

- Attach both the left and right side panels 3 to the covering hood 1 using the self-tapping screws (L). The length L of the covering hood must be at least 25 mm longer than the valve terminal 5.

- Put the socket head screw (M) through the hole in the side panel 3.
- Fasten the square nut (N) and the hex nut (O) as shown.

- Use angled plugs and tube fittings for the electric and pneumatic valve terminal connections 5 so that the cables/tubing can subsequently be fed through underneath the covering hood.
- Observe the following minimum measurements for the back wall so that the rear of the covering hood is completely covered → overhang of at least 20 mm (width ≥ 264 mm, length ≥ (L + 50) mm).

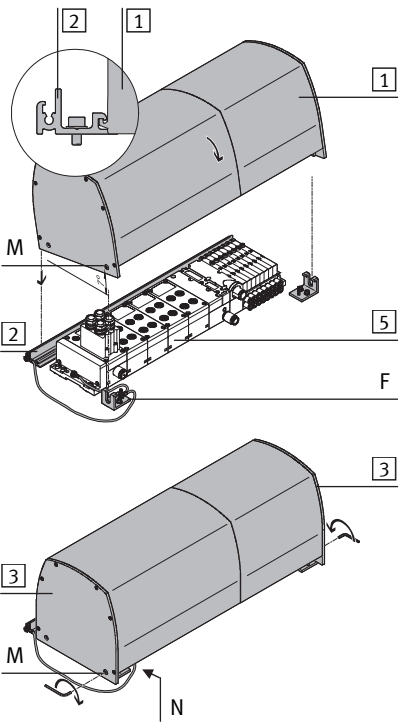


- Mount the rail 2 with U disc (D) and socket head screw (E) onto the back wall as shown → dimensional drawing

- Mount the mounting bracket (F) with U disc (D) and socket head screw (G) onto the back wall as shown → dimensional drawing [mm]

- Install the earthing cable (H) as follows:
 - long cable piece between mounting bracket (F) and the rail 2,
 - short cable piece between mounting bracket (F) and the end plate at the valve terminal 5.

- Use the self-tapping screw (I) or nut (K), the retaining clip (I) and two U-discs (D).



- Position the pre-assembled covering hood 1 over the valve terminal 5.
- Tilt the covering hood 1 approx. 7° and hang it in the rail 2.
- Pay attention to the placement of the screw (M) in the mounting bracket (F).

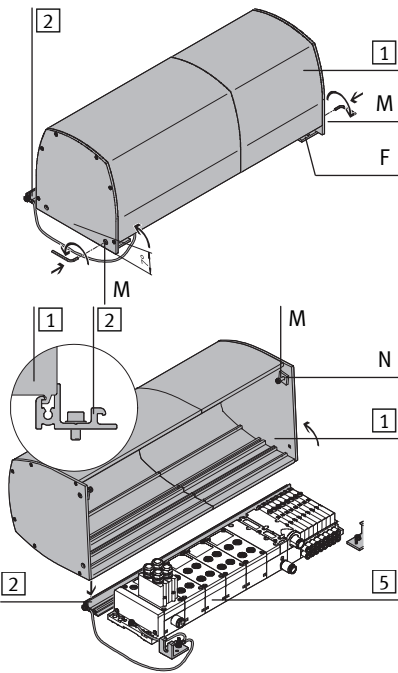
Close the special seal as follows:

- Tighten the socket head screw (M) to the left and right at the side panels 3, which wedges in the square nuts (N).

6. Screw sizes and tightening torques M_A¹⁾

Mounting components	[Nm]	for component
(C) Hexagon head screw M5x6	2,5	(B) Slot nut
(E) Socket head screw M4x8		2 Rail
(G) Socket head screw M4x10		(F) Mounting bracket
(I) Screw M4x8		(H) Earthing cable
(K) Hex nut M4		(H) Earthing cable
(L) Screw M3x12	1	3 Side panel
(M) Socket head screw M5x25	2,5	(F) Mounting bracket

7. Disassembly



- Unscrew the two lateral socket head screws (M) and hold them against the holes so that the square nut (N) does not end up hanging inside on the mounting bracket (F).
- Tilt the covering hood 1 approx. 7° and remove it from the rail 2.

When working on the valve terminal 5, temporarily put the covering hood 1 in stand-by position as follows:

- Turn the covering hood 1 90° and put it in the top groove of the rail 2.

Note

The covering hood is only loosely attached when in the stand-by position; it can fall due to impact from vibration or shock. Hence it should not be kept in this position.

- Always close the covering hood again when work is interrupted (tighten socket head screws (M)).

¹⁾ Tolerance for non-toleranced tightening torques M_A
M_A > 1 Nm: ± 20%