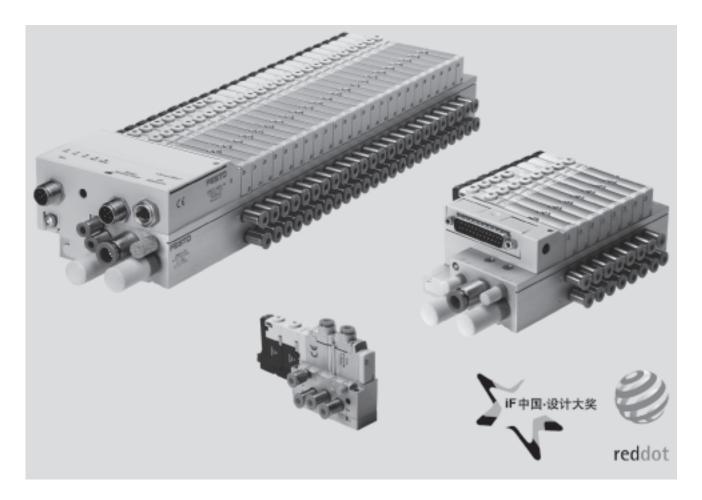


Key features



Innovative

- Compact valve terminal for a wide range of pneumatic applications
- Standardised from the individual valve up to multi-pin plug and fieldbus connections
- Highly versatile during the planning and assembly stages as well as in operational use
- Wide range of selectable valve functions, including valve functions for customised pressure supplies or vacuum application solutions
- Comprehensive, optimally harmonised range of accessories for flow rates of up to 180 l/min

Versatile

- Room for expansion with 2 ... 24 valve positions on one terminal
- Use of individual valves in combination with an individual block
- The flexibility of the pneumatic working connections facilitates a practical solution to different requirements
- Tubing lines can be connected horizontally to the valve or vertically on the sub-base
- $\bullet\,$ High pressure range $\,-0.9\;...\;10$ bar
- Wide range of electrical connections for 24 V DC operating voltage

Reliable

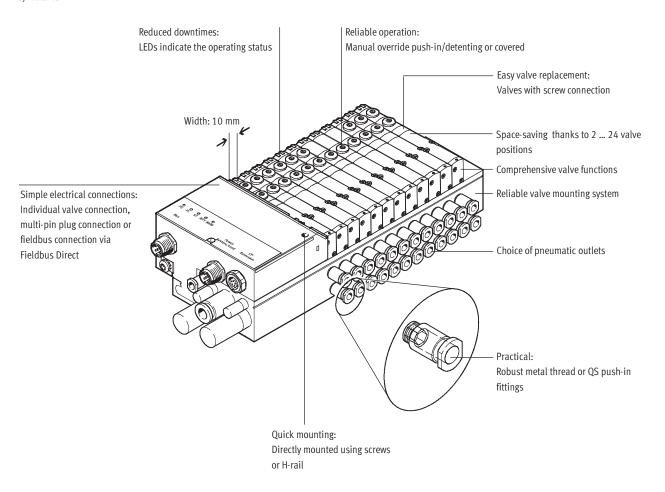
- Manual override facility
- Durable thanks to the use of triedand-tested piston spool valves
- Sturdy thanks to metal housing and connecting thread
- Fast troubleshooting thanks to LEDs on the valves and diagnosis via fieldbus

Easy-to-mount

- Ready-to-install unit, already assembled and tested
- Minimised expenditure with regard to ordering, installation and commissioning
- Secure wall mounting or via H-rail



Key features



Equipment options

Valve functions

- 5/2-way valve, single solenoid
- 5/2-way valve, double solenoid
- 2x 3/2-way valve, normally open
- 2x 3/2-way valve, normally closed
- 5/3-way valve, mid-position pressurised
- 5/3-way valve, mid-position closed
- 5/3-way valve, mid-position exhausted
- 1x 3/2-way valve, normally closed, external compressed air supply
- 2x 2/2-way valve, normally closed, dual compressed air supply

All valves have the same compact dimensions with an overall length of 91 mm and a width of 10 mm. Valves with a height of 40 mm are available for applications requiring particularly flat variants.

Electrical connection options

Individual connection/individual subbase valve

- Plug-in (PI)
- Horizontal connection (HC)

Multi-pin

- Max. 20 valve positions/ max. 20 solenoid coils
- Sub-D
- Flat cable

Fieldbus

• Max. 24 valve positions/ max. 32 solenoid coils

CP string extension

- Further valve terminals from the CPV/CPA range
- Electrical I/O modules



Key features

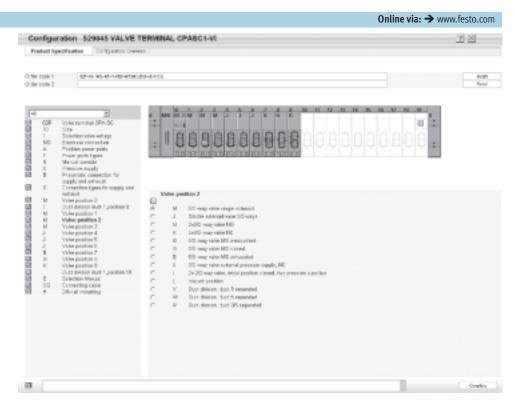
Valve terminal configurator

A valve terminal configurator is available to help you select a suitable CPASC valve terminal. This makes it much easier for you to find the right product.

The valve terminals are fully assembled according to your order specifications and individually tested. This reduces the amount of assembly and installation required to a minimum. A type 82 valve terminal is ordered via a modular order code.

Ordering system for type 82

→ Internet: type 82



Key features



Individual connection

Valve on individual sub-base



Valves can also be used on an individual block for actuators further away from the valve terminal. With an individual electrical connection, the plug is connected directly to the valve. Two electrical connection types are available for the valve terminal and for the individual block:

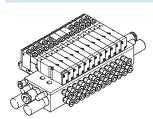
• Horizontal connection (HC) Version SH:

The electrical connection can be plugged in directly on the valve.

• Plug-in (PI) Version SP, SQ:

The connector plug is mounted on an adapter. This adapter is then attached to the manifold block.

Valves pneumatically linked on manifold sub-base

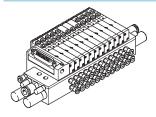


Connection is independent of the control technology used. This ensures correct polarity during installation.

The valve is equipped with an LED which indicates switching status, and an overvoltage protective circuit. It also features a built-in current reduction circuit.

Individual connection permits the selection of 2 to 32 solenoid coils (divided between 2 to 16 valve positions, including in uneven gradations).

Multi-pin plug connection

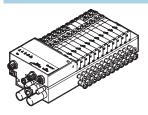


Control signals from the controller to the valve terminal are transmitted via a pre-assembled multi-core cable, which substantially reduces installation time These valve terminals can be fitted with 2 to 20 solenoid coils (divided between 2 to 20 valve positions).

Variants

- Sub-D connection
- Flat cable connection

Fieldbus Direct



An integrated fieldbus node manages the communication connection to a higher-order PLC. This enables a space-saving pneumatic and electronic solution.

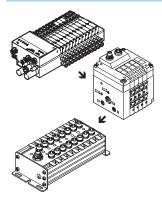
The fieldbus node is directly integrated in the electrical interface of the valve terminal and therefore takes up only a minimal amount of space.

The CP string extension option allows the functions and components of the CP installation system to be used. Valve terminals with fieldbus interfaces can be equipped with 4 to 24 valve positions and 4 to 32 solenoid coils.

Variants

- DeviceNet connection
- Profibus connection
- 4 to 32 solenoid coils

CP string extension



The optional string extension allows additional valve terminals and I/O modules to be connected to the field-bus node of the CPA-SC. A CP string of the CPI installation system is integrated in the fieldbus node as an extension. Different input and output modules as well as CPV- and CPA valve terminals can be connected.

The maximum length of the CP string extension is 10 metres, which means that the extension modules can be mounted directly on site. All of the required electrical signals are transmitted via the CP cable, which in turn means that no further installation is needed on the extension module.

The CP string interface offers:

- 32 input signals
- 32 output signals for output modules 24 V DC or solenoid coils
- Logic and sensor supply for the input modules
- Load voltage supply for the valve
 terminals
- Logic supply for the output modules





Overview - CPA-SC valve terminal with sub-base valves

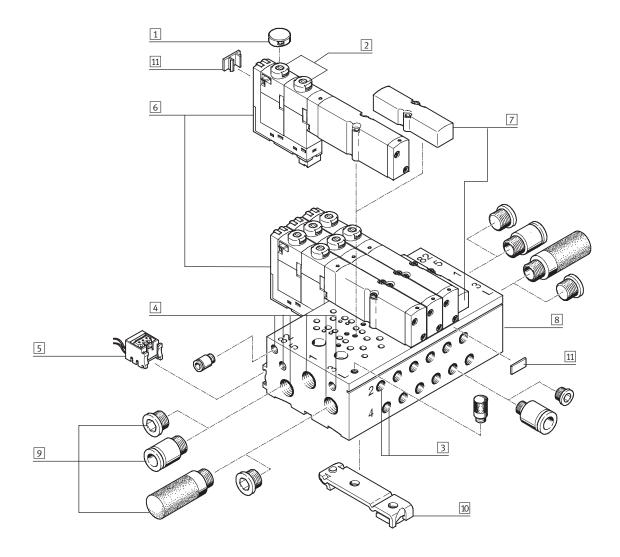
Valve terminal with individual plug-in (PI) electrical connections

Code: IP, IQ

Valve terminals with individual plug-in (PI) electrical connections are available in sizes for 2 to max. 16 valve positions. Each valve position can either be equipped with a valve or a blanking plate.

With an individual PI connection, the connector plug remains on the mani-

fold block. This avoids the valve being connected incorrectly in the event of a recommissioning.



- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- 3 Working lines (2, 4) on the manifold block (per valve position)
- 4 Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the lefthand and right-hand side of the manifold block
- 5 Individual plug-in (PI) connection
- 6 Valve
- 7 Cover for vacant position (blanking plate)
- 8 Manifold block for sub-base valves
- 9 Connectors, silencers and blanking plugs
- 10 H-rail mounting
- 11 Inscription labels



Peripherals overview

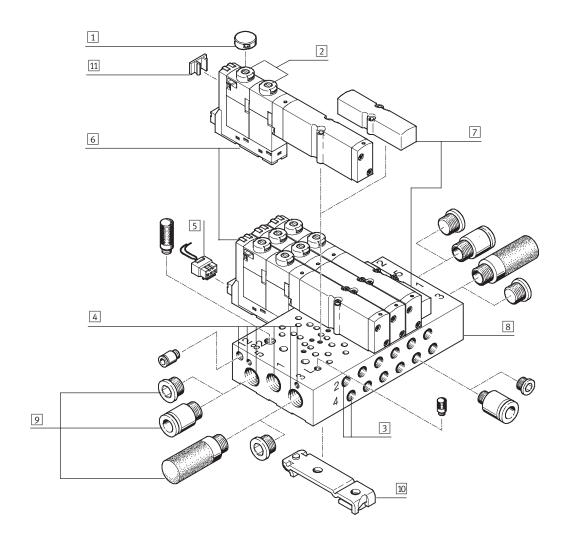
Overview - CPA-SC valve terminal with sub-base valves

Valve terminal with individual horizontal (HC) electrical connections

Code: IH

Valve terminals with individual horizontal electrical connections (HC) are available in sizes for 2 to max. 16 valve positions. Each valve position can either be equipped with a valve or a blanking plate.

With an individual horizontal connection, the electrical connection for a valve must be removed when the valve is being replaced.



- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- Working lines (2, 4) on the manifold block (per valve position)
- 4 Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the lefthand and right-hand side of the manifold block
- 5 Individual horizontal connection (HC)
- 6 Valve
- 7 Cover for vacant position (blanking plate)
- 8 Manifold block for sub-base
- 9 Connectors, silencers and blanking plugs
- 10 H-rail mounting
- 11 Inscription labels



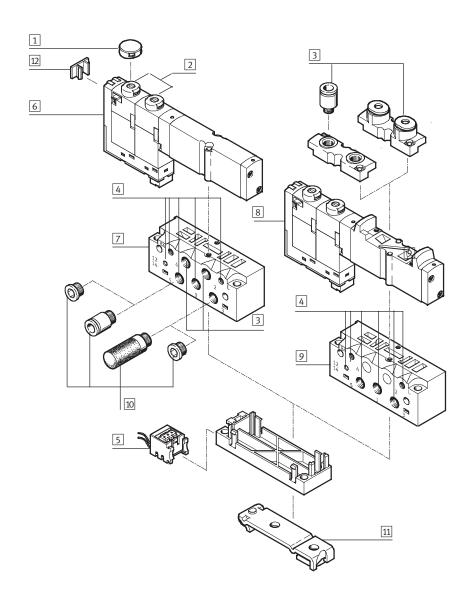


Overview - CPA-SC individual block with sub-base valve or semi in-line valve

Individual block with individual plug-in (PI) electrical connection

Code: SP, SQ

With an individual PI connection, the connector plug remains on the manifold block.



- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- Working lines (2, 4) on the individual block or on the valve (semi in-line version)
- 4 Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the individual block
- 5 Individual horizontal connection (HC)
- 6 Sub-base valve
- 7 Individual block for sub-base valve
- 8 Semi in-line valve
- 9 Individual block for semi in-line valve
- 10 Connectors, silencers and blanking plugs
- 11 H-rail mounting
- 12 Inscription label



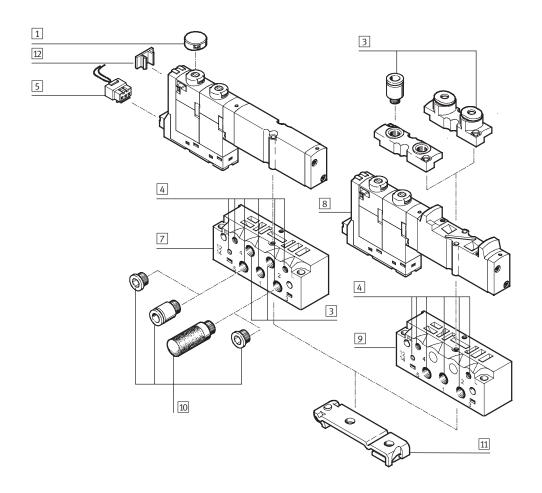
Peripherals overview

Overview - CPA-SC individual block with sub-base valve or semi in-line valve

Individual block with individual horizontal electrical connection (HC)

Code: SH

With an individual horizontal connection, the electrical connection for a valve must be removed when the valve is being replaced.



- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- Working lines (2, 4) on the individual block or on the valve (semi in-line version)
- 4 Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the individual block
- 5 Individual horizontal connection (HC)
- 6 Sub-base valve
- 7 Individual block for sub-base valve
- 8 Semi in-line valve
- 9 Individual block for semi in-line valve
- 10 Connectors, silencers and blanking plugs
- 11 H-rail mounting
- 12 Inscription label





Overview – CPA-SC valve terminal with electrical multi-pin plug connection Valve terminal with sub-base valves

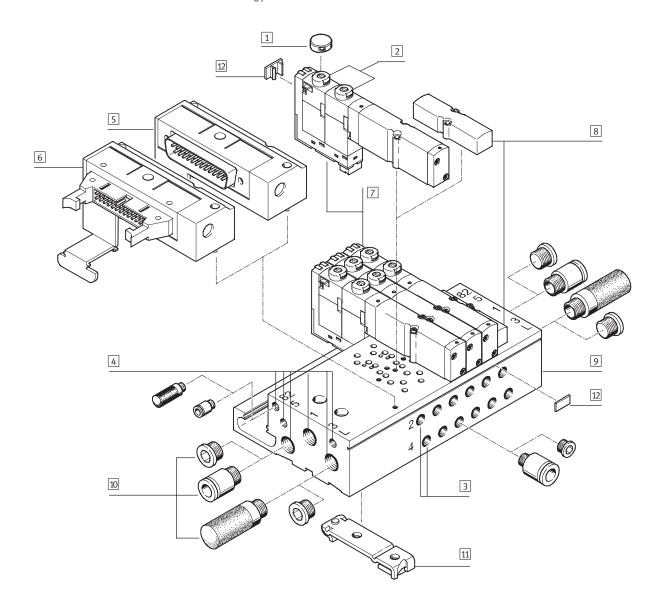
 25-pin Sub-D multi-pin plug connection
 Code: MS

or

• 26-pin multi-pin plug connection with connector for flat cable Code: MF Valve terminals with electrical multipin plug connection are available in sizes for 2 to max. 20 valve positions (code: MS) or for 4 to max. 20 valve positions (code: MF). Each valve position can either be equipped with a valve or a blanking plate.

A maximum of 20 solenoid coils can be actuated via the electrical multipin plug connection.

The electrical connection is located on the left-hand side. It can be rotated by 90°, thereby allowing flush mounting of the system.



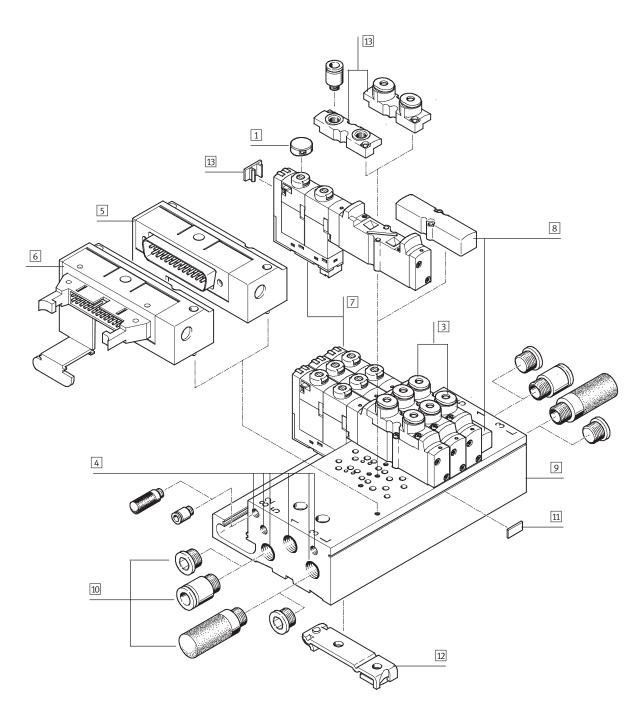
- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- 3 Working lines (2, 4) on the manifold block (per valve position)
- 4 Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the lefthand and right-hand side of the manifold block
- 5 Multi-pin plug connection Sub-D
- 6 Multi-pin plug connection with connector for flat cable
- 7 Valve
- 8 Cover for vacant position (blanking plate)
- Manifold block for sub-base valves
- 10 Connectors, silencers and blanking plugs
- 11 H-rail mounting
- 12 Inscription labels

FESTO

Peripherals overview

Overview - CPA-SC valve terminal with electrical multi-pin plug connection

Valve terminal with semi in-line valves



- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- 3 Working lines (2, 4) on the valve
- 4 Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the lefthand and right-hand side of the manifold block
- 5 Multi-pin plug connection Sub-D
- 6 Multi-pin plug connection with connector for flat cable
- 7 Valve
- 8 Cover for vacant position (blanking plate)
- Manifold block for semi in-line valves
- 10 Connectors, silencers and blanking plugs
- 11 Inscription labels
- 12 H-rail mounting
- 13 Pneumatic connection plates for semi in-line valves



Peripherals overview

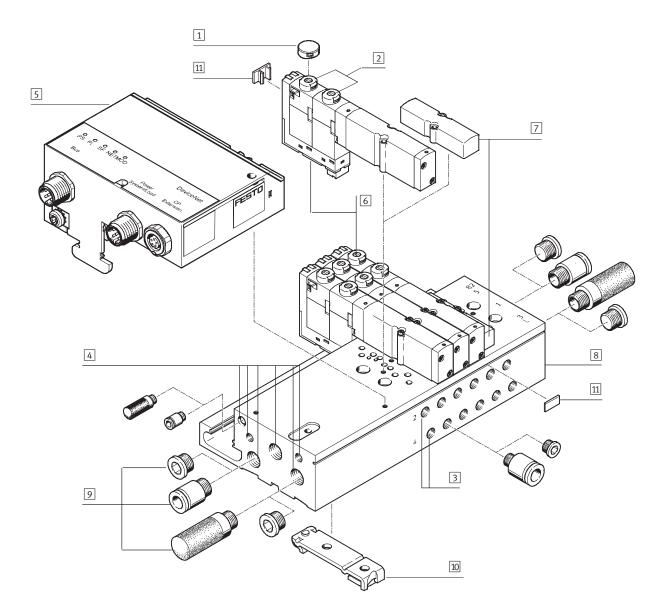
Overview - CPA-SC valve terminal with Fieldbus Direct

Valve terminal with sub-base valves

Valve terminals with fieldbus connection are available in sizes for 4 to max. 24 valve positions.

Each valve position can either be equipped with a valve or a blanking plate.

A maximum of 32 solenoid coils can be actuated via the fieldbus connection.



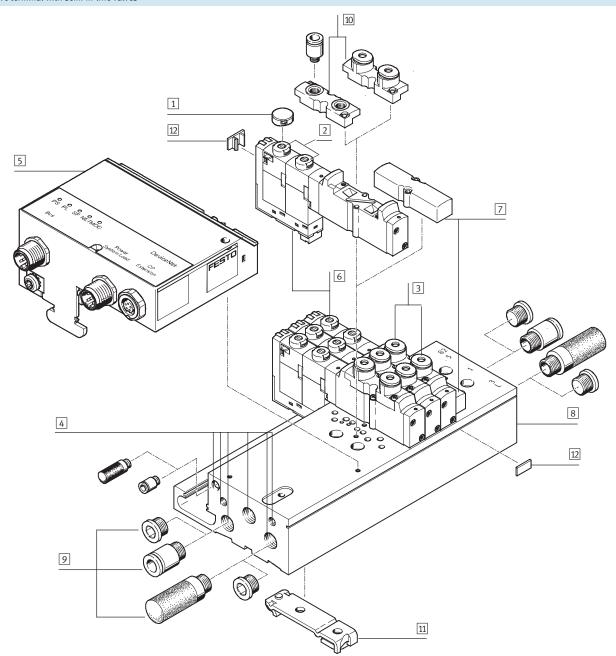
- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- 3 Working lines (2, 4) on the manifold block (per valve position)
- 4 Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the lefthand and right-hand side of the manifold block
- 5 Fieldbus Direct
- 6 Valve
- 7 Cover for vacant position (blanking plate)
- 8 Manifold block for sub-base valves
- Connectors, silencers and blanking plugs
- 10 H-rail mounting
- 11 Inscription labels

Valve terminals type 82 CPA-SC, Smart Cubic Peripherals overview



Overview - CPA-SC valve terminal with Fieldbus Direct

Valve terminal with semi in-line valves

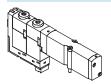


- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- 3 Working lines (2, 4) on the valve
- 4 Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the lefthand and right-hand side of the manifold block
- 5 Fieldbus Direct
- 6 Valve
- 7 Cover for vacant position (blanking plate)
- 8 Manifold block for semi in-line valves
- 9 Connectors, silencers and blanking plugs
- 10 Pneumatic connection plates for semi in-line valves
- 11 H-rail mounting
- 12 Inscription labels



Valves

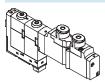
Sub-base valve



Sub-base valves can be quickly replaced since the tubing connections remain on the manifold block.

This design is also particularly slim.

Semi in-line valve (with working ports on the valve)



With semi in-line valves the pneumatic connections are on the top. This means that elbow connectors are not needed.

There are sub-base valves and semi in-line valves with one solenoid coil (single solenoid) or with two solenoid coils (double solenoid) irrespective of the valve function.

Blanking plate



Plate without valve function for reserving valve positions on a valve terminal.

Valve sub-bases and blanking plates are attached to the manifold block using two screws.



| Manifold blocks | | | 1 |
|---------------------------------------------------------------|-------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manifold block | | Number of valve positions | Manifold block connections |
| Code A – Working ports (2, 4) on the mar | ifold block | | |
| Manifold block for sub-base valves and blanking plates | | 2 20 | With working ports (2, 4), M5 threaded hole With ports for supply air (1, 12/14) and exhaust air (3, 5, 82/84) With pressure compensating port (L) |
| ndividual sub-base for sub-base valve | | 1 | |
| Code P – Working ports (2, 4) on the valv | e | | |
| Manifold block for semi in-line valves and blanking plates | | 2 20 | Without working ports With ports for supply air (1, 12/14) and exhaust air (3, 5, 82/84) With pressure compensating port (L) |
| Individual sub-base for semi in-line valve | | 1 | |



Semi in-line valves can also be mounted on manifold blocks for sub-base valves. In this case the corresponding working ports on the manifold block must be sealed using blanking plugs.

The woring air supply and exhaust air outlet for the valve terminal can either be on the left-hand side or the righthand side of the valve terminal. Supply at both sides is also possible. Ports that are not required must be sealed with a blanking plug.

An individual sub-base is the ideal solution in cramped space conditions. All available valve types can be used.



| Valves | | | | |
|--------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Code | Circuit symbol | Size 10 | Description |
| | М | 14 84 5 1 3 12 | • | 5/2-way valve, single solenoid • Pneumatic spring return |
| | J | 14 2 12 14/12 84/82 5 1 3 | • | 5/2-way valve, double solenoid |
| | N | 12/14 1 5 82/84 3 | | 2x 3/2-way valve, single solenoid Normally open Pneumatic spring return |
| | K | 12/14 1 5 82/84 3 | | 2x 3/2-way valve, single solenoid Normally closed Pneumatic spring return |
| | В | 14 W 12 W 12 82/84 5 1 3 12/14 | - | 5/3-way valve • Mid-position pressurised ¹⁾ • Mechanical spring return The piston rod of a connected cylinder advances when the valve is in the normal position due to the differential piston areas. |
| | G | 14 W 12 12 12 12 14 12 12 14 12 12 14 12 12 14 12 12 14 12 14 12 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 14 12 14 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 1 | - | 5/3-way valve • Mid-position closed ¹⁾ • Mechanical spring return The piston rod side of a connected cylinder remains held under pressure when the valve is in the normal position. |
| | E | 14 W 12 W | | 5/3-way valve • Mid-position exhausted ¹⁾ • Mechanical spring return The piston rod of a connected cylinder remains freely movable when the valve is in the normal position. |

¹⁾ If neither solenoid coil is being supplied with power, the valve assumes its mid-position by means of spring force.

If both coils are being supplied with power simultaneously, the valve remains in the switching position previously assumed.



| Valves | | | | |
|--------|------|-----------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Code | Circuit symbol | Size 10 | Description |
| | X | 12 82 4 3 | | 1x 3/2-way valve Normally closed External compressed air supply Pneumatic spring return Compressed air (-0.9 +10 bar) supplied at working port 4 can be switched. |
| | I | 12/14 5 82/84 1 | • | 2x 2/2-way valve Normally closed Normally closed, reversible Pneumatic spring return The vacuum is connected at port 5 Port 14 switches the vacuum Port 12 switches the ejector pulse An external T-connection must be established between port 2, 4 and the vacuum generator |
| | L | | • | Blanking plate for vacant position For valve terminal only |



For vacuum operation valves require a filter. This is to avoid that foreign matter is drawn into the valve (e.g. when using a suction cup).



Key features – Pneumatic components

Constructional design

Valve replacement

The valves are attached to the metal manifold block using two screws. This means that they can be easily replaced. The mechanical robustness of the manifold block guarantees good long-term sealing tightness.

Expansion

Vacant positions can be replaced by valves at a later date. The dimensions, mounting points and existing pneumatic installations remain unchanged by this.

The valve code (M, J, N, K, B, G, E, X, I) is located on the front of the valve beneath the manual override.

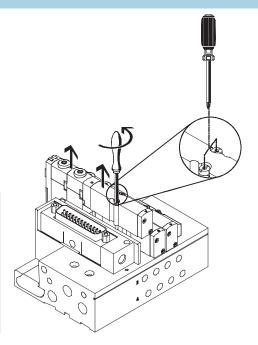


Note

Plug-in versions

If a vacant position is replaced by a valve, a plug-in socket must also be ordered and inserted into the slot.

When ordering a HC terminal, you must determine the number and length of connecting cable you need and specify them in the order code.



| Working port | | |
|--------------|------|------------------------|
| | Code | Description |
| | В | M5 threaded connection |
| | Е | QS-3 push-in connector |
| | F | QS-4 push-in connector |



Key features – Pneumatic components

Pneumatic connection Supply and exhaust

The valves are supplied with compressed air via various valve terminal manifold blocks or individual blocks.

These contain common lines for compressed air supply, exhaust and pilot exhaust for all valves.

The common lines on a CPA-SC valve terminal can be connected

- at the left (code L)
- at the right (code R) or
- at both ends (code B)

Pilot air supply

The CPA-SC valve terminal is suitable for internal or external pilot air.

Graphs → 31

Internal pilot air supply

If supply pressure for the CPA-SC valve is within a range of 3 to 8 bar, it can be operated with internally distributed pilot air. The pilot air supply in the

left-hand end plate (electrical multipin plug connection and Fieldbus Direct) or in the right-hand end plate (individual electrical connection) is branched off from port 1 in this case.

External pilot air supply

If supply pressure for the CPA-SC valve terminal is within a range of -0.9 to +10 bar, it must be operated with external pilot air supply. The pilot air is supplied via port 12/14 in this case.

| Pneumatic supply | | | | | | |
|-----------------------------------------|---------|-------------|---------------------------------------------|------------------------------|---------------------------------------|---------------------|
| With CPA-SC valve terminal | Code | Port | | Connections for supply a | and exhaust | |
| | | | | | Code H | Code D |
| | | | | | QS connection | Threaded connection |
| | | | | | metric, 8 mm | G1/8 |
| | | | | Designation | Туре | Туре |
| | Compres | ssed air s | upplied by means of internal pilot air sup | ply, exhausting via silencer | i I | |
| | S | 1 | Working air/vacuum supply | Push-in fitting | QS-G ¹ / ₈ -8-I | - |
| | | 3/5 | Exhaust air | Silencer | UC-1/8 | - |
| | | 12/14 | Pilot air supply | - | - | - |
| 000000 | | 82/84 | Pilot exhaust air | Silencer | UC-M5 | - |
| 000 | | L | Pressure relieving port | Silencer | UC-M5 | - |
| | | | | • | | |
| | Compres | ssed air s | upplied via external pilot air supply, exha | usting via silencer | | |
| | T | 1 | Working air/vacuum supply | Push-in fitting | QS-G ¹ / ₈ -8-I | - |
| | | 3/5 | Exhaust air | Silencer | UC-1/8 | - |
| 0000 | | 12/14 | Pilot air supply | Push-in fitting | QSM-M5-4-I | - |
| 000000000000000000000000000000000000000 | | 82/84 | Pilot exhaust air | Silencer | UC-M5 | - |
| 0000 | | L | Pressure relieving port | Silencer | UC-M5 | - |
| * | | | | | | |
| | | ssed air si | upplied by means of internal pilot air sup | • • | | |
| | V | 1 | Working air/vacuum supply | Push-in fitting | QS-G1/8-8-I | - |
| | | 3/5 | Exhaust air | Push-in fitting | QS-G ¹ /8-8-I | - |
| | | 12/14 | Pilot air supply | - | - | - |
| | | 82/84 | Pilot exhaust air | Push-in fitting | QSM-M5-4-I | - |
| | | L | Pressure relieving port | Silencer | UC-M5 | - |
| | | | | | | |
| | Compres | ssed air s | upplied via external pilot air supply, duct | | | |
| | Х | 1 | Working air/vacuum supply | Push-in fitting | QS-G1/8-8-I | - |
| | | 3/5 | Exhaust air | Push-in fitting | QS-G ¹ / ₈ -8-I | - |
| | | 12/14 | Pilot air supply | Push-in fitting | QSM-M5-4-I | - |
| | | 82/84 | Pilot exhaust air | Push-in fitting | QSM-M5-4-I | - |
| | | L | Pressure relieving port | Silencer | UC-M5 | - |



| neumatic supply | | | | | | | | | | | | | | | |
|------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------|-------------------------------|------------------------------------|--|--|--|--|--|--|--|--|--|
| Vith CPA-SC individual | Code | Port | | Connections for sup | ply and exhaust | | | | | | | | | | |
| ock | | | | | Code B Threaded connection M5 | Code F Push-in connector QS4 | | | | | | | | | |
| | | | | Designation | Туре | Type | | | | | | | | | |
| 99 | Compre | essed air su | applied by means of internal pilot a | ŭ | | 71. | | | | | | | | | |
| | S | 1 | Working air/vacuum supply | Push-in fitting | - | QSM-M5-4-I | | | | | | | | | |
| | | 3/5 | Exhaust air | Silencer | _ | UC-M5 | | | | | | | | | |
| | | 12/14 | Pilot air supply | - | _ | _ | | | | | | | | | |
| | , | 82/84 | Pilot exhaust air | Silencer | - | U-M3 | | | | | | | | | |
| 1000 | L Pressure relieving po | | | Silencer | - | U-M3 | | | | | | | | | |
| 0000 | 1 | | | - | - | 1 | | | | | | | | | |
| 00 | Compre | essed air su | ipplied via external pilot air supply, | exhausting via silencer | | | | | | | | | | | |
| V | T | 1 | Working air/vacuum supply | Push-in fitting | - | QSM-M5-4-I | | | | | | | | | |
| | | 3/5 | Exhaust air | Silencer | - | UC-M5 | | | | | | | | | |
| | | 12/14 | Pilot air supply | Push-in fitting | - | QSM-M3-3-I | | | | | | | | | |
| | | 82/84 | Pilot exhaust air | Silencer | - | U-M3 | | | | | | | | | |
| | | L | Pressure relieving port | Silencer | - | U-M3 | | | | | | | | | |
| | Campus | Compressed air supplied by means of internal pilot air supply, ducted exhaust V 1 Working air/vacuum supply Push-in fitting – QSM-M5 | | | | | | | | | | | | | |
| | V | | | | | | | | | | | | | | |
| | V | | Exhaust air | Push-in fitting Push-in fitting | | QSM-M5-4-I QSM-M5-4-I | | | | | | | | | |
| | | 3/5 | | Push-in illing | | QSIVI-IVI 5-4-1 | | | | | | | | | |
| | | 12/14 | Pilot air supply Pilot exhaust air | Purch in Suince | - | - OCM M2 2 I | | | | | | | | | |
| | | 82/84 | | Push-in fitting | - | QSM-M3-3-I | | | | | | | | | |
| | | L | Pressure relieving port | Silencer | _ | U-M3 | | | | | | | | | |
| | Compre | essed air su | ipplied via external pilot air supply, | ducted exhaust | | | | | | | | | | | |
| | X | 1 | Working air/vacuum supply | Push-in fitting | - | QSM-M5-4-I | | | | | | | | | |
| | | 3/5 | Exhaust air | Push-in fitting | _ | QSM-M5-4-I | | | | | | | | | |
| | | 12/14 | Pilot air supply | Push-in fitting | _ | QSM-M3-3-I | | | | | | | | | |
| | | 82/84 | Pilot exhaust air | Push-in fitting | _ | QSM-M3-3-I | | | | | | | | | |
| | | L | Pressure relieving port | Silencer | U-M3 | | | | | | | | | | |



Note

The port L compensates the pressure between moving parts inside the valve and the surrounding environment.

A silencer protects against contamination.

The port L must not be sealed by blanking plugs at both ends.



Key features – Pneumatic components

Instructions for using pressure zones

The CPA-SC valve terminal can be operated with a maximum of 2 pressure zones, supplied either from the left or from the right.

Pressure zones are created by means of separators that can be used in the following ducts:

- Supply duct 1 (code T) and
- exhaust duct 3 (code V) or
- exhaust duct 5 (code W) or
- exhaust duct 3 and 5 (code R)

Pilot air supply

The Pilot air supply is branched off from port 1 in the left-hand end plate (electrical multi-pin plug connection and Fieldbus Direct) or in the right-hand end plate (individual electrical connection).

Internal pilot air supply is only possible at an operating pressure within a range of 3 to 8 bar.

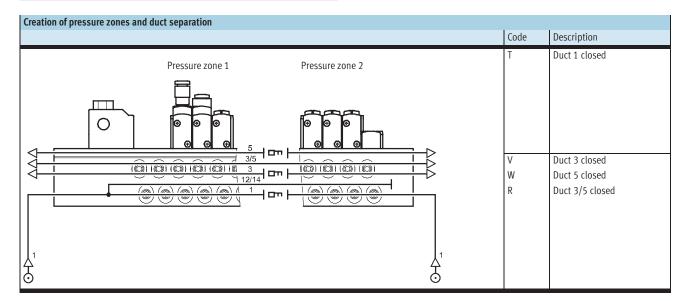
It must therefore be noted in connection with pressure zone separation

that the valve terminal is supplied with internal pilot air supply via the left-hand side when using a multi-pin plug connection and Fieldbus Direct and via the right-hand side when using an individual electrical connection. This means that the operating pressure at this port must be within a range of 3 to 8 bar.



The addition of a separator element results in the following valve sub-bases being supplied with less working air:

- Valve sub-base at the valve position in which the locating pin is inserted
- Valve sub-bases at the two adjacent valve positions





Note

The separator element can also be mounted subsequently using an Allen key. An assembly tool for long terminals is available as an accessory.





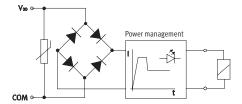
FESTO

Key features – Electrical components

Electrical power as a result of current reduction

Each valve solenoid coil is protected with a spark arresting protective circuit as well as against polarity reversal.

All valve types are additionally equipped with integrated current reduction.



Individual electrical connection

With an individual electrical connection, the plug is connected directly to the valve.

Two types of individual electrical connection are available for the valve terminal and for the individual subbase:

- Horizontal connection (HC) or
- Plug-in (PI)



Connecting cables with 2- or 3-wires are available for single solenoid valves with one solenoid coil or double solenoid valves with two solenoid coils.

Individual electrical connection – Horizontal connection (HC)

Valve on manifold block

Code IH

The valve terminal can be configured with 2 to max. 16 valve positions.

This means that max. 32 solenoid coils can be actuated with this type of electrical connection.

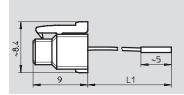
The horizontal connection (HC) must be removed when replacing the valve.

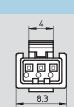
Valve on individual block

Code SH

With the individual sub-base, the electrical connection is also plugged in directly on the valve.

Dimensions - Horizontal connection (HC)





Number of solenoid coils Code L1 Cable colour Туре Cable length Pin 1 Pin 2 Pin 3 Solenoid coil 12 Solenoid coil 14 [m] Common KMH-0,5 СН 0.5 Black 1 coil Red KMH-1 1 coil CI 1 Black -Red KMH-2,5 CJ 2.5 1 coil Black _ Red KMH-5 CK 5 1 coil Black Red KMH-D-0,5 CD 0.5 2 coils Black Blue Red KMH-D-1 CE 1 2 coils Black Blue Red KMH-D-2,5 CF Black Blue 2.5 2 coils Red KMH-D-5 CG 5 2 coils Black Blue Red



Individual electrical connection - Plug-in (PI)

Valve on manifold block

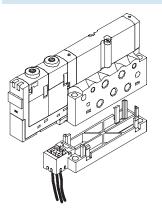
Code IP, IQ

The valve terminal can be configured with 2 to max. 16 valve positions. This means that max. 32 solenoid coils can be actuated with this type of electrical connection.

The connector plug is inserted into the slot on the manifold block.

To replace a valve or extend the terminal (vacant position), all you need do is loosen two screws; the connector plug remains in the slot.

Valve on individual block



Code SP, SQ

With this electrical connection variant, the connector plug is mounted on an adapter. This adapter is then attached to the manifold block.



| Туре | Code | L1 | Number of solenoid coils | Cable colour | | |
|---------------|------|--------------|--------------------------|--------------|------------------|------------------|
| | | Cable length | | Pin 1 | Pin 2 | Pin 3 |
| | | [m] | | Common | Solenoid coil 12 | Solenoid coil 14 |
| MHAP-PI | - | 0.5 | 1 coil | Black | - | Red |
| MHAP-PI-1 | - | 1 | 1 coil | Black | - | Red |
| MHAP-PI-D-0,5 | - | 0.5 | 2 coils | Black | Blue | Red |
| MHAP-PI-D-1 | - | 1 | 2 coils | Black | Blue | Red |

Key features – Electrical components



Electrical multi-pin plug connection

The following multi-pin plug connection types are offered for the valve terminal CPA-SC:

- Sub-D multi-pin plug connection (25-pin) or
- Multi-pin plug connection with connector for flat cable (26-pin)

Pins 1 ... 20 are used for coils 1 ... 20 in order. If there are fewer than 20 coils on the valve terminal, the remaining pins up to 20 are left free. Pins 21 and above are reserved for neutral conductors. Four solenoid coils are always combined on one neutral conductor.

This means that individual valve groups can be switched off separately or a mixture of negative- and positive-switching valves achieved.

Each pin on the multi-pin plug can activate only one valve solenoid coil. If the maximum configurable number of valve positions is 20, this means that 20 valves each with a single solenoid can be addressed. With 10 or less valve positions, 2 solenoid coils per valve can be addressed. With 12 or more valve positions, the

addressed.
With 12 or more valve positions, the number of available valve positions for valves with two solenoid coils decreases (→ table below).

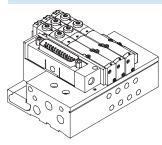
Example:

With 16 valve positions, valves with one or two solenoid coils can be actuated on the first four (0 ... 3) positions. Valves with just one solenoid coil are permissible at positions 4 ... 15.

| | Numb | umber of the valve position | | | | | | | | | | | | | | | | | | |
|---------------|------|-----------------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|
| solenoid coil | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| 20 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | | | | | | | | |
| 20 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | |
| 16 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | |
| 12 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | |
| 8 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | |

Electrical multi-pin plug connection - Sub-D

Code MS



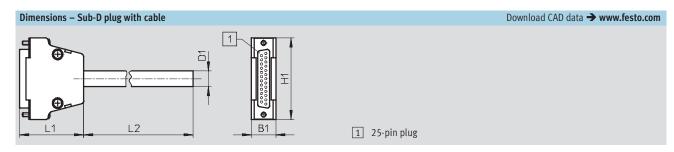
With this electrical connection variant, all valves are centrally actuated via the 25-pin connector

The electrical connection is located on the left-hand side and can be repositioned by 90°.



| | Pin | Address/ | Core colour ²⁾ | | Valve po | ositions ¹ |) | | | | | | | |
|---------|-------|----------------|---------------------------|------------|----------|-----------------------|------------|-----------|--------|-------|-------|-------|--|--|
| | | solenoid | KMP6-25P-1 | KMP6-25P-2 | 2 | 4 | 6 | 8 | 10 | 12 | 16 | 20 | | |
| | | coil | 2 | 0 | Valve po | osition n | o./coil de | signation | ' 1 | | • | , | | |
| | 1 | 0 | WH | WH | 0/14 | 0/14 | 0/14 | 0/14 | 0/14 | 0/14 | 0/14 | 0/14 | | |
| + 1 | 2 | 1 | BN | BN | 0/12 | 0/12 | 0/12 | 0/12 | 0/12 | 0/12 | 0/12 | 1/14 | | |
| 14+ + 2 | 3 | 2 | GN | GN | 1/14 | 1/14 | 1/14 | 1/14 | 1/14 | 1/14 | 1/14 | 2/14 | | |
| 15+ + 3 | 4 | 3 | YE | YE | 1/12 | 1/12 | 1/12 | 1/12 | 1/12 | 1/12 | 1/12 | 3/14 | | |
| 16+ + 4 | 5 | 4 | GY | GY | | 2/14 | 2/14 | 2/14 | 2/14 | 2/14 | 2/14 | 4/14 | | |
| 17+ + 5 | 6 | 5 | PK | PK | | 2/12 | 2/12 | 2/12 | 2/12 | 2/12 | 2/12 | 5/14 | | |
| 18+ | 7 | 6 | BU | BU | | 3/14 | 3/14 | 3/14 | 3/14 | 3/14 | 3/14 | 6/14 | | |
| 19+ + 6 | 8 | 7 | RD | RD | | 3/12 | 3/12 | 3/12 | 3/12 | 3/12 | 3/12 | 7/14 | | |
| 20+ + 7 | 9 | 8 | ВК | BK | | | 4/14 | 4/14 | 4/14 | 4/14 | 4/14 | 8/14 | | |
| 21+ + 8 | 10 | 9 | VT | VT | | | 4/12 | 4/12 | 4/12 | 4/12 | 5/14 | 9/14 | | |
| 27 + 9 | 11 | 10 | GY PK | GY PK | | | 5/14 | 5/14 | 5/14 | 5/14 | 6/14 | 10/14 | | |
| +10 | 12 | 11 | RD BU | RD BU | | | 5/12 | 5/12 | 5/12 | 5/12 | 7/14 | 11/14 | | |
| 23+ +11 | 13 | 12 | - | WH GN | | | | 6/14 | 6/14 | 6/14 | 8/14 | 12/14 | | |
| 24+ +12 | 14 | 13 | _ | BN GN | | | | 6/12 | 6/12 | 6/12 | 9/14 | 13/14 | | |
| 25+ +13 | 15 | 14 | _ | WH YE | | | | 7/14 | 7/14 | 7/14 | 10/14 | 14/14 | | |
| | 16 | 15 | _ | YE BN | | | | 7/12 | 7/12 | 7/12 | 11/14 | 15/14 | | |
| | 17 | 16 | | WH GY | | | | | 8/14 | 8/14 | 12/14 | 16/14 | | |
| | 18 | 17 | _ | GY BN | | | | | 8/12 | 9/14 | 13/14 | 17/14 | | |
| | 19 | 18 | _ | WH PK | | | | | 9/14 | 10/14 | 14/14 | 18/14 | | |
| | 20 | 19 | _ | PK BN | | | | | 9/12 | 11/14 | 15/14 | 19/14 | | |
| | 21 | com | - | WH BU | Coil 16 | 19 | | | | | | | | |
| | 22 | com | - | BN BU | Coil 12 | 15 | | | | | | | | |
| | 23 | com | WH GN | WH RD | Coil 8 | . 11 | | | | | | | | |
| | 24 | com | BN GN | BN RD | | | | | | | | | | |
| | 25 | com | WH YE | WH BK | Coil 0 | . 3 | | | | | | | | |
| | Numbe | er of solenoic | l coils | | 4 | 8 | 12 | 16 | 20 | 20 | 20 | 20 | | |

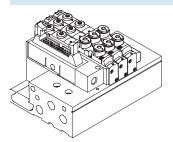
- Valve positions for actuation of 2 coils are shown against a grey background
 To IEC 757



| Туре | Code B1 [mm] | | D1 [mm] | H1 [mm] | L1 [mm] | L2 [m] |
|-----------------|--------------|----------|------------|------------|------------|-----------|
| | | [iiiiii] | [IIIIII] | [IIIIII] | [iiiiii] | [111] |
| KMP6-25P-20-2,5 | CP | 16 | 10.3 | 53.4 | 37.7 | 2.5 |
| KMP6-25P-20-5 | CQ | 16 | 10.3 | 53.4 | 37.7 | 5 |
| KMP6-25P-20-10 | CR | 16 | 10.3 | 53.4 | 37.7 | 10 |
| KMP6-25P-12-2,5 | CV | 16 | 8.5 | 53.4 | 37.7 | 2.5 |
| KMP6-25P-12-5 | CW | 16 | 8.5 | 53.4 | 37.7 | 5 |
| KMP6-25P-12-10 | CX | 16 | 8.5 | 53.4 | 37.7 | 10 |



Electrical multi-pin plug connection – Connector for flat cable Code MF



With this electrical connection variant, all valves are centrally actuated via the 26-pin connector

The electrical connection is located on the left-hand side and can be repositioned by 90°.

This connection is intended for flat cables to DIN EN 60603-13, cable cross section AWG26.

| Pin allocation - Connector for flat cable | | | | | | | | | | | | |
|-------------------------------------------|-------------------------|---------------|----------|-----------------------|-------------|--------|-------|-------|-------|--|--|--|
| | Pin | Address/ | Valve po | sitions ¹⁾ | | | | | | | | |
| | | solenoid coil | 4 | 6 | 8 | 10 | 12 | 16 | 20 | | | |
| | | | Valve po | sition no./ | coil design | nation | · | | | | | |
| | 1 | 0 | 0/14 | 0/14 | 0/14 | 0/14 | 0/14 | 0/14 | 0/14 | | | |
| | 2 | 1 | 0/12 | 0/12 | 0/12 | 0/12 | 0/12 | 0/12 | 1/14 | | | |
| | 3 | 2 | 1/14 | 1/14 | 1/14 | 1/14 | 1/14 | 1/14 | 2/14 | | | |
| | 4 | 3 | 1/12 | 1/12 | 1/12 | 1/12 | 1/12 | 1/12 | 3/14 | | | |
| 26 7 13 | 5 | 4 | 2/14 | 2/14 | 2/14 | 2/14 | 2/14 | 2/14 | 4/14 | | | |
| | 6 | 5 | 2/12 | 2/12 | 2/12 | 2/12 | 2/12 | 2/12 | 5/14 | | | |
| + + | 7 | 6 | 3/14 | 3/14 | 3/14 | 3/14 | 3/14 | 3/14 | 6/14 | | | |
| + + | 8 | 7 | 3/12 | 3/12 | 3/12 | 3/12 | 3/12 | 3/12 | 7/14 | | | |
| | 9 | 8 | | 4/14 | 4/14 | 4/14 | 4/14 | 4/14 | 8/14 | | | |
| + + | 10 | 9 | | 4/12 | 4/12 | 4/12 | 4/12 | 5/14 | 9/14 | | | |
| | 11 | 10 | | 5/14 | 5/14 | 5/14 | 5/14 | 6/14 | 10/14 | | | |
| 14 + + 1 | 12 | 11 | | 5/12 | 5/12 | 5/12 | 5/12 | 7/14 | 11/14 | | | |
| | 13 | 12 | | | 6/14 | 6/14 | 6/14 | 8/14 | 12/14 | | | |
| | 14 | 13 | | | 6/12 | 6/12 | 6/12 | 9/14 | 13/14 | | | |
| <u> </u> | 15 | 14 | | | 7/14 | 7/14 | 7/14 | 10/14 | 14/14 | | | |
| | 16 | 15 | | | 7/12 | 7/12 | 7/12 | 11/14 | 15/14 | | | |
| | 17 | 16 | | | | 8/14 | 8/14 | 12/14 | 16/14 | | | |
| | 18 | 17 | | | | 8/12 | 9/14 | 13/14 | 17/14 | | | |
| | 19 | 18 | | | | 9/14 | 10/14 | 14/14 | 18/14 | | | |
| | 20 | 19 | | | | 9/12 | 11/14 | 15/14 | 19/14 | | | |
| | 21 (free) | - | - | • | | • | _ | | | | | |
| | 22 | com | Coil 16. | 19 | | | | | | | | |
| | 23 | com | Coil 12. | 15 | | | | | | | | |
| | 24 | com | Coil 8 | Coil 8 11 | | | | | | | | |
| | 25 | com | Coil 4 | Coil 4 7 | | | | | | | | |
| | 26 | com | Coil 0 | 3 | | | | | | | | |
| | Number of solenoid coil | ls | 8 | 12 | 16 | 20 | 20 | 20 | 20 | | | |

¹⁾ Valve positions for actuation of 2 coils are shown against a grey background



Key features – Electrical components

Fieldbus Direct DeviceNet Profibus DP

Properties

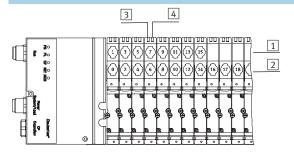
Fieldbus Direct is a system for the compact connection of a valve terminal of various sizes to different fieldbus standards.

The CP string extension option allows the functions and components of the CPI installation system to be used.

The I/O modules and cables for the CP string extension are ordered using the order code for the CPI installation system.

→ Internet: ctec

Address allocation - Solenoid coils



- 1 Solenoid coils 12
- 2 Solenoid coils 14
- 3 LED solenoid coil 12
- 4 LED solenoid coil 14

The addresses of the valve solenoids on the CPASC-DN/CPASC-DP are allocated from left to right, while the addresses of the individual valve positions are allocated from front to back.

Example:

Valve terminal where the first 8 valve positions are prepared for 2 solenoids each.

Each valve position can actuate one or two solenoid coils depending on the configuration (number of valve positions and internal wiring). It then occupies one or two addresses. The internal wiring cannot be changed subsequently. The number of addresses each valve position occupies has nothing to do with what is actually mounted on the valve position (valve, blanking plate).

If a valve position for 2 addresses is actually equipped with two solenoid coils, the following allocation applies:

- Solenoid coil 14 occupies the less significant address
- Solenoid coil 12 occupies the more significant address

If a valve position for 2 addresses is equipped with only one solenoid coil, the more significant address remains unused. The valve position occupies two addresses nonetheless.

| Address/ | Numl | oer of t | he val | ve pos | ition | | | | | | | | | | | | | | | | | | | |
|---------------|------|----------|--------|--------|-------|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| solenoid coil | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 32 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 32 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - |
| 32 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | - | - | - | - | - | - | - | - |
| 24 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | 2 | 2 | 2 | 2 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | 2 | 2 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Key features – Display and operation



Display and operation - Multi-pin plug and individual valve connection

Each valve solenoid coil is allocated an LED which indicates its operating status. Inscription labels (type IBS-6x10) can be applied to each valve for labelling purposes.

Alternatively inscription labels (type MH-BZ-80x) can also be affixed to the slot in the manifold block.

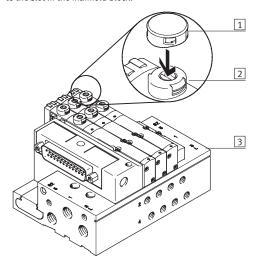
The manual override (MO) allows the valve to be activated without electronic control or power supply. The valve is activated by pushing the manual override. The set switching status can also be secured by turning the manual override.

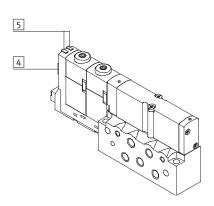
A cover can be fitted over the manual override to prevent it from being actuated accidentally (code V).



Note

A manually activated valve (manual override) cannot be reset electrically. Conversely, an electrically activated valve cannot be reset using the manual override facility.





- 1 Cover for manual override (code V or accessory CPASC-MO-V)
- 2 Optional manual override (pushing and detenting via turning using a screwdriver)
- 3 Slot for inscription labels type MH-BZ-80x
- 4 Location for valve inscription label type ISB-6x10
- 5 LED signal status display per solenoid coil

Manual override (MO)

Manual override with automatic return (non-detenting)

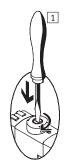


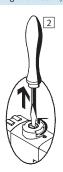


- 1 Press in the stem of the MO with a screwdriver.
- 2 Remove the screwdriver.

 Spring force pushes the stem of the MO back.

MO with detent (turning with detent)





- 1 Press in the stem of the MO with a screwdriver until the valve switches and then turn the stem clockwise by 90° until the stop is reached.
- 2 Turn the stem anti-clockwise by 90° until the stop is reached and then remove the screwdriver.

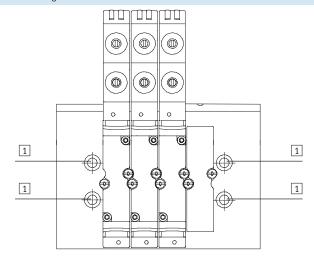
 Spring force pushes the stem of the MO back.
 - which with double solenoid valve code J).



Key features – Mounting types

Mounting - Valve terminal

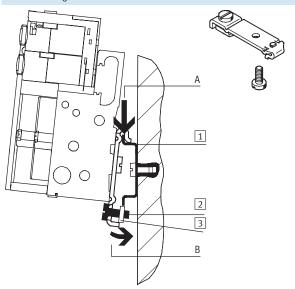
Wall mounting



The CPA-SC valve terminal is screwed onto the mounting surface using four M4 screws.

1 Holes for wall mounting

H-rail mounting



The CPA-SC valve terminal is attached to the H-rail (see arrow A).

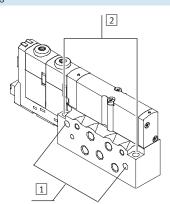
The CPA-SC valve terminal is then swivelled on the H-rail and secured in place with the clamping component (see arrow B).

For H-rail mounting of the CPA valve terminal, you will need the mounting kit CPA-BG-NRH. This enables the valve terminal to be mounted on a H-rail to EN 60715.

- 1 H-rail
- 2 Self-tapping M4x10 screw of the H-rail clamping unit
- 3 Clamping component of the H-rail clamping unit

Mounting - Individual sub-base

Wall mounting



The individual sub-base for wall mounting is designed for integration into a system or machine.

Mounting holes

- 1 Horizontal mounting
- 2 Vertical mounting





- 🚺 - Width 10 mm

- **** - Voltage 24 V DC



| General technical data | | | | | | | | | | | |
|------------------------------|-------|-----------------|-----------------|----------------|------------------|-----------------------|---------------|--------|----------|------------------------|--|
| Valve | | 5/2-way valve | | 2x 3/2-wa | 2x 3/2-way valve | | 5/3-way valve | | | 2x 2/2-way valve | |
| | | | | Normally | | Mid-position | | | Normally | Normally | |
| | | Single solenoid | Double solenoid | open | closed | ed pressurised closed | exhausted | closed | closed | | |
| Valve function ordering code | | M | J | N | K | В | G | Е | Х | I | |
| Design | | Electromagn | netically actu | uated piston s | spool valve | | | | | | |
| Width | [mm] | 10 | | | | | | | | | |
| Nominal diameter | [mm] | 2.5 | | | | | | | | | |
| Lubrication | | Lubricated f | for life, PWIS | -free (free of | paint-wetting | ; impairment su | bstances) | | | | |
| Type of mounting | | Wall mounting | | | | | | | | | |
| | | On H-rail to | EN 60715 | | | | | | | | |
| Assembly position | | Any | | | | | | | | | |
| Manual override | | Pushing/de | tented by tu | rning | | | | | | | |
| Pneumatic connections | | | | | | | | | | | |
| Pneumatic connection | | Via manifol | d block, PRS | manifold or | individual co | nnection | | | | | |
| Supply port | 1 | G1/8 (M5 wi | th individua | l block) | | | | | | | |
| Exhaust port | 3/5 | G1/8 (M5 wi | th individua | l block) | | | | | | | |
| Working lines | 2/4 | Depending | on the conne | ection type se | lected | | | | | | |
| | | • M5 | | | | | | | | | |
| | | • QS-3 | | | | | | | | | |
| | | • QS-4 | | | | | | | | | |
| Pilot air port | 12/14 | - (| h individual | , | | | | | | | |
| Pilot exhaust air port | 82/84 | M5 (M3 with | h individual | block) | | | | | | | |
| Pressure compensating port | L | M5, M3 | | | | | | | | | |



Technical data

| Valve response times [ms] | | | | | | | | | | |
|------------------------------|---------|----|----|----|----|----|----|----|----|----|
| Valve function ordering code | | M | J | N | K | В | G | E | Х | 1 |
| Response times on | | 10 | - | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | off | 20 | - | 20 | 20 | 25 | 25 | 25 | 20 | 20 |
| | change- | - | 10 | - | - | - | - | - | - | - |
| | over | | | | | | | | | |

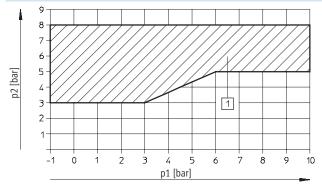
| Operating and environmenta | l conditions | | | | | | | | | | |
|-------------------------------|-----------------|---------------|-----------------------------------------------------------------------|----------------------|---|----------|---|---|---|----------------------|--|
| Valve function ordering code | | М | J | N | K | В | G | E | Х | I | |
| Operating medium | | Filtered comp | Filtered compressed air, lubricated or unlubricated, inert gases → 35 | | | | | | | | |
| Grade of filtration | [µm] | 40 | | | | | | | | | |
| Operating pressure | [bar] | -0.9 +10 | | 3 10 | | -0.9 +10 | | | | 3 10 | |
| Operating pressure for valve | [bar] | 3 8 | | • | | | | | | • | |
| terminal with internal pilot | | | | | | | | | | | |
| air supply | | | | | | | | | | | |
| Pilot pressure | [bar] | 3 8 | | | | | | | | | |
| Ambient temperature | [°C] | -5 +60 | | -5 +40 ²⁾ | | -5 +60 | | | | -5 +40 ²⁾ | |
| Ambient temperature in | [°C] | -5 +50 | | -5 +40 ²⁾ | | -5 +50 | | | | -5 +40 ²⁾ | |
| case of fieldbus connection | | | | | | | | | | | |
| Storage temperature | [°C] | -20 +40 | | | | | | | | | |
| Corrosion resistance class CR | C ¹⁾ | 1 | | | | | | | | | |
| Certification | | c UL us - Rec | ognized (OL) | | | | | | | | |

¹⁾ Corrosion resistance class 1 according to Festo standard 940 070 Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

2) Restricted ambient temperature in case of two permanently activated solenoid coils per valve location, otherwise same temperature range as ordering code M.

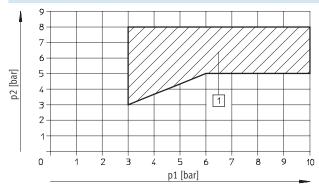
Pilot pressure p2 as a function of working pressure p1 with external pilot air supply

for valve sub-bases with code M, J, B, G, E, $\rm X$



① Operating range for valves with external pilot air supply

for valve sub-bases with code N, K, I



① Operating range for valves with external pilot air supply



| Electrical data | | | | | | | | | | | | |
|------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------|------------|------|---|---|---|--|--|--|
| Valve function ordering code | M | J | N | K | В | G | Е | Х | I | | | |
| Electromagnetic compatibility of the CPA-SC valve terminal (Sub-D or flat cable connection) | | | Interference emission tested to EN 61000-6-4, industry Interference immunity ¹⁾ tested to EN 61000-6-2, industry | | | | | | | | | |
| Protection against electric sh (protection against direct an contact to EN 60204-1/IEC 2 | d indirect | By means of | f PELV power | supply unit | | | | | | | | |
| Operating voltage of valves a | nd electroni | ic components | 5 | | | | | | | | | |
| Nominal operating voltage | 24 DC | 24 DC | | | | | | | | | | |
| Operating voltage range | [V] | 20.4 26.4 | 4 DC | | | | | | | | | |
| Electrical power consumption | n | | | | | | | | | | | |
| Electronic components | [mA] | 200 and cu | rrent consun | nption of ser | nsors | | | | | | | |
| Valves | [W] | Pull: 1, hold | Pull: 1, hold: 0.3 | | | | | | | | | |
| Residual ripple | [Vss] | 4 | | | | | | | | | | |
| Cut-off pause | [ms] | Min. 1 | Min. 1 | | | | | | | | | |
| Switching frequency | [Hz] | Max. 10 | | | | | | | | | | |
| Duty cycle | | 100% | 100% | | | | | | | | | |
| Protection class to EN 60529 |) | IP40 (in ass | sembled state | e and with d | etenting p | lug) | | | | | | |
| Relative air humidity | | 90% at 40° | 90% at 40°C, non-condensing | | | | | | | | | |
| Vibration resistance | | To DIN/IEC 68/EN 60068, Parts 2-6, severity level 2 | | | | | | | | | | |
| Continuous shock resistance | | To DIN/IEC 6 | To DIN/IEC 68/EN 60068, Parts 2-27, severity level 2 | | | | | | | | | |

¹⁾ The maximum signal line length is 10 m

| Materials | | | | | | | | | | |
|------------------------------|---------------|-------------------------|---|---|---|---|---|---|---|--|
| Valve function ordering code | M | J | N | K | В | G | Е | Χ | 1 | |
| Manifold block | Wrought alu | Vrought aluminium alloy | | | | | | | | |
| Valve sub-base | Die-cast alu | Die-cast aluminium | | | | | | | | |
| Seal | Nitrile rubbe | er | | | | | | | | |

| Product weight [g] | Approx. wei | ghts | | | | | | | |
|--------------------------------------|-------------|------|---|---|---|---|---|---|---|
| Valve function ordering code | M | J | N | K | В | G | E | Х | I |
| Basic manifold block weight | 125 | | | | | | | | |
| Additional manifold block weight per | 40 | | | | | | | | |
| valve position | | | | | | | | | |
| Individual block | 45 | | | | | | | | |
| per valve sub-base | 40 | | | | | | | | |
| Fieldbus connection | 150 | | | | | | | | |



| Standard nominal fl | ow rate [l | l/min] | | | | |
|---------------------|------------|--------------------------------------------|-------|------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| | Code | Valve function | Valve | Individual block | CPA-SC valve ter- minal with multi-pin plug connection/indi- vidual PI connections | CPA-SC valve ter- minal with individual horizontal connec- tions |
| R | Sub-ba | ase valve | | | | |
| | M | 5/2-way valve, single solenoid | 220 | 170 | 150 | 120 |
| | J | 5/2-way valve, double solenoid | 220 | 170 | 150 | 120 |
| | N | 2x 3/2-way valve, normally open | 220 | 170 | 150 | 120 |
| | K | 2x 3/2-way valve, normally closed | 180 | 150 | 120 | 120 |
| | В | 5/3-way valve, mid-position pressurised | 220 | 150 | 120 | 120 |
| | G | 5/3-way valve, mid-position closed | 180 | 150 | 120 | 120 |
| | E | 5/3-way valve, mid-position exhausted | 180 | 150 | 120 | 120 |
| | Х | 1x 3/2-way valve | 120 | - | 100 | 85 |
| | I | 2x 2/2-way valve | 150 | 140 | 140 | 120 |
| | | | | | | |
| | | n-line valve with working port M5 | | | | |
| | M | 5/2-way valve, single solenoid | 200 | 180 | 180 | 180 |
| | J | 5/2-way valve, double solenoid | 200 | 180 | 180 | 180 |
| | N | 2x 3/2-way valve, normally open | 200 | 180 | 180 | 180 |
| | K | 2x 3/2-way valve, normally closed | 150 | 150 | 150 | 150 |
| | В | 5/3-way valve, mid-position pressurised | 180 | 180 | 180 | 180 |
| | G | 5/3-way valve, mid-position closed | 150 | 150 | 150 | 150 |
| | E | 5/3-way valve, mid-position exhausted | 180 | 170 | 180 | 170 |
| | Χ | 1x 3/2-way valve | 120 | - | 120 | 120 |
| | I | 2x 2/2-way valve | 150 | 150 | 150 | 150 |



| | Code | Valve function | Valve | Individual block | CPA-SC valve ter- | CPA-SC valve ter- | | | | | | | |
|---------|---------|----------------------------------------------------|-----------|------------------|-----------------------|-----------------------|--|--|--|--|--|--|--|
| | | | | | minal with multi-pin | minal with individual | | | | | | | |
| | | | | | plug connection/indi- | horizontal connec- | | | | | | | |
| | | | | | vidual PI connections | tions | | | | | | | |
| | Semi ii | n-line valve, working port with QS- | 3 fitting | | | | | | | | | | |
| | M | 5/2-way valve, | 140 | 140 | 140 | 140 | | | | | | | |
| | | single solenoid | | | | | | | | | | | |
| | J | 5/2-way valve, | 140 | 140 | 140 | 140 | | | | | | | |
| | | double solenoid | | | | | | | | | | | |
| 4 | N | 2x 3/2-way valve, | 140 | 140 | 140 | 140 | | | | | | | |
| | | normally open | | | | | | | | | | | |
| | K | 2x 3/2-way valve, | 130 | 130 | 130 | 130 | | | | | | | |
| | | normally closed | | | | | | | | | | | |
| | В | 5/3-way valve, | 140 | 140 | 140 | 140 | | | | | | | |
| | | mid-position pressurised | | | | | | | | | | | |
| | G | 5/3-way valve, | 130 | 130 | 130 | 130 | | | | | | | |
| | | mid-position closed | | | | | | | | | | | |
| | E | 5/3-way valve, | 140 | 140 | 140 | 140 | | | | | | | |
| | | mid-position exhausted | | | | | | | | | | | |
| | Χ | 1x 3/2-way valve | 100 | - | 100 | 100 | | | | | | | |
| | I | 2x 2/2-way valve | 130 | 130 | 130 | 130 | | | | | | | |
| | | | | | | | | | | | | | |
| | | Semi in-line valve, working port with QS-4 fitting | | | | | | | | | | | |
| | M | 5/2-way valve, | 180 | 170 | 180 | 180 | | | | | | | |
| | | single solenoid | | | | | | | | | | | |
| | J | 5/2-way valve, | 180 | 170 | 180 | 180 | | | | | | | |
| | | double solenoid | | | | | | | | | | | |
| | N | 2x 3/2-way valve, | 180 | 170 | 180 | 180 | | | | | | | |
| | | normally open | | | | | | | | | | | |
| | K | 2x 3/2-way valve, | 150 | 150 | 150 | 150 | | | | | | | |
| | | normally closed | | | | | | | | | | | |
| | В | 5/3-way valve, | 180 | 170 | 180 | 170 | | | | | | | |
| | | mid-position pressurised | | | | | | | | | | | |
| | G | 5/3-way valve, | 150 | 150 | 150 | 150 | | | | | | | |
| | | mid-position closed | | | | | | | | | | | |
| | E | 5/3-way valve, | 170 | 170 | 170 | 170 | | | | | | | |
| | | mid-position exhausted | | | | | | | | | | | |
| | X | 1x 3/2-way valve | 120 | - | 120 | 120 | | | | | | | |
| | 1 | 2x 2/2-way valve | 150 | 140 | 150 | 150 | | | | | | | |

Technical data



Pneumatic equipment

Operate your equipment with unlubricated compressed air if possible. Festo valves and cylinders are designed for operation under normal use without any additional lubrication, yet still have a long service life. The quality of compressed air downstream from the compressor must correspond to that of unlubricated compressed air. If possible, do not operate all of your equipment with lubricated compressed air. The lubricators should, where possible, always be installed directly upstream of the cylinders used.

Incorrect additional oil and too high an oil content in the compressed air reduces the service life of a valve terminal

Use Festo special oil OFSW-32 or the alternatives listed in the Festo catalogue (as specified in DIN 51524 HLP32; basic oil viscosity 32 CST at 40 $^{\circ}$ C).

Bio-oils

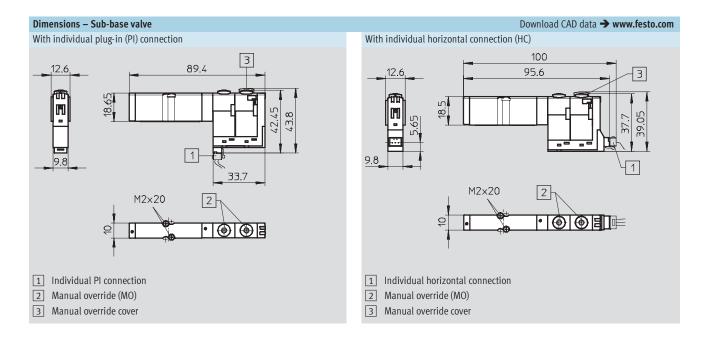
When using bio-oils (oils which are based upon synthetic or native ester, e.g. rapeseed oil methyl ester), the maximum residual oil content of 0.1 mg/m³ must not be exceeded (see ISO 8573-1 Class 2).

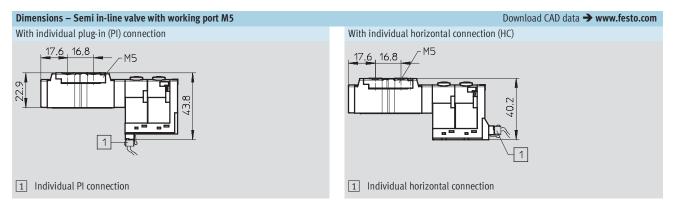
Mineral oils

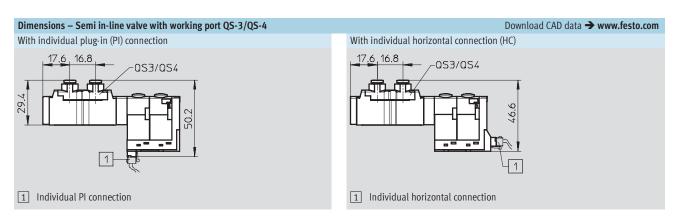
When using mineral oils (e.g. HLP oils to DIN 51524, parts 1 through 3) or similar oils based on poly-alpha-ole-fins (PAO), the maximum residual oil content of 5 mg/m³ must not be exceeded (see ISO 8573-1 Class 4). A higher residual oil content irrespective of the compressor oil cannot be permitted, as the basic lubricant would be flushed out over time.



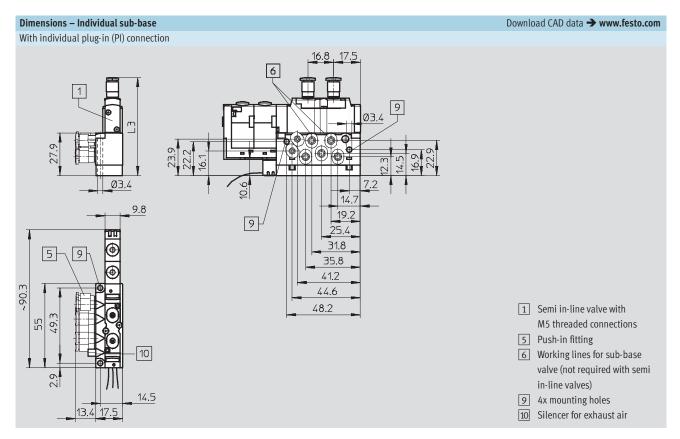
Technical data





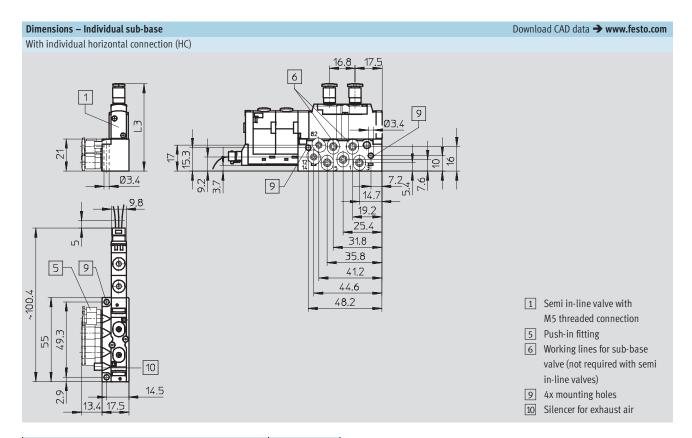






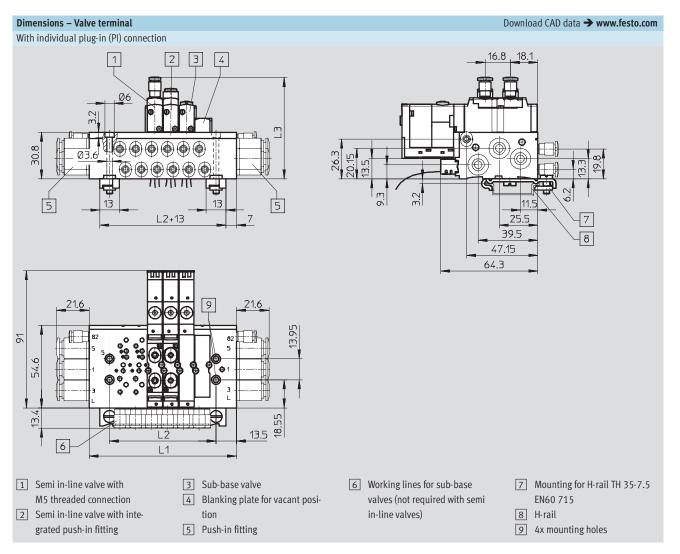
| Valve type | | L3 |
|--------------------|------------------------|------|
| Semi in-line valve | with working port M5 | 50.8 |
| | with working port QS-3 | 57.2 |
| | with working port QS-4 | 57.2 |
| Sub-base valve | | 48.3 |
| Blanking plate | | 37.1 |





| Valve type | | L3 |
|--------------------|------------------------|------|
| Semi in-line valve | with working port M5 | 43.9 |
| | with working port QS-3 | 50.3 |
| | with working port QS-4 | 50.3 |
| Sub-base valve | | 41.4 |
| Blanking plate | | 30.2 |

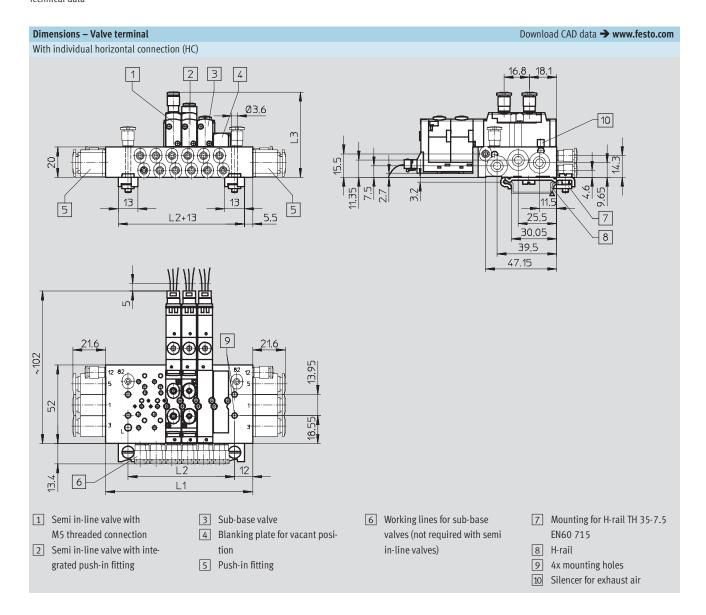




| Valve positions | L1 | L2 | |
|-----------------|-------|-------|--|
| 2 | 55,5 | 28.5 | |
| 4 | 76.5 | 49.5 | |
| 6 | 97.5 | 70.5 | |
| 8 | 118.5 | 91.5 | |
| 10 | 139.5 | 112.5 | |
| 12 | 160.5 | 133.5 | |
| 16 | 202.5 | 175.5 | |

| Valve type | | L3 |
|--------------------|------------------------|------|
| Semi in-line valve | with working port M5 | 53.7 |
| | with working port QS-3 | 60.1 |
| | with working port QS-4 | 60.1 |
| Sub-base valve | | 51.2 |
| Blanking plate | | 40 |





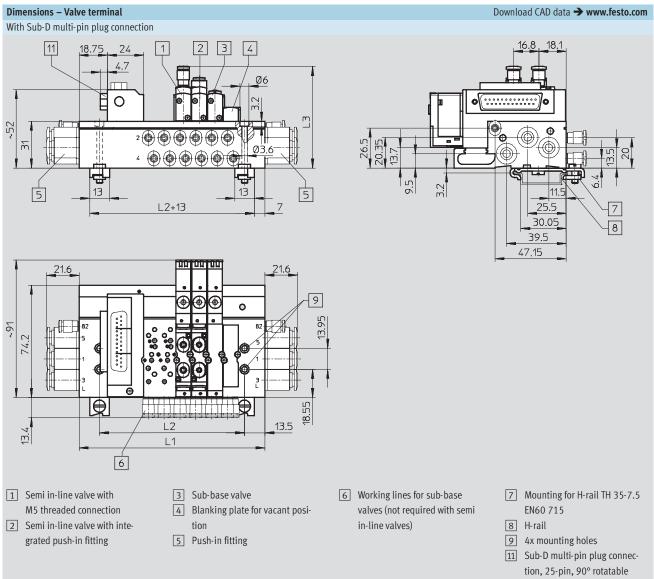
| Valve positions | L1 | L2 | |
|-----------------|-------|-----|--|
| 2 | 54.5 | 29 | |
| 4 | 75.5 | 50 | |
| 6 | 96.5 | 71 | |
| 8 | 117.5 | 92 | |
| 10 | 138.5 | 113 | |
| 12 | 159.5 | 134 | |
| 16 | 201.5 | 176 | |

| Valve type | | L3 |
|-----------------------------------------|------------------------|------|
| Semi in-line valve with working port M5 | | 42.9 |
| | with working port QS-3 | 49.3 |
| | with working port QS-4 | 49.3 |
| Sub-base valve | | 40.4 |
| Blanking plate | | 29.2 |

Valve terminals type 82 CPA-SC, Smart Cubic



Technical data

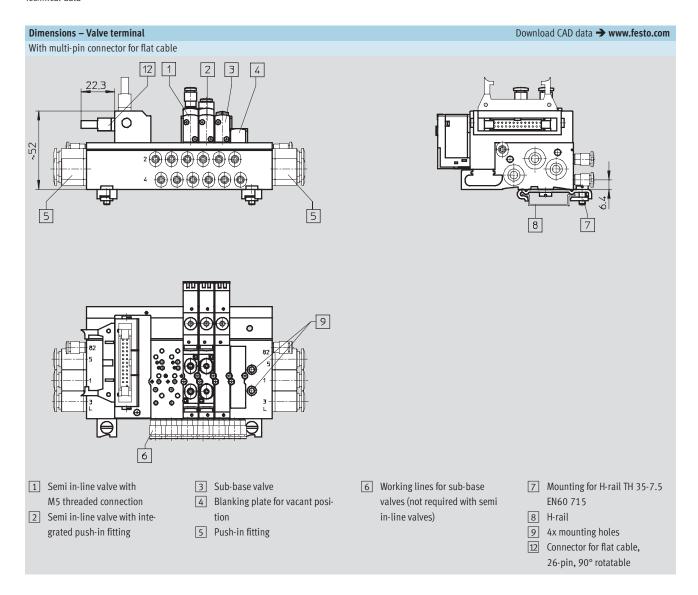


| Valve positions | L1 | L2 | |
|-----------------|-----|-----|--|
| 2 | 81 | 54 | |
| 4 | 102 | 75 | |
| 6 | 123 | 96 | |
| 8 | 144 | 117 | |
| 10 | 165 | 138 | |
| 12 | 186 | 159 | |
| 16 | 228 | 201 | |
| 20 | 270 | 243 | |

| Valve type | | L3 |
|--------------------|------------------------|------|
| Semi in-line valve | with working port M5 | 53.9 |
| | with working port QS-3 | 60.3 |
| | with working port QS-4 | 60.3 |
| Sub-base valve | | 51.4 |
| Blanking plate | | 40.2 |

| | 11 | Sub-D mu |
|--|----|------------|
| | | tion, 25-p |
| | | |
| | | |
| | | |
| | | |

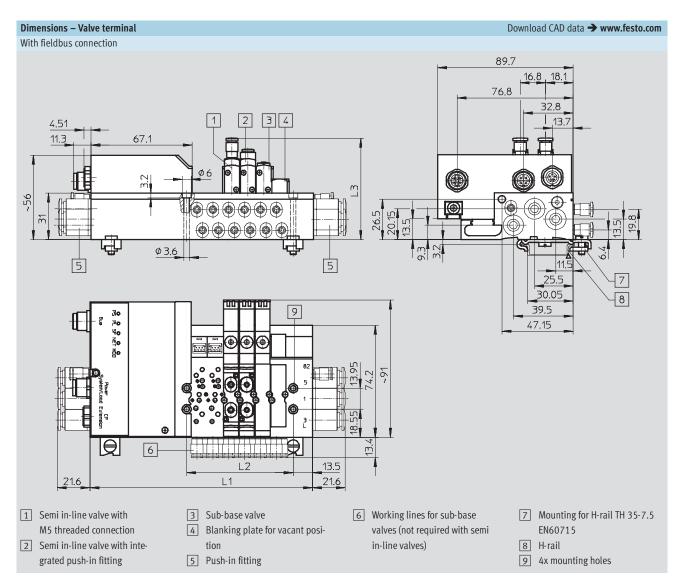




Valve terminals type 82 CPA-SC, Smart Cubic



Technical data



| Valve positions | L1 | L2 | |
|-----------------|-------|-------|--|
| 4 | 127.2 | 49.5 | |
| 6 | 148.2 | 70.5 | |
| 8 | 169.2 | 91.5 | |
| 10 | 190.2 | 112.5 | |
| 12 | 211.2 | 133.5 | |
| 16 | 253.2 | 175.5 | |
| 20 | 295.2 | 217.5 | |
| 24 | 337.2 | 259.5 | |

| Valve type | | L3 |
|--------------------|------------------------|------|
| Semi in-line valve | with working port M5 | 53.9 |
| | with working port QS-3 | 60.3 |
| | with working port QS-4 | 67.3 |
| Sub-base valve | | 51.4 |
| Blanking plate | | 40.2 |

Valve terminals type 82 CPA-SC, Smart Cubic Ordering data – Individual valve



| Ordering data - Sul | b-base valv | es | | | | | |
|---------------------|-------------|--------------------------------------------|-------------------------------|----------|----------------------------------|----------|--|
| | Code | Valve function | Electrical plug-in connection | | Electrical horizontal connection | | |
| | | | Туре | Part No. | Туре | Part No. | |
| E \ | M | 5/2-way valve, single solenoid | CPASC1-M1H-M-P-2,5 | 526990 | CPASC1-M1H-M-H-2,5 | 527008 | |
| | J | 5/2-way valve, double solenoid | CPASC1-M1H-J-P-2,5 | 526992 | CPASC1-M1H-J-H-2,5 | 527010 | |
| | N | 2x 3/2-way valve, normally open | CPASC1-M1H-N-P-2,5 | 526994 | CPASC1-M1H-N-H-2,5 | 527012 | |
| | K | 2x 3/2-way valve, normally closed | CPASC1-M1H-K-P-2,5 | 526996 | CPASC1-M1H-K-H-2,5 | 527014 | |
| | В | 5/3-way valve, mid-position pressurised | CPASC1-M1H-B-P-2,5 | 526998 | CPASC1-M1H-B-H-2,5 | 527016 | |
| | G | 5/3-way valve, mid-position closed | CPASC1-M1H-G-P-2,5 | 527000 | CPASC1-M1H-G-H-2,5 | 527018 | |
| | Е | 5/3-way valve, mid-position exhausted | CPASC1-M1H-E-P-2,5 | 527002 | CPASC1-M1H-E-H-2,5 | 527020 | |
| | Х | 1x 3/2-way valve | CPASC1-M1H-X-P-2,5 | 527004 | CPASC1-M1H-X-H-2,5 | 527022 | |
| | I | 2x 2/2-way valve | CPASC1-M1H-I-P-2,5 | 527006 | CPASC1-M1H-I-H-2,5 | 527024 | |

| Co | de | Valve function | Electrical plug-in connect | ion | Electrical horizontal conn | ection | | | |
|--------------|--------------------------------------------|---------------------------------|----------------------------|----------|----------------------------|---------|--|--|--|
| | | | Туре | Part No. | Туре | Part No | | | |
| Se | mi in-li | ine valve with M5 working ports | | | | | | | |
| M | | 5/2-way valve, single solenoid | CPPSC1-M1H-M-P-M5 | 527294 | CPPSC1-M1H-M-H-M5 | 527303 | | | |
| | | 5/2-way valve, double solenoid | CPPSC1-M1H-J-P-M5 | 527295 | CPPSC1-M1H-J-H-M5 | 527304 | | | |
| N | | 2x 3/2-way valve, | CPPSC1-M1H-N-P-M5 | 527296 | CPPSC1-M1H-N-H-M5 | 52730 | | | |
| | | normally open | | | | | | | |
| K | | 2x 3/2-way valve, | CPPSC1-M1H-K-P-M5 | 527297 | CPPSC1-M1H-K-H-M5 | 52730 | | | |
| | | normally closed | | | | | | | |
| В | | 5/3-way valve, | CPPSC1-M1H-B-P-M5 | 527298 | CPPSC1-M1H-B-H-M5 | 52730 | | | |
| | | mid-position pressurised | | | | | | | |
| G | | 5/3-way valve, | CPPSC1-M1H-G-P-M5 | 527299 | CPPSC1-M1H-G-H-M5 | 52730 | | | |
| | | mid-position closed | | | | | | | |
| E | | 5/3-way valve, | CPPSC1-M1H-E-P-M5 | 527300 | CPPSC1-M1H-E-H-M5 | 52730 | | | |
| | | mid-position exhausted | | | | | | | |
| Х | | 1x 3/2-way valve | CPPSC1-M1H-X-P-M5 | 527301 | CPPSC1-M1H-X-H-M5 | 52731 | | | |
| I | | 2x 2/2-way valve | CPPSC1-M1H-I-P-M5 | 527302 | CPPSC1-M1H-I-H-M5 | 52731 | | | |
| | | | | | | | | | |
| Se | Semi in-line valve with QS-3 working ports | | | | | | | | |
| M | | 5/2-way valve, single solenoid | CPPSC1-M1H-M-P-Q3 | 527330 | CPPSC1-M1H-M-H-Q3 | 52733 | | | |
| J | | 5/2-way valve, double solenoid | CPPSC1-M1H-J-P-Q3 | 527331 | CPPSC1-M1H-J-H-Q3 | 52734 | | | |
| N | | 2x 3/2-way valve, | CPPSC1-M1H-N-P-Q3 | 527332 | CPPSC1-M1H-N-H-Q3 | 52734 | | | |
| | | normally open | | | | | | | |
| K | | 2x 3/2-way valve, | CPPSC1-M1H-K-P-Q3 | 527333 | CPPSC1-M1H-K-H-Q3 | 52734 | | | |
| | | normally closed | | | | | | | |
| В | | 5/3-way valve, | CPPSC1-M1H-B-P-Q3 | 527334 | CPPSC1-M1H-B-H-Q3 | 52734 | | | |
| | | mid-position pressurised | | | | | | | |
| G | | 5/3-way valve, | CPPSC1-M1H-G-P-Q3 | 527335 | CPPSC1-M1H-G-H-Q3 | 52734 | | | |
| | | mid-position closed | | | | | | | |
| Е | | 5/3-way valve, | CPPSC1-M1H-E-P-Q3 | 527336 | CPPSC1-M1H-E-H-Q3 | 52734 | | | |
| | | mid-position exhausted | | | | | | | |
| Х | | 1x 3/2-way valve | CPPSC1-M1H-X-P-Q3 | 527337 | CPPSC1-M1H-X-H-Q3 | 52734 | | | |
| | | 2x 2/2-way valve | CPPSC1-M1H-I-P-Q3 | 527338 | CPPSC1-M1H-I-H-Q3 | 52734 | | | |

Valve terminals type 82 CPA-SC, Smart Cubic Ordering data – Individual valve, manifold block



| Ordering data - Sem | i in-line va | alves | | | | |
|---------------------|--------------|--------------------------------------------|----------------------------|----------|----------------------------------|----------|
| | Code | Valve function | Electrical plug-in connect | ion | Electrical horizontal connection | |
| | | | Туре | Part No. | Туре | Part No. |
| 660 | Semi in- | line valve with QS-4 working ports | | | | |
| | M | 5/2-way valve, single solenoid | CPPSC1-M1H-M-P-Q4 | 527312 | CPPSC1-M1H-M-H-Q4 | 527321 |
| | J | 5/2-way valve, double solenoid | CPPSC1-M1H-J-P-Q4 | 527313 | CPPSC1-M1H-J-H-Q4 | 527322 |
| T. C. | N | 2x 3/2-way valve, normally open | CPPSC1-M1H-N-P-Q4 | 527314 | CPPSC1-M1H-N-H-Q4 | 527323 |
| | K | 2x 3/2-way valve, normally closed | CPPSC1-M1H-K-P-Q4 | 527315 | CPPSC1-M1H-K-H-Q4 | 527324 |
| | В | 5/3-way valve, mid-position pressurised | CPPSC1-M1H-B-P-Q4 | 527316 | CPPSC1-M1H-B-H-Q4 | 527325 |
| i i | G | 5/3-way valve, mid-position closed | CPPSC1-M1H-G-P-Q4 | 527317 | CPPSC1-M1H-G-H-Q4 | 527326 |
| | E | 5/3-way valve, mid-position exhausted | CPPSC1-M1H-E-P-Q4 | 527318 | CPPSC1-M1H-E-H-Q4 | 527327 |
| | Х | 1x 3/2-way valve | CPPSC1-M1H-X-P-Q4 | 527319 | CPPSC1-M1H-X-H-Q4 | 527328 |
| | I | 2x 2/2-way valve | CPPSC1-M1H-I-P-Q4 | 527320 | CPPSC1-M1H-I-H-Q4 | 527329 |



Manifold blocks with multi-pin plug or fieldbus connection can only be equipped with valves with electrical plug-in connection.

| Ordering data – Individual sub-base | | | | | | |
|-------------------------------------|--------------------------------|--------------------|--------|--|--|--|
| | With internal pilot air supply | CPPSC1-PRS-1-5-HC | 527384 | | | |
| 3330 | With external pilot air supply | CPPSC1-PRS-1-5S-HC | 527388 | | | |

| | Valve positions | Internal pilot air supply | | External pilot air supply | |
|-----------------------------------------|-----------------|---------------------------|----------|---------------------------|----------|
| | | Туре | Part No. | Туре | Part No. |
| ndividual plug-in c | connection | | | | |
| 100 | 2 | CPASC1-PRS-2-5-M5-PI | 527106 | CPASC1-PRS-2-5S-M5-PI | 527218 |
| | 4 | CPASC1-PRS-4-5-M5-PI | 527108 | CPASC1-PRS-4-5S-M5-PI | 527220 |
| | 6 | CPASC1-PRS-6-5-M5-PI | 527110 | CPASC1-PRS-6-5S-M5-PI | 527222 |
| | 8 | CPASC1-PRS-8-5-M5-PI | 527112 | CPASC1-PRS-8-5S-M5-PI | 527224 |
| | 10 | CPASC1-PRS-10-5-M5-PI | 527114 | CPASC1-PRS-10-5S-M5-PI | 527226 |
| | 12 | CPASC1-PRS-12-5-M5-PI | 527116 | CPASC1-PRS-12-5S-M5-PI | 527228 |
| | 16 | CPASC1-PRS-16-5-M5-PI | 527118 | CPASC1-PRS-16-5S-M5-PI | 527230 |
| | • | | | • | • |
| ndividual horizont | al connection | | | | |
| (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | 2 | CPASC1PRS-2-5-M5-HC | 527078 | CPASC1PRS-2-5S-M5-HC | 527190 |
| | 4 | CPASC1PRS-4-5-M5-HC | 527080 | CPASC1PRS-4-5S-M5-HC | 527192 |
| 23 | 6 | CPASC1PRS-6-5-M5-HC | 527082 | CPASC1PRS-6-5S-M5-HC | 527194 |
| • | 8 | CPASC1PRS-8-5-M5-HC | 527084 | CPASC1PRS-8-5S-M5-HC | 527196 |
| | 10 | CPASC1PRS-10-5-M5-HC | 527086 | CPASC1PRS-10-5S-M5-HC | 527198 |
| | 12 | CPASC1PRS-12-5-M5-HC | 527088 | CPASC1PRS-12-5S-M5-HC | 527200 |
| | 16 | CPASC1PRS-16-5-M5-HC | 527090 | CPASC1PRS-16-5S-M5-HC | 527202 |

Valve terminals type 82 CPA-SC, Smart Cubic Ordering data – Individual valve, manifold block



| | Valve positions | Internal pilot air supply | | External pilot air supply | |
|---------------------|---------------------|---------------------------|----------|---------------------------|----------|
| | | Туре | Part No. | Туре | Part No. |
| Multi-pin plug conr | nection, Sub-D | | | | |
| /ino | 2 | CPASC1-PRS-2-5-M5-MP | 539898 | CPASC1-PRS-2-5S-M5-MP | 539896 |
| | 4 | CPASC1-PRS-4-5-M5-MP | 527134 | CPASC1-PRS-4-5S-M5-MP | 527246 |
| | 6 | CPASC1-PRS-6-5-M5-MP | 527136 | CPASC1-PRS-6-5S-M5-MP | 527248 |
| | 8 | CPASC1-PRS-8-5-M5-MP | 527138 | CPASC1-PRS-8-5S-M5-MP | 527250 |
| | 10 | CPASC1-PRS-10-5-M5-MP | 527140 | CPASC1-PRS-10-5S-M5-MP | 527252 |
| | 12 | CPASC1-PRS-12-5-M5-MP | 527142 | CPASC1-PRS-12-5S-M5-MP | 527254 |
| | 16 | CPASC1-PRS-16-5-M5-MP | 527144 | CPASC1-PRS-16-5S-M5-MP | 527256 |
| | 20 | CPASC1-PRS-20-5-M5-MP | 527146 | CPASC1-PRS-20-5S-M5-MP | 527258 |
| | | | | | |
| Iulti-pin plug conr | nection, flat cable | | | | |
| 100 | 4 | CPASC1-PRS-4-5-M5-FL | 527162 | CPASC1-PRS-4-5S-M5-FL | 527274 |
| | 6 | CPASC1-PRS-6-5-M5-FL | 527164 | CPASC1-PRS-6-5S-M5-FL | 527276 |
| | 8 | CPASC1-PRS-8-5-M5-FL | 527166 | CPASC1-PRS-8-5S-M5-FL | 527278 |
| **** | 10 | CPASC1-PRS-10-5-M5-FL | 527168 | CPASC1-PRS-10-5S-M5-FL | 527280 |
| | 12 | CPASC1-PRS-12-5-M5-FL | 527170 | CPASC1-PRS-12-5S-M5-FL | 527282 |
| | 16 | CPASC1-PRS-16-5-M5-FL | 527172 | CPASC1-PRS-16-5S-M5-FL | 527284 |
| | 20 | CPASC1-PRS-20-5-M5-FL | 527174 | CPASC1-PRS-20-5S-M5-FL | 527286 |

| 5 | anifold block for sem Valve positions | Internal pilot air supply | | External pilot air supply | | |
|----------------------|---------------------------------------|---------------------------|----------|---------------------------|----------|--|
| | valve positions | Type | Part No. | Type | Part No. | |
| | | Туре | rait No. | Туре | rait No. | |
| Individual plug-in o | connection | | | | | |
| 1000 | 2 | CPPSC1-PRS-2-5-PI | 527092 | CPPSC1-PRS-2-5S-PI | 527204 | |
| | 4 | CPPSC1-PRS-4-5-PI | 527094 | CPPSC1-PRS-4-5S-PI | 527206 | |
| | 6 | CPPSC1-PRS-6-5-PI | 527096 | CPPSC1-PRS-6-5S-PI | 527208 | |
| | 8 | CPPSC1-PRS-8-5-PI | 527098 | CPPSC1-PRS-8-5S-PI | 527210 | |
| | 10 | CPPSC1-PRS-10-5-PI | 527100 | CPPSC1-PRS-10-5S-PI | 527212 | |
| | 12 | CPPSC1-PRS-12-5-PI | 527102 | CPPSC1-PRS-12-5S-PI | 527214 | |
| | 16 | CPPSC1-PRS-16-5-PI | 527104 | CPPSC1-PRS-16-5S-PI | 527216 | |
| | | - | ı | | ı | |
| Individual horizont | al connection | | | | | |
| <u></u> | 2 | CPPSC1PRS-2-5-HC | 527064 | CPPSC1PRS-2-5S-HC | 527176 | |
| | 4 | CPPSC1PRS-4-5-HC | 527066 | CPPSC1PRS-4-5S-HC | 527178 | |
| | 6 | CPPSC1PRS-6-5-HC | 527068 | CPPSC1PRS-6-5S-HC | 527180 | |
| | 8 | CPPSC1PRS-8-5-HC | 527070 | CPPSC1PRS-8-5S-HC | 527182 | |
| | 10 | CPPSC1PRS-10-5-HC | 527072 | CPPSC1PRS-10-5S-HC | 527184 | |
| | 12 | CPPSC1PRS-12-5-HC | 527074 | CPPSC1PRS-12-5S-HC | 527186 | |
| | 16 | CPPSC1PRS-16-5-HC | 527076 | CPPSC1PRS-16-5S-HC | 527188 | |
| | • | | | • | • | |
| Multi-pin plug conr | nection, Sub-D | | | | | |
| /, t.o | 2 | CPPSC1-PRS-2-5-MP | 539902 | CPPSC1-PRS-2-5S-MP | 539900 | |
| | 4 | CPPSC1-PRS-4-5-MP | 527120 | CPPSC1-PRS-4-5S-MP | 527232 | |
| | 6 | CPPSC1-PRS-6-5-MP | 527122 | CPPSC1-PRS-6-5S-MP | 527234 | |
| 73.9 | 8 | CPPSC1-PRS-8-5-MP | 527124 | CPPSC1-PRS-8-5S-MP | 527236 | |
| | 10 | CPPSC1-PRS-10-5-MP | 527126 | CPPSC1-PRS-10-5S-MP | 527238 | |
| | 12 | CPPSC1-PRS-12-5-MP | 527128 | CPPSC1-PRS-12-5S-MP | 527240 | |
| | 16 | CPPSC1-PRS-16-5-MP | 527130 | CPPSC1-PRS-16-5S-MP | 527242 | |
| | 20 | CPPSC1-PRS-20-5-MP | 527132 | CPPSC1-PRS-20-5S-MP | 527244 | |

Valve terminals type 82 CPA-SC, Smart Cubic Ordering data – Accessories



| Ordering data - Mani | fold block for semi | in-line valves | | | | | |
|-----------------------|---------------------|---------------------------|----------|---|---------------------------|--|----------|
| | Valve positions | Internal pilot air supply | | | External pilot air supply | | |
| | | Туре | Part No. | | Туре | | Part No. |
| Multi-pin plug connec | tion, flat cable | | | | | | |
| /,100 | 4 | CPPSC1-PRS-4-5-FL | 527148 | | CPPSC1-PRS-4-5S-FL | | 527260 |
| | 6 | CPPSC1-PRS-6-5-FL | 527150 | Ī | CPPSC1-PRS-6-5S-FL | | 527262 |
| | 8 | CPPSC1-PRS-8-5-FL | 527152 | Ī | CPPSC1-PRS-8-5S-FL | | 527264 |
| | 10 | CPPSC1-PRS-10-5-FL | 527154 | Ī | CPPSC1-PRS-10-5S-FL | | 527266 |
| | 12 | CPPSC1-PRS-12-5-FL | 527156 | Ī | CPPSC1-PRS-12-5S-FL | | 527268 |
| | 16 | CPPSC1-PRS-16-5-FL | 527158 | Ī | CPPSC1-PRS-16-5S-FL | | 527270 |
| | 20 | CPPSC1-PRS-20-5-FL | 527160 | | CPPSC1-PRS-20-5S-FL | | 527272 |

| Ordering data – Acc | cessories | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------|-----------------------|-----------|
| Designation | | | Туре | Part No. |
| Soldering base for p | olug-in connection | | • | |
| | 3-pin | Scope of delivery 10 pieces | PCBC-B-10 | 539904 |
| | 3-pin | Scope of delivery 100 pieces | PCBC-B-100 | 539905 |
| | | | | |
| Plug socket with cal | ole for plug-in connection | In a | Tanana ni | 1,,,,,,,, |
| | For 1 coil | 0.5 m | MHAP-PI | 197260 |
| | | 1 m | MHAP-PI-1 | 532182 |
| - day | For 2 coils | 0.5 m | MHAP-PI-D-0,5 | 529116 |
| | | 1 m | MHAP-PI-D-1 | 527395 |
| DI 1 | | | | |
| Plug socket with cal | ole for horizontal connection | | Lancas | T |
| A STATE OF THE STA | For 1 coil, 2-wire | 0.5 m | KMH-0,5 | 197263 |
| | | 1 m | KMH-1 | 197264 |
| | | 2.5 m | KMH-2,5 | 527400 |
| | | 5 m | KMH-5 | 527401 |
| | For 2 coils, 3-wire | 0.5 m | KMH-D-0,5 | 527396 |
| | | 1 m | KMH-D-1 | 527397 |
| | | 2.5 m | KMH-D-2,5 | 527398 |
| | | 5 m | KMH-D-5 | 527399 |
| | | | | |
| Connecting cable to | | | | |
| | Sub-D, 25-pin, up to 20 coils | 2.5 m | KMP6-25P-20-2,5 | 530046 |
| | | 5 m | KMP6-25P-20-5 | 530047 |
| | | 10 m | KMP6-25P-20-10 | 530048 |
| | Sub-D, 25-pin, up to 12 coils | 2.5 m | KMP6-25P-12-2,5 | 530049 |
| _ | | 5 m | KMP6-25P-12-5 | 530050 |
| | | 10 m | KMP6-25P-12-10 | 530051 |
| | | • | · | |
| Power supply | | | | |
| | MicroStyle M12, 5-pin socket (B-coded) for DeviceNet | for 0.75 mm ² | NTSD-GD-9-M12-5POL-RK | 538999 |
| | M12, 5-pin socket (A-coded) for Profibus DP | for 0.75 mm ² | FBSD-GD-9-5POL | 18324 |

Valve terminals type 82 CPA-SC, Smart Cubic Ordering data – Accessories



| Ordering data - | - Accessories | | | |
|--------------------|--------------------------------------------------------------------------------------|--------------------------|---------------------|----------|
| Designation | | | Туре | Part No. |
| Fieldbus conne | ction | | | |
| 610 | Plug to IP65, M12, 5-pin, PG9 for DeviceNet | for 0.75 mm ² | FBS-M12-5GS-PG9 | 175380 |
| | Fieldbus socket for MicroStyle connection, M12, 5-pin socket (A-coded) for DeviceNet | for 0.75 mm ² | FBSD-GD-9-5POL | 18324 |
| Adapter | | | | |
| | T-adapter, 5-pin, for DH-485/DeviceNet | _ | FB-TA-M12-5POL | 171175 |
| Valve terminal o | connection | | · | |
| | Connecting cable WS-WD, angled plug-angled socket | 0.25 m | KVI-CP-3-WS-WD-0,25 | 540327 |
| | | 0.5 m | KVI-CP-3-WS-WD-0,5 | 540328 |
| | | 2 m | KVI-CP-3-WS-WD-2 | 540329 |
| • | | 5 m | KVI-CP-3-WS-WD-5 | 540330 |
| | | 8 m | KVI-CP-3-WS-WD-8 | 540331 |
| | Connecting cable GS-GD, straight plug-straight socket | 2 m | KVI-CP-3-GS-GD-2 | 540332 |
| | | 5 m | KVI-CP-3-GS-GD-5 | 540333 |
| THE REAL PROPERTY. | | 8 m | KVI-CP-3-GS-GD-8 | 540334 |

Valve terminals type 82 CPA-SC, Smart Cubic Accessories



| Ordering data - | Accessories | | | |
|--------------------|--------------------------------------|------|---------------------------|----------|
| Designation | | | Туре | Part No. |
| Push-in fitting fo | r working ports | | | |
| 6 | Connecting thread M5 for tubing O.D. | 3 mm | QSM-M5-3 | 153302 |
| | | 4 mm | QSM-M5-4 | 153304 |
| | | 3 mm | QSM-M5-3-I | 153313 |
| | | 4 mm | QSM-M5-4-I | 153315 |
| | | | | · |
| Push-in L-fitting | for working ports | | | |
| ~ | Connecting thread M5 for tubing O.D. | 3 mm | QSML-M5-3 | 153331 |
| (M) 1 | | 4 mm | QSML-M5-4 | 153333 |
| | | 6 mm | QSML-M5-6 | 153335 |
| | | 4 mm | QSMLL-M5-4 | 153339 |
| | | 6 mm | QSMLL-M5-6 | 153341 |
| | | , | ' | |
| Push-in fitting fo | r manifold block | | | |
| <u> </u> | Connecting thread M3 for tubing O.D. | 3 mm | QSM-M3-3 | 153301 |
| | | 4 mm | QSM-M3-4 | 153303 |
| | | 3 mm | QSM-M3-3-I | 153312 |
| | | 4 mm | QSM-M3-4-I | 153314 |
| | Connecting thread M5 for tubing O.D. | 3 mm | QSM-M5-3 | 153302 |
| | | 4 mm | QSM-M5-4 | 153304 |
| | | 6 mm | QSM-M5-6 | 153306 |
| | | 3 mm | QSM-M5-3-I | 153313 |
| | | 4 mm | QSM-M5-4-I | 153315 |
| | | 6 mm | QSM-M5-6-I | 153317 |
| | Connecting thread G½ for tubing O.D. | 4 mm | QSM-G ¹ /8-4-I | 186266 |
| | | 6 mm | QSM-G ¹ /8-6-I | 186267 |
| | | 8 mm | QS-G ¹ /8-8-I | 186109 |
| | Connecting thread R½ for tubing O.D. | 4 mm | QSM-1/8-4 | 153305 |
| | | 6 mm | QSM-1/8-6 | 153307 |
| | | 4 mm | QSM-1/8-4-I | 153316 |
| | | 6 mm | QSM-1/8-6-I | 153318 |
| | · | 1 | | , |
| Push-in L-fitting | for manifold block | | | |
| | Connecting thread M3 for tubing O.D. | 3 mm | QSML-M3-3 | 153330 |
| (5) | | 4 mm | QSML-M3-4 | 153332 |
| | | 3 mm | QSMLL-M3-3 | 153337 |
| | | 4 mm | QSMLL-M3-4 | 153338 |
| | Connecting thread M5 for tubing O.D. | 3 mm | QSML-M5-3 | 153331 |
| | | 4 mm | QSML-M5-4 | 153333 |
| | | 6 mm | QSML-M5-6 | 153335 |
| | | 4 mm | QSMLL-M5-4 | 153339 |
| | | 6 mm | QSMLL-M5-6 | 153341 |
| | Connecting thread R½ for tubing O.D. | 4 mm | QSML-1/8-4 | 153334 |
| | | 6 mm | QSML-1/8-6 | 153336 |
| | | 4 mm | QSMLL-1/8-4 | 153340 |
| | | 6 mm | QSMLL-1/8-6 | 153342 |

Valve terminals type 82 CPA-SC, Smart Cubic Accessories

FESTO

| Ordering data – Acce | essories | | | |
|----------------------|-----------------------------------------|--------------------|----------------|----------|
| Designation | | | Туре | Part No. |
| Silencer | | | 1 " | |
| | Connecting thread | M3 | U-M3 | 163978 |
| | | M5 | U-M5 | 4645 |
| | | M5 | UC-M5 | 165003 |
| | | G1/8 | UC-1/8 | 161419 |
| \sim | Push-in sleeve connection | 3 mm | UC-QS-3H | 165005 |
| | | 4 mm | UC-QS-4H | 165006 |
| | | 6 mm | UC-QS-6H | 165007 |
| | | 8 mm | UC-QS-8H | 175611 |
| | | | | |
| Blanking plug | Thursd AAC | | In we | 120/2 |
| | Thread M5 | | B-M5 | 3843 |
| <u> </u> | Thread M5 | | B-M5-B | 174308 |
| | Thread G1/8 | | B-1/8 | 3568 |
| | Blanking plug for tubing O.D. | 4 mm | QSC-4H | 153267 |
| 0 | | 6 mm | QSC-6H | 153268 |
| | | 8 mm | QSC-8H | 153269 |
| | | 3 mm | QSMC-3H | 153382 |
| | | | | |
| Inscription labels | | | | |
| | 6x10 in frames, 64 pieces for valve in | | IBS-6x10 | 18576 |
| | 4.5x9 mm, 80 pieces for manifold bl | ock identification | MH-BZ-80x | 197259 |
| Mounting | | | | |
| Mounting | For H-rail | | CPASC1-BG-NRH | 527392 |
| | Torirran | | CPASCI-BO-MAII | 327392 |
| Blanking plate | | | | |
| <u> </u> | Cover for vacant position ¹⁾ | | CPASC1-RP | 527062 |
| 200 | | | | |
| | Cover for manual override, covered (1 | 0 pieces) | VMPA-HBV-B | 540898 |
| /alve seal | | | | |
| | For manifold block | | CPASC1-SEAL-A | 527394 |
| | | | | |
| Separator and assem | nbly tool | | | |
| A) | Separator | | CPASC1-KT | 536942 |
| | Assembly tool for separator | | CPASC1-MWKT | 536943 |
| | , | | | 330343 |

¹⁾ A self-adhesive label is supplied.

Valve terminals type 82 CPA-SC, Smart Cubic Accessories



| Ordering data – Acce | ssories | | | |
|----------------------|-------------------------------------------|---------|------------------------|----------|
| Designation | Designation | | | Part No. |
| User documentation | | | | |
| | User documentation – CPA-SC | German | P.BE-CPASC-DE | 530932 |
| | | English | P.BE-CPASC-EN | 530933 |
| | | French | P.BE-CPASC-FR | 530934 |
| | | Spanish | P.BE-CPASC-ES | 530935 |
| | | Italian | P.BE-CPASC-IT | 530936 |
| | | Swedish | P.BE-CPASC-SV | 530937 |
| | User documentation – DeviceNet fieldbus | German | P.BE-CPASC-CPVSC-DN-DE | 539008 |
| | | English | P.BE-CPASC-CPVSC-DN-EN | 539009 |
| | | French | P.BE-CPASC-CPVSC-DN-FR | 539010 |
| | | Spanish | P.BE-CPASC-CPVSC-DN-ES | 539011 |
| | | Italian | P.BE-CPASC-CPVSC-DN-IT | 539012 |
| | | Swedish | P.BE-CPASC-CPVSC-DN-SV | 539013 |
| | User documentation – Profibus DP fieldbus | German | P.BE-CPASC-CPVSC-DP-DE | 548725 |
| | | English | P.BE-CPASC-CPVSC-DP-EN | 548726 |
| | | French | P.BE-CPASC-CPVSC-DP-FR | 548728 |
| | | Spanish | P.BE-CPASC-CPVSC-DP-ES | 548727 |
| | | Italian | P.BE-CPASC-CPVSC-DP-IT | 548729 |
| | | Swedish | P.BE-CPASC-CPVSC-DP-SV | 548730 |