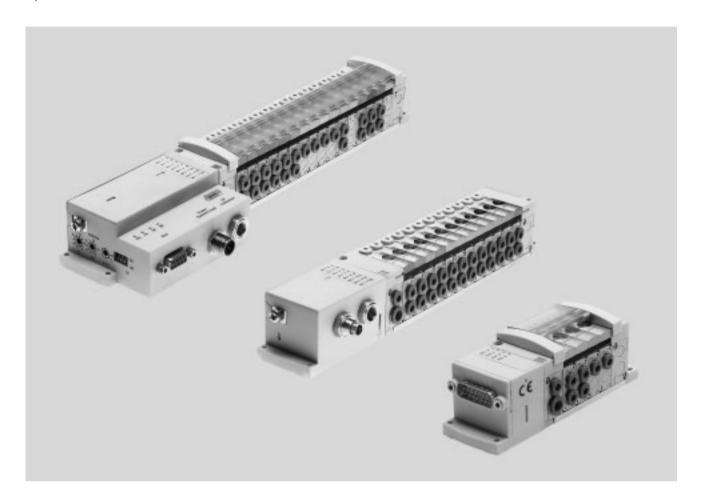
## **FESTO**



Key features



### Innovative

- Small, compact valve terminal for a wide range of pneumatic applications
- Enormous flexibility during planning, assembly and operational use
- Multi-pin plug connection and fieldbus interface
- Wide range of selectable valve functions; 5/2-way, 3/2-way and 2/2-way functions
- With flow rates of up to 170 l/min, CPV-SC offers outstanding pneumatic performance for a wide range of applications
- Low weight

### Versatile

- Provides 2 ... 16 valve positions on one terminal
- Ideally suited for operating small pneumatic drives in tight spaces
- The flexibility of the pneumatic working ports provides a practical solution to different requirements
- Round silencers, integrated flat plate silencers or screw/plug connection for ducted exhaust air
- Suitable for vacuum
- Enables multiple pressure zones on a single valve terminal

### Reliable

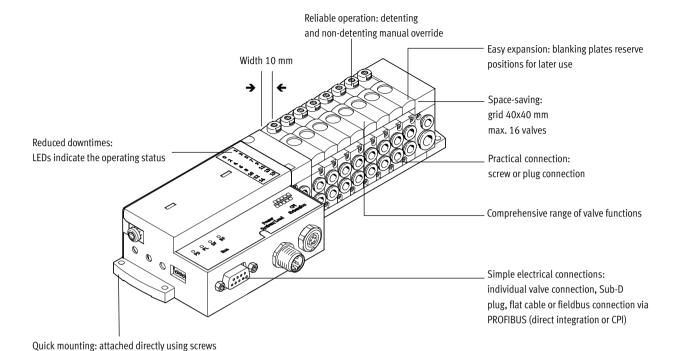
- Manual override
- Durable thanks to the use of tried and tested piston spool valves
- Sturdy thanks to metal housing and connecting thread
- Fast troubleshooting thanks to an LED on each valve and diagnostics via fieldbus

## Easy to mount

- Fully assembled and tested valve terminal
- Less complicated when ordering, installing and commissioning
- Suitable for direct mounting even on moving system components







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Valve functions

- 5/2-way valve, single solenoid
- 5/2-way valve, double solenoid
- 3/2-way valve, normally open
- 3/2-way valve, normally closed
- 2/2-way valve, normally closed

## Separator plate with additional compressed air supply

- Compressed air channel (1) closed
- Compressed air channel (1) and exhaust duct (3/5) closed

## Blanking plate

 Plate without valve function for reserving a valve position

## **Electrical connection options**

Individual connection

- 2 ... 16 valve positions/ max. 16 solenoid coils
- Individual connection, horizontal (H)
- Individual connection, vertical (T)

## Multi-pin plug

- 4 ... 16 valve positions/ max. 16 solenoid coils
- Sub-D
- Flat cable

### Fieldbus Direct

- 4 ... 16 valve positions/ max. 16 solenoid coils
- PROFIBUS

## CP string extension

- Further valve terminals CPV-SC-CPI, MPA-S or CPV
- Electrical I/O modules

#### CPI interface

- 4 ... 16 valve positions/ max. 16 solenoid coils
- Further valve terminals CPV-SC-CPI, MPA-S or CPV



Online via: → www.festo.com

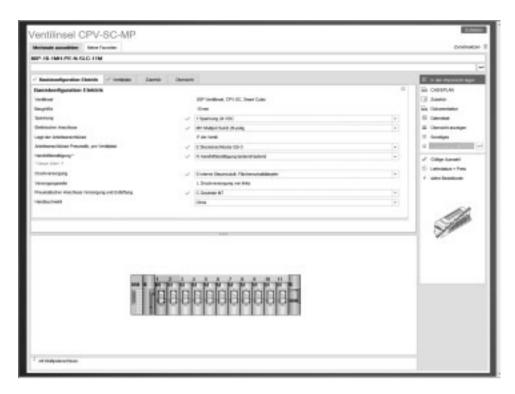
Key features

## Valve terminal configurator

Selecting a CPV-SC valve terminal using the online catalogue is quick and easy thanks to the convenient valve terminal configurator provided. This makes it much easier to order the right product. The valve terminals are assembled according to your order specifications and are individually tested. This reduces the assembly and installation time to a minimum. The valve terminal CPV-SC is ordered using the order code.

Ordering system for CPV-SC

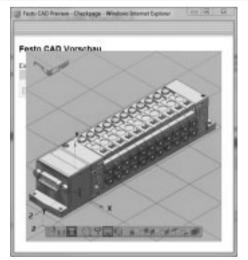
→ Internet: cpv-sc



## 2D/3D CAD data

You can request the CAD data for a valve terminal you have configured. To do so, perform the product search as described above. Go to the shopping

basket and click on the CAD icon. On the next page you can generate a 3D preview or request another data format of your choice by e-mail.

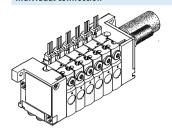


Online via: → www.festo.com

Key features



### Individual connection



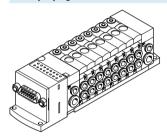
Connection is independent of the control technology used and is flexible thanks to ready to install cables. This ensures correct polarity during installation.

Valves with integrated LED (CPVSC1-M1LH-...) are available as an option for switching status display. Individual connection permits the selection of 2 to 16 solenoid coils (divided between 2 to 16 valve positions).

#### Variants

- Individual connection, horizontal
- Individual connection, vertical
- 2 to 16 solenoid coils

## Multi-pin plug connection



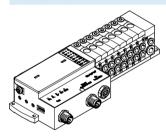
Control signals to the valve terminal are transmitted via a pre-assembled multi-core cable, which substantially reduces installation time.

The multi-pin plug connection enables the selection of 4 to 16 solenoid coils (divided between 4 to 16 valve positions).

#### Variants

- Sub-D connection
- Flat cable connection
- 4 to 16 solenoid coils

## **Fieldbus Direct**



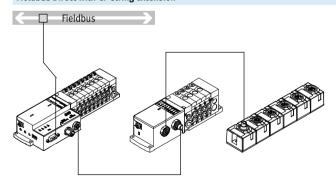
An integrated bus node manages the communication connection to a higher-order PLC. This enables a space-saving pneumatic and electronic solution.

The fieldbus connection enables the selection of 4 to 16 solenoid coils (divided between 4 to 16 valve positions).

#### Variants

- PROFIBUS connection (CPI functionality)
- 4 to 16 solenoid coils

## Fieldbus Direct with CP string extension



The optional string extension enables additional valve terminals and I/O modules to be connected to the bus node of the CPV-SC. A CP string of the CPI installation system is integrated in the bus node as an extension. Different input and output modules as well as CPV, MPA-S, CPV-SC 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:

- Logic and sensor supply for the input modules
- Load voltage supply for the valve terminals
- Logic supply for the output modules

#### With CP functionality:

- 16 input signals
- 16 output signals for output modules 24 V DC or solenoid coils

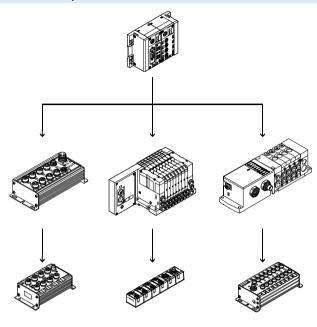
## With CPI functionality:

- 32 input signals
- 32 output signals for output modules 24 V DC or solenoid coils



Key features

## CPI installation system



Valve terminal for CPI installation system:

Valve terminals with CP connection are intended for connection to higher-order bus nodes or to control blocks. A bus node or control block also enables the connection of decentralised input/output units. The following bus protocols are supported:

- PROFIBUS DP
- INTERBUS
- DeviceNet
- CANopen
- CC-Link
- EtherNet/IP
- PROFINET
- POWERLINKEtherCAT
- Sercos III

Four strings with up to 32 inputs and outputs can be connected to a bus node or control block. The connecting cables transmit the power supply for the input modules and the load voltage for the valves as well as control signals.

Further information

→ Internet: ctec



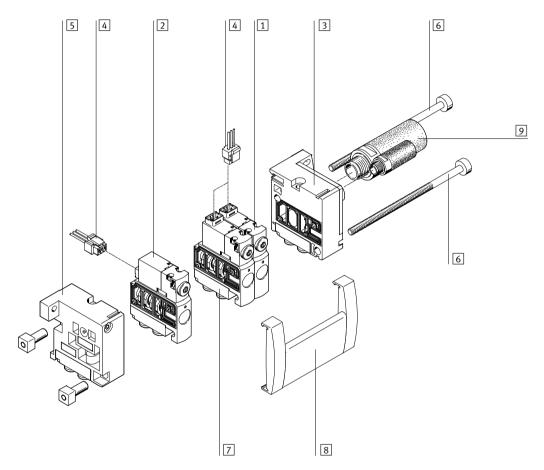
Peripherals overview

## Overview - CPV-SC valve terminal

Valve terminal with individual electrical connections

- Vertical individual connection Code: T
- Horizontal individual connection Code: H

Valve terminals with individual electrical connection can be equipped with 2 to max. 16 valve positions. Each valve position can either be equipped with a valve or a blanking plate.



- 1 Valve with vertical individual connection
- 2 Valve with horizontal individual connection
- Right-hand sub-base for unducted exhaust air
- 4 Plug socket with cable for individual electrical connection of the valves
- 5 Left-hand end plate for compressed air supply 1 or 12/14
- 6 Tie rod
- 7 Sub-base for working ports (push-in fitting or thread)
- 8 Inscription label holder
- 9 Pneumatic silencer

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Peripherals overview

## Valve terminal with electrical multi-pin plug connection

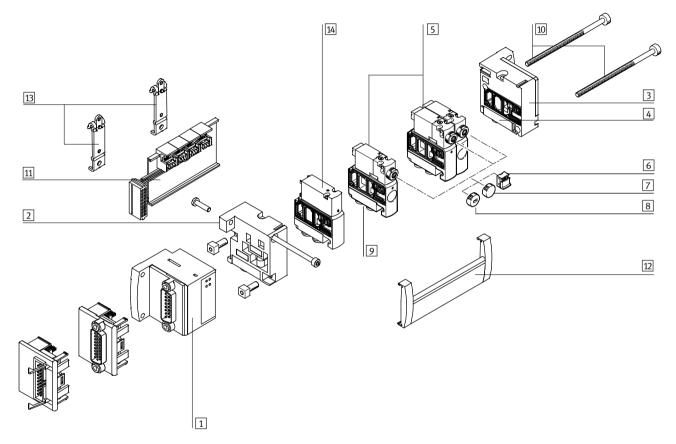
 15-pin and 26-pin Sub-D multi-pin plug connection
 Code: MS, MH

or

• 20-pin multi-pin plug connection with connector for flat cable Code: MF Valves and end plates are the basic pneumatic components of the valve terminal.

The valve terminals are connected to the end plates using tie rods.

Valve terminals with electrical multipin plug connection can be equipped with 4 to max. 16 valve positions. Each valve position can either be equipped with a valve or a blanking plate. The electrical connection is located on the left-hand side, thereby allowing particularly flush installation of the system.



- Electrical control unit (with LED switching status indications) for Sub-D plug connector or flat cable
- 2 Left-hand end plate for compressed air supply 1 or 12/14
- Right-hand end plate for ducted exhaust air or pneumatic silencer (3/5 or 82/84)
- 4 Sub-base for ducted exhaust air (push-in fitting or thread)
- 5 Valve
- 6 Cover cap, MO manually operated without accessories (code Y)
- Cover cap for manual override, MO blocked (code V)
- 8 Cover cap coded, MO nondetenting (code K)
- Sub-base for working ports (push-in fitting or thread)
- 10 Tie rod
- 11 Electrical valve linking module
- 12 Inscription label holder
- 13 H-rail mounting
- Blanking plate for vacant position





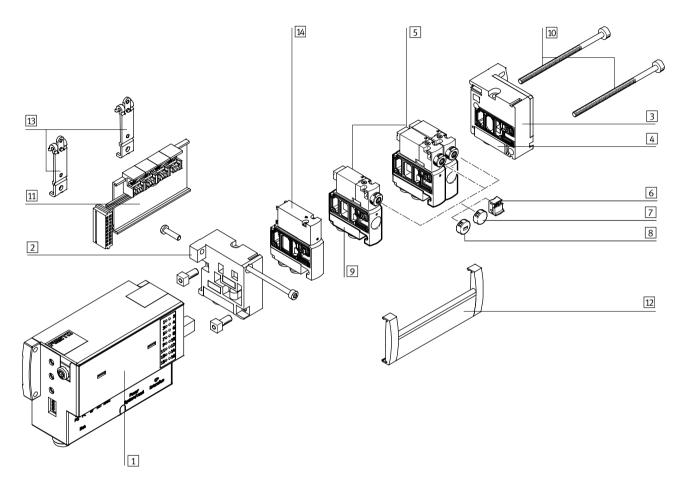
### Valve terminal with Fieldbus Direct

 9-pin Sub-D connection for PROFIBUS Code: DP Valves and end plates are the basic pneumatic components of the valve terminal.

The valve terminals are connected to the end plates using tie rods.

Valve terminals with Fieldbus Direct PROFIBUS DP can be equipped with 4 to max. 16 valve positions. Each valve position can either be equipped with a valve or a blanking plate.

The electrical connection is in the same direction as the tubing connection in order to save space.



- 1 Fieldbus Direct
- 2 Left-hand end plate for compressed air supply 1 or 12/14
- Right-hand end plate for ducted exhaust air or pneumatic silencer (3/5 or 82/84)
- 4 Sub-base for ducted exhaust air (push-in fitting or thread)
- 5 Valve
- 6 Cover cap, manual override manually operated without accessory (Code Y)
- Cover cap for manual override, MO blocked (Code V)
- 8 Cover cap coded, MO nondetenting (Code K)
- 9 Sub-base for working ports(push-in fitting or thread)
- 10 Tie rod
- 11 Electrical valve linking module
- 12 Inscription label holder
- 13 H-rail mounting
- 14 Blanking plate for vacant position



Peripherals overview

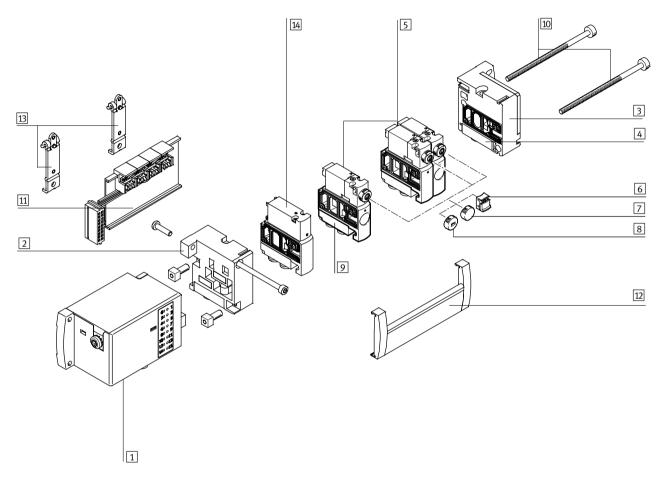
### Valve terminal with CPI connection

CP interface M9, 5-pin Code: CP

Valves and end plates are the basic pneumatic components of the valve terminal.

The valve terminals are connected to the end plates using tie rods.

Valve terminals with CPI interface can be equipped with 4 to max. 16 valve positions. Each valve position can either be equipped with a valve or a blanking plate. The electrical connection is in the same direction as the tubing connection in order to save space.



- 1 CPI connection
- 2 Left-hand end plate for compressed air supply 1 or 12/14
- Right-hand end plate for ducted exhaust air or pneumatic silencer (3/5 or 82/84)
- 4 Sub-base for ducted exhaust air (push-in fitting or thread)
- 5 Valve
- 6 Cover cap, MO manually operated without accessories (code Y)
- Cover cap for manual override, MO blocked (code V)
- 8 Cover cap coded, MO nondetenting (code K)
- 9 Sub-base for working ports (push-in fitting or thread)
- 10 Tie rod
- 11 Electrical valve linking module
- 12 Inscription label holder
- 13 H-rail mounting
- Blanking plate for vacant position



Key features – Pneumatic components

### Valves

CPVSC1 valves are valves with integrated sub-base, i.e. in addition to the valve function they contain all of the ducts for supply, exhaust and the

working ports. The supply ducts are a central component of the valve slices and enable a direct flow of air. This helps achieve maximum flow rates. All

valves have a pneumatic pilot control for optimising performance. The valve function is based on a piston spool system with a patented sealing principle that guarantees its suitability for a wide range of applications as well as a long service life.

Valve functions	Code	Circuit symbol	Valve size	Description
	M	14 84 5 1 3	•	<ul><li>5/2-way single solenoid valve</li><li>Pneumatic spring return</li></ul>
	N	10 2 1 12 82 1 3	•	<ul><li>3/2-way single solenoid valve</li><li>Normally open</li><li>Pneumatic spring return</li></ul>
	К	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	<ul> <li>3/2-way single solenoid valve</li> <li>Normally closed</li> <li>Pneumatic spring return</li> </ul>
	D	14 84 1	•	<ul><li>2/2-way single solenoid valve</li><li>Normally closed</li><li>Pneumatic spring return</li></ul>
	J	24 2 12 14 06 511 5 32	•	5/2-way double solenoid valve This valve consists of two valve housing units and therefore occupies two valve positions. The pilot control with coil 12 is located on the left and labelled "J12". If both coils are actuated, the signal at port "14" dominates in switching position.



## Note

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).

## Valve terminals CPV-SC, Smart Cubic Key features – Pneumatic components



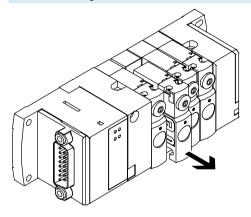
Valves				
Valve functions	Code	Circuit symbol	Valve size 10 mm	Description
Pneumatic supply plate with duct separa	tion			
3 12/14 5 82/84	Т	82/84	•	Compressed air channel (1) closed For separating pressure zones with a common exhaust. (Using pressure zones → 14) Pneumatic connection: QS-4, M5
3 12/14 1 5	S	82/84 12/14 1 1 1 1 1 3 1 1 2 1 4	•	Compressed air channel (1) and exhaust duct (3/5) closed For separating pressure zones with a separate exhaust. (Using pressure zones → 14) Pneumatic connection: QS-4, M5
Pneumatic supply plate without duct sep	aration			
3 12/14 5 82/84	U	82/84	•	Additional compressed air supply (1) and additional exhaust (3/5). Pneumatic connection: QS-4, M5
Blanking plate				
3 12/14 1 5 82/84	L	82/84	•	Plate without valve function for reserving a valve position.  No pneumatic connection

In the case of compressed air supply configuration code S or T (exhausting via flat plate silencer), a plug-in silencer UC-QS-4H is included with supply plates.

Key features – Pneumatic components



#### Constructional design



### Valve replacement

Valves can be replaced quickly and easily in just a few movements.

Separating seals between the valves are based on a metal support and are secured in place.

#### Extension

Valves can be ordered as accessories and are available with fully assembled sub-bases with QS or threaded connections. The functionality of the valve terminal can therefore be extended by equipping vacant positions.

For ordering purposes, valves have the valve code printed on the front and the product type on the back.

#### Materials

The valve housing and thread in the sub-bases are metallic, while other housing sections are made from robust plastic materials.



Note

The valve with the working sub-base has been tested by Festo for leak tightness.

#### Pilot air supply

The port for the main pneumatic supply is located on the left-hand end plate.

The ports differ for the following types of pilot air supply:

- Internal
- External

### Internal pilot air supply

An internal pilot air supply can be selected if the terminal is working in an operating pressure range between 3 and 7<sup>1)</sup> bar.

The pilot air supply in the left-hand end plate is then branched from the compressed air supply 1 using an internal connection. The port 12/14 is closed using a blanking plug.

### External pilot air supply

If the terminal is working in an operating pressure range from -0.9 to 3 bar, you must operate your CPV-SC valve terminal using an external pilot air supply. The pilot air supply is also supplied via port 12/14 on the lefthand end plate in this case.

1) 8 bar upon request

#### Creation of pressure zones and separation of exhaust air

The CPV-SC valve terminal can be operated with multiple pressure zones. After two zones, a supply with duct separation is required for each subsequent pressure zone. It always

occupies one valve position. An isolating disc T separates the compressed air supply of a valve group on the left from the compressed air supply of a valve group on the right. The right-

hand pressure zone is supplied at port 4 of the supply plate. Port 2 also allows the left-hand pressure zone to be exhausted. All of the exhaust ducts of the valve are interconnected and are exhausted through the right-hand end plate. An isolating disc S also separates exhaust ducts 3 and 5 in addition to pressure duct 1.



## Note

Larger or simultaneously operating cylinders generate a back pressure in the exhaust duct of the valve terminal, the level of which depends on the exhaust capacity of the silencer.

In order to prevent interaction with adjacent valves, valves can be separated by means of duct separation using isolating disc S. The pressure zone located to the left of an isolating

disc S is exhausted using the supplied plug-in silencer. Where there are more than two valves in such a pressure zone, an additional supply with additional exhaust may be required. It is therefore useful to meet the higher exhaust requirements in the pressure zone that is exhausted by the right-hand end plate.

## Valve terminals CPV-SC, Smart Cubic Key features – Pneumatic components



Creating pressure zones		
	Code	Description
12/14 1 S 82/84 33/5	S	Duct 1 and 3/5 separated
12/14 1 S 82/84 33/5	Т	Duct 1 separated

Pneumatic working ports		
	Code	Description
Working port		
Souther transfer	В	M5 threaded connection
	E	QS-3 push-in connector
CO CONTRACTOR OF THE CONTRACTO	F	QS-4 push-in connector
Supply port, left-hand end plate		
	С	Threaded connection  M7 (internal pilot air supply)  M5 and M7 (external pilot air supply)
	G	Push-in connection  QS-6 (internal pilot air supply)  QS-4 and QS-6 (external pilot air supply)

14



Key features – Pneumatic components

## Ports for supply and exhaust

Supply and exhaust

A basic feature of a CPV-SC valve terminal are the two end plates.

The left-hand end plate is used to supply compressed air, while the right-hand end plate is used to exhaust the valve terminal.

Exhaust air escapes either via an integrated flat plate silencer, round silencer or via a push-in or threaded connection.

Ports for exhaust		
	Code	Description
	S	<ul> <li>Internal pilot air supply</li> <li>Exhaust from duct 3/5 as well as 82/84 is via a flat plate silencer</li> <li>Replacement part (insert) for flat plate silencer: Type CPVSC1-UA</li> </ul>
	T	<ul> <li>External pilot air supply</li> <li>Exhaust from duct 3/5 as well as 82/84 is via a flat plate silencer</li> <li>Replacement part (insert) for flat plate silencer: Type CPVSC1-UA</li> </ul>
	V	<ul> <li>Internal pilot air supply</li> <li>Exhaust from duct 3/5 as well as 82/84 is via ducted exhaust air</li> </ul>
	X	External pilot air supply     Exhaust from duct 3/5 as well as 82/84 is via ducted exhaust air
	Υ	<ul> <li>Internal pilot air supply</li> <li>Exhaust from duct 3/5 as well as 82/84 is via a round silencer</li> </ul>
	Z	<ul> <li>External pilot air supply</li> <li>Exhaust from duct 3/5 as well as 82/84 is via a round silencer</li> </ul>

## Valve terminals CPV-SC, Smart Cubic Key features – Pneumatic components

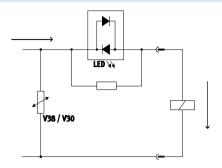


Pneumatic supply		16.1	
End plate combinati	on	Code	Description
	82/84 (m) 12/14 3 1 5 (m)	S	Internal pilot air supply, flat plate silencer  For operating pressure in the range 3 7 bar
	82/84 12/14 3 1 5	Т	External pilot air supply, flat plate silencer  For operating pressure in the range -0.9 +7 bar
	82/84 (a) 12/14 1 5 1 1 5 1 1 1 5 1 1 1 1 1 1 1 1 1 1	V	Internal pilot air supply, ducted exhaust air  For operating pressure in the range 3 7 bar
	82/84 82/84 12/14 1 5 1	X	External pilot air supply, ducted exhaust air  For operating pressure in the range –0.9 +7 bar
	32/84 12/14 3 1 5	Y	Internal pilot air, round silencer  For operating pressure in the range 3 7 bar
	82/84 12/14 3 1 5	Z	External pilot air supply, round silencer  For operating pressure in the range –0.9 +7 bar



Key features – Electrical components

### **Protective circuit**



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

## Electrical multi-pin plug connection

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

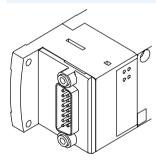
- Sub-D multi-pin plug connection (15- and 26-pin) or
- Multi-pin plug connection with connector for flat cable (20-pin)

CPV-SC is connected via a multi-pin plug connection with Sub-D or flat cable. Each pin of the multi-pin plug is assigned a maximum of one valve position and therefore one coil or one address.

Double solenoid valves "J" occupy two valve positions. The left-hand valve position with pilot control 12 is actuated by the less significant of the two addresses.

## Electrical multi-pin plug connection - Sub-D

Code MS, MH



With this electrical connection variant, all valves are centrally actuated via the 15 and 26-pin connector plug. The electrical connection is located on the left-hand side.

Ordering data – Connecting cable Sub-D								
	Code	Description	Cable length [m]	Part No.	Туре			
	СР	15-pin for 12 coils (code MS)	2.5	527543	KMP6-15P-12-2,5			
*	CQ	Material: PVC	5	527544	KMP6-15P-12-5			
	CR		10	527545	KMP6-15P-12-10			
000000	СР	26-pin for 16 coils (code MH)	2.5	527546	KMP6-26P-16-2,5			
200000000000000000000000000000000000000	CQ Material: PVC		5	527547	KMP6-26P-16-5			
	CR		10	527548	KMP6-26P-16-10			

## Valve terminals CPV-SC, Smart Cubic Key features – Electrical components



Pin allocation for 15-pin Sub-D (c	ode MS)			
KMP6-15P-12	Description	Pin	Core colour	Address/@il
	Plug socket with cable for the CPV-SC	1	White	Coil 0
01	valve terminal with max. 12 valve	2	Brown	Coil 1
9 0 0 2	positions	3	Green	Coil 2
10 0 3		4	Yellow	Coil 3
11 0 0 4		5	Grey	Coil 4
12 0 5		6	Pink	Coil 5
<sup>13</sup> 0 6		7	Blue	Coil 6
<sup>14</sup>		8	Red	Coil 7
150 08		9	Black	Coil 8
	≜	10	Purple	Coil 9
~	- 🎚 - Note	11	Grey-pink	Coil 10
	The drawing shows a plan view of the	12	Red-blue	Coil 11
	Sub-D socket on the multi-pin cable	13	White-green	n.c.
	KMP6-15P-12	14	Brown-green	0 V <sup>1)</sup>
		15	White-yellow	0 V <sup>1)</sup>

<sup>1)</sup> Pin 14 to pin 15 are bridged in the valve terminal. 0 V for positive switching control signals; 24 V can be connected for negative switching control signals.

KMP6-26P-16	Description	Pin	Core colour	Allocation
	Plug socket with cable for the CPV-SC	1	White	Coil 0
18 9	valve terminal with 16 valve positions	2	Brown	Coil 1
26 O O		3	Green	Coil 2
		4	Yellow	Coil 3
		5	Grey	Coil 4
		6	Pink	Coil 5
0 . 0		7	Blue	Coil 6
		8	Red	Coil 7
		9	Black	Coil 8
		10	Purple	Coil 9
19 0 1		11	Grey-pink	Coil 10
		12	Red-blue	Coil 11
		13	White-green	Coil 12
		14	Brown-green	Coil 13
		15	White-yellow	Coil 14
		16	Yellow-brown	Coil 15
		17	-	n.c.
		18	-	n.c.
		19	-	n.c.
		20	-	n.c.
	≜	21	-	n.c.
	- 🖣 - Note	22	-	n.c.
	The drawing shows a plan view of the	23	White-grey	0 V <sup>1)</sup>
	Sub-D socket on the multi-pin cable	24	Grey-brown	0 V <sup>1)</sup>
	KMP6-26P-12	25	White-pink	0 V <sup>1)</sup>
		26	Pink-brown	0 V <sup>1)</sup>

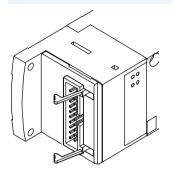
Pin 17 to pin 22 are bridged in the valve terminal.
 V for positive switching control signals; 24 V can be connected for negative switching control signals.

## Valve terminals CPV-SC, Smart Cubic Key features – Electrical components



## Electrical multi-pin plug connection – Connector for flat cable

Code MF



With this electrical connection variant, all valves are centrally actuated via the 20-pin connector plug. The electrical connection is located on the left-hand side.

tion – Connector for flat	cable (code Mr)	D:	Allegation
		Pin	Allocation
	CPV-SC valve terminal with up to	1	Coil 0
	16 valve positions and 20-pin multi-pin	2	Coil 1
20+ +19	socket for flat cables to DIN 41561-1,	3	Coil 2
18+ +17 16+ +15	-2 or IEC 60603-13-C020FD-7C1E-2G	4	Coil 3
14+ +13		5	Coil 4
12+ +11	Contact surface gold	6	Coil 5
10+ + 9	Flat cable grid 1.27 mm	7	Coil 6
8+ + 7	Conductor cross section 0.13 mm <sup>2</sup>	8	Coil 7
6+ + 5		9	Coil 8
4+ +3		10	Coil 9
2+ + 1		11	Coil 10
		12	Coil 11
		13	Coil 12
		14	Coil 13
		15	Coil 14
		16	Coil 15
		17	0 V <sup>1)</sup>
		18	0 V <sup>1)</sup>
		19	0 V <sup>1)</sup>
		20	0 V <sup>1)</sup>

<sup>1)</sup> Pin 17 to pin 20 are bridged in the valve terminal.

**FESTO** 

Key features - Electrical components

## **Fieldbus Direct**

PROFIBUS DP



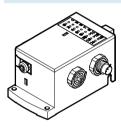
### Properties

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

### Fieldbus connection CP



All CP valve terminals and CP modules are connected using a ready to install CP cable, and are attached to the CP interface. Four modules, for example one CPV-SC valve terminal and one to three CP input modules, make up an installation string that ends at the CP

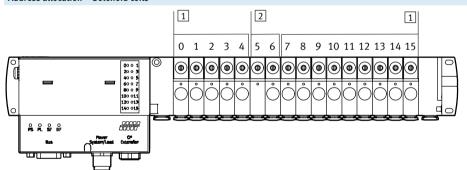
interface. The installation system supports a maximum of 4 installation strings, which can be connected to a CP fieldbus node.

The CP interface of CPV-SC is represented in the CP/CPI system by a module with 16 outputs.



Further information can be found in → Internet: ctec

#### Address allocation - Solenoid coils



1 Single solenoid valves occupy one valve position

The addresses of the valve positions on the CPV-SC-DP are assigned from left to right. Each valve position has an address, regardless of whether or not a valve is mounted there.

2 Double solenoid valves occupy two valve positions

Double solenoid valves "J" occupy two valve positions. The left-hand valve position with pilot control 12 is actuated by the less significant of the two addresses.

Valve terminal where valve positions 5 and 6 are prepared for double solenoid valves.

Key features - Display and operation

## **FESTO**

## Display and operation

The switching status of every solenoid coil is displayed on the control unit LED. Inscription labels (type MH-BZ-80x) can be applied to each valve for labelling purposes.

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 rotating the manual override.

The cover cap (detenting without accessories, code Y) can be used to operate the manual override without any aids.

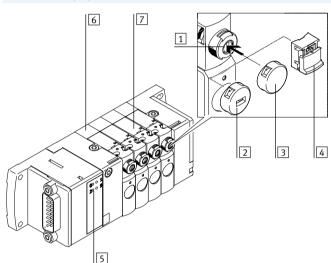
A cover can be fitted over the manual override to prevent it from being activated accidentally (code V).



Note

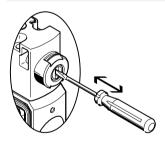
A manually activated valve (manual override) cannot be reset electrically. Conversely, an electrically activated valve cannot be reset using the manual override facility.

#### Manual override (MO)



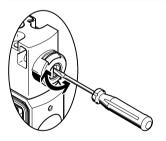
- 1 Manual override, MO nondetenting and turning with detent (code N – without cover
- 2 Cover cap coded, MO nondetenting (code K – with coded cover cap)
- 3 Cover cap for manual override, MO blocked (code V)
- 4 Cover cap, MO manually operated without accessories (code Y with cover cap)
- 5 LED signal status indication for each valve position
- 6 Numbering of valve positions
- 7 Location for valve position inscription label (type MH-BZ-80x)

MO with automatic return (non-detenting), code N – without cover cap



Manual override is actuated by pushing it with a pin or screwdriver and reset by spring force.

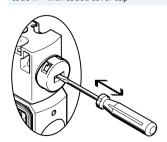
MO with lock (detenting), code N – without cover cap



MO with lock (detenting without accessories),

Manual override remains active until it is reset with a screwdriver.

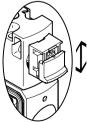
MO with automatic return (non-detenting), code K – with coded cover cap



Manual override is actuated by pushing it with a pin or screwdriver and reset by spring force (detenting position prevented due to coded cover cap).



Manual override remains active until it is reset manually (without any aids).

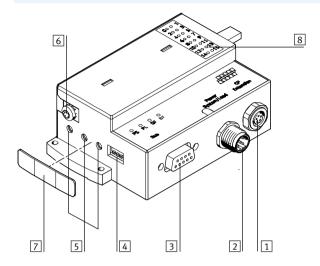




Key features – Display and operation

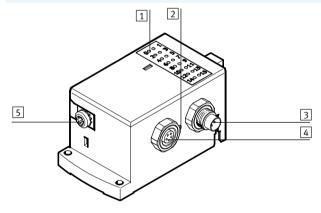
## Display and operation

Fieldbus Direct - PROFIBUS DP



- 1 Connection for CP extension (with CPI functionality)
- 2 Connection for power supply
- 3 Connection for fieldbus
- 4 DIL switch for CP extension
- 5 Rotary switch for station number
- 6 Earth terminal
- 7 Cover (for IP40 protection)
- 8 Switching status display per valve

## CP interface



- 1 Status LEDs for valves
- 2 Status LED for CP communication
- 3 CP connection, incoming
- 4 CP connection, outgoing
- 5 Earth terminal

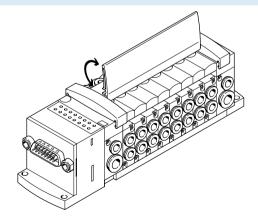
## Inscription label holder



The transparent inscription label holder provides sufficient space for individually created labels on paper or foil

Labelling templates are available on

→ www.festo.com





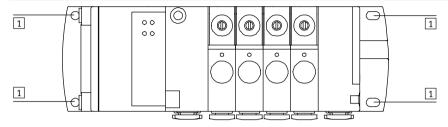
Key features – Mounting types

## Mounting - Valve terminal

Sturdy terminal mounting thanks to:

- Four through-holes for wall mounting
- H-rail mounting

## Wall mounting

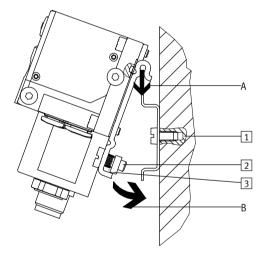


1 Mounting holes for screws M3

## H-rail mounting



The mounting CPVSC1-HS35 facilitates mounting on a H-rail to EN 60715.



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

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

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



- | Flow rate 170 l/min

- **[]** - Valve width 10 mm

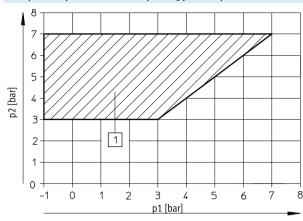
- **\** - Voltage 5, 12, 24 V DC



General technical data								
Valve		5/2-way valve		3/2-way valve	3/2-way valve			
		Single solenoid	Double solenoid	Normally open	Normally closed	Normally closed		
Valve function order code		М	J	N	К	D		
Constructional design		Electromagnetically a	actuated piston spool va	ve				
Reset method		Pneumatic spring	-	Pneumatic spring	Pneumatic spring	Pneumatic spring		
Valve size	[mm]	10		10		10		
Nominal diameter	[mm]	2.5		2.5		2.5		
Standard nominal flow rate	[l/min]	170		170		150		
Sealing principle		Soft						
Control type		Piloted						
Lubrication		Life-time lubrication						
Type of mounting		Wall mounting						
Mounting position		Any						
Manual override		Non-detenting/detenting/overed						
Exhaust function		No flow control						
Direction of flow		Non-reversible						
D								
Pneumatic connections		H= 00 (						
Supply	1	M7, QS-6						
Exhaust port	3/5		ncer or integrated flat pl	ate silencer				
Working ports	2/4	, ,	nnection type selected					
		• M5						
		• QS-3						
		• QS-4						
Pilot air port	12/14	M5, QS-4						
Pilot exhaust air port	82/84	M5, QS-4, round sile	ncer or integrated flat pl	ate silencer				



## Pilot pressure p2 as a function of operating pressure p1



1 Operating range for valves with external pilot air

Valve response times [ms]						
Valve function order code		М	J	N	K	D
Response times	on	10	-	10	10	10
	off	10	_	10	10	10
	changeover	-	8	-	-	-

Operating and environmental conditions		
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4] → 27
Note on operating/pilot medium		Operation with lubricated medium possible (in which case lubricated operation will always be
		required)
Paint-wetting impairment substances criterion		Yes (free of paint-wetting impairment substances)
Certification		c UL us recognized (OL)
Operating pressure	bar]	-0.9 +7
Operating pressure for valve terminal with internal pilot	bar]	37
air supply		
Pilot pressure	bar]	37
Ambient temperature	[°C]	-5 +50
Temperature of medium	[°C]	-5 +50
CE mark (see declaration of conformity)		To EU EMC Directive <sup>1)</sup>
Note on materials		RoHS-compliant

<sup>1)</sup> For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com/sp > Certificates.

If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.



Electrical data			
Electrical connection			Individual connection
			Multi-pin
			CPI installation system
			Fieldbus
Electromagnetic compatibility of	of the CPV-SC valve termi	nal with	Interference emission tested to DIN EN 61000-6-4, industry
Sub-D or flat cable connection			Interference immunity <sup>1)</sup> tested to DIN EN 61000-6-2, industry
Protection against electric shoo	ck (protection against dir	ect and	By means of PELV power supply unit
indirect contact to EN 60204-1	/IEC 204)		
Nominal operating voltage of	Multi-pin plug	[V DC]	24
valve terminal	connection		
	Individual sub-base	[V]	5,12,24
Permissible voltage fluctuation	S	[%]	±10
Coil characteristics	Nominal voltage	[V DC]	5, 12, 22, 24
	Electrical power	[W]	1
consumption			
Duty cycle			100% at 40°C ambient temperature
Protection class to EN 60529			IP40 (in assembled state and with detenting plug)
Relative air humidity		[%]	90 at 40 °C, non-condensing

<sup>1)</sup> The maximum signal line length is 10 m

Materials	
Electrical interface	Polymer
End plate, electrical sub-base	Polymer
Seals	NBR
Valve slice	Die-cast aluminium
Sub-base for working ports	PA

Product weight [g]	
5/2-way, 3/2-way valve	30.5
5/2-way double solenoid valve	56.5
Blanking plate	22.5
Right-hand end plate	42.5
Left-hand end plate	28
Actuator housing	43
Tie rod, 16-fold	29.6
Electrical manifold module, 16-fold	64
Control unit (fieldbus)	200
Electrical interface CPI	150

Technical data



## Equipment

Operate your equipment with unlubricated compressed air if possible. Festo valves and cylinders are designed so that, if used as designated, they will not require additional lubrication and will still achieve 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

#### **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/m<sup>3</sup> must not be exceeded (see ISO 8573-1 Class 2).

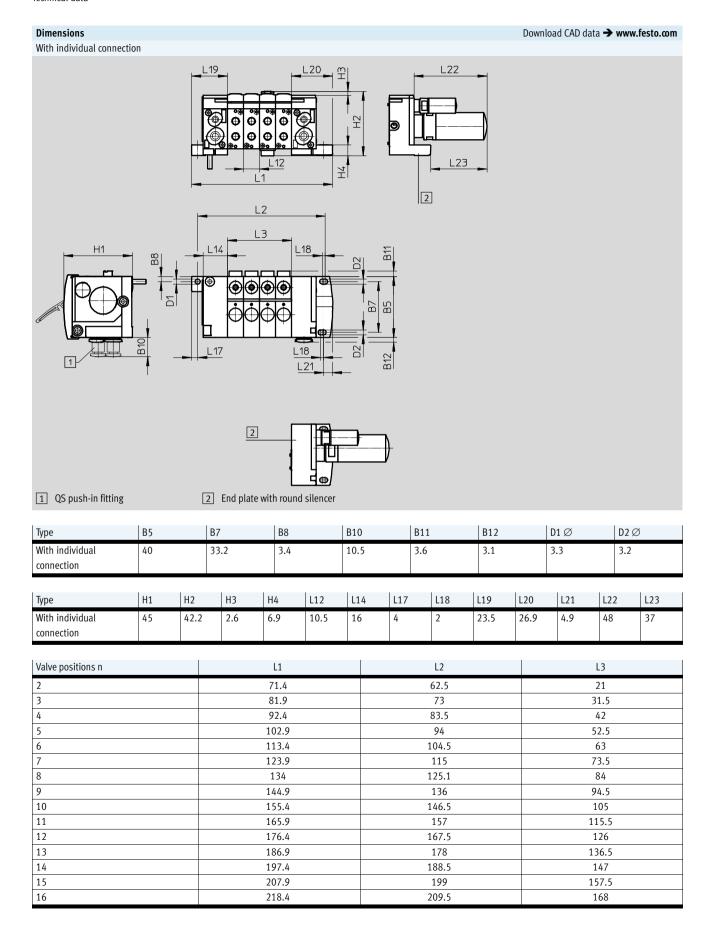
#### Mineral oils

When using mineral oils (e.g. HLP oils to DIN 51524, Parts 1 to 3) or similar oils based on poly-alpha-olefins (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.

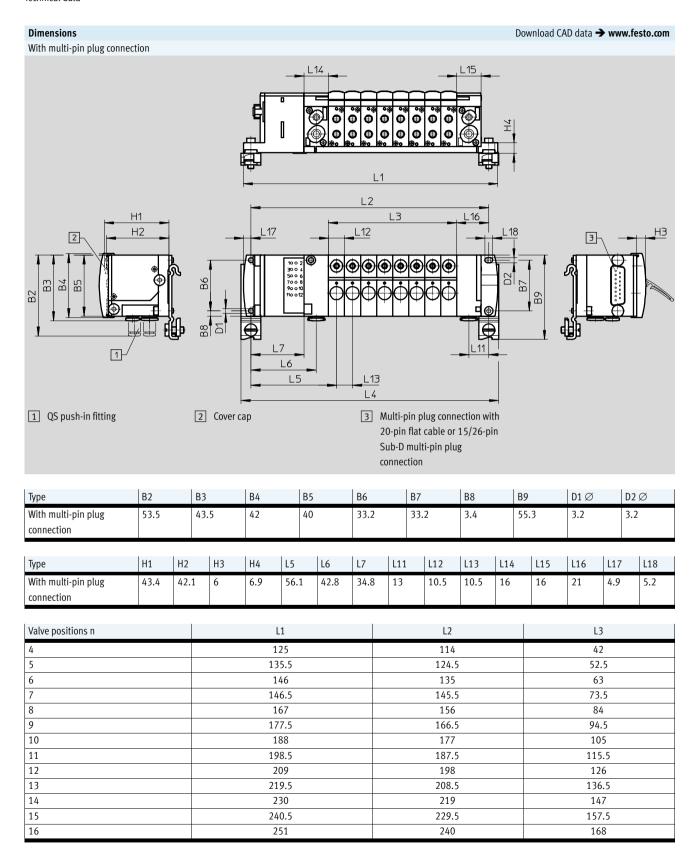


Technical data

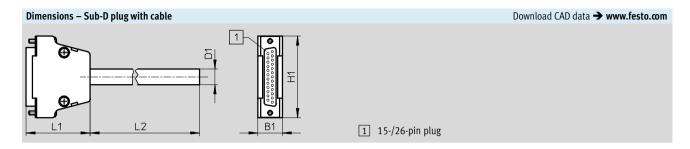




Technical data



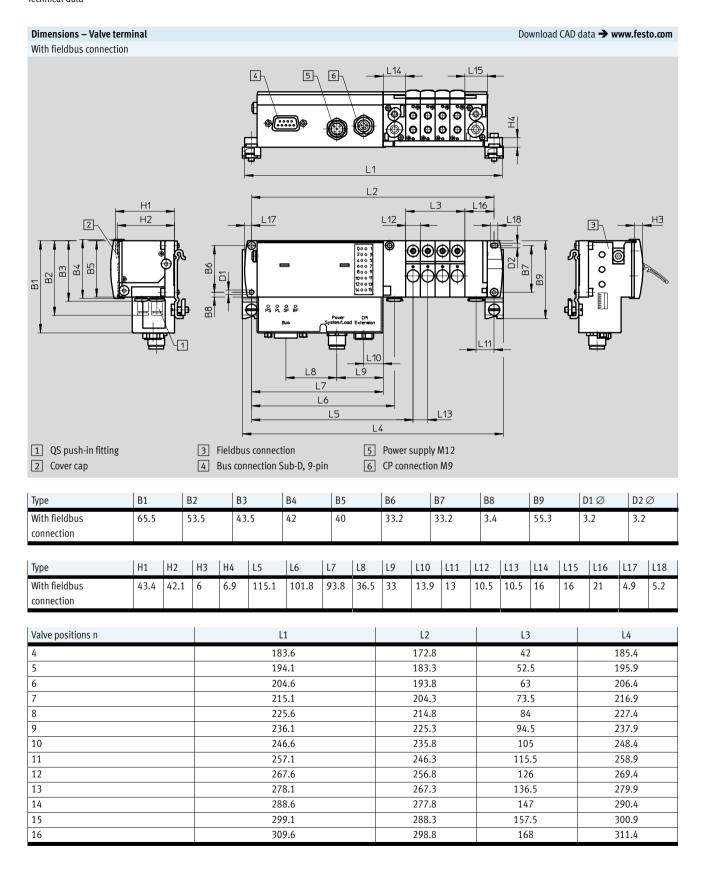




Туре	B1	D1	H1	L1		L2		Number of pins
KMP6-15P-12	16	8.5	40	34.5	2,500	5,000	10,000	15
KMP6-26P-16	16	8.6	40	34.5	2,500	5,000	10,000	26

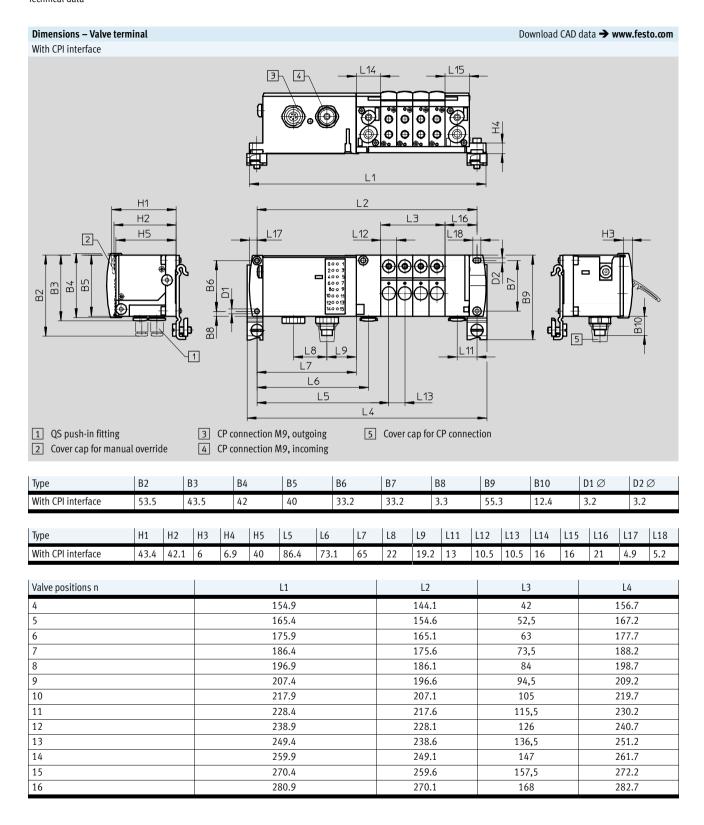


Technical data





Technical data





Ordering data – Valves	with electrical plug-in connection		
_	Valve function	Part No.	Туре
$\wedge$	Solenoid valve with M5 connections		
	5/2-way valve, single solenoid	527550	CPVSC1-M1H-M-P-M5
	5/2-way valve, double solenoid	527553	CPVSC1-M1H-J-P-M5
	3/2-way valve, normally open	527551	CPVSC1-M1H-N-P-M50
	3/2-way valve, normally closed	527552	CPVSC1-M1H-K-P-M5C
	2/2-way valve, normally closed	527554	CPVSC1-M1H-D-P-M5C
	Solenoid valve with QS-3 push-in connectors		
^	5/2-way valve, single solenoid	527555	CPVSC1-M1H-M-P-Q3
	5/2-way valve, double solenoid	527558	CPVSC1-M1H-J-P-Q3
	3/2-way valve, normally open	527556	CPVSC1-M1H-N-P-Q30
	3/2-way valve, normally closed	527557	CPVSC1-M1H-K-P-Q3C
	2/2-way valve, normally closed	527559	CPVSC1-M1H-D-P-Q3C
	Solenoid valve with QS-4 push-in connectors		
	5/2-way valve, single solenoid	527560	CPVSC1-M1H-M-P-Q4
*	5/2-way valve, double solenoid	527563	CPVSC1-M1H-J-P-Q4
	3/2-way valve, normally open	527561	CPVSC1-M1H-N-P-Q40
	3/2-way valve, normally closed	527562	CPVSC1-M1H-K-P-Q4C
	2/2-way valve, normally closed	527564	CPVSC1-M1H-D-P-Q4C
	Blanking plates with integrated connections		
	Vacant position, with blanking plate	527527	CPVSC1-RP-B
	1		
<i>p</i> ^	Supply plate M5		
	Duct 1 separated	527528	CPVSC1-SP-P-M5
	Duct 1/3/5 separated	527530	CPVSC1-SP-PRS-M5
	Without duct separation	527532	CPVSC1-SP-M5
	Supply plate, QS-4 push-in connector		
	Duct 1 separated	527529	CPVSC1-SP-P-Q4
	Duct 1/3/5 separated	527531	CPVSC1-SP-PRS-Q4



on		Part No.	Type
	Solenoid valve with M5 connections		• • • • • • • • • • • • • • • • • • • •
<u> </u>	5/2-way valve, single solenoid	547276	CPVSC1-M1H-M-T-M5
	5/2-way valve, double solenoid	547277	CPVSC1-M1H-J-T-M5
	3/2-way valve, normally open	547275	CPVSC1-M1H-N-T-M50
	3/2-way valve, normally closed	547274	CPVSC1-M1H-K-T-M5C
	2/2-way valve, normally closed	547273	CPVSC1-M1H-D-T-M5C
	Solenoid valve with M5 connections and LED		CDVCC4 HALLI II T II -
	5/2-way valve, single solenoid	547306	CPVSC1-M1LH-M-T-M5
	5/2-way valve, double solenoid	547307	CPVSC1-M1LH-J-T-M5
	3/2-way valve, normally open	547305	CPVSC1-M1LH-N-T-M50
<b>₹</b>	3/2-way valve, normally closed	547304	CPVSC1-M1LH-K-T-M5C
	2/2-way valve, normally closed	547303	CPVSC1-M1LH-D-T-M5C
	Solenoid valve with QS-3 push-in connectors		
	5/2-way valve, single solenoid	547281	CPVSC1-M1H-M-T-Q3
	5/2-way valve, double solenoid	547282	CPVSC1-M1H-J-T-Q3
	3/2-way valve, normally open	547280	CPVSC1-M1H-N-T-Q30
	3/2-way valve, normally closed	547279	CPVSC1-M1H-K-T-Q3C
	2/2-way valve, normally closed	547278	CPVSC1-M1H-D-T-Q3C
	Solenoid valve with QS-3 push-in connectors and LED		
	5/2-way valve, single solenoid	547311	CPVSC1-M1LH-M-T-Q3
	5/2-way valve, double solenoid	547312	CPVSC1-M1LH-J-T-Q3
	3/2-way valve, normally open	547310	CPVSC1-M1LH-N-T-Q30
	3/2-way valve, normally closed	547309	CPVSC1-M1LH-K-T-Q3C
	2/2-way valve, normally closed	547308	CPVSC1-M1LH-D-T-Q3C
	Colonidado with OC ( much in account on		
	Solenoid valve with QS-4 push-in connectors 5/2-way valve, single solenoid	547286	CPVSC1-M1H-M-T-Q4
		547287	<u> </u>
	5/2-way valve, double solenoid		CPVSC1-M1H-J-T-Q4
	3/2-way valve, normally open	547285	CPVSC1-M1H-N-T-Q40
	3/2-way valve, normally closed	547284	CPVSC1-M1H-K-T-Q4C
	2/2-way valve, normally closed	547283	CPVSC1-M1H-D-T-Q4C
	Solenoid valve with QS-4 push-in connectors and LED		
	5/2-way valve, single solenoid	547316	CPVSC1-M1LH-M-T-Q4
	5/2-way valve, double solenoid	547317	CPVSC1-M1LH-J-T-Q4
	3/2-way valve, normally open	547315	CPVSC1-M1LH-N-T-Q40
	3/2-way valve, normally closed	547314	CPVSC1-M1LH-K-T-Q4C
	2/2-way valve, normally closed	547313	CPVSC1-M1LH-D-T-Q4C



	Part No.	Type
Solenoid valve with M5 connections	<u> </u>	• •
5/2-way valve, single solenoid	547291	CPVSC1-M1H-M-H-M5
5/2-way valve, double solenoid	547292	CPVSC1-M1H-J-H-M5
3/2-way valve, normally open	547290	CPVSC1-M1H-N-H-M50
3/2-way valve, normally closed	547289	CPVSC1-M1H-K-H-M5C
2/2-way valve, normally closed	547288	CPVSC1-M1H-D-H-M5C
Solenoid valve with M5 connections and LED		
5/2-way valve, single solenoid	547322	CPVSC1-M1LH-M-H-M5
5/2-way valve, single solenoid	547323	CPVSC1-M1LH-J-H-M5
3/2-way valve, normally open	547321	CPVSC1-M1LH-N-H-M5
3/2-way valve, normally closed	547320	CPVSC1-M1LH-K-H-M50
2/2-way valve, normally closed	547318	CPVSC1-M1LH-D-H-M5
Solenoid valve with QS-3 push-in connectors		
5/2-way valve, single solenoid	547296	CPVSC1-M1H-M-H-Q3
5/2-way valve, double solenoid	547297	CPVSC1-M1H-J-H-Q3
3/2-way valve, normally open	547295	CPVSC1-M1H-N-H-Q30
3/2-way valve, normally closed	547294	CPVSC1-M1H-K-H-Q3C
2/2-way valve, normally closed	547293	CPVSC1-M1H-D-H-Q3C
Solenoid valve with QS-3 push-in connectors and LED		
5/2-way valve, single solenoid	547327	CPVSC1-M1LH-M-H-Q3
5/2-way valve, double solenoid	547328	CPVSC1-M1LH-J-H-Q3
3/2-way valve, normally open	547326	CPVSC1-M1LH-N-H-Q30
3/2-way valve, normally closed	547325	CPVSC1-M1LH-K-H-Q30
2/2-way valve, normally closed	547324	CPVSC1-M1LH-D-H-Q30
Solenoid valve with QS-4 push-in connectors		
5/2-way valve, single solenoid	547301	CPVSC1-M1H-M-H-Q4
5/2-way valve, double solenoid	547302	CPVSC1-M1H-J-H-Q4
3/2-way valve, normally open	547300	CPVSC1-M1H-N-H-Q40
3/2-way valve, normally closed	547299	CPVSC1-M1H-K-H-Q4C
2/2-way valve, normally closed	547298	CPVSC1-M1H-D-H-Q4C
Solenoid valve with QS-4 push-in connectors and LED		
5/2-way valve, single solenoid	547332	CPVSC1-M1LH-M-H-Q4
5/2-way valve, double solenoid	547333	CPVSC1-M1LH-J-H-Q4
3/2-way valve, normally open	547331	CPVSC1-M1LH-N-H-Q4
3/2-way valve, normally closed	547330	CPVSC1-M1LH-K-H-Q40
2/2-way valve, normally closed	547329	CPVSC1-M1LH-D-H-Q4C



	Part No.	Type
Solenoid valve with M5 connections		
5/2-way valve, single solenoid	548037	CPVSC1-M1HT-M-T-M5
5/2-way valve, double solenoid	548038	CPVSC1-M1HT-J-T-M5
3/2-way valve, normally open	548036	CPVSC1-M1HT-N-T-M5
3/2-way valve, normally closed	548035	CPVSC1-M1HT-K-T-M50
2/2-way valve, normally closed	548034	CPVSC1-M1HT-D-T-M50
Solenoid valve with QS-3 push-in connectors		
5/2-way valve, single solenoid	548043	CPVSC1-M1HT-M-T-Q3
5/2-way valve, double solenoid	548044	CPVSC1-M1HT-J-T-Q3
3/2-way valve, normally open	548042	CPVSC1-M1HT-N-T-Q30
3/2-way valve, normally closed	548041	CPVSC1-M1HT-K-T-Q3C
2/2-way valve, normally closed	548040	CPVSC1-M1HT-D-T-Q30
Solenoid valve with QS-4 push-in connectors		
5/2-way valve, single solenoid	548048	CPVSC1-M1HT-M-T-Q4
5/2-way valve, double solenoid	548049	CPVSC1-M1HT-J-T-Q4
3/2-way valve, normally open	548047	CPVSC1-M1HT-N-T-Q40
3/2-way valve, normally closed	548046	CPVSC1-M1HT-K-T-Q40
2/2-way valve, normally closed	548045	CPVSC1-M1HT-D-T-Q4C

	Part No	. Туре
Solenoid valve with M5 connections		
5/2-way valve, single solenoid	54805	3 CPVSC1-M1HT-M-H-M5
5/2-way valve, double solenoid	54805	4 CPVSC1-M1HT-J-H-M5
3/2-way valve, normally open	54805	2 CPVSC1-M1HT-N-H-M5
3/2-way valve, normally closed	54805	1 CPVSC1-M1HT-K-H-M5
2/2-way valve, normally closed	54805	O CPVSC1-M1HT-D-H-M5
Solenoid valve with QS-3 push-in connect	ors	
5/2-way valve, single solenoid	54805	8 CPVSC1-M1HT-M-H-Q3
5/2-way valve, double solenoid	54805	9 CPVSC1-M1HT-J-H-Q3
3/2-way valve, normally open	54805	7 CPVSC1-M1HT-N-H-Q3
3/2-way valve, normally closed	54805	6 CPVSC1-M1HT-K-H-Q3
2/2-way valve, normally closed	54805	5 CPVSC1-M1HT-D-H-Q3
Solenoid valve with QS-4 push-in connect	ors	
5/2-way valve, single solenoid	54806	3 CPVSC1-M1HT-M-H-Q4
5/2-way valve, double solenoid	54806	4 CPVSC1-M1HT-J-H-Q4
3/2-way valve, normally open	54806	2 CPVSC1-M1HT-N-H-Q4
3/2-way valve, normally closed	54806	1 CPVSC1-M1HT-K-H-Q4
2/2-way valve, normally closed	54806	0 CPVSC1-M1HT-D-H-Q4



	Part N	o. Type
Solenoid valve with M5 connections		
5/2-way valve, single solenoid	5473	67 CPVSC1-M5H-M-T-M5
5/2-way valve, double solenoid	5473	68 CPVSC1-M5H-J-T-M5
3/2-way valve, normally open	5473	66 CPVSC1-M5H-N-T-M50
3/2-way valve, normally closed	5473	55 CPVSC1-M5H-K-T-M5C
2/2-way valve, normally closed	5473	64 CPVSC1-M5H-D-T-M5C
Solenoid valve with QS-3 push-in con	nectors	
5/2-way valve, single solenoid	5473	72 CPVSC1-M5H-M-T-Q3
5/2-way valve, double solenoid	5473	73 CPVSC1-M5H-J-T-Q3
3/2-way valve, normally open	5473	71 CPVSC1-M5H-N-T-Q3C
3/2-way valve, normally closed	5473	70 CPVSC1-M5H-K-T-Q3C
2/2-way valve, normally closed	5473	69 CPVSC1-M5H-D-T-Q3C
Solenoid valve with QS-4 push-in con	nectors	
5/2-way valve, single solenoid	5473	77 CPVSC1-M5H-M-T-Q4
5/2-way valve, double solenoid	5473	78 CPVSC1-M5H-J-T-Q4
3/2-way valve, normally open	5473	76 CPVSC1-M5H-N-T-Q4C
3/2-way valve, normally closed	5473	75 CPVSC1-M5H-K-T-Q4C
2/2-way valve, normally closed	5473	74 CPVSC1-M5H-D-T-Q4C

		Part No.	Туре		
	Solenoid valve with M5 connections				
>	5/2-way valve, single solenoid	547382	CPVSC1-M5H-M-H-M5		
	5/2-way valve, double solenoid	547383	CPVSC1-M5H-J-H-M5		
40	3/2-way valve, normally open	547381	CPVSC1-M5H-N-H-M50		
	3/2-way valve, normally closed	547380	CPVSC1-M5H-K-H-M5C		
	2/2-way valve, normally closed	547379	CPVSC1-M5H-D-H-M50		
	Solenoid valve with QS-3 push-in connectors				
	5/2-way valve, single solenoid	547387	CPVSC1-M5H-M-H-Q3		
	5/2-way valve, double solenoid	547388	CPVSC1-M5H-J-H-Q3		
	3/2-way valve, normally open	547386	CPVSC1-M5H-N-H-Q3C		
	3/2-way valve, normally closed	547385	CPVSC1-M5H-K-H-Q3C		
	2/2-way valve, normally closed	547384	CPVSC1-M5H-D-H-Q3C		
	Solenoid valve with QS-4 push-in connectors				
	5/2-way valve, single solenoid	547392	CPVSC1-M5H-M-H-Q4		
	5/2-way valve, double solenoid	547393	CPVSC1-M5H-J-H-Q4		
	3/2-way valve, normally open	547391	CPVSC1-M5H-N-H-Q40		
	3/2-way valve, normally closed	547390	CPVSC1-M5H-K-H-Q4C		
	2/2-way valve, normally closed	547389	CPVSC1-M5H-D-H-Q4C		



		Part No.	Type
	Solenoid valve with M5 connections		
	5/2-way valve, single solenoid	547337	CPVSC1-M4H-M-T-M5
	5/2-way valve, double solenoid	547338	CPVSC1-M4H-J-T-M5
	3/2-way valve, normally open	547336	CPVSC1-M4H-N-T-M5
	3/2-way valve, normally closed	547335	CPVSC1-M4H-K-T-M50
	2/2-way valve, normally closed	547334	CPVSC1-M4H-D-T-M50
	Solenoid valve with QS-3 push-in connectors		
$\checkmark$	5/2-way valve, single solenoid	547342	CPVSC1-M4H-M-T-Q3
	5/2-way valve, double solenoid	547343	CPVSC1-M4H-J-T-Q3
	3/2-way valve, normally open	547341	CPVSC1-M4H-N-T-Q30
	3/2-way valve, normally closed	547340	CPVSC1-M4H-K-T-Q3C
	2/2-way valve, normally closed	547339	CPVSC1-M4H-D-T-Q3C
	Solenoid valve with QS-4 push-in connectors		
	5/2-way valve, single solenoid	547347	CPVSC1-M4H-M-T-Q4
	5/2-way valve, double solenoid	547348	CPVSC1-M4H-J-T-Q4
	3/2-way valve, normally open	547346	CPVSC1-M4H-N-T-Q40
	3/2-way valve, normally closed	547345	CPVSC1-M4H-K-T-Q4C
	2/2-way valve, normally closed	547344	CPVSC1-M4H-D-T-Q4C

		Part No.	Type			
	Solenoid valve with M5 connections					
>	5/2-way valve, single solenoid	547352	CPVSC1-M4H-M-H-M5			
	5/2-way valve, double solenoid	547353	CPVSC1-M4H-J-H-M5			
	3/2-way valve, normally open	547351	CPVSC1-M4H-N-H-M5			
	3/2-way valve, normally closed	547350	CPVSC1-M4H-K-H-M50			
	2/2-way valve, normally closed	547349	CPVSC1-M4H-D-H-M50			
	Solenoid valve with QS-3 push-in connectors					
	5/2-way valve, single solenoid	547357	CPVSC1-M4H-M-H-Q3			
	5/2-way valve, double solenoid	547358	CPVSC1-M4H-J-H-Q3			
	3/2-way valve, normally open	547356	CPVSC1-M4H-N-H-Q30			
	3/2-way valve, normally closed	547355	CPVSC1-M4H-K-H-Q3C			
	2/2-way valve, normally closed	547354	CPVSC1-M4H-D-H-Q3C			
	Solenoid valve with QS-4 push-in connectors					
	5/2-way valve, single solenoid	547362	CPVSC1-M4H-M-H-Q4			
	5/2-way valve, double solenoid	547363	CPVSC1-M4H-J-H-Q4			
	3/2-way valve, normally open	547361	CPVSC1-M4H-N-H-Q4C			
	3/2-way valve, normally closed	547360	CPVSC1-M4H-K-H-Q4C			
	2/2-way valve, normally closed	547359	CPVSC1-M4H-D-H-Q4C			



Ordering data – Acces	ssories			
Designation			Part No.	Туре
Electrical interface				
	Fieldbus Direct – PROFIBUS DP		541975 541919	CPVSC1-AE16-CPI  CPVSC1-AE16-DP
Individual electrical o	onnection			
	Plug socket with cable, IP40	0.5 m	566654	NEBV-H1G2-KN-0.5-N-LE2
	riug socket with capie, 1740	1 m	566655	NEBV-H1G2-KN-0.5-N-LE2
		2.5 m	566656	
-			566657	NEBV-H1G2-KN-2.5-N-LE2 NEBV-H1G2-KN-5-N-LE2
		5 m	566657	NEBV-H1G2-KN-5-N-LE2
Connecting cable to I	P40 for multi-pin plug connection			
Lonnecting cable to if	Sub-D, 15-pin, up to 12 valve positions	2.5 m	527543	KMP6-15P-12-2,5
	for code MS	2.5 III 5 m		KMP6-15P-12-2,5 KMP6-15P-12-5
			527544	
	Material: PVC	10 m	527545	KMP6-15P-12-10
	Sub-D, 26-pin, up to 16 valve positions	2.5 m	527546	KMP6-26P-16-2,5
	for code MH	5 m	527547	KMP6-26P-16-5
	Material: PVC	10 m	527548	KMP6-26P-16-10
Fieldbus connection	T			
	Sub-D plug connector, straight		532216	FBS-SUB-9-GS-DP-B
	Bus connection M12 adapter (B-coded)		533118	FBA-2-M12-5POL-RK
	Socket M12x1, 5-pin, straight, for self-assembly of a connecting cable compatible with FBA-2-M12-5POL-RK		1067905	NECU-M-B12G5-C2-PB
	Plug connector M12x1, 5-pin, straight, for self-assembly of a connecting cable compatible with FBA-2-M12-5POL-RK		1066354	NECU-M-S-B12G5-C2-PB
	Terminating resistor, M12, B-coded for PROFIBUS		1072128	CACR-S-B12G5-220-PB
Power supply for field	hus connection			
ower supply for field	Socket M12x1, 5-pin, straight,		18324	FBSD-GD-9-5POL
	for self-assembly of a connecting cable		18324	rdou-du-y-oruL



– Accessories				
			Part No.	Туре
ble for CPI interface				
Angled plug connector/angled so	ket	0.25 m	540327	KVI-CP-3-WS-WD-0,25
		0.5 m	540328	KVI-CP-3-WS-WD-0,5
		2 m	540329	KVI-CP-3-WS-WD-2
		5 m	540330	KVI-CP-3-WS-WD-5
		8 m	540331	KVI-CP-3-WS-WD-8
Straight plug connector/straight s	ocket	2 m	540332	KVI-CP-3-GS-GD-2
		5 m	540333	KVI-CP-3-GS-GD-5
		8 m	540334	KVI-CP-3-GS-GD-8
ual override		10.	F / 0007	VAADA UDT D
Non-detenting, with coded cover of	ap	10 pieces	540897	VMPA-HBT-B
Covered, manual override blocked		10 pieces	540898	VMPA-HBV-B
Detenting, manually operated wit	nout accessories	10 pieces	8002234	VAMC-L1-CD
pels for valve identification		1	<u>'</u>	
9x4.5 mm		80 pieces	197259	MH-BZ-80x
pel holder			·	
1 piece		For 2 valve positions	547395	CPVSC1-ST-2
		For 3 valve positions	547396	CPVSC1-ST-3
		For 4 valve positions	527631	CPVSC1-ST-4
		For 5 valve positions	547397	CPVSC1-ST-5
		For 6 valve positions	547398	CPVSC1-ST-6
		For 7 valve positions	547399	CPVSC1-ST-7
		For 8 valve positions	527633	CPVSC1-ST-8
		For 9 valve positions	547400	CPVSC1-ST-9
		For 10 valve positions	547401	CPVSC1-ST-10
		For 11 valve positions	547402	CPVSC1-ST-11
		For 12 valve positions	527635	CPVSC1-ST-12
		For 13 valve positions	547403	CPVSC1-ST-13
		· ·	547404	CPVSC1-ST-14
			547405	CPVSC1-ST-15
		· ·		CPVSC1-ST-16
		For 14 valve positions For 15 valve positions For 16 valve positions		CPVSC1-ST-



<b>ring data – Acce</b> gnation			Part No.	Туре
rod			1 411 110.	.,,,,
A)	1 piece	For 2 valve positions	547416	CPVSC1-ZA-2
*	·	For 3 valve positions	547417	CPVSC1-ZA-3
		For 4 valve positions	532807	CPVSC1-ZA-4
•		For 5 valve positions	547418	CPVSC1-ZA-5
		For 6 valve positions	547419	CPVSC1-ZA-6
		For 7 valve positions	547420	CPVSC1-ZA-7
		For 8 valve positions	532808	CPVSC1-ZA-8
		For 9 valve positions	547421	CPVSC1-ZA-9
		For 10 valve positions	547422	CPVSC1-ZA-10
		For 11 valve positions	547423	CPVSC1-ZA-11
		For 12 valve positions	532809	CPVSC1-ZA-12
		For 13 valve positions	547424	CPVSC1-ZA-13
		For 14 valve positions	547425	CPVSC1-ZA-14
		For 15 valve positions	547426	CPVSC1-ZA-15
		For 16 valve positions	532810	CPVSC1-ZA-16
	Screw for additional terminal mounting		527643	M3x45
	Mounting		527639	CPVSC-HS35
ser documentation		T		
	User documentation – Pneumatics, valve terminal	German	530925	P.BE-CPVSC-DE
	CPV-SC	English	530926	P.BE-CPVSC-EN
		French	530927	P.BE-CPVSC-FR
~		Spanish	530928	P.BE-CPVSC-ES
		Italian	530929	P.BE-CPVSC-IT
	User documentation – PROFIBUS DP fieldbus	German	548725	P.BE-CPASC-CPVSC-DP-DE
		English	548726	P.BE-CPASC-CPVSC-DP-EN
		French	548728	P.BE-CPASC-CPVSC-DP-FR
		Spanish	548727	P.BE-CPASC-CPVSC-DP-ES
		Italian		P.BE-CPASC-CPVSC-DP-IT