

- Compact Performance: maximum flow with minimum space requirement
- For use in potentially explosive areas
- Installation-saving control cabinet assembly
- Short tubing lengths, short cycle times
- Huge range of valve functions
- Integrated assembly and installation concept
- Pneumatic multiple connector plate
- 24-hour delivery service

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Innovative

- Cubic design for exceptional performance and low weight
- Sturdy
- Optimised for installation in a control cabinet
- Suitable for pilot control of process valves
- High flow rate with extremely compact design

Versatile

- Up to sixteen 2/2 or 3/2-way valves per valve terminal thanks to two-valve function in each slice
- Flexible and cost-effective connection of 2 to 8 valve slices
- Highly flexible thanks to:
 various pneumatic functions
 - (valve variants)
- different pressure ranges
 Separator plates for creating pressure zones
- Blanking plates for future expansion

Reliable

- Manual overrides for valves
- Protection class to IP65 in the control cabinet
- Intrinsically safe valve terminal design to ATEX Category 2 (Zone 1)
- Extremely robust thanks to the metal valve design
- Long service life

Easy to mount

- Ready-to-install and tested unit
- Lower selection, ordering, installation and commissioning costs
- Secure mounting on wall or H-rail
- Pneumatic multiple connector plate

 fast replacement of the valve
 block without the need to replace
 the existing tubing connections
- Valve assembly optimised for control cabinets

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Key features



• 2 ... 8 valve positions, max. 16 solenoid coils

The valve terminal CPV10-EX-VI features an intrinsically safe design for use in potentially explosive areas to ATEX Category 2 (Zone 1)

Pneumatic multiple connector plate for wall opening facilitates installation in control cabinets, seal to IP65 Actuation only via intrinsically safe circuit with individual valve connection

1) Via function block, not in conjunction with pneumatic multiple connector plate

Key features

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Electrical connections Individual connection in explosion-proof design



The CPV10-EX-VI is a valve terminal featuring an intrinsically safe design for use in Zone 1 potentially explosive areas (ATEX Category 2 G). Definition of intrinsically safe: Intrinsically safe means that the electrical outputs and solenoid coils are designed so that no sparks or thermal effects will trigger ignition in explosive atmospheres. Each valve coil must be connected to an intrinsically safe circuit that complies with ignition protection type ia IIC or ib IIC. Individual connection permits the selection of 2 to 16 solenoid coils (divided between two to eight valve slices, odd numbers also possible).

Range of applications

Many applications involve explosive gases or dust. Applications such as these call for equipment with increased explosion protection requirements (Category 2 corresponding to Zone 1). The possibility of sparking, for example when a solenoid coil is switched off, must be completely ruled out. There are different ways of doing this. Solenoid coils for this type of application are usually "intrinsically safe". Intrinsically safe here means that no sparks or thermal effects can occur that would trigger ignition in an explosive atmosphere. The valve terminal family CPV10 is already approved for explosion protection areas to ATEX. This approval is valid for Category 3. It corresponds to Zone 2 in which an explosive atmosphere either normally does not occur or occurs only briefly. The valve terminal CPV10-EX-VI extends this range for higher ATEX requirements:

• Approval for Category 2, Zone 1.

The intrinsically safe valve terminal features an integrated protective circuit that prevents ignition for gas, mist or vapour. Circuits for intrinsically safe solenoid coils are also designed so that only low voltage and power levels can occur. Hence, in this case the valve terminal is equipped with individually connected valves. The CPV10-EX-VI can only be operated in suitable intrinsically safe circuits.

In process engineering, valves for pilot control of process valves are frequently installed in a control cabinet. The pneumatic multiple connector plate type CPV10-VI-...-M7-C or -D for control cabinets simplifies the installation of the pneumatic connections. Instead of multiple bulkhead fittings and tubing connections, installation can be carried out with just a single through-hole in the cabinet wall. Protection class IP65 is achieved via a sealing ring suitable for closed control cabinet assembly. The pneumatic multiple connector plate facilitates operation of the valve terminal CPV10-EX-VI in a suitable control cabinet in Zones 1 and 21 (ATEX Category 2 GD).

Selection and development

Valve terminal configurator

The appropriate valve terminal can be chosen quickly and easily using the online catalogue. This includes an easy-to-use valve terminal configurator, which makes it much easier to find the right product. The valve terminals are fully assembled according to your order specification and are individually tested. This reduces assembly and installation time to a minimum. You order a valve terminal type 10 using the order code.

Ordering system for type 10 → Internet: cpv10-ex

Online via: → www.festo.com

Online via: → www.festo.com

2D/3D CAD data

You can request the CAD data for a valve terminal you have configured. To do so, perform the product search as described above. Go to the shopping basket and click on the CAD icon (compass). On the next page you can generate a 3D preview or request another data format of your choice by e-mail.





In accordance with EU Directive 94/9/EC (ATEX Directive) Use in hazardous locations II 2 G Ex ib IIC T5 –5°C ≤ Ta ≤ 50°C

CPV use in Zone 1/2

CPV use in Zone 1/2







Intrinsically safe valve terminal (pneumatic multiple connector plate) and remote I/O in a control cabinet.

Key features

What does ATEX mean?			
Explosive atmospheres are a constant hazard in the chemical and petro- chemical industries because of the processing techniques used. These	explosive atmospheres are caused by escaping gas, vapours and mist, for example. Explosive atmospheres can also be expected in mills, silos and	sugar and feed processing plants because of the dust/oxygen mixtures that occur there. For this reason, elec- trical equipment in hazardous areas is	subject to a special directive, ATEX 95a. This directive was also extended to non-electrical equipment on 1 July 2003.
What does ATEX 95a stand for and what	at does it mean?		
 ATEX is an acronym of the French expression "Atmosphère explosible". ATEX 95a refers to article 95a of the corresponding EU directive. 	• ATEX 95a is a working title for a project related to the Directive 94/9/EC:	• Directive 94/9/EC stipulates the minimum safety requirements for equipment and protective systems to be operated in explosive atmospheres.	 It applies to all EU member states. It relates to both electrical and non-electrical equipment.
What are the main amendments introc	luced by Directive 94/9/EC?		
• Non-electrical equipment such as	• Each piece of equipment must be	• The new equipment bears the	• It applies to mining as well as all

 Non-electrical equipment such as cylinders, pneumatic valves, service units and accessories now fall within the scope of the directive.

• Equipment will be approved for

which the equipment can be

- Each piece of equipment must be supplied with operating instructions and a conformity declaration.
- The manufacturer's quality system must meet specifications over and above those required under ISO 9001.
- The new equipment bears the explosion protection and CE marks.
- Dust explosion protection now also falls within the scope of this directive.
- It specifies general safety requirements.
- It applies to mining as well as al other hazardous areas.
- It applies to complete protective systems.

I	Explosion	Explosion protection classes						
	Gas	Dust	Frequency	Equipment group	Equipment category	Area of application		
	zone	zone						
				1	М	Mining		
					M1			
					M2			
				П		All non-mining areas of application		
	0		Constant, frequent, long-term	П	1G	Gas, mist, vapour		
		20		П	1D	Dust		
	1		Occasional	П	2G	Gas, mist, vapour		
		21		П	2D	Dust		
	2		Seldom, short-term in the event	II	3G	Gas, mist, vapour		
		22	of a fault	11	3D	Dust		
l								

specific categories. These categories are allocated zones in

operated.

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Key features

CPV – The benefits at a glance

The CPV valve terminal has a unique design. It permits the flexible combination of pneumatic performance, electrical connection technologies and a wide range of mounting options. The pneumatic multiple connector plate supports space-saving installation in control cabinets. In many cases the valve terminal can be installed in the previously unused wall area of the control cabinet. There is no need to connect the valves in the control cabinet. All tube couplings can be laid externally. Instead of individual holes, the pneumatic multiple connector plate requires only one rectangular cutout. The generously sized flow ducts and powerful flat plate silencers ensure high flow rates. All valves are in the form of valve slices. They are optimised for flow performance and are also extremely compact. Two functions per valve slice (e.g. 2x 3/2-way valves) mean that twice the component density can be achieved. This saves space and reduces costs.

The cubic design permits exceptional performance yet a comparatively low weight. The benefits of this design are obvious when the valve terminal is used on a drive in a moving installation.

However, robustness must not be sacrificed in favour of compactness.

The connecting threads and mounting attachments are metal. The manual override for the valves can be adapted for different operating situations. If, for example, a detenting manual override is required for setting-up mode, the manual override can be easily converted for that application in a way that rules out operational errors.

The design principle

The cubic design provides a clearly assigned function on each side. Thus, for example, the electrical connection is mounted on the top. The different combination options ensure the optimum solution for the task at hand.

- Compressed air supply connections on the left, right or underneath
- Pneumatic working lines and function blocks (vertical stacking) underneath
- Manual operation from the front
- Electrical connection surface on the top
- Mounting surface at the back or the front via a pneumatic multiple connector plate



Peripherals overview



Key features – Pneumatic components

Valves

CPV valves are valves with integrated sub-base, i.e. in addition to the valve function they contain all of the pneumatic ducts for supply, exhaust and the working lines. The supply ducts are a central component of the valve slices and allow a direct flow of air through the valve slices. 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.

The valve terminal is not suitable for vacuum operation.

valve fu	aive function						
Code	Circuit symbol	Size	Description				
		10					
М	4 Á 2		5/2-way valve, single solenoid				
			Pneumatic spring return				
		_	Piston spool valve				
	14 84 5 1 3 12		E/2 waywalvo dauble calenaid				
J			5/2-way valve, double solenoid				
	┟╤┲╗┰╲╺╢┥╶╱┱┠╤┖╍	_	Fision spool valve The procurate switching position is retained in the degree retained state				
	14 84 5 1 3 12	-	• The preumatic switching position is retained in the de-energised state				
C	4 2		2x 3/2-way valve, single solenoid				
			Normally closed				
		-	Pneumatic spring return				
			Piston spool valve				
	1482/84 1 12 11 3/5						
CY	4 2		2x 3/2-way valve, single solenoid				
			Normally closed				
			Pneumatic spring return				
			Piston spool valve				
		-	Integrated back pressure protection				
			- 闄 - Note				
			The valve terminal must be operated with external pilot air supply if it is				
			necessary to ensure that the back pressure flaps are closed securely in the				
			event of a sudden drop in operating pressure or if the operating pressure is				
			switched off.				
Ν	4 2		2x 3/2-way valve, single solenoid				
			Normally open				
		-	Pneumatic spring return				
		-	Piston spool valve				
	14 82/84 1 12 11 3/5		• The function of a 5/3-way valve with mid-position pressurised can be				
			implemented with these valves with initial position open.				
Н	4 2		2x 3/2-way valve, single solenoid				
			Normal position				
			1x open (pilot control 12)				
			1x closed (pilot control 14)				
	14 82/84 1 12 11 3/5	-	Pneumatic spring return				
			Piston spool valve				
			For optimised cylinder movement. Corresponds to valve function M				
			with simultaneous actuation of both solenoid coils (5/2-way, single solenoid).				
			Since the piston area on each side can be pressurised or exhausted separately,				
			it means that the cylinder can move faster.				

Valve terminals type 10 CPV10-EX-VI, Compact Performance Key features – Pneumatic components

Valve fu	Valve function					
Code	Circuit symbol	Size	Description			
-		•	5/3G ¹⁾ function, mid-position closed The valve function "mid-position closed" is created from one 2x 3/2-way valve, normally closed (code C). The valve kit CPV10-BS-5/3G-M7 (incorporating a double piloted non-return function) is used for this. This valve kit is intended for applications with one working pressure level per valve slice, i.e. it must not be used in dual-pressure applications (where the pressure levels at port 1 and 11 are different). If other valve slices are to be used in dual-pressure mode, then the valve slice equipped with the 5/3G valve kit must be separated from compressed air duct 1 and 11 by means of a separator plate (code T). Not in first or last valve position with pneumatic multiple connector plate P and M. Cannot be used with pneumatic multiple connector plate GQC and GQD. • Piston spool valve			
-	4 2 14 112 112 14 12 11 3/5	•	 5/3E function, mid-position exhausted The valve function "mid-position exhausted" is created using a 2x 3/2-way valve, normally closed (code C). Pneumatic spring return Piston spool valve 			
-	4 2 10 110 110 1 14 82/84 1 12 11 3/5	•	 5/3B function, mid-position pressurised The valve function "mid-position pressurised" is created using a 2x 3/2-way valve, normally open (code N). Pneumatic spring return Piston spool valve 			
D	4 2 14 112 14 112 14 12 14 82/84 12 11	•	 2x 2/2-way valve, single solenoid Normally closed Pneumatic spring return Piston spool valve 			
1	4 14 110 10 10 10 10 10 10 10 10 1	•	 2x 2/2-way valve, single solenoid Normal position 1x open (control side 12) 1x closed (control side 14) Pneumatic spring return Piston spool valve 			

1) Cannot be assembled in conjunction with the control cabinet version of the pneumatic multiple connector plate CPV10-VI-P...-C or CPV10-VI-P...-D



Valve terminals type 10 CPV10-EX-VI, Compact Performance Key features – Pneumatic components

Additi	Additional pneumatic functions				
Code	Circuit symbol	Size	Description		
		10			
Ρ	Input (valve side)	•	 2x one-way flow control valve, supply air flow control Module (actuator) for direct flange mounting on the CPV valves. Also suitable for pneumatic multiple connector plates. Different valve actuators cannot be combined. Not with valve function G Not in first or last valve position with accessories M, P, V (pneumatic multiple connector plate) Cannot be used with accessories GQC and GQD (pneumatic multiple connector plate) 		
Q	Input (valve side)	•	 2x one-way flow control valve, exhaust air flow control Module (actuator) for direct flange mounting on the CPV valves. Also suitable for pneumatic multiple connector plates. Different valve actuators cannot be combined. Not with valve function G Not in first or last valve position with accessories M, P, V (pneumatic multiple connector plate) Cannot be used with accessories GQC and GQD (pneumatic multiple connector plate) 		

- 🌡 - Note

Pneumatic multiple connector plate P, M: not in first or last valve position.

Pneumatic multiple connector plate GQC, GQD: not used.

Key features – Pneumatic components

Creating pressure zones

Separator plates

Different pressures at port 1 and 11 result in two pressure levels per valve. This means, for example, that a cylinder drive can be advanced using high pressure and retracted using low pressure to save energy.

The maximum number of pressure zones possible is determined by the combination of the following components:

- Use of a separator plate
- End plate pair type
- Valve slice type

The CPV valve terminal can be divided into 2 to 4 pressure zones with the aid of separator plates.

Code	Graphical symbol	Size	Note
		10	
Τ	Separator plate (for creating pressure zones), supply duct 1 separated Pilot exhaust air 82/84 Pilot air supply 12/14 Exhaust air 3/5 Working air 11	-	 A separator plate (code T) is used to separate the duct for the air supply (port 1 and 11) to provide two pressure zones. Not in first or last valve position Not with compressed air supply A, B, C, D, U, V, W, X
S	Separator plate (for creating pressure zones), supply duct 1 and exhaust 3/5 separated Pilot exhaust air	•	 The separator plate (code S) separates the exhaust duct 3/5 as well as the supply duct 1 and 11. This plate should be used to prevent back pressure on neighbouring valve functions. Not in first or last valve position Not with compressed air supply A, B, C, D, U, V, W, X (single-side compressed air supply)
L	Vacant position (blanking plate) Pilot exhaust air 82/84 Pilot air supply 12/14 Exhaust air 3/5 Working air 1 Working air 11	•	A blanking plate (code L) is used to create a vacant position where a valve can be positioned at a later date.



Key features – Pneumatic components

Examples: Compressed air supply

External pilot air supply, flat plate silencer at both ends

Compressed air supply via pneumatic multiple connector plate:

code H The diagram opposite shows an example of the configuration and connection of the compressed air supply with external pilot air supply. Port 12/14 on the pneumatic multiple connector plate is equipped with a fitting for this purpose. Ports 3/5 and 82/84 are vented via the flat plate silencers. One separating seal each can be optionally used to create pressure zones.



Internal pilot air supply, ducted exhaust air or threaded silencer

Compressed air supply via end plates: code Z

The diagram opposite shows an example of the configuration and connection of the compressed air supply with internal pilot air supply. The pilot air supply is branched from port 1 or 11 via the right-hand end plate. Ports 3/5 and 82/84 are vented via the threaded silencer.

One separating seal each can be optionally used to create pressure zones.



Key features – Pneumatic components

Example: Creating pressure zones

CPV with separator plate T

With the CPV valve terminals up to four pressure zones can be implemented. The diagram shows an example of the configuration and connection of four pressure zones using separator plate code T – with external pilot air supply.



Key features - Pneumatic components

Compressed air supply and exhausting

The two end plates that pressurise and exhaust the valve slices are a characteristic feature of a CPV valve terminal.

- Large duct cross sections ensure maximum flow rates even when multiple valves are switched in parallel
- Large flat plate silencers in the end plates
- Internal/external pilot air supply

Each individual valve is supplied with compressed air from two individual

ducts (supply ports 1/11) and exhausted via a large, integrated exhaust duct (exhaust 3/5). This design permits unique flexibility and functionality. It is the easiest way of realising a number of pressure zones per terminal.

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The valve terminal is supplied via end plates, either on the left, on the right or on both sides.

Pilot air supply Internal pilot air supply

Internal pilot air supply can be selected if the supply pressure at pneumatic port 1 is 3 ... 8 bar. With internal pilot air supply the branch is located in the left or right-hand end

plate. There is no port 12/14.

External pilot air supply

External pilot air supply is required if the supply pressure at pneumatic port 1 is less than 3 bar or greater than 8 bar. In this case, pressure of 3 ... 8 bar is applied at port 12/14. If a gradual pressure build-up in the system using a pressurised on-off valve is required, external pilot supply air should be selected. The control pressure applied during switch-on is already very high in this case.

End plates



Example of an end plate: The diagram shows a left-hand end plate with external pilot air supply. The exhaust ports 3/5 and 82/84 can be equipped with fittings or with

silencers. An end plate for internal pilot air supply does not have ports 12/14 and 11. The port 82/84 is always present and should be fitted with a silencer. The port 12/14 is connected internally with port 1 on an end plate for internal pilot air supply.

Valve terminals type 10 CPV10-EX-VI, Compact Performance Key features – Pneumatic components

End pl	nd plate combination for compressed air supply via end plate					
Code	Graphical symbol	Size	Note			
	Type of pilot air supply (internal/external)	10				
U	Internal pilot air supply	•	 Ports in right-hand end plate only No pressure zone separation permissible 			
V	Internal pilot air supply	•	 Ports in left-hand end plate only No pressure zone separation permissible 			
W	External pilot air supply	-	 Ports in right-hand end plate only No pressure zone separation permissible 			
X	External pilot air supply	•	 Ports in left-hand end plate only No pressure zone separation permissible 			
Y	Internal pilot air supply	•	 Ports in left-hand and right-hand end plate Maximum three pressure zones 			
Z	External pilot air supply	•	 Ports in left-hand and right-hand end plate Maximum four pressure zones 			

Key features – Pneumatic components

End plate combination for compressed air supply via pneumatic multiple connector plate Size Note Code Graphical symbol Type of pilot air supply (internal/external) 10 Internal pilot air supply • Ports on pneumatic multiple connector plate • Pressure zone separation only permissible **1** 82/84 with separator plate (code T) 3/5 • Maximum two pressure zones 12/14 • Only for accessories M, P, V, GQC, GQD 11 (pneumatic multiple connector plate) 1 External pilot air supply • Ports on pneumatic multiple connector plate Ζ • Pressure zone separation only permissible 82/84 with separator plate (code T) 3/5 Maximum three pressure zones 12/14 Ь • Only for accessories M, P, V, GQC, GQD 11 (pneumatic multiple connector plate) 1



Valve terminals type 10 CPV10-EX-VI, Compact Performance Key features – Pneumatic components

End pl	ate combination for compressed air supply via pneumatic multiple connector plate with flat	plate silencer	
Code	Graphical symbol	Size	Note
	Type of pilot air supply (internal/external)	10	
E	External pilot air supply	•	 Ports on pneumatic multiple connector plate Exhaust air vented via flat plate silencer on the right Pressure zone separation only permissible with separator plate (code T) Maximum four pressure zones Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)
F	External pilot air supply	•	 Ports on pneumatic multiple connector plate Exhaust air vented via flat plate silencer on the left Pressure zone separation only permissible with separator plate (code T) Maximum four pressure zones Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)
G	Internal pilot air supply	•	 Ports on pneumatic multiple connector plate Exhaust air vented via flat plate silencer on the left Pressure zone separation only permissible with separator plate (code T) Maximum three pressure zones Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)
Η	External pilot air supply	•	 Ports on pneumatic multiple connector plate Exhaust air vented via flat plate silencers at both ends Pressure zone separation permissible Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)
J	Internal pilot air supply	•	 Ports on pneumatic multiple connector plate Exhaust air vented via flat plate silencers at both ends Pressure zone separation permissible Maximum three pressure zones Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)
ĸ	Internal pilot air supply	•	 Ports on pneumatic multiple connector plate Exhaust air vented via flat plate silencer on the right Pressure zone separation permissible Maximum three pressure zones Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)

Key features - Pneumatic components

Pneumatic connection



The working lines are located directly in the valve slices. Threaded connectors and Quick Star push-in fittings (QS) are available for different tubing sizes. The supply ports are located in the end plates or in the pneumatic multiple connector plate. Push-in fittings are available fully assembled. The following working lines can be selected:

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- Threaded connectors: code C
- Large push-in connectors: code D

Small push-in connectors: code E
 Connection sizes for the threaded and
 QS push-in fittings can be found in
 the table below.

Pneumatic multiple connector plate

One-piece "connection plates" that contain both working lines and supply ports can be combined with a pneumatic multiple connector plate. This enables the valve terminal as a pneumatic "function" to be separated from the valve ports. The pneumatic multiple connector plate enables different mounting options from wall mounting to direct passage through a cabinet wall. Easy-to-service and flexible connection technology thanks to the following:

 Common connection via the pneumatic multiple connector plate with all connections on one side

Pneumatic multiple connector plate

- The valve terminal can be assembled/disassembled using only four screws, whereby the pneumatics remain fully connected
- Quick assembly/disassembly
- No errors when recommissioning as a result of incorrect connection of tubing

CPV valve terminal





Connect	Connection sizes				
Connect	ion to ISO 5599	CPV10	Comment		
1/11	Working air	G1⁄8	Fitting in end plate or pneumatic multiple connector plate		
2/4	Working line	M7 (QS6/QS4)	Connection in valve slice, connec- tion for push-in fitting in brackets		
3/5	Exhaust air via right-hand/left-hand end plate or	G3⁄8			
	pneumatic multiple connector plate	G1⁄4			
12/14	Pilot air supply port	M5			
82/84	Exhaust air from left-hand/right-hand end plate or	M5			
	pneumatic multiple connector plate	M7 (M5) ¹⁾			

1) With flanged pneumatic multiple connector plate

Valve terminals type 10 CPV10-EX-VI, Compact Performance Key features – Pneumatic components

Pneumatic connection: fitti	ing set for compressed	air supply							
	Code for	Port	Designation	Size 10					
	compressed air			QS6					
	supply			Туре					
	Without pneumat	ic multiple connect	c multiple connector plate						
	U,V	82/84	Silencer	U-M5					
		3/5	Silencer	U-3/8-B					
		1	Push-in fitting	QS-1/8-8-1					
No MARIN									
	W, X	82/84	Silencer	U-M5					
		3/5	Silencer	U-3/8-B					
		1	Push-in fitting	QS-1/8-8-1					
		12/14	Push-in fitting	QSM-M5-6-I					
	Υ	82/84 on right	Silencer	U-M5					
		82/84 on left	Blanking plug	B-M5					
		3/5 on right	Silencer	U-3/8-B					
		3/5 on left	Blanking plug	B-3⁄8					
		1/11 on left	Push-in fitting	QS-1/8-8-1					
	Z	82/84 on right	Silencer	U-M5					
		82/84 on left	Blanking plug	B-M5					
		3/5 on right	Silencer	U-3⁄8-B					
		3/5 on left	Blanking plug	B-3⁄8					
		12/14 on right	Push-in fitting	QSM-M5-6-I					
		12/14 on left	Blanking plug	B-M5					
		1/11	Push-in fitting	QS-1/8-8-1					
	With pneumatic r	With pneumatic multiple connector plate code: M							
	Y	82/84	Silencer	UC-M7					
		12/14	Blanking plug	B-M7					
		3/5	Silencer	U-1/4-B					
		1/11 on left	Push-in fitting	QS-1/8-8-1					
		11 on right	Blanking plug	B-1/8					
	Z	82/84	Silencer	UC-M7					
		3/5	Silencer	U-1/4-B					
		12/14	Push-in fitting	QSM-M7-6-1					
		1/11 on left	Push-in fitting	US-1/8-8-1					
	14/141								
	With pneumatic r	nultiple connector	plate code: P, GQC	11 447					
	Y	82/84	Silencer	U-M5					
		12/14	Blanking plug	B-M5					
		3/5	Silencer	U-¼-B					
		1/11 on left	Push-in fitting	Q5-1/8-8-1					
		11 on right	Bianking plug	B-1/8					
	7	02/04	Ciloneer	LL MC					
	Ĺ	82/84							
		5/5	Duch in fitting						
		12/14	Puch in fitting						
		1/11 ON LETT	rusii-iii iittiiig	U2-1/8-0-1					



Valve terminals type 10 CPV10-EX-VI, Compact Performance Key features – Pneumatic components

Pneumatic connection: fitting set for compressed air supply							
	Code for compressed air	Port	Designation	Size 10 QS6 Trace			
	supply	1.1.1		Туре			
	А, В	82/84	Blanking plug	B-M5			
		3/5	Blanking plug	B-3/8			
		1	Push-in fitting	QS-1/8-8-1			
A DEC	C D	0.2/07	Disalianatur	DMC			
	C, D	82/84		B-M5			
		3/5		B-7/8			
		1		QS-1/8-8-1			
		12/14	Push-in fitting	QSM-M5-6-I			
	\\/:+!		An and A				
	with pheumatic m	iuitiple connector pla	Ite code: M	D M7			
	E, f, H	82/84		B-M/			
		3/5		B-1/4			
		1/11		QS-1/8-8-1			
		12/14	Push-in fitting	QSM-M7-6-1			
	C L K	0.2/07	Disalianatur	D M7			
	G, J, K	82/84		B-M/			
		3/5		B-1/4			
		On right in 1, left	Push-in fitting	QS-1/8-8-1			
		On right in 11	Blanking plug	B-1/8			
		12/14	Blanking plug	B-M7			
	14/1-1						
	With pneumatic m	ultiple connector pla	ite code: P, GQC	0.44			
	E, F, H	82/84	Blanking plug	B-M5			
		3/5	Blanking plug	B-1/4			
		1/11	Push-in fitting	QS-1/8-8-			
		12/14	Push-in fitting	QSM-M5-6-I			
	G, J, K	82/84	Blanking plug	B-M5			
		3/5	Blanking plug	B-1/4			
		On right in 1, left	Push-in fitting	QS-1/8-8-1			
		On right in 11	Blanking plug	B-1/8			
		12/14	Blanking plug	B-M5			

Key features – Pneumatic components



Key features – Assembly

Mounting options

The valve terminals have holes for four mounting screws, the mounting side is the side with the pneumatic fitting. These holes are also used to mount the valve terminal on a pneumatic multiple connector plate.

addition to this method:

There are other mounting options in

• H-rail mounting

For valve terminal CPV10:

CPV10/14-VI-BG-NRH-35

(mounting code H)

- Wall mounting
- Wall mounting via flanged pneumatic multiple connector plate
- On rear side via wall mounting • On front side

H-rail to EN 60715, not for

multiple connector plate)

accessories M, P, V (pneumatic

• Mounting via through-hole in wall

The attachments are mounted with a screw and fixing bolt on the left-hand and right-hand end plates.

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Attachment for H-rail



Attachment for wall mounting



CPV10/14-VI-BG-RWL-B (mounting code U)



For valve terminal CPV10:

Attachment for individual connection and ET200X/ET200pro (included in the scope of delivery)



For valve terminal CPV10/14: CPV...-VI-BG-ET200X (mounting code X)



Through-hole in wall, for example on the machine



Note

The valve terminal CPV10-EX-VI must not be operated on the Siemens Simatic ET 200X. The mounting kit should only be used for front mounting of the valve terminal.

Wall mounting via pneumatic multiple connector plate



past the end plates

valve terminal

• Through mounting holes

• Multiple connector plate projects

(without thread) in the flange

laterally through the pneumatic

enable rear mounting of the CPV

• Multiple connector plate projects

• Mounting holes (with thread) in the

• Multiple connector plate with seal

past the end plates

multiple connector plate also

• Two additional holes running

Key features - Assembly

With flange, code P

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Pneumatic multiple connector plate for wall/machine mounting



1 Mounting holes

Pneumatic multiple connector plate for control cabinet assembly





1 Mounting holes

With supply ports, code GQE



1 Mounting holes

- 🖡 - Note

The outer valve slices cannot be equipped with valve extensions (e.g. one-way flow control valve) when using the pneumatic multiple connector plate M or P.

CPV valve terminals with flat plate silencers are only suitable for wall mounting.

• For 10 mm

flange

- Multiple connector plate projects past the end plates
- Mounting holes (with thread) in the flange
- Multiple connector plate with seal

If the pneumatic multiple connector plate GQC, GQD or GQE is used, the following limitations apply:

- Generally no attachment of valve extensions
 Not in combination with H-rail
- mounting
- Not in combination with wall mounting

Without flange, code M



- Multiple connector plate fits flush with the end plates
- Mounting holes (with thread) for wall or foot mounting are on the connection side of the pneumatic multiple connector plate

1 Mounting holes

Without supply ports, code GQD



1

1 Mounting holes

- Multiple connector plate fits flush with the end plates
- The mounting holes (with thread) are on the connection side of the pneumatic multiple connector plate
- Multiple connector plate with seal

Valve terminals type 10 CPV10-EX-VI, Compact Performance Key features – Display and operation

Manual override

- Three types of manual override are available:
- Non-detenting via slide
- Detenting
- Blocked

Subsequent conversion of the manual override from non-detenting to detenting or blocked is possible at any time.

The locking clip on the valve must be removed to this end. This is only possible after the individual valve has been removed or the tie rod of the valve terminal has been released.

- Note

See the manual for instructions.

Code	Graphical symbol	Size 10	Note
N	Manual override, non-detenting	•	In the "non-detenting" version, the blue slide is held via a locking clip. A pointed object (e.g. pen, etc.) can be used to activate the manual override through the opening.
R	Manual override, detenting	•	In the "detenting" version, the locking clip is removed and the manual override is activated by pushing the slide down. The non-detenting function can be re-established by re-installing the locking clip.
V	Manual override, blocked	•	In the "blocked" version, detenting or non-detenting activation of the manual override is prevented by means of a cover. Like the non-detenting locking clip, the cover can be added subsequently, but then remains on the valve.

Valve terminals type 10 CPV10-EX-VI, Compact Performance Key features – Display and operation

Display and operation

- Inscription labels
- Clip with identification field on the cable socket



Key features – Electrical components

Electrical connection

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Individual connection

The corresponding connecting cables are generally designed without an LED.

The CPV10-EX-VI must only be operated in suitable intrinsically safe circuits. A wide range of well-known manufacturers (list on request) offer

appropriate controllers, barriers or fieldbus circuits with intrinsically safe . outputs.

2 ... 16 solenoid coils (divided between 2 ... 8 valve slices) can be selected, odd numbers also possible. The pneumatic multiple connector plate can only be used with even numbers.

Note

The total maximum cable length of the electrical connecting cables per coil is 30 m. This value also applies when the valve terminal is installed in a control cabinet.

Ordering data				
	Designation		Part No.	Туре
Plug socket with cable				
	Plug socket with cable	0.5 m	550324	KMYZ-4-0,5B-EX
		2.5 m	550481	KMYZ-4-2,5-B-EX
\checkmark		5.0 m	550482	KMYZ-4-5,0-B-EX
Inscription label				
State of the second sec	Inscription labels 6x10 mm, 64 pieces in frames		18576	IBS-6x10





Download CAD data → www.festo.com

1 Mounting screw (self-tapping KB 18x12), max. tightening torque 0.3 Nm

2 Inscription label

- 3 2-wire cable 0.5 m or 2.5 m (1x 0.35 mm² 1x0.34 mm²)
- 4 Connection pattern for MSZB



Instructions for use

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Equipment

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

The quality of compressed air downstream of the compressor must correspond to that of unlubricated compressed air. If possible, do not operate all your system equipment with lubricated compressed air. The lubricators should, where possible, always be installed directly upstream of the actuator 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 51 524-HLP32; basic oil viscosity 32 CST at 40 °C).

Bio-oils

When using bio-oils (oils based on 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 51 524, 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.

- N Flow rate 400 l/min
- **J** Valve width 10 mm
- **L** Voltage 24 V DC



General technical data		
		CPV10-EX-VI
Design		Electromagnetically actuated piston spool valve
Lubrication		Lubricated for life, PWIS-free (free of paint-wetting impairment substances)
Type of mounting		Via pneumatic multiple connector plate
		Via backwall
		On H-rail
Mounting position		Any
Manual override		Non-detenting/detenting/blocked
Width	[mm]	10
Nominal size	[mm]	4
Nominal flow rate without fitting	[l/min]	400
Pneumatic connections ¹⁾		
Pneumatic connection		Via end plate or pneumatic multiple connector plate
Supply	1/11	G1⁄8
Exhaust	3/5	G ³ /8 (G ¹ /4)
Working lines	2/4	M7
Pilot air supply	12/14	M5 (M7)
Pilot exhaust air	82/84	M5 (M7)

1) Connection dimensions in brackets for pneumatic multiple connector plate

Operating and environmental conditions									
Valve function order code		М	J	Ν	С	СҮ	Н	D	1
Operating medium		Filtered co	mpressed	air, lubrica	ted or unlu	bricated, inert	gases 🗲 2	9	
Grade of filtration	[µm]	40 (averag	ge pore size	2)					
Operating pressure	[bar]	0 10				+0.1 +10	0 10		
Operating pressure for valve terminal with	[bar]	3 8							
pilot air supply									
Pilot pressure	[bar]	3 8							
Ambient temperature	[°C]	-5 +50							
Temperature of medium	[°C]	-5 +50							
Relative air humidity at 25 °C	[%]	90 with no	o condensa	tion					
Corrosion resistance class CRC ¹⁾		1							
Note on materials		RoHS-com	pliant						

1) Corrosion resistance class 1 according to Festo standard 940 070 Components subject to low corrosion stress. 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.

Certifications								
This product is certified for use in the ATEX zone in accordance with the EU ATEX Directive								
ATEX category for gas	II 2G							
Explosion ignition protection type for gas	Ex ib IIC T5							
ATEX specification	II 2 G Ex ib IIC T5							
ATEX temperature rating [°C]	-5 ≤ Ta ≤ +50							
Certificate issuing authority	EX5 06 04 13277 073							
CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)							

Valve terminals type 10 CPV10-EX-VI, Compact Performance Technical data

Electrical data – Valve solenoid		
Width	[mm]	10
Max. ambient temperature	[°C]	+50
Max. input voltage Ui	[V DC]	32
Max. input current l _i	[A]	0.2
Max. input power P _i	[W]	0.76
Required current consumption with pilot pressure	[mA]	≥15.4
of 3 bar ¹⁾		
Effective internal inductance Li	[µH]	≈0
Effective internal capacitance C _i	[nF]	≈0
Resistance R ₂₀	[Ω]	920 ±5%
Current supply		Only from certified intrinsically safe circuits EEx ia IIC or ib IIC
Duty cycle	[%]	100
Protection class to EN 60529	[IP]	40
	[IP]	65 with pneumatic multiple connector plate for control cabinets
Max. connecting cable length per coil	[m]	30

1) The minimum required current consumption drops at higher pilot pressures

Data on vibration and shock to DIN/EC68						
Vibration resistance	Tested to DIN/IEC 68/EN 60068, Parts 2-6					
	Severity level 2					
Shock resistance	Tested to DIN/IEC 68, Parts 2-27					
	Severity level 2					

Valve switching times [ms]									
Valve function order code		М	J	Ν	С	CY	Н	D	
Switching times	On	17	-	17	17	17	17	15	15
	Off	40	-	37	37	37	37	17	17
	Changeover	-	10	-	-	-	-	-	-

Materials						
Valve slices	Die-cast aluminium					
Valve module 5/3G	Cast aluminium, polyacetal					
Blanking plate/separator plate	Polyamide					
End plates	Die-cast aluminium					
Flat plate silencer	Die-cast aluminium, polyethylene					
Pneumatic multiple connector plate	Wrought aluminium alloy					
Seal	Nitrile rubber					

Product weight		
Approx. weight	[g]	
End plates (2 pieces)		160
Pneumatic multiple connector plate		
• on valve terminal with 2 valve positions		120
 on valve terminal with 4 valve positions 		165
• on valve terminal with 6 valve positions		225
• on valve terminal with 8 valve positions		270
Flat plate silencer		147
Blanking plate		25
Separator plate		25
Valve sub-base		73
Function block: 5/3G function		46
Function block: one-way flow control valves		25

Technical data

Dimensions Download CAD data → www.festo.com Valve terminal CPV10-EX-VI with supply ports in the end plates Individual threaded connection (without pneumatic multiple Æ Ŧ ET. connector plate) Æ Æ Æ D4 D4 7.6 б 品 ⊕⊕ Æ 82/84 4 82/84 Ф<u>-</u> 12/14 12/14 ட 3/5 3/5 D2 02 1 1 11 9 \oplus (ext θ 2 DЗ ĎЗ 1 4 L2 L1 1 Slots for inscription label 3 Left-hand end plate (threaded 4 Right-hand end plate (threaded 5 Plug socket with cable type 2 Pneumatic multiple connector connections not in conjunction connections not in conjunction KMYZ-4-... with pneumatic multiple with pneumatic multiple plate connector plate) connector plate)

	L1	L2	L3	L4	L5	L6	D1	D2	D3	D4
2-valve	50	41.8								
3-valve	60	51.8								
4-valve	70	61.8								
5-valve	80	71.8	62	71	52.8	15	M7	G1⁄8	G3⁄8	M5
6-valve	90	81.8								
7-valve	100	91.8								
8-valve	110	101.8								

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Technical data



Valve terminals type 10 CPV10-EX-VI, Compact Performance Technical data



	2-valve	3-valve	4-valve	5-valve	6-valve	7-valve	8-valve
L1	74	84	94	104	114	124	134
L2	48	58	68	78	88	98	108
L3	58	78	88	98	108	118	128

Dimensions



	2-valve	3-valve	4-valve	5-valve	6-valve	7-valve	8-valve
L1	92	102	112	122	132	142	152
L2	72	82	92	102	112	122	132
L3	62	72	82	92	102	112	122
L4	41.2	51.8	61.8	71.8	81.8	91.8	101.8

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	L1	L2	L3	L4	L5	L6	D1	D2	D3	D4	D5
2-valve	49.5	42.5	70	63	15	10	M7	G1⁄8	G1⁄4	M7	M4
4-valve	69.5	62.5	1								
6-valve	89.5	82.5									
8-valve	109.5	102.5									



	L1	L2	L3	L4	L5	L6	D1	D2	D3	D4
2-valve	74	62	73	40	15	10	M7	G1⁄8	G1⁄4	M5
4-valve	94	82								
6-valve	114	102								
8-valve	134	122								

Flanged pneumatic multiple connector plate

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Technical data

8-valve



Pneumatic multiple connector plate for control cabinet installation, with supply ports

68

109.5



	L1	L2	L3	B1	B2	B3	D1	D2	D3	D4	H1
2-valve	82	62	10	84	64	10	M7	M5	G1⁄4	G1⁄8	15
4-valve	102	82									
6-valve	122	102									
8-valve	142	122									

Valve terminals type 10 CPV10-EX-VI, Compact Performance Technical data



Additional function - One-way flow control valve



separately

Туре	B1	D1	D2	H1	H2	L1	L2	L3
CPV10-BS-2xGRM7	9.9	M7	M2.5	26	6	55.8	41.4	22.9
CPV10-BS-2xGRZ-VM7							-	

Ordering data						
	Code	Valve function	Part No.	Туре		
Individual sub-base v	alve size 10)				
€ ton	М	5/2-way valve,	550696	CPV10-M1H-5LS-M7-B-EX		
		single solenoid,				
		piston spool valve				
	J	5/2-way valve,	550697	CPV10-M1H-5JS-M7-B-EX		
A Star		double solenoid,				
		piston spool valve				
	Ν	2x 3/2-way valve,	550698	CPV10-M1H-2x3-OLS-M7-B-EX		
		normally open,				
		piston spool valve				
	С	2x 3/2-way valve,	550700	CPV10-M1H-2x3-GLS-M7-B-EX		
The second se		normally closed,				
		piston spool valve				
	CY	2x 3/2-way valve,	553261	CPV10-M1H-2x3-GLS-Y-M7-B-EX		
		normally closed,				
		integrated back pressure protection, piston spool valve				
	Н	2x 3/2-way valve,	550699	CPV10-M1H-30LS-3GLS-M7-B-EX		
		1x normally open, 1x closed,				
		piston spool valve				
	D	2x 2/2-way valve,	550701	CPV10-M1H-2x2-GLS-M7-B-EX		
		normally closed,				
		piston spool valve				
	1	2x 2/2-way valve,	550702	CPV10-M1H-20LS-2GLS-M7-B-EX		
		1x normally open, 1x closed,				
		piston spool valve				

Ordering data							
	Code	Designation		Part No.	Туре		
Function block	÷	·		÷			
	G	Valve kit for 5/3-way valve function, closed		176055	CPV10-BS-5/3G-M7		
		(in combination with valve slice C) for size 10					
		·					
Separator plates							
$\langle \rangle$	Т	Separator plate, duct 1/11 closed		161369	CPV10-DZP		
	<u> </u>						
	5	Separator plate, duct 1/11, 3/5 closed		1/86/8	CPV10-DZPR		
Blanking plate							
	L	Blanking plate		161368	CPV10-RZP		
		0.1					
Additional functions f	or valve pos			40/4/0			
	P	One-way flow control valve, 2x supply air		184140	CPV10-BS-2XGRZZ-M7		
	Q	One-way flow control valve, 2x exhaust air		184141	CPV10-BS-2XGRAZ-M7		
Pneumatic multiple co	onnector pla	ate					
	Μ	Pneumatic multiple connector plate,	2-valve	161969	CPV10-VI-P2-M7		
		for wall/machine mounting,	4-valve	161970	CPV10-VI-P4-M7		
		without side flange	6-valve	161971	CPV10-VI-P6-M7		
			8-valve	163893	CPV10-VI-P8-M7		
0	Р	Pneumatic multiple connector plate,	2-valve	152420	CPV10-VI-P2-M7-B		
		for wall/machine mounting,	4-valve	152421	CPV10-VI-P4-M7-B		
		with side flange	6-valve	152422	CPV10-VI-P6-M7-B		
			8-valve	152423			
	GQC	Pneumatic multiple connector plate with sealing ring,	2-valve	538807			
		for control cabinet assembly,	4-valve	538808			
		with supply ports	6-valve	538809			
	COD		8-valve	538810			
	GUD	for control cabinot accombly	Z-valve	536611			
		ior control cabilier assembly,	4-valve	538812			
			0-valve	520015	CFV10-VI-P0-W1/-D		
	COF	Description multiple connector plate with coaling size	o-valve	550014			
	UQE	for control cabinot accombly		566710	CFV10-VI-PZ-7/8-C		
		with all ports	4-valve	566711	CF V 10-VI-P6-1/2-C		
		with all poils	0-valve	500/11	CDV10 VI D9 1/2 C		
1	1		o-valve	200/12	CF V 10-VI-FO-78-C		

Ordering data									
	Code	Designation		Part No.	Туре				
Inscription labels									
	-	6x10 mm in frames, 64 pieces		18576	IBS 6x10				
- Aler									
Mounting attachments	S								
	н	Attachment for H-rait		162556	CPV10/14-VI-BG-NKH-35				
	U	Attachment for wall mounting		189541	CPV10/14-VI-BG-RWL-B				
400 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -	X	Attachment for individual connection		165801	CPV10-VI-BG-ET200X				
Manual override									
P	-	Locking clip (for manual override), non-detachable		526203	CPV10/14-HS				
	V	Locking clip (cover for manual override)		530055	CPV10/14-HV				
Cable for individual co	onnection, e	lectrical							
	-	Plug socket with cable	0.5 m	550324	KMYZ-4-0,5-B-EX				
	-		2.5 m	550481	KMYZ-4-2,5-B-EX				
	-		5.0 m	550482	KMYZ-4-5,0-B-EX				
	•		•	•					
Blanking plug	T								
1 A A A A A A A A A A A A A A A A A A A	-	Blanking plug		3843	B-M5				
				174309	B-M7				
				3568	B-1/8				
Push-in fitting	1			1	00.1/ 0.1				
	-	Push-in fitting		153015	US-1/8-8-1				
6				153317	QSM-M5-6-I				
				153321	QSM-M7-6-I				
Silencer	1			Line					
	-	Silencer		4645	U-M5				
				6842	U-1/4-B				
				6843	U-3/8-B				
				161418	UC-M7				
Manual	1			1					
	-	CPV Pneumatics Manual	German	547039	P.BE-CPV10-EX-VI-DE				
			English	547040	P.BE-CPV10-EX-VI-EN				
			French	547041	P.BE-CPV10-EX-VI-FR				
			Italian	547042	P.BE-CPV10-EX-VI-IT				
			Spanish	547043	P.BE-CPV10-EX-VI-ES				
			Swedish	547044	P.BE-CPV10-EX-VI-SV				