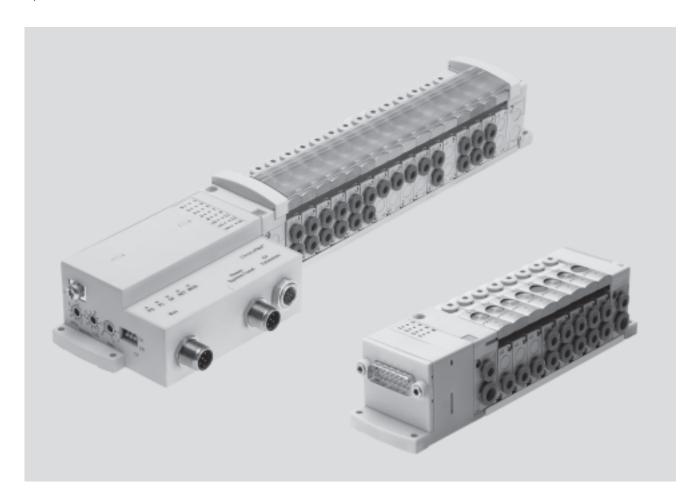
FESTO



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

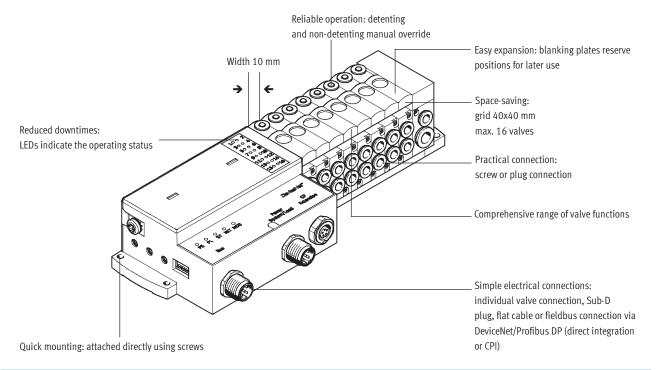
- Manual override
- Durable thanks to the use of tried and tested piston spool valves
- Sturdy thanks to metal housing and connecting thread
- Fast troubleshooting thanks to an LED on each valve and diagnostics via fieldbus

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



Key features



Equipment options

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
- DeviceNet

CP string extension

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

CPI interface

- 4 ... 16 valve positions/ max. 16 solenoid coils
- Further valve terminals CPV-SC-CPI or from the CPV/CPA range



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 type 80 is ordered using the order code.

Ordering system for type 80

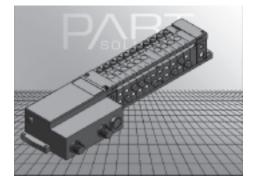
→ Internet: type 80



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

(compass). On the next page you can generate a 3D preview or request another data format of your choice by e-mail.

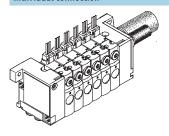


Online via: → www.festo.com

Key features



Individual connection



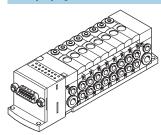
Connection is independent of the control technology used and is flexible thanks to ready to install cables. This ensures correct polarity during installation.

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



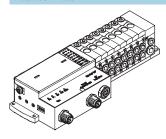
Control signals to the valve terminal are transmitted via a pre-assembled multi-core cable, which substantially reduces installation time.

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



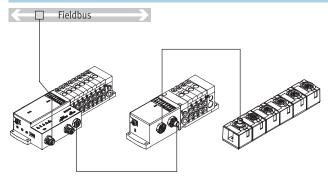
An integrated fieldbus node manages the communication connection to a higher-order PLC. This enables a space-saving pneumatic and electronic solution.

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

Variants

- DeviceNet connection (CP functionality)
- 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 fieldbus node of the CPV-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, MPA, CPV-SC, ${\it CPA \ valve \ terminals \ can \ be \ connected.}$ 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:

- 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

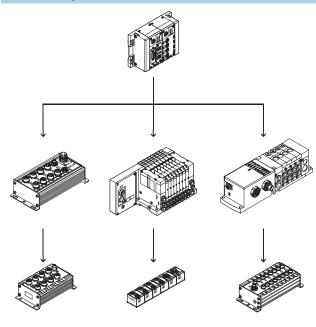
With CPI functionality:

- 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 higherorder fieldbus nodes or to control blocks. A fieldbus node or control block also enables the connection of decentralised input/output units. The following fieldbus protocols are supported:

- Festo fieldbus, ABB CS31, Moeller Suconet K
- Interbus
- Allen Bradley (1771 RIO)
- DeviceNet
- Profibus DP, 12 MBd
- CC-Link
- CANopen
- Modbus/TCP
- Ethernet
- PROFINET
- EtherCAT

Four strings with up to 32 inputs and outputs can be connected to a field-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



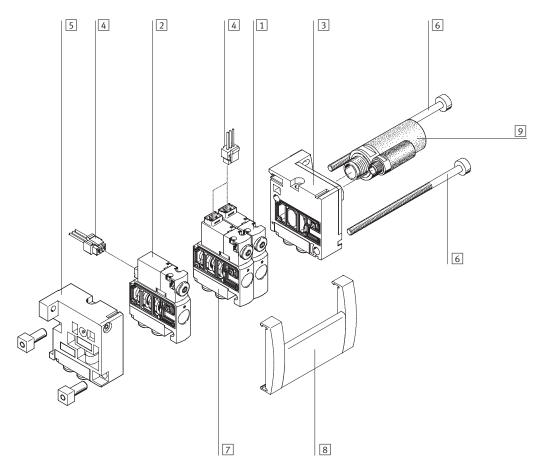
Peripherals overview

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
- 3 Right-hand end plate for unducted exhaust air
- 4 Plug socket with cable for individual electrical connection of 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 threaded)
- 8 Inscription label holder
- 9 Silencer



Peripherals overview

Valve terminal with electrical multi-pin plug connection

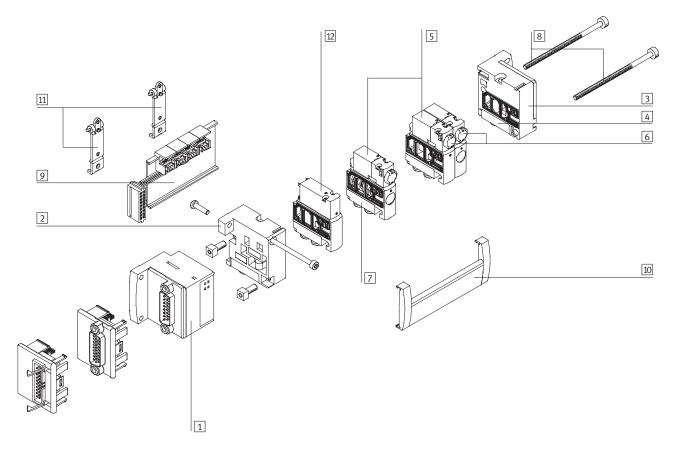
• 15- and 26-pin Sub-D multi-pin plug connection Code: MS, MH

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 flush mounting of the system.



- 1 Electrical control unit (with LED switching status displays) for Sub-D plug 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 silencer (3/5 or 82/84)
- 4 Sub-base for ducted exhaust air (push-in fitting or threaded)
- 5 Valve

- 6 Cover for manual override (optional)
- 7 Sub-base for working ports (push-in fitting or threaded)
- 8 Tie rod

- 9 Electrical valve linking module
- 10 Inscription label holder
- 11 H-rail mounting
- 12 Blanking plate for vacant position



Peripherals overview

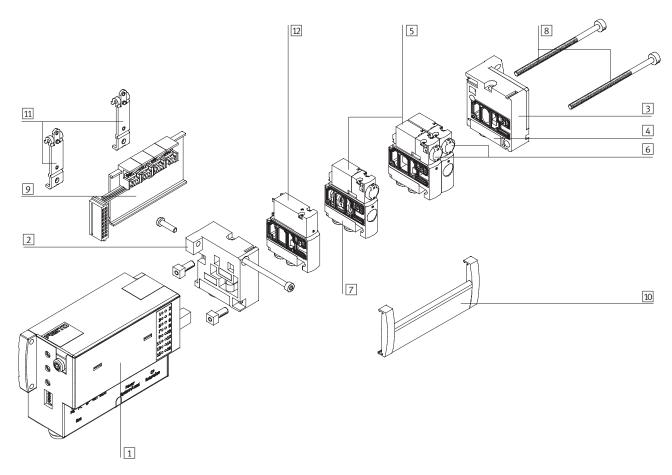
Valve terminal with Fieldbus Direct

- M12 A-coded DeviceNet connection Code: DN
- 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 DeviceNet/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 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 silencer (3/5 or 82/84)
- 4 Sub-base for ducted exhaust air (push-in fitting or threaded)
- 5 Valve
- 6 Cover for manual override (optional)
- 7 Sub-base for working ports (push-in fitting or threaded)
- 8 Tie roo
- 9 Electrical valve linking module
- 10 Inscription label holder
- 11 H-rail mounting
- Blanking plate for vacant position



Peripherals overview

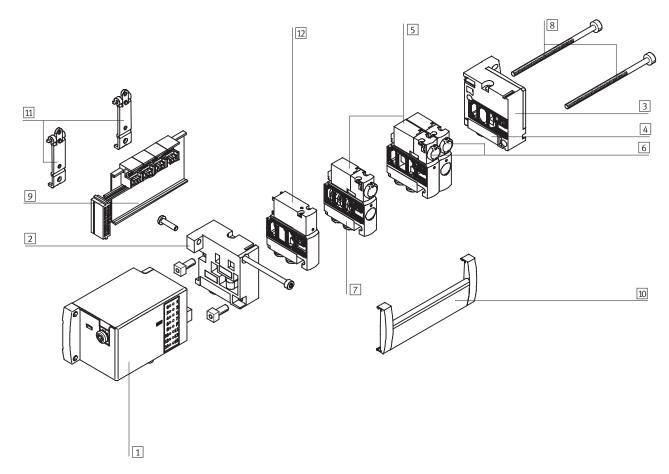
Valve terminal with CPI connection

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 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 silencer (3/5 or 82/84)
- 4 Sub-base for ducted exhaust air (push-in fitting or threaded)
- 5 Valve
- 6 Cover for manual override (optional)
- 7 Sub-base for working ports (push-in fitting or threaded)
- 8 Tie rod
- 9 Electrical valve linking module
- 10 Inscription label holder
 - 1 H-rail mounting
- 12 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	Width 10 mm	Description
	М	14 84 5 1 3		5/2-way single solenoid valve • Pneumatic spring return
	N	10 2 1 12 82 1 3		3/2-way single solenoid valve Normally open Pneumatic spring return
	K	14 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		3/2-way single solenoid valve Normally closed Pneumatic spring return
	D	14 84 1	•	2/2-way single solenoid valve Normally closed Pneumatic spring return
	J	34 04 5 1 1 3 82	•	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).



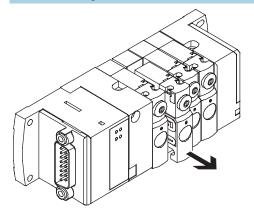
Valves				
Valve functions	Code	Circuit symbol	Width 10 mm	Description
Pneumatic supply plate with duct separat	ion			
3 12/14 1 5	Т	82/84		Compressed air channel (1) closed For separating pressure zones with a common exhaust. (Using pressure zones → 14) Pneumatic connection: QS-4, M5
3 1 1 5	S	82/84 12/14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	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 sepa	aration			
3 12/14 1 5	U	82/84 12/14 5 1 1 3 2	•	Additional compressed air supply (1) and additional exhaust (3/5). Pneumatic connection: QS-4, M5
Blanking plate			•	
3 1 1 1 5	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^{1} 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.



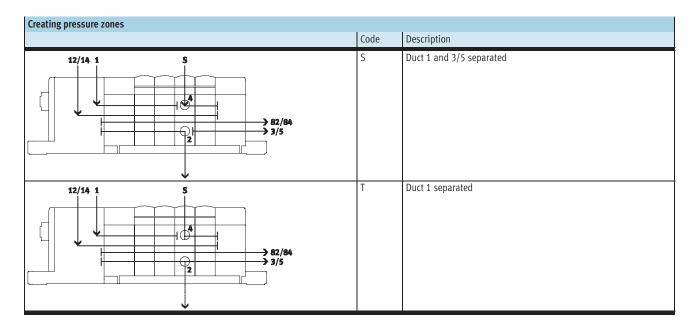
Note

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.





Pneumatic working ports		
	Code	Description
Working port		
Best Kat Kar	В	M5 threaded connection
	E	QS-3 push-in connector
Sold Half	F	QS-4 push-in connector
Supply port, left-hand end plate		
Supply port, et mand one 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)



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

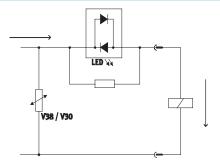


Pneumatic supply				
End plate combination	on		Code	Description
	82/84 12/14 3 1 5		S	Internal pilot air supply, flat plate silencer For operating pressure in the range 3 7 bar
		\wedge	T	External pilot air supply,
	82/84			flat plate silencer For operating pressure in the range –0.9 +7 bar
		\wedge	V	Internal pilot air supply,
	82/84 12/14 1 5			ducted exhaust air For operating pressure in the range 3 7 bar
		\wedge	Х	External pilot air supply,
	82/84 12/14 3 1 5			ducted exhaust air For operating pressure in the range –0.9 +7 bar
6		$\overline{}$	Υ	Internal pilot air,
	82/84 12/14 3 1 5			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:

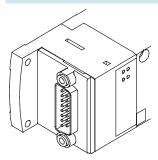
- Sub-D multi-pin plug connection (15- and 26-pin) or
- Multi-pin plug connection with connector for flat cable (20-pin)

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	Туре	Part No.		
			[m]				
\sim	СР	15-pin for 12 coils (code MS)	2.5	KMP6-15P-12-2,5	527543		
***	CQ	Material: PVC	5	KMP6-15P-12-5	527544		
	CR		10	KMP6-15P-12-10	527545		
000000	CP	26-pin for 16 coils (code MH)	2.5	KMP6-26P-16-2,5	527546		
25035633T	CQ	Material: PVC	5	KMP6-26P-16-5	527547		
	CR		10	KMP6-26P-16-10	527548		



Pin allocation for 15-pin Sub-D (code	MS)			
KMP6-15P-12	Description	Pin	Core colour	Address/coil
	Plug socket with cable for the CPV-SC	1	White	Coil 0
(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 0 5		6	Pink	Coil 5
130 06		7	Blue	Coil 6
140 07		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 ¹⁾
		15	White-yellow	0 V ¹⁾

¹⁾ 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.

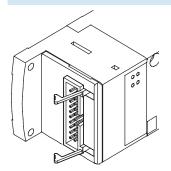
Pin allocation for 26-pin Sub-D (code				
KMP6-26P-16	Description	Pin	Core colour	Allocation
(2)	Plug socket with cable for the CPV-SC	1	White	Coil 0
[[18 💍 []	valve terminal with 16 valve positions	2	Brown	Coil 1
0 ~ 0		3	Green	Coil 2
		4	Yellow	Coil 3
		5	Grey	Coil 4
		6	Pink	Coil 5
		7	Blue	Coil 6
		8	Red	Coil 7
		9	Black	Coil 8
0 0 1		10	Purple	Coil 9
10		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 ¹⁾
	Sub-D socket on the multi-pin cable	24	Grey-brown	0 V ¹⁾
	KMP6-26P-12	25	White-pink	0 V ¹⁾
		26	Pink-brown	0 V ¹⁾

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.



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.

in allocation – Connector for flat cabl	e (code MF)		
		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	-2 or IEC 60603-13-C020FD-7C1E-2G	4	Coil 3
16+ +15 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 ²	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 ¹⁾
		18	0 V ¹⁾
		19	0 V ¹⁾
		20	0 V ¹⁾

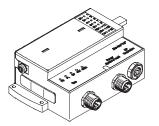
¹⁾ Pin 17 to pin 20 are bridged in the valve terminal.

Key features – Electrical components

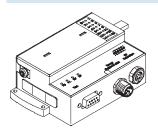


Fieldbus Direct

DeviceNet



Profibus DP



Properties

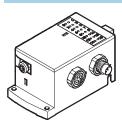
Fieldbus Direct is a system for the compact connection of a valve terminal of various sizes to different fieldbus standards.

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

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.

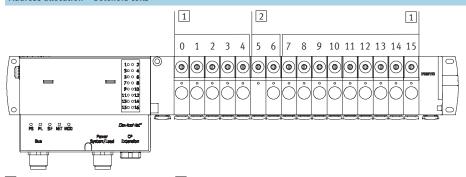


Not

Further information can be found in

Internet: ctec

Address allocation - Solenoid coils



Single solenoid valves occupy one valve position

2 Double solenoid valves occupy two valve positions

The addresses of the valve positions on the CPV-SC-DN/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.

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.

Example:

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

Key features – Display and operation



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.

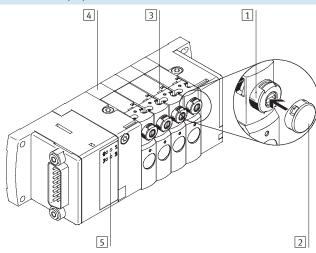
A cover can be fitted over the manual override to prevent it from being activated accidentally (code V).



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 (non-detenting or detenting via turning using a screwdriver)
- 2 Cover for manual override (code V)
- 3 Location for valve position inscription label (type MH-BZ-80x)
- 4 Numbering of valve positions
- 5 LED signal status display per valve position

Manual override with automatic return (non-detenting)



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

Manual override set via turning (detenting)



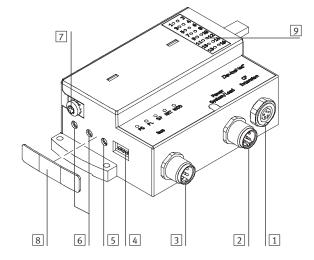
Manual override remains active until it is reset with a screwdriver.

Valve terminals type 80 CPV-SC, Smart Cubic Key features – Display and operation



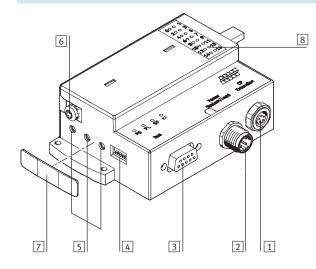
Display and operation

Fieldbus Direct – DeviceNet



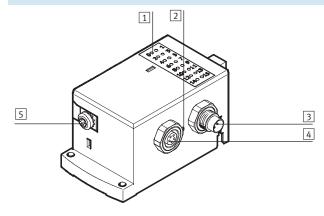
- 1 Connection for CP extension (with CP functionality)
- Connection for power supply
- 3 Connection for fieldbus
- 4 DIL switch for CP extension
- 5 Rotary switch for baud rate
- 6 Rotary switch for station number
- 7 Earth terminal
- Cover (for IP40 protection)
- Switching status display per valve

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
- Earth terminal
- Cover (for IP40 protection)
- Switching status display per

CP interface

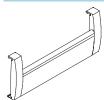


- 1 Status LEDs for valves
- 2 Status LED for CP communication
- CP connection, incoming
- 4 CP connection, outgoing
- 5 Earth terminal

Valve terminals type 80 CPV-SC, Smart Cubic Key features – Display and operation



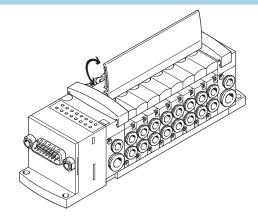
Inscription label holder



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

Labelling templates are available on

→ www.festo.com





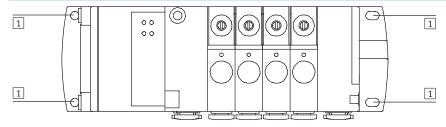
Key features – Mounting types

Mounting - Valve terminal

Sturdy terminal mounting thanks to:

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

Wall mounting

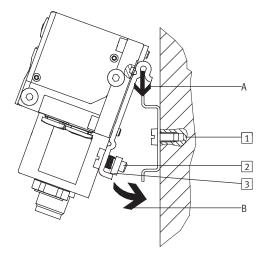


1 Mounting holes for screws M3

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



- N - Flow rate 170 l/min

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

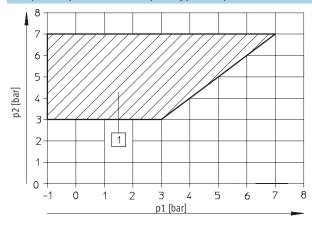
- **** - Voltage 5, 12, 24 V DC



General technical data	General technical data						
Valve		5/2-way valve		3/2-way valve	2/2-way valve		
		Single solenoid	Double solenoid	Normally open	Normally closed	Normally closed	
Valve function order code		M	J	N	K	D	
Constructional design		Electromagnetically actu	uated piston spool valve				
Width	[mm]	10		10		10	
Nominal diameter	[mm]	2.5		2.5		2.5	
Standard nominal flow rate	[l/min]	170		170		150	
Lubrication		Life-time lubrication					
Type of mounting		Wall mounting					
Mounting position		Any					
Manual override		Non-detenting/detenting	g/blocked				
Pneumatic connections							
Supply	1	M7, QS-6					
Exhaust port	3/5	M7, QS-6, round silence	er or integrated flat plate	silencer			
Working ports	2/4	Depending on the conne	ection type selected				
		• M5					
		• QS-3					
		• QS-4					
Pilot air port	12/14	M5, QS-4	M5, QS-4				
Pilot exhaust air port	82/84	M5, QS-4, round silence	er or integrated flat plate	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	M	J	N	K	D	
Response times	on	10	10	10	10	10
	off	10	-	10	10	10
	changeover	-	8	_	-	_

Operating and environmental conditions	Operating and environmental conditions						
Valve function order code		M	J	N	K	D	
Operating medium		Filtered compresse	ed air, lubricated or	unlubricated, inert	gases permissible	→ 28	
Grade of filtration	[µm]	40					
Paint-wetting impairment substances criterion		Yes (free of paint-v	vetting impairment	substances)			
CE certification	Yes, with control u	nit to EMC regulation	ons				
Certification		c UL us recognized	I (OL)				
Operating pressure	bar]	-9 +7					
Operating pressure for valve terminal with internal pilot	bar]	3 7					
air supply							
Pilot pressure	bar]	3 7					
Ambient temperature	[°C]	-5 +50					
Temperature of medium	[°C]	-5 +50					
Storage temperature	[°C]	-20 +40					
Corrosion resistance class CRC ¹⁾		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.



Electrical data							
Valve function order code			M	J	N	K	D
Electromagnetic compatibility of	of the CPV-SC valve termin	al with	Interference emiss	ion tested to DIN EN	N 61000-6-4, indus	try	
Sub-D or flat cable connection			Interference immu	nity ¹⁾ tested to DIN	EN 61000-6-2, ind	ustry	
Protection against electric shock (protection against direct and			By means of PELV	oower supply unit			
indirect contact to EN 60204-1/IEC 204)							
Nominal operating voltage of Multi-pin plug connec- [V DC]			24				
valve terminal	tion						
	Individual sub-base	[V]	5,12,24				
Permissible voltage fluctuations	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	Protection class to EN 60529			IP40 (in assembled state and with detenting plug)			
Relative air humidity		[%]	90 at 40 °C, non-c	ondensing			

¹⁾ The maximum signal line length is 10 m

Materials							
Valve function order code	M	J	N	K	D		
Electrical interface	Polymer						
End plate, electrical sub-base	Polymer						
Seals	Elastomer						
Valve slice	Die-cast aluminium						
Sub-base for working ports	Polyamide						

Product weight [g]					
Valve function order code	M	J	N	K	D
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 40°C).

Bio-oils

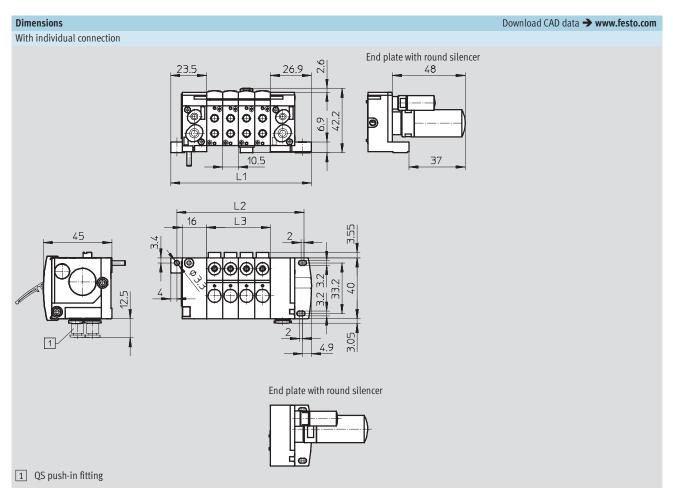
When using bio-oils (oils which are based upon synthetic or native ester, e.g. rapeseed oil methyl ester), the maximum residual oil content of 0.1 mg/m³ must not be exceeded (see ISO 8573-1 Class 2).

Mineral oils

When using mineral oils (e.g. HLP oils to DIN 51524, Parts 1 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).

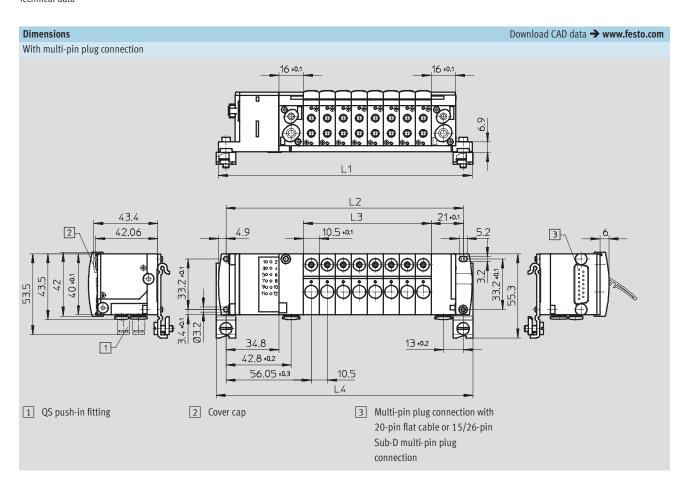
A higher residual oil content irrespective of the compressor oil cannot be permitted, as the basic lubricant would be flushed out over time.





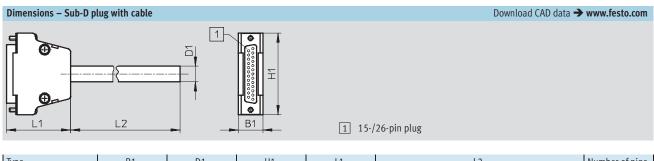
Valve positions n	L1	L2	L3
2	71.4	62.5	21
3	81.9	73	31.5
4	92.4	83.5	42
5	102.9	94	52.5
6	113.4	104.5	63
7	123.9	115	73.5
8	134	125.1	84
9	144.9	136	94.5
10	155.4	146.5	105
11	165.9	157	115.5
12	176.4	167.5	126
13	186.9	178	136.5
14	197.4	188.5	147
15	207.9	199	157.5
16	218.4	209.5	168





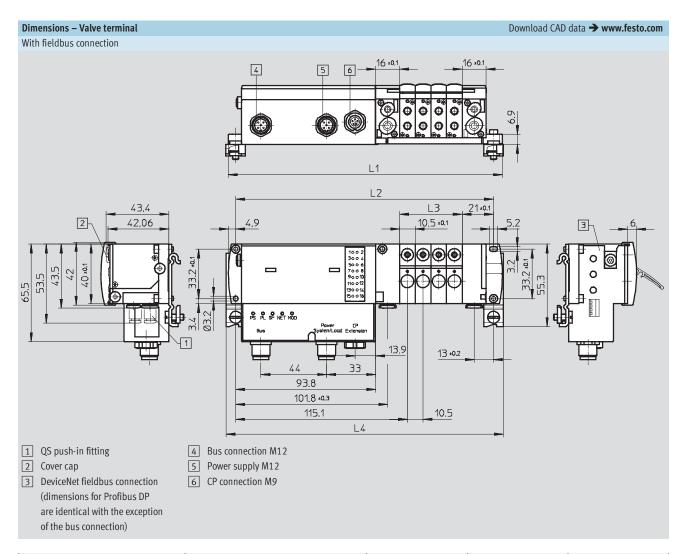
Valve positions n	L1	L2	L3
4	125	114	42
5	135.5	124.5	52.5
6	146	135	63
7	146.5	145.5	73.5
8	167	156	84
9	177.5	166.5	94.5
10	188	177	105
11	198.5	187.5	115.5
12	209	198	126
13	219.5	208.5	136.5
14	230	219	147
15	240.5	229.5	157.5
16	251	240	168





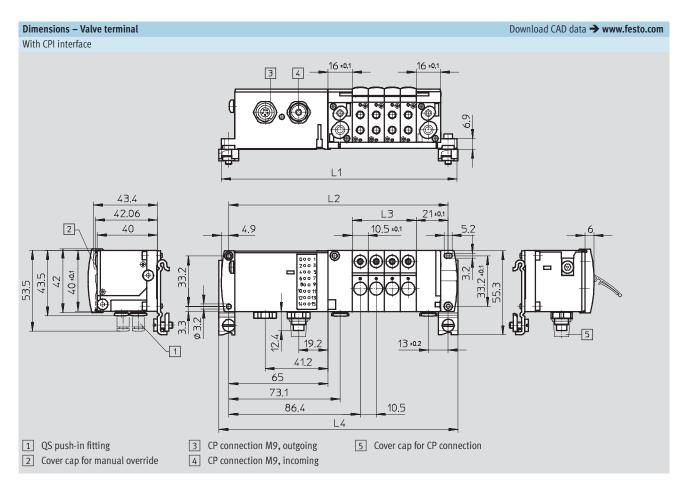
Туре	B1	D1	H1	L1	L2		Number of pins	
KMP6-15P-12	16	8.5	40	34.5	2,500	5,000	10,000	15
KMP6-26P-16	16	8.6	40	34.5	2,500	5,000	10,000	26





Valve positions n	L1	L2	L3	L4
4	183.6	172.8	42	185.4
5	194.1	183.3	52.5	195.9
6	204.6	193.8	63	206.4
7	215.1	204.3	73.5	216.9
8	225.6	214.8	84	227.4
9	236.1	225.3	94.5	237.9
10	246.6	235.8	105	248.4
11	257.1	246.3	115.5	258.9
12	267.6	256.8	126	269.4
13	278.1	267.3	136.5	279.9
14	288.6	277.8	147	290.4
15	299.1	288.3	157.5	300.9
16	309.6	298.8	168	311.4





Valve positions n	L1	L2	L3	L4
4	154.9	144.1	42	156.7
5	165.4	154.6	52,5	167.2
6	175.9	165.1	63	177.7
7	186.4	175.6	73,5	188.2
8	196.9	186.1	84	198.7
9	207.4	196.6	94,5	209.2
10	217.9	207.1	105	219.7
11	228.4	217.6	115,5	230.2
12	238.9	228.1	126	240.7
13	249.4	238.6	136,5	251.2
14	259.9	249.1	147	261.7
15	270.4	259.6	157,5	272.2
16	280.9	270.1	168	282.7



•	s with electrical plug-in connection		,
Designation		Туре	Part No.
\wedge	Solenoid valve with M5 connections		
	5/2-way single solenoid valve	CPVSC1-M1H-M-P-M5	527550
	5/2-way double solenoid valve	CPVSC1-M1H-J-P-M5	527553
	3/2-way valve, normally open	CPVSC1-M1H-N-P-M50	527551
	3/2-way valve, normally closed	CPVSC1-M1H-K-P-M5C	527552
	2/2-way valve, normally closed	CPVSC1-M1H-D-P-M5C	527554
	Solenoid valve with QS-3 push-in connectors		
	5/2-way single solenoid valve	CPVSC1-M1H-M-P-Q3	527555
	5/2-way double solenoid valve	CPVSC1-M1H-J-P-Q3	527558
	3/2-way valve, normally open	CPVSC1-M1H-N-P-Q30	527556
	3/2-way valve, normally closed	CPVSC1-M1H-K-P-Q3C	527557
	2/2-way valve, normally closed	CPVSC1-M1H-D-P-Q3C	527559
	5/2-way single solenoid valve	CPVSC1-M1H-M-P-Q4	527560
	5/2-way double solenoid valve	CPVSC1-M1H-J-P-Q4	527563
~	3/2-way valve, normally open	CPVSC1-M1H-N-P-Q40	527561
	3/2-way valve, normally closed	CPVSC1-M1H-K-P-Q4C	527562
	2/2-way valve, normally closed	CPVSC1-M1H-D-P-Q4C	527564
	2/2 may variet, normally closed	G 1561 III II 7 Q 16	32730
~	Blanking plates with integrated connections		
	Vacant position, with blanking plate	CPVSC1-RP-B	527527
		I	
	Supply plate M5		
	Duct 1 separated	CPVSC1-SP-P-M5	527528
	Duct 1/3/5 separated	CPVSC1-SP-PRS-M5	527530
	Without duct separation	CPVSC1-SP-M5	527532
	Combanists OC / much in approximate		
	Supply plate, QS-4 push-in connector	CDVCC4 CD D O4	F27F26
	Duct 1 separated	CPVSC1-SP-P-Q4	527529
<u> </u>	Duct 1/3/5 separated Without duct separation	CPVSC1-SP-PRS-Q4 CPVSC1-SP-Q4	527531
	without duct separation	CPV3C1-3P-Q4	527533
*	Cover for manual override		
	Non-detenting, 10 pieces	VMPA-HBT-B	540897
$\overline{}$	Covered, 10 pieces	VMPA-HBV-B	540898



_	lves with individual electrical connection, detenting manual override	, ,	
esignation		Туре	Part No.
ALD.	Solenoid valve with M5 connections		
	5/2-way single solenoid valve	CPVSC1-M1H-M-T-M5	547276
	5/2-way double solenoid valve	CPVSC1-M1H-J-T-M5	547277
	3/2-way valve, normally open	CPVSC1-M1H-N-T-M50	547275
	3/2-way valve, normally closed	CPVSC1-M1H-K-T-M5C	547274
	2/2-way valve, normally closed	CPVSC1-M1H-D-T-M5C	547273
	Solenoid valve with M5 connections and LED		
V	5/2-way single solenoid valve	CPVSC1-M1LH-M-T-M5	547306
	5/2-way double solenoid valve	CPVSC1-M1LH-J-T-M5	547307
	3/2-way valve, normally open	CPVSC1-M1LH-N-T-M50	547305
	3/2-way valve, normally closed	CPVSC1-M1LH-K-T-M5C	547304
	2/2-way valve, normally closed	CPVSC1-M1LH-D-T-M5C	547303
	Solenoid valve with QS-3 push-in connectors		
	5/2-way single solenoid valve	CPVSC1-M1H-M-T-Q3	547281
	5/2-way double solenoid valve	CPVSC1-M1H-J-T-Q3	547282
	3/2-way valve, normally open	CPVSC1-M1H-N-T-Q30	547280
	3/2-way valve, normally closed	CPVSC1-M1H-K-T-Q3C	547279
	2/2-way valve, normally closed	CPVSC1-M1H-D-T-Q3C	547278
		-	I .
	Solenoid valve with QS-3 push-in connectors and LED		
	5/2-way single solenoid valve	CPVSC1-M1LH-M-T-Q3	547311
	5/2-way double solenoid valve	CPVSC1-M1LH-J-T-Q3	547312
	3/2-way valve, normally open	CPVSC1-M1LH-N-T-Q30	547310
	3/2-way valve, normally closed	CPVSC1-M1LH-K-T-Q3C	547309
	2/2-way valve, normally closed	CPVSC1-M1LH-D-T-Q3C	547308
	Solenoid valve with QS-4 push-in connectors		
	5/2-way single solenoid valve	CPVSC1-M1H-M-T-Q4	547286
	5/2-way double solenoid valve	CPVSC1-M1H-J-T-Q4	547287
	3/2-way valve, normally open	CPVSC1-M1H-N-T-Q40	547285
	3/2-way valve, normally closed	CPVSC1-M1H-K-T-Q4C	547284
	2/2-way valve, normally closed	CPVSC1-M1H-D-T-Q4C	547283
	Calanaid valva with OC / puch in semestars and LFD		
	Solenoid valve with QS-4 push-in connectors and LED 5/2-way single solenoid valve	CPVSC1-M1LH-M-T-Q4	547316
	5/2-way double solenoid valve	CPVSC1-M1LH-I-T-Q4	547317
	3/2-way valve, normally open	CPVSC1-M1LH-N-T-Q40	547317
	3/2-way valve, normally closed	CPVSC1-M1LH-K-T-Q4C	547314
	2/2-way valve, normally closed	CPVSC1-M1LH-D-T-Q4C	547313



ation		Туре	Part N					
	Solenoid valve with M5 connections	·						
*	5/2-way single solenoid valve	CPVSC1-M1H-M-H-M5	5472					
Y@*>	5/2-way double solenoid valve	CPVSC1-M1H-J-H-M5	5472					
	3/2-way valve, normally open	CPVSC1-M1H-N-H-M5O	5472					
	3/2-way valve, normally closed	CPVSC1-M1H-K-H-M5C	5472					
	2/2-way valve, normally closed	CPVSC1-M1H-D-H-M5C	5472					
	Solenoid valve with M5 connections and LED							
	5/2-way single solenoid valve	CPVSC1-M1LH-M-H-M5	5473					
	5/2-way double solenoid valve	CPVSC1-M1LH-J-H-M5	5473					
	3/2-way valve, normally open	CPVSC1-M1LH-N-H-M50	5473					
	3/2-way valve, normally closed	CPVSC1-M1LH-K-H-M5C	5473					
	2/2-way valve, normally closed	CPVSC1-M1LH-D-H-M5C	5473					
	Solenoid valve with QS-3 push-in connectors							
	5/2-way single solenoid valve	CPVSC1-M1H-M-H-Q3	5472					
	5/2-way double solenoid valve	CPVSC1-M1H-J-H-Q3	5472					
V	3/2-way valve, normally open	CPVSC1-M1H-N-H-Q3O	5472					
	3/2-way valve, normally closed	CPVSC1-M1H-K-H-Q3C	5472					
	2/2-way valve, normally closed	CPVSC1-M1H-D-H-Q3C	5472					
	Solenoid valve with QS-3 push-in connectors and LED	Solenoid valve with QS-3 push-in connectors and LED						
	5/2-way single solenoid valve	CPVSC1-M1LH-M-H-Q3	5473					
	5/2-way double solenoid valve	CPVSC1-M1LH-J-H-Q3	5473					
	3/2-way valve, normally open	CPVSC1-M1LH-N-H-Q30	5473					
	3/2-way valve, normally closed	CPVSC1-M1LH-K-H-Q3C	5473					
	2/2-way valve, normally closed	CPVSC1-M1LH-D-H-Q3C	5473					
	Solenoid valve with QS-4 push-in connectors							
	5/2-way single solenoid valve	CPVSC1-M1H-M-H-Q4	5473					
	5/2-way double solenoid valve	CPVSC1-M1H-J-H-Q4	5473					
	3/2-way valve, normally open	CPVSC1-M1H-N-H-Q40	5473					
	3/2-way valve, normally closed	CPVSC1-M1H-K-H-Q4C	5472					
	2/2-way valve, normally closed	CPVSC1-M1H-D-H-Q4C	5472					
	Solenoid valve with QS-4 push-in connectors and LED							
	5/2-way single solenoid valve	CPVSC1-M1LH-M-H-Q4	5473					
	5/2-way double solenoid valve	CPVSC1-M1LH-J-H-Q4	5473					
	3/2-way valve, normally open	CPVSC1-M1LH-N-H-Q40	5473					
	3/2-way valve, normally closed	CPVSC1-M1LH-K-H-Q4C	5473					
	2/2-way valve, normally closed	CPVSC1-M1LH-D-H-Q4C	5473					



Designation		Туре	Part No.						
	Solenoid valve with M5 connections								
	5/2-way single solenoid valve	CPVSC1-M1HT-M-T-M5	548037						
	5/2-way double solenoid valve	CPVSC1-M1HT-J-T-M5	548038						
	3/2-way valve, normally open	CPVSC1-M1HT-N-T-M50	548036						
	3/2-way valve, normally closed	CPVSC1-M1HT-K-T-M5C	548035						
	2/2-way valve, normally closed	CPVSC1-M1HT-D-T-M5C	548034						
	Solenoid valve with QS-3 push-in connectors								
V	5/2-way single solenoid valve	CPVSC1-M1HT-M-T-Q3	548043						
	5/2-way double solenoid valve	CPVSC1-M1HT-J-T-Q3	548044						
	3/2-way valve, normally open	CPVSC1-M1HT-N-T-Q3O	548042						
	3/2-way valve, normally closed	CPVSC1-M1HT-K-T-Q3C	548041						
	2/2-way valve, normally closed	CPVSC1-M1HT-D-T-Q3C	548040						
	Solenoid valve with QS-4 push-in connectors								
	5/2-way single solenoid valve	CPVSC1-M1HT-M-T-Q4	548048						
	5/2-way double solenoid valve	CPVSC1-M1HT-J-T-Q4	548049						
	3/2-way valve, normally open	CPVSC1-M1HT-N-T-Q4O	548047						
	3/2-way valve, normally closed	CPVSC1-M1HT-K-T-Q4C	548046						
	2/2-way valve, normally closed	CPVSC1-M1HT-D-T-Q4C	548045						

Ordering data - Valve	s with individual electrical connection, pushing manual override, ho	rizontal plug, 24 V DC	
Designation		Туре	Part No.
	Solenoid valve with M5 connections		
	5/2-way single solenoid valve	CPVSC1-M1HT-M-H-M5	548053
	5/2-way double solenoid valve	CPVSC1-M1HT-J-H-M5	548054
	3/2-way valve, normally open	CPVSC1-M1HT-N-H-M50	548052
	3/2-way valve, normally closed	CPVSC1-M1HT-K-H-M5C	548051
	2/2-way valve, normally closed	CPVSC1-M1HT-D-H-M5C	548050
		·	•
	Solenoid valve with QS-3 push-in connectors		
	5/2-way single solenoid valve	CPVSC1-M1HT-M-H-Q3	548058
	5/2-way double solenoid valve	CPVSC1-M1HT-J-H-Q3	548059
	3/2-way valve, normally open	CPVSC1-M1HT-N-H-Q30	548057
	3/2-way valve, normally closed	CPVSC1-M1HT-K-H-Q3C	548056
	2/2-way valve, normally closed	CPVSC1-M1HT-D-H-Q3C	548055
	Solenoid valve with QS-4 push-in connectors		
	5/2-way single solenoid valve	CPVSC1-M1HT-M-H-Q4	548063
	5/2-way double solenoid valve	CPVSC1-M1HT-J-H-Q4	548064
	3/2-way valve, normally open	CPVSC1-M1HT-N-H-Q40	548062
	3/2-way valve, normally closed	CPVSC1-M1HT-K-H-Q4C	548061
	2/2-way valve, normally closed	CPVSC1-M1HT-D-H-Q4C	548060



ignation		Туре	Part No
A	Solenoid valve with M5 connections		
	5/2-way single solenoid valve	CPVSC1-M5H-M-T-M5	54736
YR">	5/2-way double solenoid valve	CPVSC1-M5H-J-T-M5	5473
	3/2-way valve, normally open	CPVSC1-M5H-N-T-M5O	5473
	3/2-way valve, normally closed	CPVSC1-M5H-K-T-M5C	5473
	2/2-way valve, normally closed	CPVSC1-M5H-D-T-M5C	5473
	Solenoid valve with QS-3 push-in connectors		
~	5/2-way single solenoid valve	CPVSC1-M5H-M-T-Q3	5473
	5/2-way double solenoid valve	CPVSC1-M5H-J-T-Q3	5473
	3/2-way valve, normally open	CPVSC1-M5H-N-T-Q30	5473
	3/2-way valve, normally closed	CPVSC1-M5H-K-T-Q3C	5473
	2/2-way valve, normally closed	CPVSC1-M5H-D-T-Q3C	5473
	Solenoid valve with QS-4 push-in connectors		
	5/2-way single solenoid valve	CPVSC1-M5H-M-T-Q4	5473
	5/2-way double solenoid valve	CPVSC1-M5H-J-T-Q4	5473
	3/2-way valve, normally open	CPVSC1-M5H-N-T-Q40	5473
	3/2-way valve, normally closed	CPVSC1-M5H-K-T-Q4C	5473
	2/2-way valve, normally closed	CPVSC1-M5H-D-T-Q4C	5473

nation		Туре	Part N
^	Solenoid valve with M5 connections		
	5/2-way single solenoid valve	CPVSC1-M5H-M-H-M5	5473
	5/2-way double solenoid valve	CPVSC1-M5H-J-H-M5	5473
	3/2-way valve, normally open	CPVSC1-M5H-N-H-M5O	5473
	3/2-way valve, normally closed	CPVSC1-M5H-K-H-M5C	5473
	2/2-way valve, normally closed	CPVSC1-M5H-D-H-M5C	5473
	Solenoid valve with QS-3 push-in connectors		
~	5/2-way single solenoid valve	CPVSC1-M5H-M-H-Q3	5473
	5/2-way double solenoid valve	CPVSC1-M5H-J-H-Q3	5473
	3/2-way valve, normally open	CPVSC1-M5H-N-H-Q30	5473
	3/2-way valve, normally closed	CPVSC1-M5H-K-H-Q3C	5473
	2/2-way valve, normally closed	CPVSC1-M5H-D-H-Q3C	5473
	Solenoid valve with QS-4 push-in connectors		
	5/2-way single solenoid valve	CPVSC1-M5H-M-H-Q4	5473
	5/2-way double solenoid valve	CPVSC1-M5H-J-H-Q4	5473
	3/2-way valve, normally open	CPVSC1-M5H-N-H-Q40	5473
	3/2-way valve, normally closed	CPVSC1-M5H-K-H-Q4C	5473
	2/2-way valve, normally closed	CPVSC1-M5H-D-H-Q4C	5473



n		Туре	Part No.
	Solenoid valve with M5 connections		
3	5/2-way single solenoid valve	CPVSC1-M4H-M-T-M5	54733
	5/2-way double solenoid valve	CPVSC1-M4H-J-T-M5	54733
	3/2-way valve, normally open	CPVSC1-M4H-N-T-M50	54733
	3/2-way valve, normally closed	CPVSC1-M4H-K-T-M5C	54733
	2/2-way valve, normally closed	CPVSC1-M4H-D-T-M5C	54733
	Solenoid valve with QS-3 push-in connectors		
~	5/2-way single solenoid valve	CPVSC1-M4H-M-T-Q3	54734
	5/2-way double solenoid valve	CPVSC1-M4H-J-T-Q3	54734
	3/2-way valve, normally open	CPVSC1-M4H-N-T-Q30	54734
	3/2-way valve, normally closed	CPVSC1-M4H-K-T-Q3C	54734
	2/2-way valve, normally closed	CPVSC1-M4H-D-T-Q3C	54733
	Solenoid valve with QS-4 push-in connectors		
	5/2-way single solenoid valve	CPVSC1-M4H-M-T-Q4	54734
	5/2-way double solenoid valve	CPVSC1-M4H-J-T-Q4	54734
	3/2-way valve, normally open	CPVSC1-M4H-N-T-Q40	54734
	3/2-way valve, normally closed	CPVSC1-M4H-K-T-Q4C	54734
	2/2-way valve, normally closed	CPVSC1-M4H-D-T-Q4C	54734

nation		Туре	Part No
<u> </u>	Solenoid valve with M5 connections		
	5/2-way single solenoid valve	CPVSC1-M4H-M-H-M5	5473
	5/2-way double solenoid valve	CPVSC1-M4H-J-H-M5	5473
	3/2-way valve, normally open	CPVSC1-M4H-N-H-M50	5473
	3/2-way valve, normally closed	CPVSC1-M4H-K-H-M5C	5473
	2/2-way valve, normally closed	CPVSC1-M4H-D-H-M5C	5473
	Colorado de Colora		
	Solenoid valve with QS-3 push-in connectors	Lanuage Maria Maria	1
	5/2-way single solenoid valve	CPVSC1-M4H-M-H-Q3	5473
	5/2-way double solenoid valve	CPVSC1-M4H-J-H-Q3	5473
	3/2-way valve, normally open	CPVSC1-M4H-N-H-Q30	5473
	3/2-way valve, normally closed	CPVSC1-M4H-K-H-Q3C	5473
	2/2-way valve, normally closed	CPVSC1-M4H-D-H-Q3C	5473
	Solenoid valve with QS-4 push-in connectors		
	5/2-way single solenoid valve	CPVSC1-M4H-M-H-Q4	5473
	5/2-way double solenoid valve	CPVSC1-M4H-J-H-Q4	5473
	3/2-way valve, normally open	CPVSC1-M4H-N-H-Q4O	5473
	3/2-way valve, normally closed	CPVSC1-M4H-K-H-Q4C	5473
	2/2-way valve, normally closed	CPVSC1-M4H-D-H-Q4C	5473



Ordering data – End pla	tes		
Designation		Туре	Part No.
Left-hand end plates			
	With external pilot air supply	CPVSC1-EPL-E	527585
	With internal pilot air supply	CPVSC1-EPL-I	527583
		·	•
Right-hand end plates			
	With ducted exhaust air	CPVSC1-EPR-G	527587
	With unducted exhaust air and flat plate silencer	CPVSC1-EPR-U	527589
	With unducted exhaust air and round silencer	CPVSC1-EPR-UC	536060



ries			
		Туре	Part No.
Electrical connection		CPVSC1-AE16-CPI	541975
Fieldbus Direct – DeviceNet		CPVSC1-AE16-DN	538654
Fieldbus Direct – Profibus DP		CPVSC1-AE16-DP	541919
postion			
	0.5 m	KWH-0 5	197263
riug socket with cable, 1740			197264
			527400
			527400
	Electrical connection Fieldbus Direct – DeviceNet	Electrical connection Fieldbus Direct – DeviceNet Fieldbus Direct – Profibus DP	Electrical connection CPVSC1-AE16-CPI Fieldbus Direct – DeviceNet Fieldbus Direct – Profibus DP CPVSC1-AE16-DN CPVSC1-AE16-DP CPVSC1-AE16-DP CPVSC1-AE16-DP CPVSC1-AE16-DP CPVSC1-AE16-DP



Ordering data – A Designation			Туре	Part No.
			Туре	rait No.
Power supply	THE COLUMN TO THE PART OF THE	Is a == 2	LUZZO OD O MAGO ZDOU DV	1
	Micro Style 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
Fieldbus connecti	on			
	Fieldbus socket for Micro Style connection, M12, 5-pin socket (A-coded)		FBSD-GD-9-5POL	18324
	Straight plug, 5-pin, screw terminal		FBS-M12-5GS-PG9	175380
	T-adapter, 5-pin, for DH-485/DeviceNet		FB-TA-M12-5POL	171175
Connecting cable,	, IP40, for multi-pin plug connection	'		l
	Sub-D, 15-pin, up to 12 valve positions	2.5 m	KMP6-15P-12-2,5	527543
	for code MS	5 m	KMP6-15P-12-5	527544
	Material: PVC	10 m	KMP6-15P-12-10	52754
	Sub-D, 26-pin, up to 16 valve positions	2.5 m	KMP6-26P-16-2,5	527546
	for code MH	5 m	KMP6-26P-16-5	527547
	Material: PVC	10 m	KMP6-26P-16-10	527548
Valve terminal co	nnaction			
vatve terminat cor	Angled plug-angled socket	0.25 m	KVI-CP-3-WS-WD-0,25	540327
	Angled plug-angled socket	0.5 m	KVI-CP-3-WS-WD-0,25	540328
	Angled plug-angled socket	2 m	KVI-CP-3-WS-WD-2	540329
4	Angled plug-angled socket	5 m	KVI-CP-3-WS-WD-5	54033
	Angled plug-angled socket	8 m	KVI-CP-3-WS-WD-8	54033
	GS-GD, straight plug-straight socket	2 m	KVI-CP-3-GS-GD-2	54033
	Straight plug-straight socket	5 m	KVI-CP-3-GS-GD-5	54033
	Straight plug-straight socket	8 m	KVI-CP-3-GS-GD-8	540334



Ordering data - Acces	ssories			
Designation			Туре	Part No.
Inscription labels for	valve identification			
	80 pieces, 9x4.5 mm		MH-BZ-80x	197259
Inscription label hold	or .			
	1 piece	for 2 valve positions	CPVSC1-ST-2	547395
	1 piece	for 3 valve positions	CPVSC1-ST-3	547396
n n		for 4 valve positions	CPVSC1-ST-4	527631
		for 5 valve positions	CPVSC1-ST-5	547397
		for 6 valve positions	CPVSC1-ST-6	547398
			CPVSC1-ST-7	
		for 7 valve positions	CPVSC1-ST-8	547399
		for 8 valve positions		527633
		for 9 valve positions	CPVSC1-ST-9	547400
		for 10 valve positions	CPVSC1-ST-10	547401
		for 11 valve positions	CPVSC1-ST-11	547402
		for 12 valve positions	CPVSC1-ST-12	527635
		for 13 valve positions	CPVSC1-ST-13	547403
		for 14 valve positions	CPVSC1-ST-14	547404
		for 15 valve positions	CPVSC1-ST-15	547405
		for 16 valve positions	CPVSC1-ST-16	527637
Tie rod	1 piece	for 2 valve positions	CPVSC1-ZA-2	547416
	1 piece	for 3 valve positions	CPVSC1-ZA-2	547417
		for 4 valve positions	CPVSC1-ZA-4	532807
		for 5 valve positions	CPVSC1-ZA-5	547418
		for 6 valve positions	CPVSC1-ZA-6	
		for 7 valve positions	CPVSC1-ZA-6	547419 547420
		for 8 valve positions	CPVSC1-ZA-7	
				532808
		for 9 valve positions	CPVSC1-ZA-9	547421
		for 10 valve positions	CPVSC1-ZA-10	547422
		for 11 valve positions	CPVSC1-ZA-11	547423
		for 12 valve positions	CPVSC1-ZA-12	532809
		for 13 valve positions	CPVSC1-ZA-13	547424
		for 14 valve positions	CPVSC1-ZA-14	547425
		for 15 valve positions	CPVSC1-ZA-15	547426
		for 16 valve positions	CPVSC1-ZA-16	532810
Mounting				
	Screw for additional terminal mounting		M3x45	527643
	Mounting		CPVSC-HS35	527639



Ordering data – Acc	essories			
Designation			Туре	Part No.
User documentation				
	User documentation –	German	P.BE-CPVSC-DE	530925
	Pneumatics, valve terminal CPV-SC	English	P.BE-CPVSC-EN	530926
		French	P.BE-CPVSC-FR	530927
		Spanish	P.BE-CPVSC-ES	530928
		Italian	P.BE-CPVSC-IT	530929
		Swedish	P.BE-CPVSC-SV	530930
^	User documentation –	German	P.BE-CPASC-CPVSC-DN-DE	539008
	DeviceNet fieldbus	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 –	German	P.BE-CPASC-CPVSC-DP-DE	548725
	Profibus DP fieldbus	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