



- Small, compact valve terminal for a wide range of applications
- Space-saving thanks to minimum valve dimensions
- Manual override and LED operating status display
- Flow rate of up to 170 l/min
- Wide range of pneumatic and electrical connection options

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 and fieldbus interface
- Numerous 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
- 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 ducted exhaust air
- Suitable for vacuum
- Permits multiple pressure zones on a single valve terminal

Reliable

- Manual overrideDurable thanks to the use of tried-
- and-tested piston spool valvesSturdy thanks to metal housing and
- connecting threadFast troubleshooting thanks to an
- LED on each valve and diagnosis via fieldbus

Easy to mount

- Fully assembled and tested valve terminal
- Minimised expenditure with regard to ordering, installation and commissioning
- Direct mounting even on moving system components

3.1

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3.1

Key features



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Key features

product.

minimum.

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Valve terminal configurator **Online via:** → www.festo.com/en/engineering A valve terminal configurator is avail-Configuration \$25575 VALVE TERMINAL OP/SCI-VI 1 🖂 able to help you select a suitable dicates Con CPVSC valve terminal. This makes it SPITETER PERMIT Owder stanle 2 much easier for you to find the right 1/14 22 12 VD United School The valve terminals are fully 10 **Oetrinatos** assembled according to your order 63 Previous of annual system 8 specifications and individually tested. 8 through complete 8 This reduces the amount of assembly 63 Departy while and installation required to a 83 83 Vitro pastings? e jaather You order a valve terminal type 80 is protion.) to provide e pecilia 63 8 8 4 the Self-Control Sector National Advances in the 8 And Mark 8

Once you have called up the Festo home page, select the online version of the digital product catalogue from the "Products" submenu: This will bring you directly to the home page for the Pneumatic Catalogue. Activate the "Direct Search" menu.

Here you can specify a "Part No." (e.g. 525675), the "Type" (e.g. CPV-SC-MP-VI) or "Article name" (e.g. valve terminal) to find your "Search result". Click on the blue shopping basket to complete the selected product according to your specifications (this does not initiate an order). You will then be prompted to configure the product.

Select "Configurator". You can then configure the valve terminal step by step (from the top down) according to your requirements. Select the "Finish" menu to continue on with the ordering process.

Online via: → www.festo.com/en/engineering

You can request the CAD data for a valve terminal you have configured. To do so, perform a product search for Part No. 525675 as described above. Click on this number to the right of the blue shopping basket. This brings you to the detailed view. In the menu bar

on the right-hand edge of the screen, click on "2D/3D CAD" and then on "Configurator". Proceed with your configuration and then click on "Finish". On the next page you can generate a 3D preview or request another data format of your choice by e-mail.



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Ordering system for type 80 → 4 / 3.1-30

The illustration above provides an

The following steps explain how you

example of a valve terminal

arrive at the order code:

2D/3D CAD data

configuration.

using the order code.

Key features

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Individual connection

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

The pilot valves M1LH with integrated LED are available as an option for the 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. This substantially reduces installation time.

The multi-pin plug connection permits the selection of 4 to 16 solenoid coils (divided between 2 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 permits the selection of 4 to 16 solenoid coils (divided between 4 to 16 valve positions).

- Variants
- DeviceNet connection
- Profibus connection
- 4 to 16 solenoid coils

CP string extension



The optional string extension allows 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-SC, CPV- and CPA valve terminals can be connected. The maximum length of the CP string extension is 10 metres, which means that the extension modules can be mounted directly on site. All of the required electrical signals are transmitted via the CP cable, which in turn means that no further installation is needed on the extension module.

The CP string interface offers:

- 32 input signals
- 32 output signals for output
- modules 24 V DC or solenoid coils • Logic and sensor supply for the
- input modules • Load voltage supply for the valve
- terminals
- Logic supply for the output modules
- → 4/4.7-2

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Peripherals overview



- 2 Valve with horizontal individual connection
- 3 Right-hand end plate for unducted exhaust air
- 5 Left-hand end plate for compressed air supply 1 or 12/14

(push-in fitting or thread)

8 Inscription label holder

Application-optimised valve terminals Smart Cubic

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.

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1 Electrical actuating unit for with LED switching status display 2 Left-hand end plate for com-

pressed air supply 1 or 12/14

- 82/84)
- 4 Sub-base for ducted exhaust air (push-in fitting or thread) 5
 - Valve
- Sub-base for working ports 7 (push-in fitting or thread)
- 8 Tie rod

- H-rail mounting 11
- Blanking plate for vacant 12 position

Peripherals overview

Valve terminal with Fieldbus Direct

- M12 A-coded DeviceNet connection Code: DN or
- 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 space-saving electrical connection is optimised for minimum tubing.



- pressed air supply 1 or 12/14 3 Right-hand end plate for ducted exhaust air or silencer (3/5 or 82/84)
- (push-in fitting or thread)
- Valve 5
- 6 Cover for manual override (optional)
- 7 Sub-base for working ports (push-in fitting or thread)
- Tie rod 8
- 9 Electrical valve linking module
- [11] H-rail mounting
- 12 Blanking plate for vacant position

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Valves

CPVSC1 valves are valve slices 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 allow 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
	M	82/84 4 2 14 5 VV 3 12/14 6	•	5/2-way valve, single solenoidPneumatic spring return
	N	82/84 <u>2</u> 10 → 1 → 7 12/14 → •	•	3/2-way valve, single solenoidNormally openPneumatic spring return
	K	82/84 12 12 12 12 12 12 12 12 12 12	•	3/2-way valve, single solenoidNormally closedPneumatic spring return
	D		•	2/2-way valve, single solenoidNormally closedPneumatic spring return
	J	82/84 4 •	•	5/2-way valve, double solenoid 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.

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In the case of compressed air supply configuration code S or T (exhaust 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.

Materials

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

Expansion

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.

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

🛔 - Note

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

Pilot air

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

Internal pilot air supply can be selected if the required working pressure is between 3 and 7¹⁾ 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

If the supply pressure is in the range -0.9 to 3 bar, you must operate your CPV-SC valve terminal using external pilot air supply. The pilot air supply is also supplied via port 12/14 on the left-hand 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 righthand 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 lines 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 size 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. 3.1



Pneumatic working ports		
	Code	Description
Working port		
	В	M5 threaded connection
	E	QS-3 push-in connector
lad field the	F	QS-4 push-in connector
Complement left band and alate		
Supply port, left-hand end plate	С	Threaded connection
	C	M7 (internal pilot air)
		• M5 and M7 (external pilot air)
	G	Push-in connector • QS-6 (internal pilot air)
		• QS-4 and QS-6 (external pilot air)

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 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 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 Exhaust from duct 3/5 as well as 82/84 is via ducted exhaust air
	X	 External pilot air Exhaust from duct 3/5 as well as 82/84 is via ducted exhaust air
	Y	 Internal pilot air Exhaust from duct 3/5 as well as 82/84 is via a round silencer
	Z	 External pilot air Exhaust from duct 3/5 as well as 82/84 is via a round silencer

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Key features – Electrical components



Each valve solenoid coil is protected with a spark arresting protective 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 connection with Sub-D or flat cable. A maximum of one valve position – and therefore one coil or one address – is assigned to each pin of the multi-pin plug. Double solenoid valves ")" occupy two valve positions. The left-hand valve position with pilot control 12 is actuated by the less significant address 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		Туре	Part No.		
\frown	СР	15-pin for 12 coils (code MS)	2.5 m long	KMP6-15P-12-2,5	527 543		
	CQ	CQ Material: PVC	5 m long	KMP6-15P-12-5	527 544		
	CR	Suitable for chain link trunking	10 m long	KMP6-15P-12-10	527 545		
C2202000	СР	26-pin for 16 coils (code MH)	2.5 m long	KMP6-26P-16-2,5	527 546		
	CQ	Material: PVC	5 m long	KMP6-26P-16-5	527 547		
	CR	Suitable for chain link trunking	10 m long	KMP6-26P-16-10	527 548		



Pin allocation for 15-pin Sub-D (co	1	D:-	Companya and a sum	A d dua a a (a c 1
КМР6-15Р-12	Description	Pin	Core colour	Address/coil
	Plug socket with cable for the CPV-SC	1	White	Coil 0
10	valve terminal with up to 12 valve	2	Brown	Coil 1
20 9	positions	3	Green	Coil 2
3 0 ¹⁰		4	Yellow	Coil 3
40 0 11		5	Grey	Coil 4
5 0 ¹²		6	Pink	Coil 5
60 ¹³		7	Blue	Coil 6
70 0 14		8	Red	Coil 7
8 O 15		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 MH)							
КМР6-26Р-16	Description	Pin	Core colour	Allocation			
	Plug socket with cable for the CPV-SC	1	White	Coil 0			
	valve terminal with 16 valve positions	2	Brown	Coil 1			
		3	Green	Coil 2			
		4	Yellow	Coil 3			
		5	Grey	Coil 4			
		6	Pink	Coil 5			
000		7	Blue	Coil 6			
000		8	Red	Coil 7			
		9	Black	Coil 8			
		10	Purple	Coil 9			
19 0 1		11	Grey-pink	Coil 10			
		12	Red-blue	Coil 11			
		13	White-green	Coil 12			
		14	Brown-green	Coil 13			
		15	White-yellow	Coil 14			
		16		Coil 15			
		17		Coil 16			
		18		n.c.			
		19		n.c.			
		20		0 V ¹⁾			
	â.	21		0 V ¹⁾			
	- 🏺 - Note	22		0 V ¹⁾			
	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⁾			
	КМР6-26Р-12	25	White-pink	0 V ¹⁾			
		26	Pink-brown	0 V ¹⁾			

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

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Electrical multi-pin plug connection - Connector for flat cable



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.

Pin allocation – Connector for flat cable (code MF)							
		Pin	Allocation				
Pin allocation – Connector for flat cable (CPV-SC valve terminal with up to 16 valve positions and 20-pin multi-pin socket for flat cables to DIN 41561-1, -2 or IEC 60603-13-C020FD-7C1E-2G Contact surface gold Flat cable grid 1.27 mm Conductor cross section 0.13 mm ²	Pin 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Allocation Coil 0 Coil 1 Coil 2 Coil 3 Coil 4 Coil 5 Coil 6 Coil 7 Coil 8 Coil 10 Coil 11 Coil 12 Coil 13 Coil 14 Coil 5 Coil 6 Coil 7 Coil 8 Coil 10 Coil 11 Coil 12 Coil 13 Coil 14 Coil 15 0 V ¹) 0 V ¹)				
		19 20	$\begin{array}{c} 0 \ V^{(3)} \\ 0 \ V^{(1)} \\ 0 \ V^{(1)} \end{array}$				

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

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Key features - Electrical components

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Example:

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

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 address of the two addresses.

Key features – Display and operation

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Display and operation

The switching status of every solenoid coil is displayed on the actuating 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 turning the manual override. A cover can be fitted over the manual override to prevent it from being actuated accidentally (code V).

- Note

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



- 1 Manual override (pushing or detenting via turning using a screwdriver)
- 2 Cover for manual override (code V or accessory CPVSC1-HV)
- 3 Location for valve position in-
- scription label (type MH-BZ-80x)
- 4 Numbering of valve positions5 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 with detent (detenting)



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

Key features – Display and operation

Application-optimised valve terminals

Smart Cubic

3.1

Display and operation Fieldbus Direct – DeviceNet 1 Connection for CP extension 2 Connection for power supply 9 7 3 Connection for fieldbus 4 DIL switch for CP extension 5 Rotary switch for baud rate Rotary switch for station number 6 Earth terminal 7 Cover (for IP40 protection) 8 9 Switching status display per valve 8 6 5 4 3 2 1 Fieldbus Direct – Profibus DP 1 Connection for CP extension 2 Connection for power supply 8 6 Connection for fieldbus 3 4 DIL switch for CP extension 5 Rotary switch for station number 6 Earth terminal 04 0° Cover (for IP40 protection) 7 8 Switching status display per valve 0 000 7 4 1 5 3 2 Inscription label holder



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

Labelling templates are available on the Festo home page:

→ www.festo.com

in the Download Area under "Download Software".



Key features – Mounting types





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

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

H-rail clamping unit

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Valve terminals type 80 CPV-SC, Smart Cubic Technical data

- 🚺 Flow rate 170 l/min
- **J** Valve width 10 mm
- **L** Voltage 5, 12, 24 V DC

General technical data						
Valve		5/2-way valve		3/2-way valve		2/2-way valve
		Single solenoid	Double solenoid	Normally	Normally	Normally
				open	closed	closed
Valve function order code		М	J N K D			
Constructional design		Electromagnetically ac	tuated 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		Lubricated for life				
Type of mounting		Wall mounting				
Mounting position		Any				
Manual override		Pushing/detenting/cov	vered			
Pneumatic connections						
Supply	1	M7, QS-6				
Exhaust port	3/5	M7, QS-6, round silen	cer or integrated flat plate	silencer		
Working ports	2/4	Depending on the conr	nection type selected			
		• M5				
		• QS-3				
		• QS-4				
Pilot air port	12/14	M5, QS-4				
Pilot exhaust air port	82/84	M5, QS-4, round silen	cer or integrated flat plate	silencer		



Technical data



Pilot pressure p2 as a function of operating pressure p1



1 Operating range for valves with external pilot air supply

Valve response times [ms]						
Valve function order code		М	J	Ν	К	D
Response times	On	10	10	10	10	10
	Off	10	-	10	10	10
	Change-	-	8	-	-	-
	over					

Operating and environmental conditions					
Valve function order code	М	J	Ν	К	D
Operating medium	Filtered compressed air	, lubricated or unlubricat	ed, inert gases permissit	ole 🗲 4 / 3.1-25	
Grade of filtration [µm]	40 (average pore size)				
Paint-wetting impairment substances	Yes (free of paint wetting	g impairment substances	5)		
criterion					
CE certification	Yes, with actuating unit	to EMC regulations			
Ambient temperature [°C]	-5 +50				
Temperature of medium [°C]	-5 +50				
Storage temperature [°C]	-20 +40				
Corrosion resistance class CRC ¹⁾	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.

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Valve terminals type 80 CPV-SC, Smart Cubic Technical data

Electrical data								
Valve function order code		М	J	Ν	К	D		
Electromagnetic compatibility CPV-SC valve terminal with Su cable connection			Interference emission tested to DIN EN 61000-6-4, industry Interference immunity ¹⁾ tested to DIN EN 61000-6-2, industry					
Protection against electric sho (protection against direct and contact to EN 60204-1/IEC 200	indirect	By means of PELV power	supply unit					
Nominal operating voltage of valve terminal	[V]	5 DC, 12 DC, 24 DC						
Operating voltage range of valve terminal	[V]	5 DC ±10%, 12 DC ±10%	%, 24 DC ±10%					
Coil characteristics Nominal voltage of solenoid 	[V]	5 DC, 12 DC, 22 DC						
 Electrical power consumption of solenoid 	[W]	1.0						
Duty cycle		100% at 40°C ambient temperature						
Protection class to EN 60529		IP40 (in assembled state and with detenting plug)						
Relative air humidity		90% at 40°C, non-condensing						
Vibration resistance		To DIN/IEC 68/EN 60068, Parts 2-6						
Continuous shock resistance		To DIN/IEC 68/EN 60068, Parts 2-27						

1) The maximum signal line length is 10 m

Materials								
Valve function order code	Μ	J	Ν	К	D			
Electrical interface Polymer								
End plate, electrical connector plate	Polymer	olymer						
Seals	Elastomer							
Valve slice	Die-cast aluminium	Die-cast aluminium						
Sub-base for working ports Polyamide								

Product weight [g]								
Valve function order code	М	J	Ν	К	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							
Actuating unit fieldbus	200							

Technical data

Equipment

Operate your equipment with unlubricated compressed air if possible. Festo valves and cylinders have been designed such that, under permitted operating conditions, additional lubrication is not required for a guaranteed 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 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 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.

Dimensions With individual connection End plate with round silencer 2.6 23.5 26.9 • • **0** 42.2 • • 6 Ð 6.9 Ø Ð 10.5 37 L1 L2 . 16 L3 С. С. С. 45 2 **₩**@ ۲ ۲ ۲ • 3.2 33.2 0 3.2 12.5 dœ 2 3.05 1 4.9 End plate with round silencer

1 QS push-in fitting

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

Download CAD data → www.festo.com/en/engineering

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Technical data



Valve positions n	L1	L2	L3
2	104	93	21
3	114.5	103.5	31.5
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

Valve terminals type 80 CPV-SC, Smart Cubic Technical data



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Technical data



Valve positions n	L1	L2	L3	L4
2	162.6	151.8	21	164.4
3	173.1	162.3	31.5	174.9
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 terminals type 80 CPV-SC, Smart Cubic – Individual connection Ordering data – Modular products

M Mandatory	data			O Options	M Manda	tory data				-
Module No.	Valve ter- minal	Size	Voltage	Display	Electrical connection	Electrical outgoing direction	Position of the working ports	Pneumatic working ports	Manual override	Com- pressed air supply
525 675	80P	10	1 4 5	- L	I	H T	Ρ	B E F I J	N K V	S T V X Y
Order example 525 675	80P -	- 10 -	4	L5	1	H –	P 8	B	- <u>N</u> - 10	Z • S 11

3.1

Application-optimised valve terminals Smart Cubic

Or	derir	ıg table				
Siz	e		10	Condi- tions	Code	Enter code
Μ	1	Module No.	525 675			
	2	Valve terminal	Valve terminal type 80, Smart Cubic, CPV-SC		80P	80P
	3	Size [mm]	10		-10	-10
	4	Voltage [V]	Power supply 24 DC		-1	
			Power supply 5 DC		-4	
			Power supply 12 DC		-5	
0	5	Display	Without LED			
			With LED	1	L	
Μ	6	Electrical connection	Electrical individual connection		I	1
	7	Electrical outgoing direction	Individual connection, horizontal		H	
			Individual connection, top		Т	
	8	Position of the working ports	On the valve		-P	-P
	9	Pneumatic working ports, per	Threaded connections M5	2	В	
		valve position	Push-in connectors QS-3	2	E	
			Push-in connectors QS-4	2	F	
			Push-in connectors QS-1/8"	2	1	
			Push-in connectors QS-5/32"	2	J	
	10	Manual override	Pushing/detenting		-N	
			Pushing	3	-K	
			Covered		-V	
	11	Compressed air supply	Internal pilot air supply, flat plate silencer		-S	
			External pilot air supply, flat plate silencer		-T	
			Internal pilot air supply, ducted exhaust air		-V	
			External pilot air supply, ducted exhaust air		-Х	
			Internal pilot air, silencer		-Y	
¥			External pilot air, silencer		-Z	

1 L Only with voltage 1 (24 V DC)

3 K Not with voltage 4 (5 V DC) or 5 (12 V DC)

2 B, E, F, I, J, C, G, N

Valve terminal must be configured as either metric or imperial

Transfer order example



4/3.1-30

Valve terminals type 80 CPV-SC, Smart Cubic – Individual connection

Ordering data – Modular products



Order	ing table					
Size			10	Condi-	Code	Enter
				tions		code
↓ 12	2 Supply side		Pneumatic supply from left		L	L
M 13	B Pneumatic supply co	nnection	Threaded connection M7	3	C	
			Push-in connectors QS-6	3	G	
			Push-in connectors QS-1/4"	3	N	
14	4 Equipment at valve p 0 15	osition		4	-	-
	Valves		5/2-way valve, single solenoid		Μ	Enter equip- ment selec-
			3/2-way valve, normally open		N	tion for
			3/2-way valve, normally closed		К	valve posi-
			5/2-way valve, double solenoid	5	J	tions in order code
			2/2-way valve, normally closed		D	
			Blanking plate for vacant valve position		L	
			Pneumatic supply plate, duct 1 separated	6	Т	
			Pneumatic supply plate, duct 1/3/5 separated	6	S	
			Pneumatic supply plate		U	
1	5 User documentation		German		-D	
			English		-Е	
			French		-F	
			Italian		-1	
			Spanish		-S	
			Swedish		-V	
0 16	6 Accessories				+	+
	H-rail mounting		1		Н	
	HC connecting	0.5 m	1 99		CH	
	cable, 1 coil	1 m	1 99		CI	
		2.5 m	1 99		CJ	
		5 m	1 99		CK	
	Inscription label hol	der	1		T	

Valve terminal must be configured as either metric or imperial

 Equipment at valve position 0 ... 15

 The valve positions must be equipped throughout from left to right without exception

- 5 J Double solenoid valve occupies 2 valve positions. Cannot be mounted at the last valve position
- [6]
 T, S
 Can be mounted in any way, however ensure adequate compressed air supply and exhausting (for more than 2 successive valves)



Valve terminals type 80 CPV-SC, Smart Cubic – Multi-pin plug connection Ordering data – Modular products

Module No.	Valve terminal	Size	Voltage	Electrical connec- tion	Position of the working ports	Pneumatic working ports	Manual over- ride	Com- pressed air supply	Supply side	Pneumatic supply connection
525 675	80P	10	1	MS	Р	В	N	S	L	С
				MF		E	V	Т		G
				MH		F		V		Ν
						1		Х		
						J		Υ		
								Z		
Order										
example										
525 675	80P	- 10	- 1	MS	- P	E	- v -	- T	L	G
1	2	3	4	5	6	7	8	9	10	11

Application-optimised valve terminals Smart Cubic

Ord	lerin	ig table				
Size	е		10	Condi-	Code	Enter
				tions		code
Μ	1	Module No.	525 675			
	2	Valve terminal	Valve terminal type 80, Smart Cubic, CPV-SC		80P	80P
	3	Size [mm]	10		-10	-10
	4	Voltage [V]	Power supply 24 DC		-1	-1
	5	Electrical connection	Connection for multi-pin cable Sub-D, 15-pin	1	MS	
			Connection for flat cable, 20-pin		MF	
			Connection for multi-pin cable Sub-D, 26-pin		MH	
	6	Position of the working ports	On the valve		-P	-P
	7	Pneumatic working ports, per	Threaded connections M5	2	В	
		valve position	Push-in connectors QS-3	2	E	
			Push-in connectors QS-4	2	F	
			Push-in connectors QS-1/8"	2	1	
			Push-in connectors QS-5/32"	2	J	
	8	Manual override	Pushing/detenting		-N	
			Covered		-V	
	9	Compressed air supply	Internal pilot air supply, flat plate silencer		-S	
			External pilot air supply, flat plate silencer		-T	
			Internal pilot air supply, ducted exhaust air		-V	
			External pilot air supply, ducted exhaust air		-X	
			Internal pilot air, silencer		-Y	
			External pilot air, silencer		-Z	
		Supply side	Pneumatic supply from left		L	L
	11	Pneumatic supply connection	Threaded connection M7	2	C	
			Push-in connectors QS-6	2	G	
↓			Push-in connectors QS-1/4"	2	Ν	

1 MS Max. 12 valve positions possible



Valve terminal must be configured as either metric or imperial



Valve terminals type 80 CPV-SC, Smart Cubic – Multi-pin plug connection

Ordering data – Modular products



Orde	rin	g table					
Size			10	Condi-	Code		Enter
				tions			code
↓ 1		Equipment at valve position 0 15		3	-		-
Μ		Valves	5/2-way valve, single solenoid		M	1	Enter
			3/2-way valve, normally open		N	1	equip-
			3/2-way valve, normally closed		К	1	ment
			5/2-way valve, double solenoid	4	J	1	selection
			2/2-way valve, normally closed		D]	for valve
			Blanking plate for vacant valve position		L]	positions
			Pneumatic supply plate, duct 1 separated	5	T	1	in order
			Pneumatic supply plate, duct 1/3/5 separated	5	S]	code
			Pneumatic supply plate		U		
1	3	User documentation	German		-D	1	
			English		-E	1	
			French		-F	1	
			Italian		-1	1	
			Spanish		-S	1	
			Swedish		-V		
01	4	Accessories			+		+
		Connecting cables	Connecting cable, Sub-D, 2.5 m	6	СР]	
			Connecting cable, Sub-D, 5 m	6	CQ]	
			Connecting cable, Sub-D, 10 m	6	CR	1	
		H-rail mounting	1		H		
		Inscription label holder	1		T		

3 Equipment at valve position 0 ... 15

Cannot be mounted at the last valve position

The valve positions must be equipped throughout from left to right without exception

 4
 J
 Double solenoid valve occupies 2 valve positions.

5 T, S Can be mounted in any way, however ensure adequate compressed air supply and exhausting (for more than 2 successive valves)

6 CP, CQ, CR

Not with electrical connection MF



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3.1

Valve terminals type 80 CPV-SC, Smart Cubic – Fieldbus Ordering data – Modular products

п

M Mandatory	data								
Module No.	Valve ter- minal	Size	Electrical connection	Position of the working ports	Pneumatic working ports	Manual override	Compressed air supply	Supply side	Pneumatic connection supply and exhaust
538 510	80P	10	DN DP	Ρ	B E F I J	N V	S T V X Y Z	L	C G N
Order example 538 510 1	80P -	- <u>10</u> - <u>3</u>	- <u>DN</u> - 4	P 5	F - 6	- <u>N</u> –	X 8	L9	G 10

Application-optimised valve terminals Smart Cubic

ize	ing table	10	Condi-	Code	Enter
			tions	cout	code
1	Module No.	538 510			
2	Valve terminal	Valve terminal type 80, Smart Cubic, CPV-SC		80P	80P
3	Size [mm]	10		-10	-10
4	Electrical connection	DeviceNet		-DN	
		Profibus		-DP	
5	Position of the working ports	On the valve		-P	-P
6	Pneumatic working ports, per	Threaded connections M5	1	В	
	valve position	Push-in connectors QS-3	1	E	
		Push-in connectors QS-4	1	F	
		Push-in connectors QS-1/8"	1	I	
		Push-in connectors QS-5/32"	1	J	
7	Manual override	Pushing/detenting		-N	
		Blocked		-V	
8	Compressed air supply	Internal pilot air supply, flat plate silencer		-S	
		External pilot air supply, flat plate silencer		-T	
		Internal pilot air supply, ducted exhaust air		-V	
		External pilot air supply, ducted exhaust air		-Х	
		Internal pilot air, silencer		-Y	
		External pilot air, silencer		-Z	
9	Supply side	Pneumatic supply from left		L	L
10	• Pneumatic connection supply and	Threaded connection M7	1	C	
	exhaust	Push-in connectors QS-6	1	G	
		Push-in connectors QS-1/4"	1	N	

1 B, E, F, I, J, C, G, N

Valve terminal must be configured as either metric or imperial



Valve terminals type 80 CPV-SC, Smart Cubic – Fieldbus

Ordering data – Modular products



Ordering table 10 Condi-Code Enter Size tions code Y **11** Equipment at valve position 2 0 ... 15 Μ Valves 5/2-way valve, single solenoid Μ Enter 3/2-way valve, normally open Ν equip-3/2-way valve, normally closed Κ ment selection 5/2-way valve, double solenoid 3 J 2/2-way valve, normally closed D for valve positions Blanking plate for vacant valve position L in order Pneumatic supply plate, duct 1 separated 4 Т Pneumatic supply plate, duct 1/3/5 separated 4 S code Pneumatic supply plate U 0 12 User documentation German -D English -E French -F Italian -1 Spanish -S Swedish -V 13 Accessories + Straight connection socket for 1 ... 99 5 ...D DeviceNet Straight power supply socket, 1 ... 99 6 ...N A coded, for Profibus H-rail mounting Н 1 Inscription label holder Т 1

[2] Equipment at valve position 0 ... 15 Number of valve positions: 4, 8, 12, 16. The valve positions must be equipped throughout from left to right without exception

 J
 Double solenoid valve occupies 2 valve positions.

 Cannot be mounted at the last valve position

- 5 D Only with electrical connection DN
- 6 N Only with electrical connection DP

Transfer order code 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 11 12 13

3.1

 ⁴ T, S
 Can be mounted in any way, however ensure adequate compressed air supply and exhausting (for more than 2 successive valves)

	Ordering data – Valves	Ordering data – Valves with electrical plug-in connection (multi-pin and fieldbus)					
	Designation						
		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					
-		5/2-way valve, double solenoid					
nbic		3/2-way valve, normally open					
rt Cl	A RAD	3/2-way valve, normally closed					
Smart Cubio		2/2-way valve, normally closed					
.1		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					
		Blanking plates with integrated connections					
		Vacant position, with blanking plate					

ng data – Valves	with electrical plug-in connection (multi-pin and fieldbus)		
ation		Туре	Part No.
<u> </u>	Solenoid valve with M5 connections		
	5/2-way valve, single solenoid	CPVSC1-M1H-M-P-M5	527 550
	5/2-way valve, double solenoid	CPVSC1-M1H-J-P-M5	527 553
	3/2-way valve, normally open	CPVSC1-M1H-N-P-M50	527 551
	3/2-way valve, normally closed	CPVSC1-M1H-K-P-M5C	527 552
	2/2-way valve, normally closed	CPVSC1-M1H-D-P-M5C	527 554
	Solenoid valve with QS-3 push-in connectors		
\sim	5/2-way valve, single solenoid	CPVSC1-M1H-M-P-Q3	527 555
	5/2-way valve, double solenoid	CPVSC1-M1H-J-P-Q3	527 558
	3/2-way valve, normally open	CPVSC1-M1H-N-P-Q30	527 556
R A O	3/2-way valve, normally closed	CPVSC1-M1H-K-P-Q3C	527 557
	2/2-way valve, normally closed	CPVSC1-M1H-D-P-Q3C	527 559
	Solenoid valve with QS-4 push-in connectors		
	5/2-way valve, single solenoid	CPVSC1-M1H-M-P-Q4	527 560
	5/2-way valve, double solenoid	CPVSC1-M1H-J-P-Q4	527 563
	3/2-way valve, normally open	CPVSC1-M1H-N-P-Q40	527 561
	3/2-way valve, normally closed	CPVSC1-M1H-K-P-Q4C	527 562
	2/2-way valve, normally closed	CPVSC1-M1H-D-P-Q4C	527 564
	Blanking plates with integrated connections	l	
<u> </u>	Vacant position, with blanking plate	CPVSC1-RP-B	527 527
¥			
	Supply plate M5		
	Duct 1 separated	CPVSC1-SP-P-M5	527 528
	Duct 1/3/5 separated	CPVSC1-SP-PRS-M5	527 530
	Without duct separation	CPVSC1-SP-M5	527 532
e e			527 552
	Supply plate, QS-4 push-in fitting		
	Duct 1 separated	CPVSC1-SP-P-Q4	527 529
	Duct 1/3/5 separated	CPVSC1-SP-PRS-Q4	527 531
\checkmark	Without duct separation	CPVSC1-SP-Q4	527 533
	manoat auct separation	0 1001 01 QT	,2, ,,,

Supply place my				
 Duct 1 separated	CPVSC1-SP-P-M5	527 528		
Duct 1/3/5 separated	CPVSC1-SP-PRS-M5	527 530		
Without duct separation	CPVSC1-SP-M5	527 532		
Supply plate, QS-4 push-in fitting				
Duct 1 separated	CPVSC1-SP-P-Q4	527 529		
Duct 1/3/5 separated	CPVSC1-SP-PRS-Q4	527 531		
Without duct separation	CPVSC1-SP-Q4	527 533		
Cover for manual override				
10 pieces	CPVSC1-MO-V	527 393		

Ordering data – Va	ves with individual electrical connection, detenting manual override, plug	on top, 24 V DC						
Designation		Туре	Part No.					
ale a	Solenoid valve with M5 connections							
	5/2-way valve, single solenoid	CPVSC1-M1H-M-T-M5	547 276					
	5/2-way valve, double solenoid	CPVSC1-M1H-J-T-M5	547 277					
	3/2-way valve, normally open	CPVSC1-M1H-N-T-M50	547 275					
	3/2-way valve, normally closed	CPVSC1-M1H-K-T-M5C	547 274					
	2/2-way valve, normally closed	CPVSC1-M1H-D-T-M5C	547 273					
	Solenoid valve with M5 connections and LED							
\checkmark	5/2-way valve, single solenoid	CPVSC1-M1LH-M-T-M5	547 306					
	5/2-way valve, double solenoid	CPVSC1-M1LH-J-T-M5	547 307					
	3/2-way valve, normally open	CPVSC1-M1LH-N-T-M50	547 305					
	3/2-way valve, normally closed	CPVSC1-M1LH-K-T-M5C	547 304					
	2/2-way valve, normally closed	CPVSC1-M1LH-D-T-M5C	547 303					
	Solenoid valve with QS-3 push-in connectors							
	5/2-way valve, single solenoid	CPVSC1-M1H-M-T-Q3	547 281					
	5/2-way valve, double solenoid	CPVSC1-M1H-J-T-Q3	547 282					
	3/2-way valve, normally open	CPVSC1-M1H-N-T-Q30	547 280					
	3/2-way valve, normally closed	CPVSC1-M1H-K-T-Q3C	547 279					
	2/2-way valve, normally closed	CPVSC1-M1H-D-T-Q3C	547 278					
	Solenoid valve with QS-3 push-in connectors and LED							
	5/2-way valve, single solenoid	CPVSC1-M1LH-M-T-Q3	547 311					
	5/2-way valve, double solenoid	CPVSC1-M1LH-J-T-Q3	547 312					
	3/2-way valve, normally open	CPVSC1-M1LH-N-T-Q30	547 310					
	3/2-way valve, normally closed	CPVSC1-M1LH-K-T-Q3C	547 309					
	2/2-way valve, normally closed	CPVSC1-M1LH-D-T-Q3C	547 308					
	Solenoid valve with QS-4 push-in connectors							
	5/2-way valve, single solenoid	CPVSC1-M1H-M-T-Q4	547 286					
	5/2-way valve, double solenoid	CPVSC1-M1H-J-T-Q4	547 287					
	3/2-way valve, normally open	CPVSC1-M1H-N-T-Q40	547 285					
	3/2-way valve, normally closed	CPVSC1-M1H-K-T-Q4C	547 284					
	2/2-way valve, normally closed	CPVSC1-M1H-D-T-Q4C	547 283					
	Solenoid valve with QS-4 push-in connectors and LED							
	5/2-way valve, single solenoid	CPVSC1-M1LH-M-T-Q4	547 316					
	5/2-way valve, double solenoid	CPVSC1-M1LH-J-T-Q4	547 317					
	3/2-way valve, double solchold	CPVSC1-M1LH-N-T-Q40	547 315					
	3/2-way valve, normally closed	CPVSC1-M1LH-K-T-Q40	547 314					
	2/2-way valve, normally closed	CPVSC1-M1LH-D-T-Q4C	547 313					
	2/2 may raise, normally closed	a tott mith b i qit	51 515					

Ordering data – Val	ves with individual electrical connection, pushing manual override,	plug on top, 24 V DC					
Designation		Туре	Part No.				
AND A	Solenoid valve with M5 connections						
	5/2-way valve, single solenoid	CPVSC1-M1HT-M-T-M5	548 037				
	5/2-way valve, double solenoid	CPVSC1-M1HT-J-T-M5	548 038				
	3/2-way valve, normally open	CPVSC1-M1HT-N-T-M50	548 036				
	3/2-way valve, normally closed	CPVSC1-M1HT-K-T-M5C	548 035				
	2/2-way valve, normally closed	CPVSC1-M1HT-D-T-M5C	548 034				
	Solenoid valve with QS-3 push-in connectors						
\checkmark	5/2-way valve, single solenoid	CPVSC1-M1HT-M-T-Q3	548 043				
	5/2-way valve, double solenoid	CPVSC1-M1HT-J-T-Q3	548 044				
	3/2-way valve, normally open	CPVSC1-M1HT-N-T-Q30	548 042				
	3/2-way valve, normally closed	CPVSC1-M1HT-K-T-Q3C	548 041				
	2/2-way valve, normally closed	CPVSC1-M1HT-D-T-Q3C	548 040				
	Solenoid valve with QS-4 push-in connectors						
	5/2-way valve, single solenoid	CPVSC1-M1HT-M-T-Q4	548 048				
	5/2-way valve, double solenoid	CPVSC1-M1HT-J-T-Q4	548 049				
	3/2-way valve, normally open	CPVSC1-M1HT-N-T-Q4O	548 047				
	3/2-way valve, normally closed	CPVSC1-M1HT-K-T-Q4C	548 046				
	2/2-way valve, normally closed	CPVSC1-M1HT-D-T-Q4C	548 045				

Designation			Туре	Part No.
Individual electric	al connection			
	Plug socket with cable, IP40	0.5 m	KMH-0,5	197 263
		1 m	KMH-1	197 264
		2.5 m	KMH-2,5	527 400
L'		5 m	KMH-5	527 401
Power supply		-		
	Micro-Style M12, 5-pin socket (B-coded) for DeviceNet	for 0.75 mm ²	NTSD-GD-9-M12-5POL-RK	538 999
	M12, 5-pin socket (A-coded) for Profibus DP	for 0.75 mm ²	FBSD-GD-9-5POL	18 324
Fieldbus connecti				
and the second	Fieldbus socket for Micro-Style connection, M12, socket (A-coded)		FBSD-GD-9-5POL	18 324
	Straight plug, 5-pin, screw terminal		FBS-M12-5GS-PG9	175 380
	T-adapter, 5-pin, for DH-485/DeviceNet		FB-TA-M12-5POL	171 175

Ordering data – Ad Designation			Туре	Part No.
0			Туре	Tart No.
Connecting cable,	IP40, for multi-pin plug connection			
	Sub-D, 15-pin, up to 12 valve positions	2.5 m	KMP6-15P-12-2,5	527 543
	for code MS	5 m	KMP6-15P-12-5	527 544
	Material: PVC	10 m	KMP6-15P-12-10	527 54
	Suitable for chain link trunking	-		
	Sub-D, 26-pin, up to 16 valve positions	2.5 m	KMP6-26P-16-2,5	527 54
	for code MH	5 m	KMP6-26P-16-5	527 54
	Material: PVC Suitable for chain link trunking	10 m	КМР6-26Р-16-10	527 54
alve terminal con		1		
	Connecting cable WS-WD, angled plug-angled socket	0.25 m	KVI-CP-3-WS-WD-0,25	540 32
	Connecting cable WS-WD, angled plug-angled socket	0.5 m	KVI-CP-3-WS-WD-0,5	540 32
	Connecting cable WS-WD, angled plug-angled socket	2 m	KVI-CP-3-WS-WD-2	540 32
•	Connecting cable WS-WD, angled plug-angled socket	5 m	KVI-CP-3-WS-WD-5	540 33
	Connecting cable WS-WD, angled plug-angled socket	8 m	KVI-CP-3-WS-WD-8	540 33
	Connecting cable GS-GD, straight plug-straight socket	2 m	KVI-CP-3-GS-GD-2	540 33
and the second sec	Connecting cable GS-GD, straight plug-straight socket	5 m	KVI-CP-3-GS-GD-5	540 33
1 DL	Connecting cable GS-GD, straight plug-straight socket	8 m	KVI-CP-3-GS-GD-8	540 33
nscription labels f	for valve identification			1
\land	80 pieces, 9x4.5 mm		MH-BZ-80x	197 25
nscription label h	older			
n	1 piece	for 2 valves	CPVSC1-ST-2	547 39
	1 piece	for 3 valves	CPVSC1-ST-3	547 39
	1 piece	for 4 valves	CPVSC1-ST-4	527 63
	1 piece	for 5 valves	CPVSC1-ST-5	547 39
	1 piece	for 6 valves	CPVSC1-ST-6	547 39
	1 piece	for 7 valves	CPVSC1-ST-7	547 39
	1 piece	for 8 valves	CPVSC1-ST-8	527 63
	1 piece	for 9 valves	CPVSC1-ST-9	547 40
	1 piece	for 10 valves	CPVSC1-ST-10	547 40
		for 11 valves	CPVSC1-ST-11	547 40
	1 piece	6 40 1	CPVSC1-ST-12	527 63
	1 piece 1 piece	for 12 valves		
		for 12 valves	CPVSC1-ST-13	
	1 piece		CPVSC1-ST-13 CPVSC1-ST-14	547 40 547 40
	1 piece 1 piece	for 13 valves		547 40

3.1

Ordering data – Ac	cessories			
Designation			Туре	Part No.
Tie rod				
	1 piece	for 2 valves	CPVSC1-ZA-2	547 416
	1 piece	for 3 valves	CPVSC1-ZA-3	547 417
	1 piece	for 4 valves	CPVSC1-ZA-4	532 807
U.	1 piece	for 5 valves	CPVSC1-ZA-5	547 418
	1 piece	for 6 valves	CPVSC1-ZA-6	547 419
	1 piece	for 7 valves	CPVSC1-ZA-7	547 420
	1 piece	for 8 valves	CPVSC1-ZA-8	532 808
	1 piece	for 9 valves	CPVSC1-ZA-9	547 421
	1 piece	for 10 valves	CPVSC1-ZA-10	547 422
	1 piece	for 11 valves	CPVSC1-ZA-11	547 423
	1 piece	for 12 valves	CPVSC1-ZA-12	532 809
	1 piece	for 13 valves	CPVSC1-ZA-13	547 424
	1 piece	for 14 valves	CPVSC1-ZA-14	547 425
	1 piece	for 15 valves	CPVSC1-ZA-15	547 426
	1 piece	for 16 valves	CPVSC1-ZA-16	532 810
	I	1		
Nounting				
}	Screw for additional terminal mounting		M3x45	527 643
Jser documentation	n			
	User documentation – Pneumatics, valve	German	P.BE-CPVSC-DE	530 925
	terminal CPV-SC	English	P.BE-CPVSC-EN	530 926
		French	P.BE-CPVSC-FR	530 927
\checkmark		Spanish	P.BE-CPVSC-ES	530 928
		Italian	P.BE-CPVSC-IT	530 929
		Swedish	P.BE-CPVSC-SV	530 930
~	User documentation – DeviceNet fieldbus	German	P.BE-CPASC-CPVSC-DN-DE	539 008
		English	P.BE-CPASC-CPVSC-DN-EN	539 009
		French	P.BE-CPASC-CPVSC-DN-FR	539 010
\sim		Spanish	P.BE-CPASC-CPVSC-DN-ES	539 011
		Italian	P.BE-CPASC-CPVSC-DN-IT	539 012
		Swedish	P.BE-CPASC-CPVSC-DN-SV	539 01
	User documentation – Profibus DP	German	P.BE-CPASC-CPVSC-DP-DE	548 72
	fieldbus	English	P.BE-CPASC-CPVSC-DP-EN	548 726
		French	P.BE-CPASC-CPVSC-DP-FR	548 728
		Spanish	P.BE-CPASC-CPVSC-DP-ES	548 727
		,		E (0 30
		Italian	P.BE-CPASC-CPVSC-DP-IT	548 729