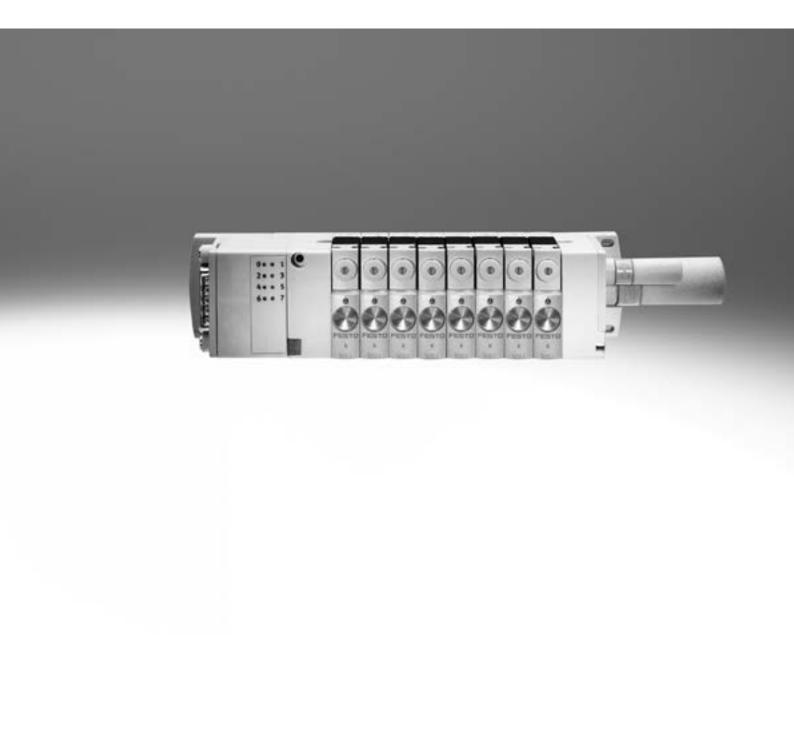
Valve terminal CPV-SC, Smart Cubic

FESTO



Key features



Innovative

- Small, compact valve terminal for a wide range of pneumatic applications
- Great flexibility during planning, assembly and operation
- Multi-pin interface
- Wide range of selectable valve functions; 5/2-way, 3/2-way and 2/2-way functions
- With a flow rate of 170 l/min, CPV-SC offers outstanding pneumatic performance for a wide range of applications
- Light weight

Versatile

- Provides 2 ... 16 valve positions on one terminal
- Particularly suitable for operation of small pneumatic drives in restricted installation space
- Flexibility of the pneumatic working ports provides a practical solution to different requirements
- Round silencers, integrated flat plate silencers or threaded/push-in connection for ducted exhaust air
- Suitable for vacuum
- Enables multiple pressure zones on a single valve terminal

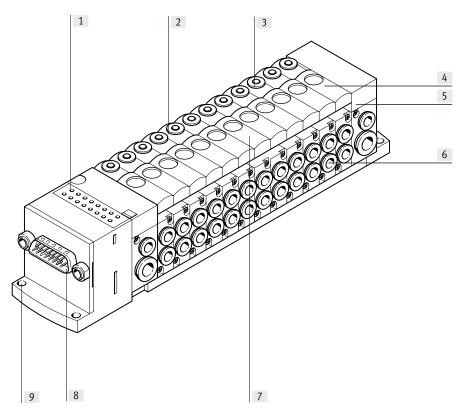
Reliable

- Manual override
- Durable thanks to 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
- Reduced ordering, assembly and commissioning costs
- Suitable for direct mounting even on moving system components

Key features



- [1] Reduced downtimes: light emitting diodes indicate the switching status
- [2] Valve size 10 mm
- [3] Reliable operation: manual override non-detenting and detenting
- [4] Simple to extend: blanking plates reserve space for additional valves
- [5] Space saving:
 Grid 40x40 mm
 Maximum 16 valves
- [6] Practical connection: thread or push-in connector
- [7] Comprehensive range of valve functions
- [8] Simple electrical connections: individual valve connection, Sub-D plug, ribbon cable
- [9] Quick to mount: secure directly using screws

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 duct (1) closed
- Compressed air duct (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

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

CP interface

- 4 ... 16 valve positions/ max. 16 solenoid coils
- Additional valve terminals CPV-SC-CPI or from CPV series

Key features

Ordering data - Product options

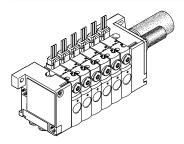


Configurable product
This product and all its product
options can be ordered using the
configurator.

The configurator can be found at → www.festo.com/catalogue/...
Enter the part number or the type.

Part no. Type 525675 CPV-SC-MP-VI 538510 CPV-SC-FB-VI

Individual connection



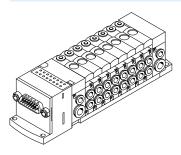
The connection is independent of the control technology and flexible using pre-assembled cables. This ensures that the connection is reverse polarity protected.

Valves with integrated LED (CPVSC1-M1LH- ...) are optionally available for switching status indication.
2 to 16 solenoid coils (divided between 2 to 16 valve positions) can be selected with individual connection.

Versions

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

Multi-pin plug connection



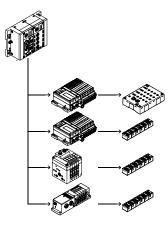
Control signals to the valve terminal are transmitted via a pre-assembled multi-core cable, which substantially reduces installation time.

4 to 16 solenoid coils (divided between 4 to 16 valve positions) can be selected with multi-pin plug connection.

Versions

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

Installation system CPI



Valve terminal for installation system CPI:

The valve terminal with CP connection is provided for connection to a higher-level bus node or to control blocks. A bus node or control block additionally enables connection of decentralised input/output units.

The following bus protocols are supported:

- PROFIBUS DP
- DeviceNet
- CANopen
- CC-Link
- EtherNet/IP
- PROFINETPOWERLINK
- EtherCAT
- Sercos III

Four strings having 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.

Additional information

→ Internet: cpi

Peripherals overview

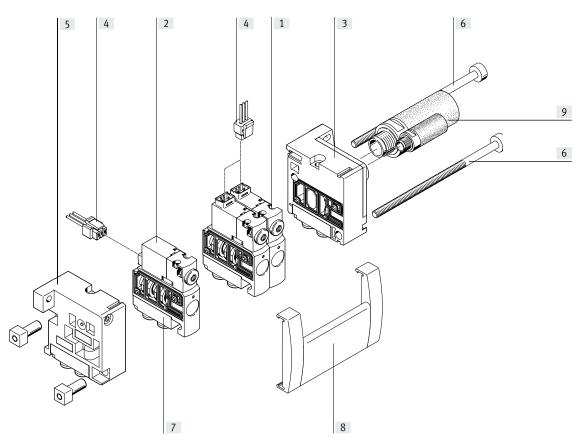
Overview - CPV-SC valve terminal

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 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] Silencer

Peripherals overview

Valve terminal with electrical multi-pin plug connection

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

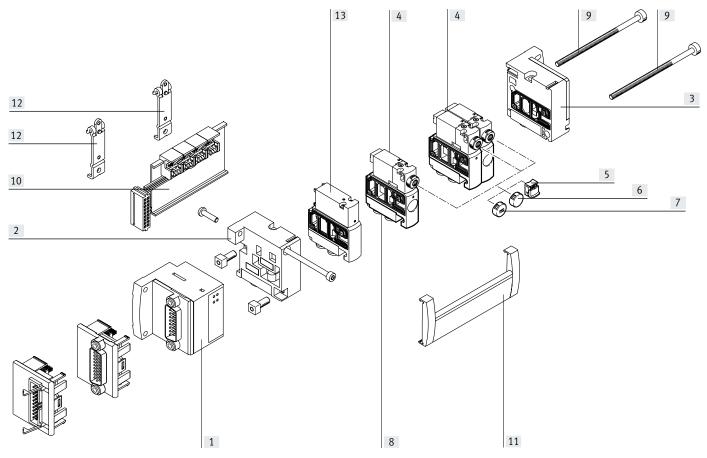
or

- 20-pin multi-pin plug connection with connector for ribbon 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, enabling a particularly flat installation.



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

Peripherals overview

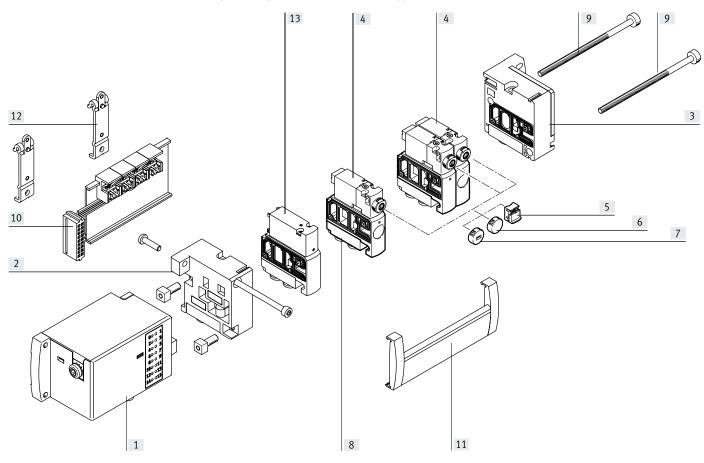
Valve terminal with CPI connection

- 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 CP 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
- [3] Right-hand end plate for ducted exhaust air or silencer (3/5 or 82/84)
- [4] Valve

- [5] Cover cap for manual override, manually operated without accessories (code Y)
- [6] Cover cap for manual override, MO blocked (code V)
- [7] Cover cap coded, MO non-detenting (code K)
- [8] Sub-base for working ports (push-in fitting or thread)
- [9] Tie rod

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

Valves

Valves CPVSC1 are valves with integrated sub-bases, i.e. in addition to the valve function they also include all ducts for supply, exhaust and for the working connections. The supply ducts

are the central component of the valve slices and enable direct through flow. This makes it possible to 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 patented sealing principle, ensuring a broad range of applications and long service life.

Valve functions	Code	Circuit symbol	Valve size 10 mm	Description
	M	14 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	5/2-way valve, single solenoid • Pneumatic spring return
	N	10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	3/2-way valve, single solenoid Normally open Pneumatic spring return
	K	14 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	3/2-way valve, single solenoid Normally closed Pneumatic spring return
	D	14 4 1 14 84 1	•	2/2-way valve, single solenoid Normally closed Pneumatic spring return
	J	14 4 2 12 14 84 5 1 3 12 82	•	5/2-way valve, double solenoid This valve consists of two valve housings and therefore occupies two valve positions. The pilot control with coil 12 is situated on the left and marked "J12". If both coils are actuated, the signal on port "14" dominates in the switching position.

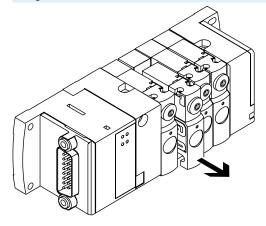


A filter must be installed upstream of valves operated in vacuum mode. This prevents any foreign matter in the intake air getting into the valve (e.g. when operating a suction cup with connector).

Valves				
Valve functions	Code	Circuit symbol	Valve size	Description
			10 mm	
Pneumatic supply plate with duct separation	1			
3 1 1 5 82/8	T	82/84 12/14 5 1 1 1 2	•	Compressed air duct (1) closed For separating pressure zones with common exhaust. (Instructions for using pressure zones → page 11) Pneumatic connection QS -4, M5
3 1 5 82/8.	S	82/84 12/14 5 1 1 1 2	•	Compressed air duct (1) and exhaust duct (3/5) closed For separating pressure zones with separate exhaust. (Instructions for using pressure zones → page 11) Pneumatic connection QS -4, M5
Pneumatic supply plate without duct separat	ion			
3 1 1 5 82/8	U	82/84 12/14 15 1 1 3 2 4	•	Additional supply of compressed air (1) and additional exhaust (3/5). Pneumatic connection QS -4, M5
Blanking plate				
3 1 1 5 82/8.	L	82/84	•	Plate without valve function for reserving a valve position No pneumatic connection

When configuring the compressed air supply code S or T (exhaust via flat plate silencer), a push-in silencer UC-QS-4H is included for plates with supply port.

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 push-in fittings or threaded connections. The valve terminal can thus be extended with additional functions by replacing blanking plates.

Valves have the valve code on the front and the product type on the back to facilitate ordering.

Materials

The valve housing and thread in the sub-bases are made of metal; further housing parts are made of sturdy plastic materials.

- Note

The valve with working sub-base is a unit that has been tested for leakage by Festo.

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

Internal pilot air supply can be selected if the terminal is working in an operating pressure range between 3 and 7 bar.

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

External pilot air supply

External pilot air supply must be used if the valve terminal CPV-SC is working in an operating pressure range of –0.9 to 3 bar. In this case, the pilot air is additionally supplied via port 12/14 on the left-hand end plate.

Creating pressure zones and separating exhaust air

The valve terminal CPV-SC can be operated with several pressure zones. For more than two pressure zones, a supply port with duct separation is required for each additional pressure zone. It always occupies one valve

position. An isolating disc T is used to separate the compressed air supply for groups of valves situated to the left and right of the compressed air supply. The pressure zone on the right is supplied at port 4 of the supply plate. Port

2 allows additional exhausting of the left-hand pressure zone. All exhaust ducts for the valves are connected to one another and exhausted via the right-hand end plate. An isolating disc S is used to separate the two exhaust

ducts 3 and 5 in addition to the pressure duct 1.



Note

Larger cylinders or those operated simultaneously generate a backpressure in the exhaust duct of the valve terminal; the level of this pressure 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 situated to the left of an isolating disc S is exhausted via the supplied push-in silencer. If there are more than two valves in such a pressure zone, a further supply port

with additional exhaust may be necessary. It is therefore advantageous to have higher exhaust requirements in the pressure zone that is exhausted through the right-hand end plate.

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

Pneumatic working ports		
	Code	Description
Working port		
SA HATELLAND	В	M5 threaded connection
	E	QS-3 push-in connector
	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 connector • QS-6 (internal pilot air supply) • QS-4 and QS-6 (external pilot air supply)

Valve terminal CPV-SC, Smart Cubic

Key features – Pneumatic components

Ports for supply and exhaust

Supply and exhaust

A basic feature of a CPV-SC valve one is for exhausting the valve silencer, a round silencer or through a terminal are the two end plates. terminal. push-in or threaded connection.

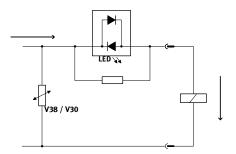
The left-hand end plate is for compressed air supply and the right-hand

The exhaust air escapes optionally through an integrated flat plate

Connecti	ons for exhaust
Code	Description
S	 Internal pilot air supply Exhaust from duct 3/5 an 82/84 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 an 82/84 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 and 82/84 via ducted exhaust air
Х	External pilot air supply Exhaust from duct 3/5 and 82/84 via ducted exhaust air
Υ	 Internal pilot air supply Exhaust from duct 3/5 and 82/84 via round silencer
Z	 External pilot air supply Exhaust from duct 3/5 and 82/84 via round silencer

Pneumatic supply End plate combination	Code	Description
82/84 a 12/14 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	S	Internal pilot air supply Flat plate silencer For operating pressure in the range 3 7 bar
82/84 12/14 13 1 5	T	External pilot air supply Flat plate silencer For operating pressure in the range –0.9 +7 bar
52/84 6 5 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	V	Internal pilot air supply Ducted exhaust air For operating pressure in the range 3 7 bar
82/84 a 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	X	External pilot air supply Ducted exhaust air For operating pressure in the range –0.9 +7 bar
82/84 1 5	Y	Internal pilot air supply Round silencer For operating pressure in the range 3 7 bar
82/84 1 2/14 1 5	Z	External pilot air supply Round silencer For operating pressure in the range –0.9 +7 bar

Protective circuit



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

Electrical multi-pin plug connection

There are two multi-pin connection types to choose from for valve terminal CPV-SC:

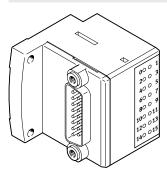
- Sub-D multi-pin plug connection (15-and 26-pin) or
- Multi-pin plug connection with contact strip for ribbon cable (20-pin)

The CPV-SC is connected via a multi-pin connection with Sub-D or ribbon cable. Each pin of the multi-pin plug is allocated to max. one valve position and thus to one coil or address.

Double-solenoid valves "J" occupy two valve positions. The left-hand valve position with pilot control 12 is controlled by the lower of the two address values.

Electrical multi-pin plug connection - Sub-D

Code MS, MH



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

Ordering data – Sub-D connecting cable									
	Code	Description	Length	Part no.	Туре				
			[m]						
	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				
	СР	26-pin for 16 coils (code MH)	2.5	527546	KMP6-26P-16-2.5				
	CQ	Material: PVC	5	527547	KMP6-26P-16-5				
	CR		10	527548	KMP6-26P-16-10				

Pin allocation for 15-pin Sub-D (code MS) KMP6-15P-12	Description	Pin	Wire colour	Address/coil
NWP0-13P-12	Description	PIII	wire colour	Address/con
	Plug socket with cable for the valve terminal	1	White	Coil 0
	CPV-SC with max. 12 valve positions	2	Brown	Coil 1
9 0 0 2		3	Green	Coil 2
100		4	Yellow	Coil 3
11 0		5	Grey	Coil 4
12004		6	Pink	Coil 5
130 05		7	Blue	Coil 6
		8	Red	Coil 7
1 140 7		9	Black	Coil 8
150 08	≜	10	Violet	Coil 9
	- 🖣 - Note	11	Grey-pink	Coil 10
	The drawing shows a view of the Sub-D	12	Red-blue	Coil 11
	socket on the multi-pin cable	13	White-green	n.c.
	KMP6-15P-12	14	Brown-green	0 V ¹⁾
	Mii 0 131 12	15	White-yellow	0 V ¹⁾

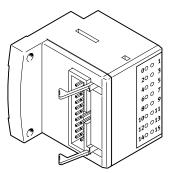
 ¹⁾ Pin 14 to pin 15 are bridged in the valve terminal
 0 V for positive switching control signals; 24 V can be connected for negative switching control signals

Pin allocation for 26-pin Sub-D (code MH) KMP6-26P-16	Description	Pin	Wire colour	Allocation
	Plug socket with cable for the valve terminal	1	White	Coil 0
9 (000000000) 1 18 000000000 10 26 00000000 19	CPV-SC with 16 valve positions	2	Brown	Coil 1
		3	Green	Coil 2
26\ 00000000 <i>J</i> 19		4	Yellow	Coil 3
		5	Grey	Coil 4
		6	Pink	Coil 5
		7	Blue	Coil 6
		8	Red	Coil 7
		9	Black	Coil 8
		10	Violet	Coil 9
		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 view of the Sub-D	23	White-grey	0 V ¹⁾
	socket on the multi-pin cable	24	Grey-brown	0 V ¹⁾
	KMP6-26P-12	25	White-pink	0 V ¹⁾
	Mii 0 201 12	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

${\bf Electrical\ multi-pin\ plug\ connection-Connector\ for\ ribbon\ cable}$

Code MF



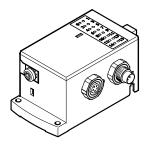
With this electrical connection variant, all valves are controlled centrally via the 20-pin connector plug.

The electrical connection is located on the left-hand side.

		Pin	Allocation
	Valve terminal CPV-SC with up to 16 valve	1	Coil 0
	positions and 20-pin multi-pin socket for	2	Coil 1
20+ +19	ribbon cables to DIN 41561-1, -2 or	3	Coil 2
18+ +17	IEC 60603-13-C020FD-7C1E-2G	4	Coil 3
		5	Coil 4
16+ +15	Contact surface gold	6	Coil 5
14+ +13	Ribbon cable with grid of 1.27 mm Conductor cross section 0.13 mm ²	7	Coil 6
12+ +11	Conductor cross section 0.13 mm	8	Coil 7
10+ + 9		9	Coil 8
8+ + 7		10	Coil 9
6+ + 5		11	Coil 10
		12	Coil 11
4+ + 3		13	Coil 12
2+ + 1		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.

CP connection



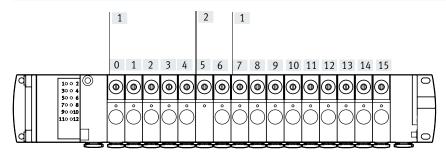
All CP valve terminals and CP modules are connected using a ready-to-install CP cable, and are attached to the CP interface. Four modules in each case, for example one valve terminal CPV-SC and one to three CP input modules, make up an installation string that ends at the CP interface.

The installation system supports a maximum of 4 installation strings that can be connected to a bus node. The CP interface of CPV-SC is represented in the CP/CPI system as a module having 16 outputs.

Additional information

→ Internet: ctec

Address allocation - Solenoid coils



[1] Single solenoid valves occupy one valve position

Addresses are allocated to valve positions on the CPV-SC from left to right. Each valve position occupies one address, regardless of whether a valve is mounted or not.

[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 controlled by the lower of the two address values.

Example:

Valve terminal in which valve positions 5 and 6 are prepared for a double-solenoid valve.

Key features – Display and operation

Display and operation

Each solenoid coil is assigned an LED on the command unit for switching status indication. Inscription labels (type MH-BZ-80x) can be applied to each valve for labelling purposes.

The manual override (MO) enables the valve to be switched when not electrically actuated or energised. The valve is switched by pushing the manual override. The set switching status can also be locked by turning the manual override.

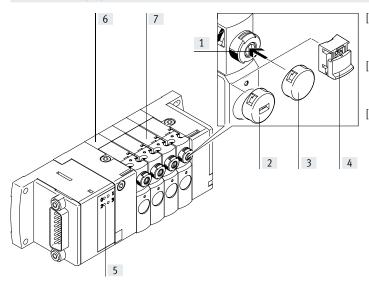
The cover cap (detenting without accessories, code Y) can be used to operate the manual override without any tools.

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



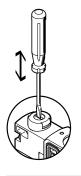
A manually operated valve (manual override) cannot be reset electrically. Conversely, an electrically actuated valve cannot be reset using the mechanical manual override.

Manual override (MO)



- [1] Manual override, MO non-detenting or detenting by turning (code N – without cover cap)
- Cover cap coded, MO non-detenting (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



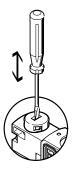
Manual override is actuated by pushing it with a pointed object or screwdriver and reset by spring force.

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



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

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



MO is actuated by pushing it with a pointed object or screwdriver and reset by spring force (detenting position prevented by coded cover cap).



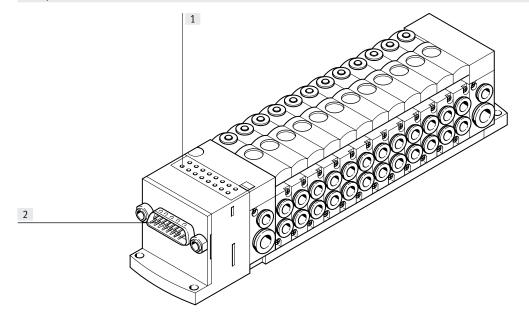
MO with lock (detenting without accessories), code Y – with cover cap

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

Key features – Display and operation

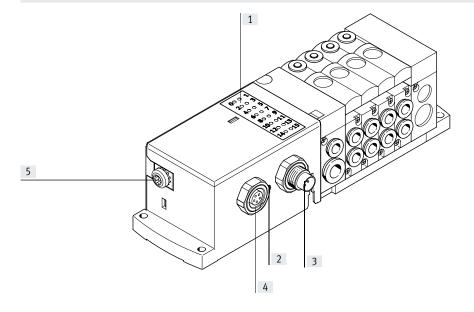
Display and operation

Multi-pin



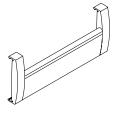
- [1] Status LEDs for valves
- [2] Sub-D plug or ribbon cable connection

CP interface



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

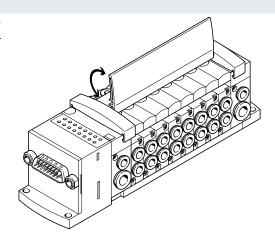
Inscription label holder



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

Labelling templates are available on the Festo website:

→ www.festo.com in the "Downloads" area under "Software".



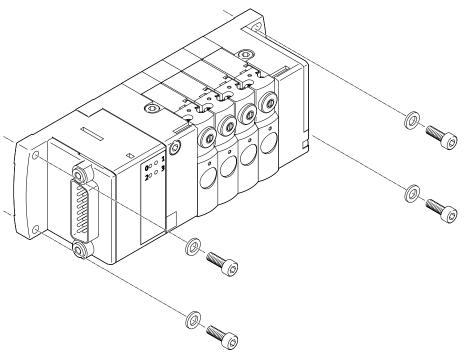
Key features – Types of mounting

Mounting - Valve terminal

Sturdy terminal mounting via:

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

Wall mounting

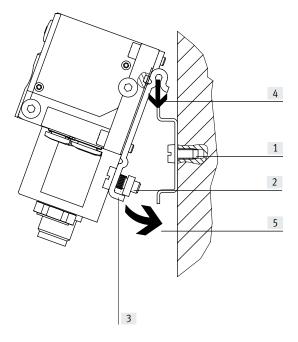


Mounting holes for screws M3

H-rail mounting



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



The valve terminal CPV-SC is attached to the H-rail → arrow [4]. It is then swivelled onto the H-rail and secured in place with the clamping component → arrow [5].

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

Operating fluids

Operate your system with unlubricated compressed air if possible. Festo valves and cylinders are designed so that, if used as intended, they will not require additional lubrication and will still achieve a long service life. The quality of compressed air downstream of the compressor must correspond to that of unlubricated compressed air. If possible, do not operate the entire system 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 reduce the service life of the 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 on synthetic or native esters, 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 is not permitted, regardless of the compressor oil, because the permanent lubrication would otherwise be flushed out over a period of time.

Valve terminal CPV-SC, Smart Cubic

Data sheet

- N - Flow rate

170 l/min

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

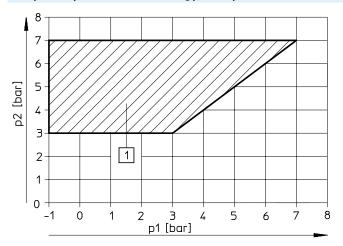
Voltage

5, 12, 24 V DC



Valve		5/2-way valve		3/2-way valve		2/2-way valve		
		Single solenoid	Double solenoid	Normal position Open	Normal position Closed	Normal position Closed		
Valve function order code		M	J	N	K	D		
Design		Electromagnetically ac	tuated piston spool valve					
Reset method		Pneumatic spring	-	Pneumatic spring	Pneumatic spring	Pneumatic spring		
Valve size	[mm]	10		10		10		
Nominal width	[mm]	2.5		2.5		2.5		
Standard nominal flow rate	[l/min]	170		170		150		
Sealing principle		Soft						
Overlap		Positive overlap						
Type of control	,	Piloted	Piloted					
Lubrication		Lifetime lubrication	Lifetime lubrication					
Type of mounting		Wall mounting	Wall mounting					
Mounting position	,	Any						
Manual override		Non-detenting/detenti	ng/covered					
Exhaust air function		Cannot be throttled						
Flow direction		Non-reversible						
Pneumatic connections								
Supply	1	M7, QS-6						
Exhaust port	3/5	M7, QS-6, round silen	M7, QS-6, round silencer or integrated flat plate silencer					
Working ports	2/4	Dependent on the connection type selected						
		• M5						
		• QS-3	• Q\$-3					
		• QS-4						
Pilot air connection	12/14	M5, QS-4						
Pilot exhaust air port	82/84	M5, QS-4, round silen	cer or integrated flat plate sile	encer				

Pilot pressure p2 as a function of working pressure p1



[1] Operating range for valves with external pilot air supply

Valve switching times [ms]						
Valve function order code		М	J	N	К	D
Switching times	On	10	_	10	10	10
	Off	10	-	10	10	10
	Changeover	-	8	-	-	-

Operating and environmental conditions		Fieldbus connection	Multi-pin plug connection
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4] → page 21	Compressed air to ISO 8573-1:2010 [7:4:4] → page 21
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)	Lubricated operation possible (in which case lubricated operation will always be required)
Corrosion resistance class CRC		11)	11)
PWIS criterion		Free	Free
Certification		c UL us - Recognized (OL)	c UL us - Recognized (OL)
Operating pressure	[MPa]	-0.09 +0.7	-0.09 +0.7
	[bar]	-0.9 +7	-0.9 +7
Operating pressure for valve terminal with internal pilot air supply	[MPa]	0.3 0.7	0.3 0.7
	[bar]	37	37
Pilot pressure	[MPa]	0.3 0.7	0.3 0.7
	[bar]	37	37
Ambient temperature	[°C]	-5 +50	-5 +50
Temperature of medium	[°C]	-5 +50	-5 +50
CE marking (see declaration of conformity)		To EU EMC Directive ²⁾	To EU EMC Directive ²⁾
UKCA marking (see declaration of conformity)		To UK instructions for EMC ²⁾	-
KC mark		KC EMC	KC EMC
Note on materials		RoHS-compliant	RoHS-compliant

¹⁾ Corrosion resistance class CRC 1 according to Festo standard FN 940070

Low corrosion stress. Dry indoor application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive pins).

²⁾ For information about the area of use, see the declaration of conformity at: www.festo.com/catalogue/cpv Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Valve terminal CPV-SC, Smart Cubic

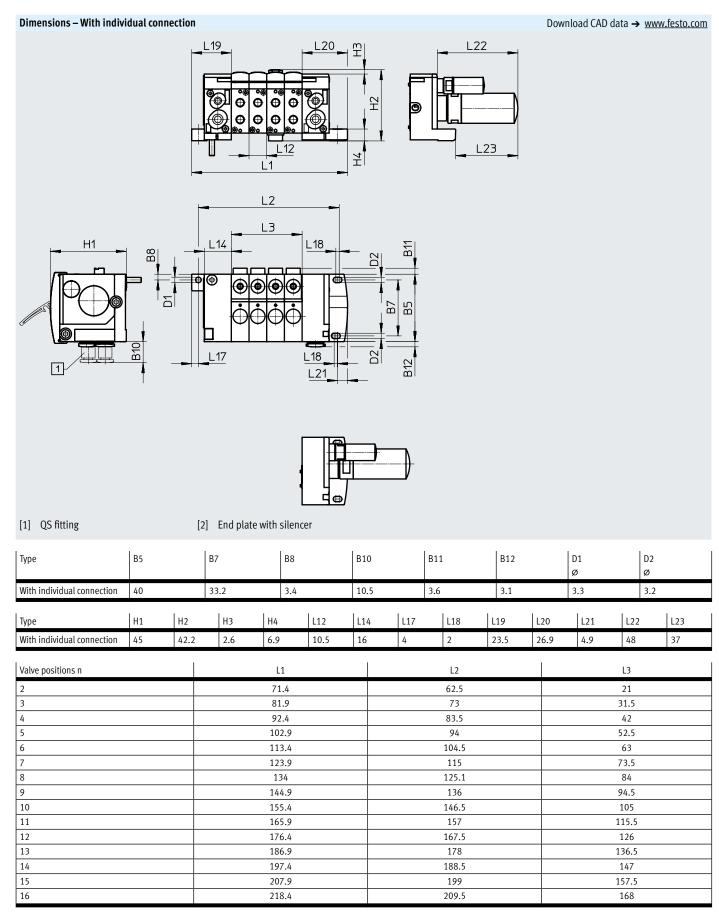
Data sheet

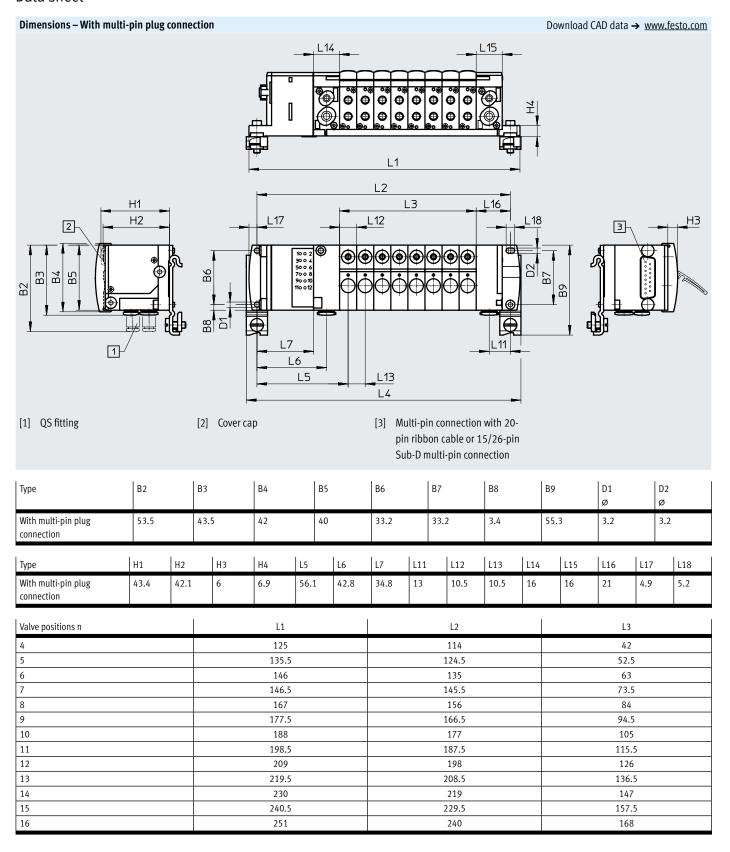
Electrical data			
Electrical control			Individual connection
			Multi-pin
			CP fieldbus
Electromagnetic compatibility of the	valve terminal CPV-SC with Sub	o-D or	Interference emission tested to DIN EN 61000-6-4, industry
ribbon cable connection			Interference immunity ¹⁾ tested to DIN EN 61000-6-2, industry
Protection against electric shock (protection against direct and indirect contact as per EN 60204-1/IEC 204)		irect contact	Via PELV power supply
Nominal operating voltage	Multi-pin plug connection	[V DC]	24
	Individual connection	[V DC]	5, 12, 24
Permissible voltage fluctuations		[%]	±10
Characteristic coil data	Nominal voltage	[V DC]	5, 12, 22, 24
	Electrical power	[W]	1
	consumption		
Duty cycle ED			100% at 40°C ambient temperature
Degree of protection to EN 60529			IP40 (in assembled state and with detenting plug)
Relative humidity		[%]	90% at 40°C, non-condensing

¹⁾ The maximum signal cable length is 10 m

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

Product weight [g]			
Single solenoid valves (code M, N, K, D)	30.5		
Double solenoid valves (code J)	56.5		
Vacant position	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		
Electrical interface CPI	150		





Download CAD data → www.festo.com [1] 15/26-pin plug

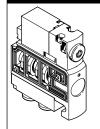
Туре	B1	D1	H1	L1	L2			Number of pins
KMP6-15P-12	16	8.5	40	34.5	2500	5000	10000	15
KMP6-26P-16	16	8.6	40	34.5	2500	5000	10000	26

Ordering data – Valves	s with electrical plug-in connection		
		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		
\bigvee	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
1760	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
V	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
	Plates with integrated connections		
	Vacant position, with cover plate	527527	CPVSC1-RP-B
R	Supply plate M5		
	Duct 1 separate	527528	CPVSC1-SP-P-M5
	Duct 1/3/5 separate	527530	CPVSC1-SP-PRS-M5
	Without duct separation	527532	CPVSC1-SP-M5
	Supply plate, QS-4 push-in connector		
	Duct 1 separate	527529	CPVSC1-SP-P-Q4
	Duct 1/3/5 separate	527531	CPVSC1-SP-PRS-Q4
	Without duct separation	527533	CPVSC1-SP-Q4

Ordering data – Valves	with individual electrical connection, detenting manual override, plug at top, 24 V DC							
		Part no.	Туре					
	Solenoid valve with M5 connections							
	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							
	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					
	3/2-way valve, normally closed	547304	CPVSC1-M1LH-K-T-M5C					
	2/2-way valve, normally closed	547303	CPVSC1-M1LH-D-T-M5C					
		3 303	C 1001					
	Solenoid valve with QS-3 push-in connectors	1						
	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					
	Solenoid valve with QS-4 push-in connectors							
	5/2-way valve, single solenoid	547286	CPVSC1-M1H-M-T-Q4					
	5/2-way valve, Single Solehold 5/2-way valve, double solehold	547287	CPVSC1-M1H-J-T-Q4					
	3/2-way valve, double Soleriold 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					
	2/2-way valve, normally closed	J41203	CI VSCI-WITH-D-1-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					

Ordering data – Valves w	vith individual electrical connection, detenting manual override, plug at rear, 24 V DC								
		Part no.	Туре						
	Solenoid valve with M5 connections								
	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-M5O						
	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, double solenoid	547323	CPVSC1-M1LH-J-H-M5						
	3/2-way valve, normally open	547321	CPVSC1-M1LH-N-H-M5O						
	3/2-way valve, normally closed	547320	CPVSC1-M1LH-K-H-M5C						
	2/2-way valve, normally closed	547318	CPVSC1-M1LH-D-H-M5C						
	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-Q3C						
	2/2-way valve, normally closed	547324	CPVSC1-M1LH-D-H-Q3C						
	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-Q40						
	3/2-way valve, normally closed	547330	CPVSC1-M1LH-K-H-Q4C						
	2/2-way valve, normally closed	547329	CPVSC1-M1LH-D-H-Q4C						

Ordering data - Valves with individual electrical connection, non-detenting manual override, plug at top, 24 V DC Part no. Туре Solenoid valve with M5 connections 548037 CPVSC1-M1HT-M-T-M5 5/2-way valve, single solenoid 5/2-way valve, double solenoid 548038 CPVSC1-M1HT-J-T-M5 3/2-way valve, normally open 548036 CPVSC1-M1HT-N-T-M50 CPVSC1-M1HT-K-T-M5C 3/2-way valve, normally closed 548035 2/2-way valve, normally closed 548034 CPVSC1-M1HT-D-T-M5C Solenoid valve with QS-3 push-in connectors 548043 CPVSC1-M1HT-M-T-Q3 5/2-way valve, single solenoid CPVSC1-M1HT-J-T-Q3 5/2-way valve, double solenoid 548044 548042 CPVSC1-M1HT-N-T-Q30 3/2-way valve, normally open 548041 CPVSC1-M1HT-K-T-Q3C 3/2-way valve, normally closed 2/2-way valve, normally closed 548040 CPVSC1-M1HT-D-T-Q3C Solenoid valve with QS-4 push-in connectors 548048 CPVSC1-M1HT-M-T-Q4 5/2-way valve, single solenoid 548049 CPVSC1-M1HT-J-T-Q4 5/2-way valve, double solenoid 3/2-way valve, normally open 548047 CPVSC1-M1HT-N-T-Q40 3/2-way valve, normally closed 548046 CPVSC1-M1HT-K-T-Q4C 2/2-way valve, normally closed 548045 CPVSC1-M1HT-D-T-Q4C



Solenoid valve with M5 connections	
5/2-way valve, single solenoid	548053 CPVSC1-M1HT-M-H-M5
5/2-way valve, double solenoid	548054 CPVSC1-M1HT-J-H-M5
3/2-way valve, normally open	548052 CPVSC1-M1HT-N-H-M50
3/2-way valve, normally closed	548051 CPVSC1-M1HT-K-H-M5C
2/2-way valve, normally closed	548050 CPVSC1-M1HT-D-H-M5C
Solenoid valve with QS-3 push-in connectors	
5/2-way valve, single solenoid	548058 CPVSC1-M1HT-M-H-Q3
5/2-way valve, double solenoid	548059 CPVSC1-M1HT-J-H-Q3
3/2-way valve, normally open	548057 CPVSC1-M1HT-N-H-Q30
3/2-way valve, normally closed	548056 CPVSC1-M1HT-K-H-Q3C
2/2-way valve, normally closed	548055 CPVSC1-M1HT-D-H-Q3C
Solenoid valve with QS-4 push-in connectors	
5/2-way valve, single solenoid	548063 CPVSC1-M1HT-M-H-Q4
5/2-way valve, double solenoid	548064 CPVSC1-M1HT-J-H-Q4
3/2-way valve, normally open	548062 CPVSC1-M1HT-N-H-Q40
3/2-way valve, normally closed	548061 CPVSC1-M1HT-K-H-Q4C
2/2-way valve, normally closed	548060 CPVSC1-M1HT-D-H-Q4C

Part no.

Туре

		Part r	10.	Туре
	Solenoid valve with M5 connections			
>	5/2-way valve, single solenoid	5	47367	CPVSC1-M5H-M-T-M5
7	5/2-way valve, double solenoid	5	47368	CPVSC1-M5H-J-T-M5
<u> </u>	3/2-way valve, normally open	5	47366	CPVSC1-M5H-N-T-M5
3	3/2-way valve, normally closed	5	47365	CPVSC1-M5H-K-T-M5
	2/2-way valve, normally closed	5	47364	CPVSC1-M5H-D-T-M
	Solenoid valve with QS-3 push-in connectors			
	5/2-way valve, single solenoid	5	47372	CPVSC1-M5H-M-T-Q
	5/2-way valve, double solenoid	5	47373	CPVSC1-M5H-J-T-Q3
	3/2-way valve, normally open	5	47371	CPVSC1-M5H-N-T-Q3
	3/2-way valve, normally closed	5	47370	CPVSC1-M5H-K-T-Q3
	2/2-way valve, normally closed	5	47369	CPVSC1-M5H-D-T-Q3
	Solenoid valve with QS-4 push-in connectors			
	5/2-way valve, single solenoid	5	47377	CPVSC1-M5H-M-T-Q
	5/2-way valve, double solenoid	5	47378	CPVSC1-M5H-J-T-Q4
	3/2-way valve, normally open	5	47376	CPVSC1-M5H-N-T-Q
			4727F	CPVSC1-M5H-K-T-04
	3/2-way valve, normally closed	5	47375	CPV3C1-MI3H-K-1-Q4
	3/2-way valve, normally closed 2/2-way valve, normally closed		47375 47374	1
lvoc	2/2-way valve, normally closed	5		1
lves		5	47374	1
lves	2/2-way valve, normally closed	st rear, 12 V DC	47374	CPVSC1-M5H-D-T-Q
ves	2/2-way valve, normally closed with individual electrical connection, non-detenting manual override, plug	it rear, 12 V DC	47374	CPVSC1-M5H-D-T-Q
lves	2/2-way valve, normally closed with individual electrical connection, non-detenting manual override, plug a Solenoid valve with M5 connections	t rear, 12 V DC	47374	Type CPVSC1-M5H-M-H-M
lves	2/2-way valve, normally closed with individual electrical connection, non-detenting manual override, plug a Solenoid valve with M5 connections 5/2-way valve, single solenoid	5 Part 1 5 5 5 5	47374 no. 47382	Type CPVSC1-M5H-M-H-N CPVSC1-M5H-J-H-M
lves	2/2-way valve, normally closed with individual electrical connection, non-detenting manual override, plug a Solenoid valve with M5 connections 5/2-way valve, single solenoid 5/2-way valve, double solenoid	5 Part 1 5 5 5 5 5	47374 no. 47382 47383	Type CPVSC1-M5H-D-T-Q4 Type CPVSC1-M5H-M-H-M CPVSC1-M5H-J-H-M! CPVSC1-M5H-N-H-M
lves	2/2-way valve, normally closed with individual electrical connection, non-detenting manual override, plug a Solenoid valve with M5 connections 5/2-way valve, single solenoid 5/2-way valve, double solenoid 3/2-way valve, normally open	5 Part 1 5 5 5 5 5 5 5 5	47374 no. 47382 47383 47381	Type CPVSC1-M5H-D-T-Q4 Type CPVSC1-M5H-M-H-M CPVSC1-M5H-J-H-M! CPVSC1-M5H-N-H-M CPVSC1-M5H-N-H-M
lves	2/2-way valve, normally closed with individual electrical connection, non-detenting manual override, plug a Solenoid valve with M5 connections 5/2-way valve, single solenoid 5/2-way valve, double solenoid 3/2-way valve, normally open 3/2-way valve, normally closed	5 Part 1 5 5 5 5 5 5 5 5	47374 no. 47382 47383 47381 47380	Type CPVSC1-M5H-D-T-Q4 Type CPVSC1-M5H-M-H-M CPVSC1-M5H-J-H-M! CPVSC1-M5H-N-H-M CPVSC1-M5H-N-H-M
lves	2/2-way valve, normally closed with individual electrical connection, non-detenting manual override, plug at Solenoid valve with M5 connections 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	5 Part 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	47374 no. 47382 47383 47381 47380	Type CPVSC1-M5H-D-T-Q4 Type CPVSC1-M5H-M-H-N CPVSC1-M5H-J-H-M! CPVSC1-M5H-N-H-M CPVSC1-M5H-CH-M
lves	2/2-way valve, normally closed with individual electrical connection, non-detenting manual override, plug at Solenoid valve with M5 connections 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 Solenoid valve with QS-3 push-in connectors	5 Part 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	47374 100. 47382 47383 47381 47380 47379	Type CPVSC1-M5H-D-T-Q4 Type CPVSC1-M5H-M-H-M CPVSC1-M5H-N-H-M CPVSC1-M5H-D-H-M CPVSC1-M5H-D-H-M CPVSC1-M5H-J-H-Q3
ves	2/2-way valve, normally closed with individual electrical connection, non-detenting manual override, plug at Solenoid valve with M5 connections 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 Solenoid valve with QS-3 push-in connectors 5/2-way valve, single solenoid	5 Part 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	47374 100. 47382 47383 47381 47380 47379	Type CPVSC1-M5H-D-T-Q4 Type CPVSC1-M5H-M-H-M CPVSC1-M5H-J-H-M! CPVSC1-M5H-N-H-M CPVSC1-M5H-CH-M

Solenoid valve with QS-4 push-in connectors

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

CPVSC1-M5H-M-H-Q4

CPVSC1-M5H-J-H-Q4

CPVSC1-M5H-N-H-Q40

CPVSC1-M5H-K-H-Q4C

CPVSC1-M5H-D-H-Q4C

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Ordering data - Valves with individual electrical connection, detenting manual override, plug at top, 5 V DC Part no. Туре Solenoid valve with M5 connections 547337 CPVSC1-M4H-M-T-M5 5/2-way valve, single solenoid 5/2-way valve, double solenoid 547338 CPVSC1-M4H-J-T-M5 3/2-way valve, normally open 547336 CPVSC1-M4H-N-T-M50 CPVSC1-M4H-K-T-M5C 3/2-way valve, normally closed 547335 2/2-way valve, normally closed 547334 CPVSC1-M4H-D-T-M5C Solenoid valve with QS-3 push-in connectors CPVSC1-M4H-M-T-Q3 547342 5/2-way valve, single solenoid CPVSC1-M4H-J-T-Q3 5/2-way valve, double solenoid 547343 CPVSC1-M4H-N-T-Q30 3/2-way valve, normally open 547341 CPVSC1-M4H-K-T-Q3C 3/2-way valve, normally closed 547340 2/2-way valve, normally closed 547339 CPVSC1-M4H-D-T-Q3C Solenoid valve with QS-4 push-in connectors 547347 CPVSC1-M4H-M-T-Q4 5/2-way valve, single solenoid 547348 CPVSC1-M4H-J-T-Q4 5/2-way valve, double solenoid 3/2-way valve, normally open 547346 CPVSC1-M4H-N-T-Q40 3/2-way valve, normally closed 547345 CPVSC1-M4H-K-T-Q4C

	3/2-way valve, normally closed	247 242	CF V3C1-W4II-K-1-Q4C			
	2/2-way valve, normally closed	547344	CPVSC1-M4H-D-T-Q4C			
Ordering data – Valves	with individual electrical connection, non-detenting manual override, plug at rear, 5 V DC	1	T.			
		Part no.	Туре			
	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-M50			
	3/2-way valve, normally closed	547350	CPVSC1-M4H-K-H-M5C			
	2/2-way valve, normally closed	547349	CPVSC1-M4H-D-H-M5C			
	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-Q4O			
	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 – Valve	s without pilot control				Part no.	Туре
\wedge	Valve with M5 connection	s			Turt no.	Турс
	5/2-way valve, single soler				548901	CPVSC1-M-M5
	5/2-way valve, double sole				548902	CPVSC1-J-M5
	3/2-way valve, normally op		548900	CPVSC1-N-M50		
	3/2-way valve, normally clo		548899	CPVSC1-K-M5C		
	2/2-way valve, normally clo		548898	CPVSC1-D-M5C		
V	Valve with push-in conne	ctors				
	5/2-way valve, single soler		548906	CPVSC1-M-QX		
	5/2-way valve, double sole		548907	CPVSC1-J-QX		
	3/2-way valve, normally or		548905	CPVSC1-N-QXO		
	3/2-way valve, normally clo	osed	548904	CPVSC1-K-QXC		
	2/2-way valve, normally clo	osed	548903	CPVSC1-D-QXC		
rdering data – Acces	sories				Part no.	Туре
lot control			-			Data sheets → Internet: n
× 1 2 2	3/2-way solenoid valve,	Plug connection at	5 V DC	-	197000	MHA1-M4H-3/2G-0.6-HC
	normally closed	rear	12 V DC	-	197001	MHA1-M5H-3/2G-0.6-HC
10			24 V DC	With signal status indication	540443	MHA1-M1LH-3/2G-0.6-HC
\checkmark				-	197002	MHA1-M1H-3/2G-0.6-HC
→		Plug connection on	5 V DC	-	197002	MHA1-M4H-3/2G-0.6-TC
		top	12 V DC	-	197003	MHA1-M5H-3/2G-0.6-TC
			24 V DC	With signal status indication	540444	MHA1-M1LH-3/2G-0.6-TC
73			24 V DC	-	197005	MHA1-M1H-3/2G-0.6-TC
interface						
	Electrical interface				541975	CPVSC1-AE16-CPI
dividual electrical co	onnection					
. 11	Plug socket with cable, IP40			0.5 m	566654	NEBV-H1G2-KN-0.5-N-LE2
				1 m	566655	NEBV-H1G2-KN-1-N-LE2
				2.5 m	566656	NEBV-H1G2-KN-2.5-N-LE2
				5 m	566657	NEBV-H1G2-KN-5-N-LE2
nnecting cable to IF	P40 for multi-pin plug connect	ion				
	Sub-D, 15-pin, up to 12 va		2.5 m	527543	KMP6-15P-12-2.5	
	for code MS			5 m	527544	KMP6-15P-12-5
	Material: PVC			10 m	527545	KMP6-15P-12-10
	Sub-D, 26-pin, up to 16 va	lve positions		2.5 m	527546	KMP6-26P-16-2.5
•	for code MH Material: PVC			5 m	527547	KMP6-26P-16-5
	Material, i ve			10 m	527548	KMP6-26P-16-10
over for manual over					_	
	Non-detenting, with coded cover cap			Pack of 10	540897	VMPA-HBT-B
	Covered, manual override blocked			Pack of 10	540898	VMPA-HBV-B
	Detenting, manually operated without accessories			Pack of 10	8002234	VAMC-L1-CD
scription labels for v	ubels for valve identification 9x4.5 mm			Pack of 80	107350	MH-BZ-80x
/ >	7A4.J IIIIII			r'aux ui ou	197259	INIT-DZ-OUX

Ordering data – Accesso	ries		1_	1_
		-	Part no.	Туре
Inscription label holder				
	Pack of 1	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
		For 14 valve positions	547404	CPVSC1-ST-14
		For 15 valve positions	547405	CPVSC1-ST-15
		For 16 valve positions	527637	CPVSC1-ST-16
Tie rod				
A.	Pack of 1	For 2 valve positions	547416	CPVSC1-ZA-2
	. 45.13. 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
		Tot 10 valve positions	7,72010	CI VSCI ZA 10
Mounting				
O-Junianianian	Screw for additional terminal mounting	527643	M3x45	
	Mounting	527639	CPVSC-HS35	
User documentation				
	User documentation – Pneumatics, valve terminal CPV-SC	German	530925	P.BE-CPVSC-DE
		English	530926	P.BE-CPVSC-EN
		French	530927	P.BE-CPVSC-FR
		Spanish	530928	P.BE-CPVSC-ES
		Italian	530929	P.BE-CPVSC-IT