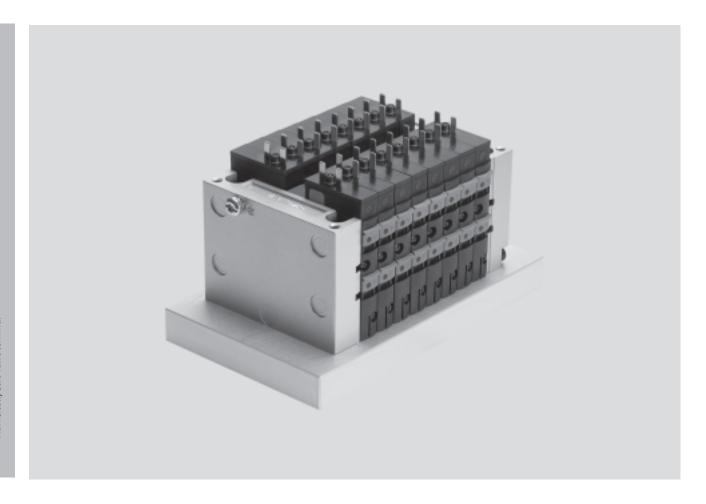




FESTO



Innovative

- Cubic design for exceptional performance and low weight
- Sturdy
- Optimized 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-fold function in each slice
- Flexible and cost-effective connection of two to eight valve slices
- Highly flexible thanks to:
 - various pneumatic functions (valve variants)
 - different pressure ranges
- Separator plates for the formation of pressure zones
- · Blanking plates for future expansion

Reliable

- Manual valve overrides
- Protection class to IP65 in 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

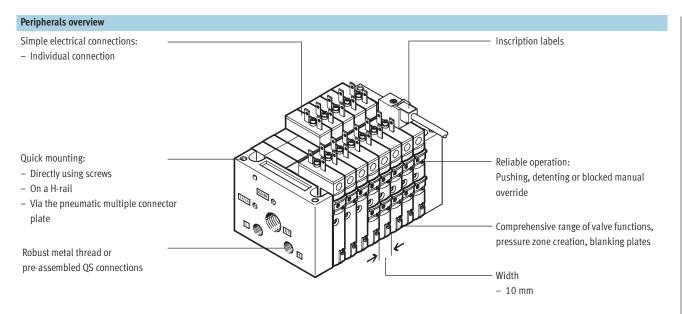
- Ready-to-install unit, pre-assembled and tested
- Lower cost of selection, ordering, installation and commissioning
- Secure wall mounting or H-rail mounting
- Pneumatic multiple connector plate - fast replacement of the valve block without the need to replace the existing tubing connections
- Valve assembly optimised for control cabinets

-⊙- New

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

FESTO

Key features



Equipment options

Valve functions

- 5/2-way single pilot valve
- 5/2-way double pilot valve
- 2x 3/2-way valve, normally open
- 2x 3/2-way valve, normally closed
- 2x 3/2-way valve, 1x normally open, 1x closed
- 5/3-way valve¹⁾
- 2x 2/2-way valve, normally closed
- 2x 2/2-way valve, 1x normally open, 1x closed

Special features

Individual connection

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

Intrinsically safe

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

Pneumatic multiple connector plate for wall opening facilitates installation in control cabinets, seal to IP65.

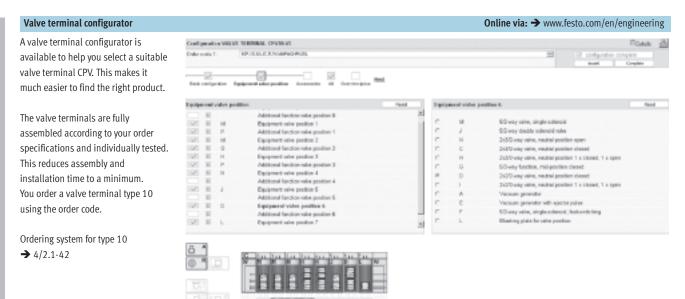
Operation

Actuation only via intrinsically safe circuit with individual valve connec-

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



Key features



The illustration above provides an example of a valve terminal configuration.

The following steps explain how you arrive at the order code:

Once you have called up the Festo home page (www.festo.com), click on "Automation" and select the online version of the digital product catalogue from the "Products" submenu; this will take you directly to the home page of the catalogue. Click in the "Search" box next to "Products".

You can enter a "Part No." (e.g. 539506), "Type" (e.g. CPV10) or "Article Designation" (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).

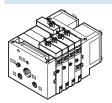
Open the basket and click on the symbol "Configurable". You can then configure the valve terminal step by step (from the top down) according to your requirements. Select the "Finish" menu to continue on with the ordering process.



Key features

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 facilitates 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 may only be operated in suitable intrinsically safe circuits.

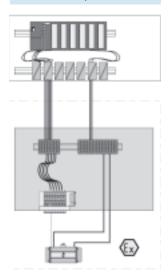
In process engineering, valves for pilot control of process valves are frequently installed in the control cabinet. The pneumatic multiple connector plate type CPV10-VI-...-M7-C or -D for control cabinets simplifies the installation of the pneumatic connections. Instead of multiple bulkhead fittings and pipe connections, installation can be performed 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 the control cabinet in Zones 1 and 21 (ATEX Category 2 GD).



Key feature

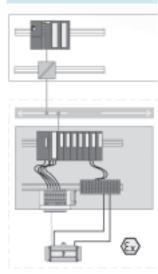
Certification	
(€ (Ex)	In accordance with EU directive 94/9/EC (ATEX directive) Use in hazardous locations II 2 G Ex ib IIc T5 $-5^{\circ}\text{C} \leq \text{Ta} \leq 50^{\circ}\text{C}$

CPV use in Zone 1/2



Intrinsically safe valve terminal in the control cabinet. Control via multi-core connecting cable.

CPV use in Zone 1/2



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



Key feature

What does ATEX mean?

Explosive atmospheres are a constant hazard in the chemical and petrochemical industries because of the processing techniques used. These explosive atmospheres are caused by escaping gas, vapours and mist, for example. Explosive atmospheres must also be considered in mills, silos and

sugar and feed processing plants because of the dust/oxygen mixtures that occur there. For this reason, electrical equipment in hazardous areas is subject to a special directive, ATEX 95a. This directive was also extended to non-electrical equipment on July 1, 2003.

What does ATEX 95a stand for and what 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 nonelectrical equipment.

What are the main amendments introduced by directive 94/9/EC?

- 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 specific categories. These categories are allocated zones in which the equipment can be operated.
- 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 all other hazardous areas.
- It applies to complete protective systems.

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



Key feature

CPV - The benefits at a glance

The CPV valve terminal is of unique design. It permits the flexible combination of pneumatic performance, electrical connection technologies and a wide range of mounting options. The pneumatic multiple connector in particular can be fitted in a control cabinet thereby saving space. The valve terminal can often be fitted directly in the previously unused wall area of the control cabinet. It is not necessary to wire the valves inside the

control cabinet. All tubing connections can be laid outside. Instead of individual holes, the pneumatic multiple connector requires only a rectangular cutout. The generously sized flow ducts and powerful flat plate silencers ensure high flow rates. This means that even comparatively large pneumatic cylinders can be driven with ease.

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 moving installation. However robustness must not be

sacrificed in favour of compactness. The connecting thread and mounting attachments are metallic. 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

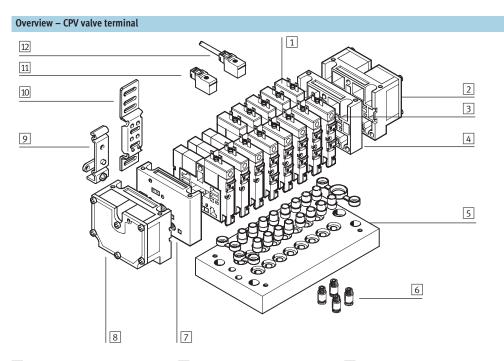
The cubic design provides a clearly assigned function on each side. Thus, for example, the electrical connection is mounted on the top surface.

The different combination options ensure the optimum solution for the task at hand.

- Pneumatic supply connections on the left, right or underneath
- Pneumatic working ports and functional modules (vertical stacking) underneath
- Manual operation from the front
- Electrical connection surface on the
- Mounting surface on the back or even on the front via a pneumatic multiple connector plate

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Peripherals overview



- 1 Basic electrical unit (individual connection)
- 2 Right-hand end plate with flat plate silencer
- 3 Valve slice
- 4 Right-hand end plate (threaded connections not in combination with pneumatic multiple connector plate)
- 5 Pneumatic multiple connector plate
- 6 QS push-in fittings
- 7 Left-hand end plate (threaded connections not in combination with pneumatic multiple connector plate)
- 8 Left-hand end plate with flat plate silencer
- 9 H-rail mounting
- 10 Wall mounting
- 11 Plug socket for self-assembly
- 12 Plug socket with cable



Key features – Pneumatic components

Valves

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

the working ports. The supply ducts are a central part 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.

Valve	function		
Code	Circuit symbol	Size	Description
		10	
M	14 4 2 14 84 5 1 3 12	-	5/2-way single pilot valve • Pneumatic spring return • For controlling double-acting cylinders or processing drives
J	14 4 2 12 14 84 5 1 3 12	•	5/2-way double pilot valve For controlling double-acting cylinders or processing drives When the current is switched off, the pneumatic switch position is maintained
С	14 82/84 1 12 11 3/5	-	2x 3/2-way single pilot valve Normally closed Pneumatic spring return For controlling single-acting cylinders
N	14 82/84 1 12 11 3/5	-	 2x 3/2-way single pilot valve Normally open Pneumatic spring return The function of a 5/3-way valve pressurised in mid-position can be realised with these valves in the open initial position
Н	14 82/84 1 12 11 3/5	•	2x 3/2-way single pilot valve Normal position 1x open (pilot control 12) 1x closed (pilot control 14) For optimised cylinder movement. Corresponds to valve function M with simultaneous actuation of both solenoid coils (5/2-way, single pilot). Since the piston area on each side can be pressurised or exhausted separately, it means that the cylinder can move faster Pneumatic spring return

-O- New

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

FESTO

Valve f	Valve function						
Code	Circuit symbol	Size	Description				
		10					
	82/84		5/3G function ¹⁾ , mid-position closed The valve function "mid-position closed" is created from a 2x 3/2-way valve, normally closed (code C). The valve kit CPV10-BS-5/3G-M7 (which incorporates 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 there are different pressure levels at port 1 and 11). 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 channel 1 and 11 by means of a separator plate (code T). Not in first or last valve position. ²⁾				
	14 82/84 1 12 11 3/5	-	5/3E function, mid-position exhausted The valve function "mid-position exhausted" is created from a 2x 3/2-way valve, normally closed (code C). • Pneumatic spring return				
	110 110 14 82/84 1 12 11 3/5	•	5/3B function, mid-position pressurised The valve function "mid-position pressurised" is created from a 2x 3/2-way valve, normally open (code N). • Pneumatic spring return				
D	14 82/84 1 12 11	•	2x 2/2-way single pilot valve Normally closed Pneumatic spring return				
1	14 82/84 1 12 11		2x 2/2-way single pilot valve Normal position 1x open 1x closed Control side 14 normally closed Control side 12 normally open Pneumatic spring return				

- Cannot be mounted in combination with the pneumatic multiple connector plate CPV10-VI-P...-C or CPV10-VI-P..-D for control cabinets
 Pneumatic multiple connector plate P, M: Not in first or last valve position Pneumatic multiple connector plate GQC, GQD: Cannot be used

3.4

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

FESTO

Addition	lditional pneumatic functions					
Code	Circuit symbol	Size	Description			
		10				
Р	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)			
Q	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)			

- 🖺 - Note	
Pneumatic multiple connector plate	Pneumatic multiple connector plate
P, M:	GQC, GQD:
Not in first or last valve position.	Cannot be used.



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Key features – Pneumatic components

Creating pressure zones

Different pressures at port 1 and 11 result in two pressure levels per valve. This means, for example, that a cylinder drive can be extended with high pressure and retracted with 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

You can divide the CPV valve terminal into 2 to 4 pressure zones by using separator plates.

Separ	ator plates		
Code	Graphical symbol	Size	Note
		10	
Т	Separator plate (for creation of pressure zones), supply duct 1 separated Pilot exhaust air Pilot air supply Exhaust air Supply air Supply air Pilot exhaust air Pilot exhaust air Supply air Pilot exhaust air Supply air	-	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 creation of pressure zones), supply duct 1 and exhaust 3/5 separated Pilot exhaust air Pilot air supply Exhaust air Supply air Supply air Supply air Supply air	•	The separator plate (code S) interrupts the exhaust duct 3/5 as well as the supply duct 1 and 11. This plate should be used if one of the pressure zones is under vacuum to avoid any effects on the vacuum or to prevent backpressure 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 Supply air 1 Supply air 11	•	A vacant position is formed by using a blanking plate (code L) and a valve can be positioned here at a later date.

FESTO

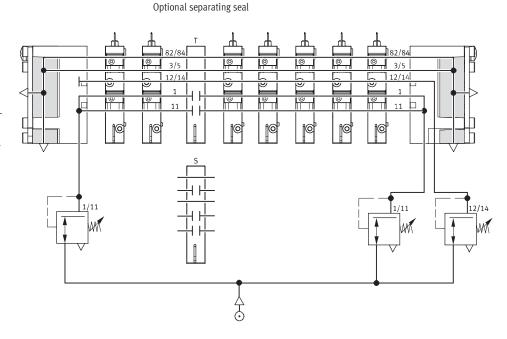
Key features - Pneumatic components

Examples: Pneumatic supply

External pilot air supply, flat plate silencer at both ends

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



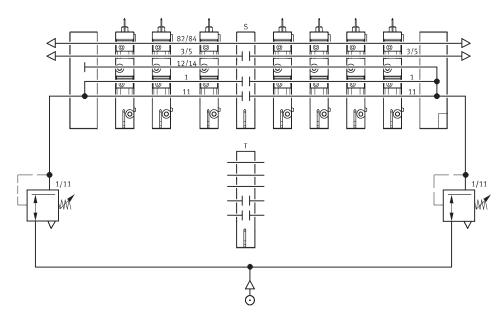
Internal pilot air supply, ducted exhaust air or screw-in silencer

Pneumatic 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. Here the pilot supply air is branched from port 1 or 11 via the right-hand end plate. Ports 3/5 and 82/84 are vented via the screw-in silencer.

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

Optional separating seal



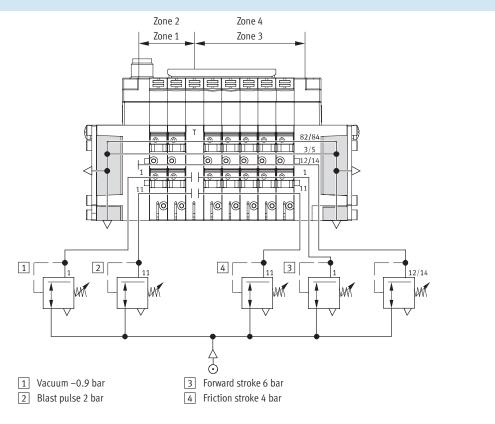


Key features – Pneumatic components

Example: Creation of pressure zones

CPV with separator plate T

The valve terminal CPV facilitates the creation of up to 4 pressure zones. 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 which supply the valve slices with pressure and exhaust them 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 or combinations of vacuum applications.

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:

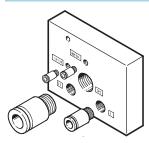
An internal pilot air supply can be selected if the supply pressure at pneumatic connection 1 is 3 ... 8 bar. The branch is located in the left-hand or right-hand end plate with an internal pilot air supply. There is no port 12/14.

External pilot air supply:

An external pilot air supply is required if the supply pressure at pneumatic connection 1 is ≤3 bar or ≥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 soft-start valve is required, an external pilot air supply should be selected so that the control pressure applied during switch-on is already very high.

End plates



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

supplied as screwed connections or with silencers. Ports 12/14 and 11 are not provided on end plates used for internal pilot air supply.

Port 82/84 is always present and should be fitted with a silencer. Port 12/14 is internally connected via port 1.

FESTO

End pla	ate 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 82/84 12/14 11 11	-	Ports in right-hand end plate only No pressure zone separation permissible
V	Internal pilot air supply		B Doute in left hand and plate only
V	82/84 3/5 12/14 P	•	Ports in left-hand end plate only No pressure zone separation permissible
W	External pilot air supply 82/84 12/14 11 11	•	Ports in right-hand end plate only No pressure zone separation permissible
Χ	External pilot air supply		Ports in left-hand end plate only
	82/84 3/5 12/14 11	•	No pressure zone separation permissible
Υ	Internal pilot air supply		Ports in left-hand and right-hand end plate
	82/84 3/5 12/14 11	•	Max. 3 pressure zones Valves to the left of the separator plate suitable for vacuum
Z	External pilot air supply 82/84 12/14 11 11	•	Ports in left-hand and right-hand end plate Max. 4 pressure zones

FESTO

End pl	nd plate combination for compressed air supply via pneumatic multiple connector plate				
Code	Graphical symbol	Size	Note		
	Type of pilot air supply (internal/external)	10			
Y	Internal pilot air supply 82/84 3/5 12/14 11		 Ports on pneumatic multiple connector plate Pressure zone separation only permissible with separator plate (code T) Max. 2 pressure zones Valves to the left of the separator plate suitable for vacuum Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate) 		
Z	External pilot air supply 82/84 3/5 12/14 11 11	•	 Ports on pneumatic multiple connector plate Pressure zone separation only permissible with separator plate (code T) Max. 3 pressure zones Suitable for vacuum Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate) 		

Code	Graphical symbol	Size	Note
	Type of pilot air supply (internal/external)	10	
A	Internal pilot air supply 82/84 3/5 12/14 11 1	-	 Ports in right-hand end plate No pressure zone separation permissible
В	Internal pilot air supply 82/84 3/5 12/14 11 1		Ports in left-hand end plate No pressure zone separation permissible
	External pilot air supply 82/84 3/5 12/14 11 1		Ports in right-hand end plate No pressure zone separation permissible
)	External pilot air supply 82/84 3/5 12/14 11 1	-	Ports in left-hand end plate No pressure zone separation permissible

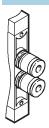


End pla	ate combination for compressed air supply via pneumatic multiple connector plate with flat	plate silencer	
Code	Graphical symbol	Size	Note
	Type of pilot air supply (internal/external)	10	
Е	External pilot air supply 82/84 3/5 12/14 11 1	•	 Ports on pneumatic multiple connector plate Exhaust air vented via flat plate silencers at right Pressure zone separation only permissible with separator plate (code T) Max. 4 pressure zones Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)
F	External pilot air supply 82/84 3/5 12/14 11	•	 Ports on pneumatic multiple connector plate Exhaust air vented via flat plate silencers at left Pressure zone separation only permissible with separator plate (code T) Max. 4 pressure zones Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)
G	Internal pilot air supply 82/84 3/5 12/14 11 1	•	 Ports on pneumatic multiple connector plate Exhaust air vented via flat plate silencers at left Pressure zone separation only permissible with separator plate (code T) Max. 3 pressure zones Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)
Н	External pilot air supply 82/84 3/5 12/14 11	•	 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 82/84 3/5 12/14 11	•	 Ports on pneumatic multiple connector plate Exhaust air vented via flat plate silencers at both ends Pressure zone separation permissible Max. 3 pressure zones Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)
К	Internal pilot air supply 82/84 3/5 12/14 11 1	•	 Ports on pneumatic multiple connector plate Exhaust air vented via flat plate silencers at right Pressure zone separation permissible Max. 3 pressure zones Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)



Key features - Pneumatic components

Pneumatic connection



The working ports are located directly in the valve slices. Threaded connections 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 ports can be selected:

- Large push-in fittings: code A
- Small push-in fittings: code B
- Threaded connections: code C Connection sizes for the threaded and QS push-in fittings can be found in the table below.

Pneumatic multiple connector plate

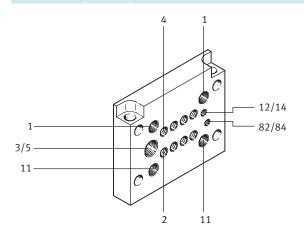
One-piece sub-bases which contain both working ports and supply ports are available in combination with a pneumatic multiple connector plate. These sub-bases enable the valve terminal as a pneumatic "function" to be separated from the tubing connections.

The pneumatic multiple connector plate facilitates different mounting options from wall mounting to direct passage through a housing wall.

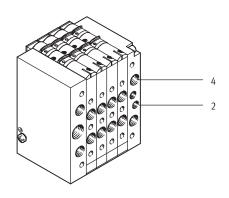
Easy-to-service and flexible connection technology thanks to the following:

- Common connection via the pneumatic multiple connector plate with all connections on one side
- The valve terminal can be removed/ fitted using only 4 screws, while the pneumatic components remain fully connected
- Quick removal/fitting
- No faults when recommissioning as a result of incorrect connection of

Pneumatic multiple connector plate



CPV valve terminal



Connec	Connection sizes				
Connec	tion to ISO 5599	CPV10	Remarks		
1/11	Supply air	G½8	Fitting in end plate or pneumatic multiple connector plate		
2/4	Working port	M7 (QS6/QS4)	Connection in valve slice, connection for push-in fitting in brackets		
3/5	Exhaust air via right-hand/left-hand end plate or	G3/8			
	pneumatic multiple connector plate	G ¹ / ₄			
12/14	Pilot air supply port	M5			
82/84	Pilot exhaust air via right-hand/left-hand end plate or	M5			
	pneumatic multiple connector plate	M7 (M5) ¹⁾			

1) With pneumatic multiple connector plate with flange



eumatic connection: Fit	Pneumatic	Connection	Designation	Size 10						
	supply code		0	QS6						
	Supply code			Type						
	Without pneum	atic multiple connec	tor plate	Nr.						
	U, V	82/84 Silencer		U-M5						
	-, -	3/5	Silencer	U-3/8-B						
		1	Push-in fitting	QS-1/8-8-I						
			0	St. 77. 1						
•	W, X	82/84	Silencer	U-M5						
		3/5	Silencer	U-3/8-B						
		1	Push-in fitting	QS-1/8-8-I						
		12/14	Push-in fitting	QSM-M5-6-I						
			- 1							
	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-I						
	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-I						
	With pneumatic multiple connector plate code: M									
	Y	82/84	UC-M7							
	'	12/14	Silencer Blanking plug	B-M7						
		3/5	Silencer	U-1/4-B						
		1/11 on left	Push-in fitting	QS-1/8-8-I						
		11 on right	Blanking plug	B-1/8						
		TT OH HIGHT	Statisting prag	5 76						
	Z	82/84	Silencer	UC-M7						
		3/5	Silencer	U-1/4-B						
		12/14	Push-in fitting	QSM-M7-6-I						
		1/11 on left	Push-in fitting	QS-1/8-8-I						
				<u> </u>						
	With pneumation	multiple connector	plate code: P, GQC							
	Υ	82/84	Silencer	U-M5						
		12/14	Blanking plug	B-M5						
		3/5	Silencer	U-1/4-B						
		1/11 on left	Push-in fitting	QS-1/8-8-I						
		11 on right	Blanking plug	B-1/8						
	Z	82/84	Silencer	U-M5						
		3/5	Silencer	U-1/4-B						
		12/14	Push-in fitting	QSM-M5-6-I						
		1/11 on left	Push-in fitting	QS-1/8-8-I						

Application-optimised valve terminals Intrinsically safe valve terminal

3.4

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

FESTO

Pneumatic connection: Fitting	set for pneumatic s	upply		
	Pneumatic supply code	Connection	Designation	Size 10 QS6 Type
		ic multiple connector		
	А, В	82/84	Blanking plug	B-M5
		3/5	Blanking plug	B-3/8
		1	Push-in fitting	QS-1/8-8-I
a Dec	C, D	82/84	Blanking plug	B-M5
		3/5	Blanking plug	B-3/8
		1	Push-in fitting	QS-1/8-8-I
		12/14	Push-in fitting	QSM-M5-6-I
	With pneumatic r	 nultiple connector pla	ate code: M	
	E, F, H	82/84	Blanking plug	B-M7
		3/5	Blanking plug	B-1/4
		1/11	Push-in fitting	QS-1/8-8-I
		12/14	Push-in fitting	QSM-M7-6-I
	G, J, K	82/84	Blanking plug	B-M7
		3/5	Blanking plug	B-1/4
		on right in 1, left	Push-in fitting	QS-1/8-8-I
		on right in 11	Blanking plug	B-1/8
		12/14	Blanking plug	B-M7
	With pneumatic r	 	ate code: P, GQC	
	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-I
		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-I
		on right in 11	Blanking plug	B-1/8
		12/14	Blanking plug	B-M5



Key features - Pneumatic components

CPV valve terminal size 10 with valve extensions

Function blocks



CPV10-BS-5/3G-M7

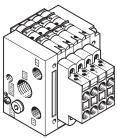
Valve kit 5/3G for creating a 5/3-way function, mid-position closed, for size 10:

The valve function "mid-position closed" is created from a valve slice with 2x 3/2-way valve, normally closed (valve function code C).

The valve kit CPV10-BS-5/3G-M7 (which incorporates 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 may not be used in dual-pressure applications (where there are different pressure levels at port 1 and 11).

Additional functions for valve positions



2x one-way flow control valve for supply air flow control



Additional function code P

CPV10-BS-2xGRZZ-M7

These valve extensions (vertical stacking) can be used to add further pneumatic functions to CPV valve terminals size 10:

- Two one-way flow control valves for flow regulation directly at the valve terminal for
 - supply air flow control
 - exhaust air flow control

The additional functions cannot be used in the first or last valve position in combination with the pneumatic multiple connector plate.

2x one-way flow control valve for exhaust air flow control Additional function code Q



CPV10-BS-2xGRAZ-M7



Key features - Mounting

Mounting options

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

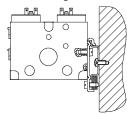
There are other mounting options in addition to this mounting method:

- H-rail mounting
- Wall mounting
- Wall mounting via flanged pneumatic multiple connector plate
- On rear side via wall mounting
- On front side
- 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.

Examples of mounting options

H-rail: Mounting code H



for valve terminal CPV10: CPV10/14-VI-BG-NRH-35 (mounting code H)



for valve terminal CPV10: CPV10/14-VI-BG-RWL-B (mounting code U)



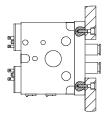
H-rail to EN 60715 not for accessories

(pneumatic multiple connector plate)

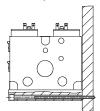


Wall mountings

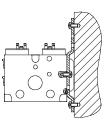
Through-hole in wall, for example on the machine



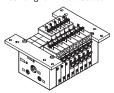
Wall mounting via pneumatic multiple connector plate



Attachment for wall mounting



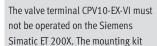
Mounting for individual connection (mounting code X)



for valve terminal CPV10



Note



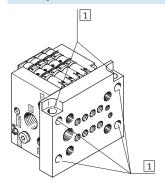
may only be used for front mounting of the valve terminal.



Key features - Mounting

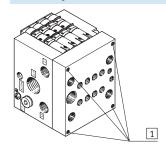
Pneumatic multiple connector plate for wall/machine mounting

with flange, code P



- Multiple connector plate projects past the end plates
- Through mounting holes (without thread) in the flange
- Two additional holes running crossways through this multiple connector plate also facilitate rear mounting of the CPV valve terminal

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

• Multiple connector plate fits flush

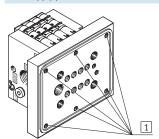
• The mounting holes (with thread) are on the connection side of the

1 Mounting holes

Pneumatic multiple connector plate for control cabinet assembly

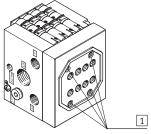
with supply ports, code GQC

1 Mounting holes



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

without supply ports, code GQD



pneumatic multiple connector plateMultiple connector plate with seal

with the end plates

1 Mounting holes

- 🛔 -

Note

1 Mounting holes

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

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

Pneumatic multiple connector plate GQC, GQD: Cannot be used.

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Key features – Display and operation

Manual override

Three types of manual override are available:

- Non-detenting
- Detenting
- Blocked

A subsequent conversion of the manual override (MO) from non-detenting (pushing) to detenting or blocked is possible at any time.

The locking clip on the valve must be $% \left\{ \left(1\right) \right\} =\left\{ \left(1\right) \right\} =\left\{$ 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.



See the user documentation for instructions.

Code	Graphical symbol	Size 10	Note
N	Manual override, non-detenting		In the non-detenting ("pushing") version, the blue slide is held via a locking clip. A pointed object (e.g. pen, etc.) can be used to activate the MO through the opening.
R	Manual override, detenting		In the "detenting" version, the manual override is activated by pushing the slide down. The pushing 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 MO 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

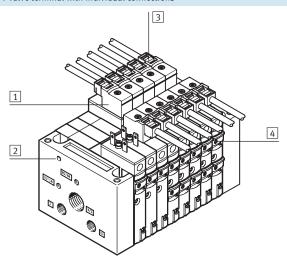
FESTO

Display and operation

Inscription labels

• Clip with identification field on the cable socket

CPV valve terminal with individual connections



- 1 Pre-assembled connecting cable for each solenoid coil
- 2 Earth terminal
- 3 Inscription label (for each connection socket)
- 4 Manual override



Key features – Electrical components

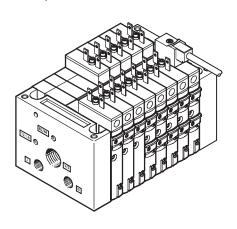
Electrical connection

Individual connection

The corresponding individual connecting cables are generally designed without an LED. Plug sockets for selfassembly can also be ordered.

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.

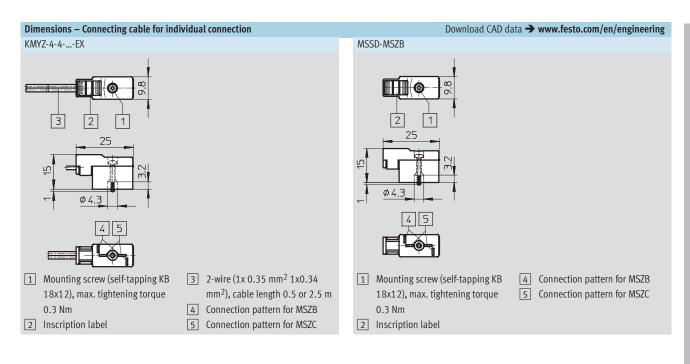


2 to 16 solenoid coils (divided between 2 ... 8 valve slices) can be selected, odd numbers also possible. The pneumatic multiple connector plate can only be used with even numbers.

Ordering data					
	Code	Designation		Туре	Part No.
Plug socket with o	cable				
	-	Plug socket with cable	0.5 m	KMYZ-4-0,5-B-EX	550 324
	-		2.5 m	KMYZ-4-2,5-B-EX	550 481
	-		5.0 m	KMYZ-4-5,0-B-EX	550 482
	•	·	•	•	•
Plug socket for va	llves				
	-	Plug socket for self-assembly		KMYZ-4-0,0-B-EX	550 806
	•	·	•		
Inscription label					
		Inscription label		ISB 6x10	18 576



Key features – Electrical components



Intrinsically safe valve terminal

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

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Instructions for use

Equipment

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

The quality of compressed air downstream from the compressor must correspond to that of unlubricated compressed air. If possible, do not operate all of your equipment with lubricated compressed air. The lubricators should, where possible, always be installed directly upstream of the actuator used.

Incorrect additional oil and too high an oil content in the compressed air reduces the service life of a valve terminal.

Use Festo special oil OFSW-32 or the alternatives listed in the Festo catalogue (as specified in DIN 51524-HLP32; basic oil viscosity 32 CST at 40 °C).

Bio-oils

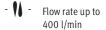
When using bio-oils (oils which are based upon synthetic or native ester, e.g. rapeseed oil methyl ester), the maximum residual oil content of $0.1\ mg/m^3\ must\ not\ be\ exceeded$ (see ISO 8573-1 Class 2).

Mineral oils

When using mineral oils (e.g. HLP oils to DIN 51524, parts 1 through 3) or similar oils based on poly-alphaolefins (PAO), the maximum residual oil content of 5 mg/m³ must not be exceeded (see ISO 8573-1 Class 4). A higher residual oil content irrespective of the compressor oil cannot be permitted, as the basic lubricant would be flushed out over time.

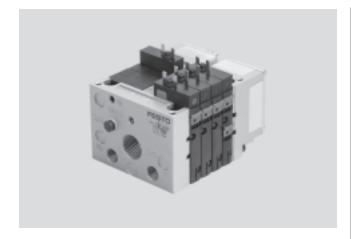
Valve terminals type 10 CPV10-EX-VI, Compact Performance Technical data

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

- **** - Voltage 24 V DC



General technical data		
		CPV10-EX-VI
Constructional design		Electromagnetically actuated piston spool valve
Lubrication		Lifetime lubrication, 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 (pushing)/detenting/blocked
Width	[mm]	10
Nominal diameter	[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	G3/8 (G1/4)
Working ports	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

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

Operating and environmental conditions								
Valve function order code		M	J	N	С	Н	D	I
Operating medium	Filtered comp	oressed air, lu	oricated or	unlubricated,	inert gases 👈	4/3.4-30		
Grade of filtration	[µm]	40 (average	pore size)					
Operating pressure,	[bar]	3 8						
internal pilot air supply								
Operating pressure,	[bar]	0 10						
external pilot air supply								
Pilot pressure	[bar]	3 8						
Ambient temperature	[°C]	-5 +50						
Temperature of medium	[°C]	-5 +50						
Storage temperature	[°C]	-20 +40						
Relative air humidity at 25 °C	[%]	90 with no co	ondensation					
Corrosion resistance class CRC ¹⁾		2						

1) Corrosion resistance class 2 to Festo standard 940 070 Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Valve response times [ms]								
Valve function order code		M	J	N	С	Н	D	I
Response times	on	17	-	17	17	17	15	15
	off	40	-	37	37	37	17	17
	change-	-	10	-	-	-	-	-
	over							

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 Vi	[DC]	32 V
Max. input current Ii	[A]	0.2
Max. input power P _i	[W]	0.76
Required current consumption with pilot pressure	[mA]	≥15.4
of 3 bar		
Effective internal inductance L _i	[µH]	≈0
Effective internal capacity C _i	[nF]	≈0
Resistance R ₂₀	[Ω]	920 ±5%
Power supply		Only from certified intrinsically safe circuits EEx ia IIC or ib IIC
Duty cycle	[%]	100
Explosion protection class		In accordance with EU explosion protection directive (ATEX)
		ATEX symbol II 2 G Ex ib II C T5
		ATEX ambient temperature −5 °C ≤ Ta ≤ +50 °C
Protection class to EN 60529	[IP]	40
	[IP]	65 with pneumatic multiple connector plate for control cabinets
Relative humidity	[%]	90%

1) **>** Page 4 / 3.4-6

Data on vibration and shock in accordance with 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				

Materials	
Valve slices	Die-cast aluminium
Valve module 5/3G	Cast aluminium, polyacetate
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

Application-optimised valve terminals Intrinsically safe valve terminal

3.4

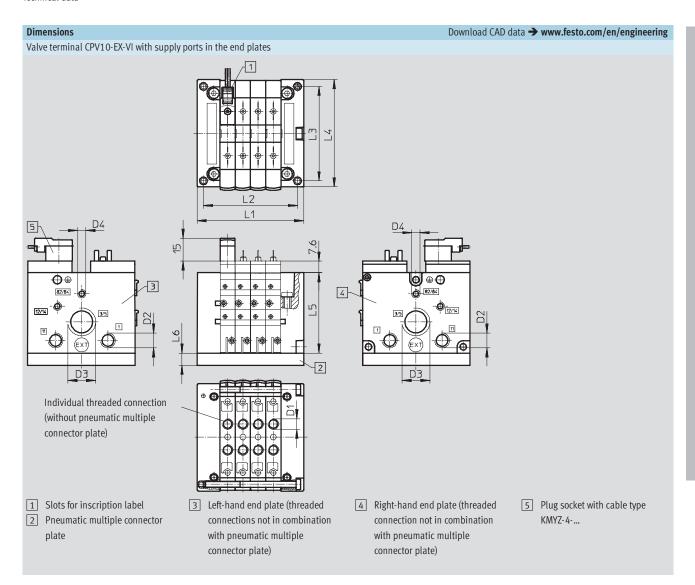
Valve terminals type 10 CPV10-EX-VI, Compact Performance Technical data

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Product weight	
Approx. weights [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 slice	65
Function block: 5/3G function	46
Function block: One-way flow control valves	25



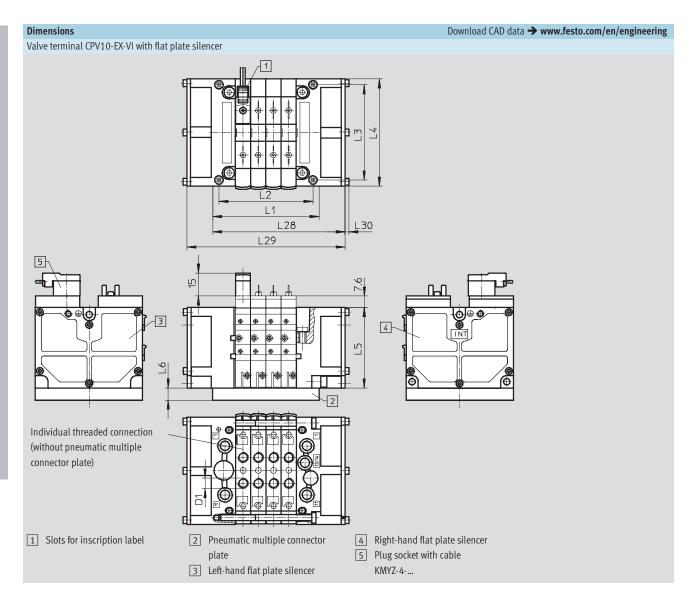
Technical data



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

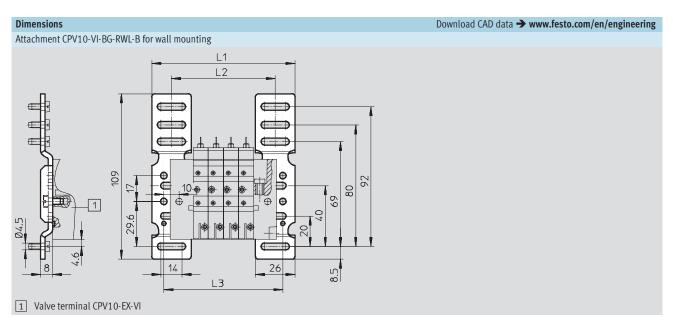
FESTO

Technical data

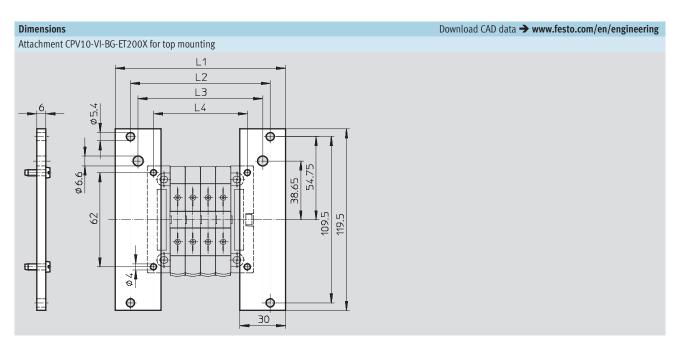


	L1	L2	L3	L4	L5	L6	L28	L29	L30	D1
2-fold	50	41.8	62	71	52.8	15	67	84	2.5	M7
3-fold	60	51.8					77	94		
4-fold	70	61.8					87	104		
5-fold	80	71.8					97	114		
6-fold	90	81.8					107	124		
7-fold	100	91.8					117	134		
8-fold	110	101.8					127	144		





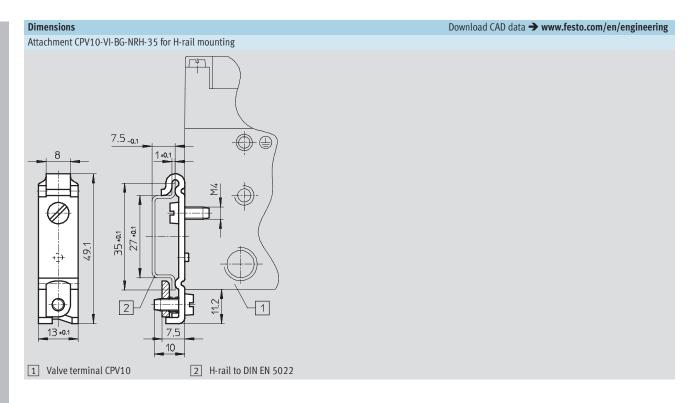
	2-fold	3-fold	4-fold	5-fold	6-fold	7-fold	8-fold
L1	74	84	94	104	114	124	134
L2	48	58	68	78	88	98	108
L3	58	78	88	98	108	118	128



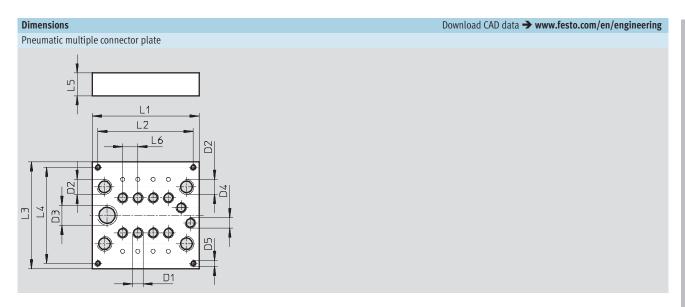
	2-fold	3-fold	4-fold	5-fold	6-fold	7-fold	8-fold
L1	92	102	112	122	132	142	152
L2	72	82	92	102	112	122	132
L3	62	72	82	92	102	112	122
L4	41.2	51.8	61.8	71.8	81.8	91.8	101.8

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

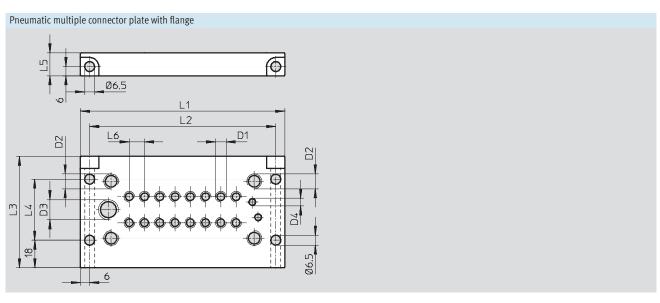
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	L1	L2	L3	L4	L5	L6	D1	D2	D3	D4	D5
2-fold	49.5	42.5	70	63	15	10	M7	G1/8	G1/4	M7	M4
4-fold	69.5	62.5									
6-fold	89.5	82.5									
8-fold	109.5	102.5									

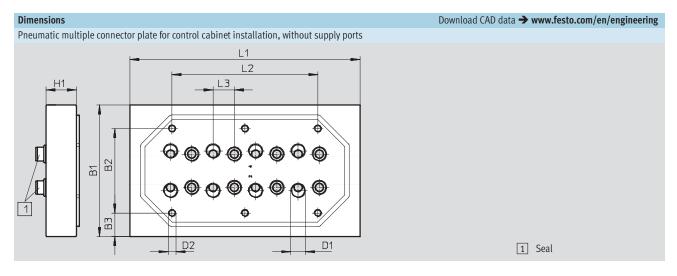


	L1	L2	L3	L4	L5	L6	D1	D2	D3	D4
2-fold	74	62	73	40	15	10	M7	G1/8	G1/4	M5
4-fold	94	82								
6-fold	114	102								
8-fold	134	122								

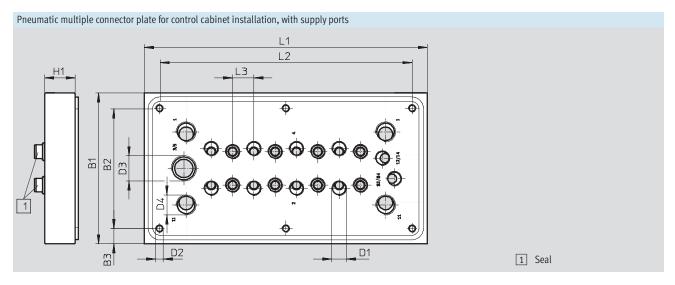
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Valve terminals type 10 CPV10-EX-VI, Compact Performance

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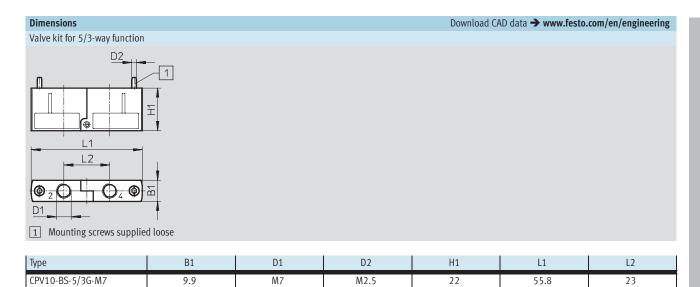


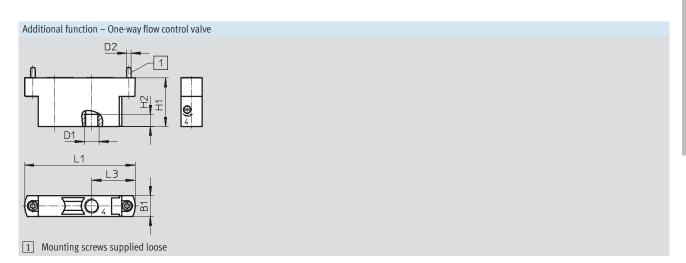
	L1	L2	L3	B1	B2	В3	D1	D2	H1
2-fold	49.5	-	10	70	40	15	M7	M5	10
4-fold	69.5	28							
6-fold	89.5	49							
8-fold	109.5	68							



	L1	L2	L3	B1	B2	В3	D1	D2	D3	D4	H1
2-fold	82	62	10	84	64	10	M7	M5	G1/4	G1/8	15
4-fold	102	82									
6-fold	122	102									
8-fold	142	122									

FESTO





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							_	

Valve terminals type 10 CPV10-EX-VI, Compact Performance — Individual connection Ordering data — Modular products

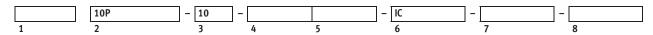
M Mandatory	data						→
Module No.	Valve terminal, pneumatic part	Size	No. of valve positions	Working ports	Electrical connection	Manual override	Pneumatic supply
539 506	10P	10	2 8	A, B, C	IC	N, R, V	U, V, W, X, Y, Z, A, B, C, D, E, F, G, H, J, K
Ordering example 539 506	10P	- 10	- 8	С	- IC	- N	- U
1	2	3	4	5	6	7	8

Ord	derir	ng table				
Siz	e		10	Condi-	Code	Enter
	_			tions		code
M	1	Module No.	539 506			
	2	Valve terminal, pneumatic part	Valve terminal type 10 CPV-EX-I		10P	10P
	3	Size	10		-10	-10
	4	No. of valve positions	2, 3, 4, 5, 6, 7, 8			
	5	Working ports	Large QS push-in connectors in working port			
			(QS6)		Α	
			Small QS push-in connectors in working port			
			(QS4)		В	
			Threaded working port			
			(M7)		С	
	6	Electrical connection	Individual electrical connection, explosion-proof		-IC	-IC
	7	Manual override	Non-detenting (pushing)		-N	
			Detenting		-R	
			Blocked		-V	
	8	Pneumatic supply	Internal pilot air supply, supply at right, ducted exhaust air		-U	
			Internal pilot air supply, supply at left, ducted exhaust air		-V	
			External pilot air supply, supply at right, ducted exhaust air		-W	
			External pilot air supply, supply at left, ducted exhaust air		-X	
		Compressed air supply	Internal pilot air supply, supply at both ends, ducted exhaust air		-Y	
		via end plates or				
		pneumatic multiple	External pilot air supply, supply at both ends, ducted exhaust air		-Z	
		connector plate				
		Compressed air supply	Internal pilot air supply, supply at right, flat plate silencer		-A	
		via end plates with flat	Internal pilot air supply, supply at left, flat plate silencer		-B	
		plate silencer	External pilot air supply, supply at right, flat plate silencer		-C	
			External pilot air supply, supply at left, flat plate silencer		-D	
		Compressed air supply	External pilot air supply, supply at both ends, flat plate silencer at right	1	-E	
		via pneumatic multiple	External pilot air supply, supply at both ends, flat plate silencer at left	1	-F	
		connector plate with flat	Internal pilot air supply, supply at both ends, flat plate silencer at left	1	-G	
		plate silencer	External pilot air supply, supply at both ends, flat plate silencers at both ends	1	-H	
			Internal pilot air supply, supply at both ends, flat plate silencers at both ends	1	-J	
Ψ			Internal pilot air supply, supply at both ends, flat plate silencer at right	1	-K	

1 E, F, G, H, J, K

Only with pneumatic multiple connector plate M, P, GQC, V as an accessory. Only with an even number of valve positions

Transfer order code



Valve terminals type 10 CPV10-EX-VI, Compact Performance − Individual connection

Ordering data – Modular products

	at valve position 0	1 7								
Lquipinein	at valve position t	, <i>1</i>								
Valve fu	ctions · M N C	I D I T S I								
9 Valve functions: M, J, N, C, H, D, I, T, S, L										
Ontions										
O Options										
_		one at proumatic va	ve position 0 7.	PO						
_		ons at pneumatic va	ve position 0 7:	: P, Q						
1	O Additional functi	ons at pneumatic va	ve position 0 7:	: P, Q						
_	O Additional functi		ve position 0 7:		-		-			
1	O Additional functi	ons at pneumatic va 2 M P	ve position 0 7:	4 M	5 M	6 M	7			

01	deri	ng table				
Si	ze		10	Condi-	Code	Enter
				tions		code
T		Equipment at valve position 0 7		2	-	-
Μ	9	Valve functions	5/2-way single pilot valve		M	Enter the
			5/2-way double pilot valve		J	pneu-
			2x 3/2-way valve, normally open		N	matic
			2x 3/2-way valve, normally closed		С	equip-
			2x 3/2-way valve, 1x normally closed, 1x open		Н	ment se-
			2x 2/2-way valve, normally closed		D	lected in
			2x 2/2-way valve, 1x normally closed, 1x open		I	the order
			Plate with duct separation, 1/11 closed	3	Т	code
			Plate with duct separation, 1/11 and 3/5 closed	3 4	S	
			Blanking plate		L	
0	10	Additional function	2x one-way flow control valve, supply air		Р	
Ψ		at valve position 0 7	2x one-way flow control valve, exhaust air		Q	

4 **S**

2 Equipment at valve position 0 ... 7

Valve positions must be equipped throughout without any gaps

3 T, S Only one valve function T or S (plate with duct separation) possible per valve terminal, but not in first or last valve position and only with pneumatic supply Y, Z, E, F, G, H, J, K (supply air at both ends); the equipment to the right must consist of more than valve function \boldsymbol{L} (blanking plate)

If the equipment to the right of S consists solely of valve function D, I $(2x\ 2/2$ -way valve), L (blanking plate), then only with pneumatic supply Y, Z, F, G and pneumatic multiple connector plate M, P, GQC as an accessory





Valve terminals type 10 CPV10-EX-VI, Compact Performance — Individual connection Ordering data — Modular products

→	O Options	Mandatory data	O Opti	O Options									
	User documentation	EU certification (ATEX)	Acces- sories	Pneumatic multiple connector plate	Attachment	Connecting cable	Set of screws for end plates						
	D, E, I, S, F, V	EX3		M, P, GP, GQC, GQD, V	H, U	K,L,D,E	A						
-	E –	EX3	+	GP 13	U		A						

Or	derii	ıg table					
Size				10	Condi-	Code	Enter
					tions		code
T	11	User documentation	1	German		-D	
0				English		-E	
				Italian		-I	
				Spanish		-S	
				French		-F	
				Swedish		-S	
M	12	2 EU certification (ATEX)		26		-EX3	-EX3
0	13	Accessories				+	+
		Pneumatic multiple	connector plate	Standard pneumatic multiple connector plate	5 6	M	
				Special pneumatic multiple connector plate	5 6	P	
				Special multiple connector plate P with standard end plates	7	GP	
				Pneumatic multiple connector plate for control cabinets, all ports	5 8	GQC	
				Pneumatic multiple connector plate for control cabinets, working ports only	78	GQD	
	Attachment			Preparation for pneumatic multiple connector plate	5 9	٧	
				H-rail mounting	10	Н	
				Wall mounting	11	U	
			IP40, 0.5 m	1 99		K	
		-	IP40, 2.5 m	1 99		L	
		_	IP65, 2.5 m	1 99		D	
			IP65, 5 m	1 99		Е	
		Set of screws for end	d plates	Fitting screws and silencer	12	Α	

5	M, P, GQC, V	Only with an even number of valve positions and only with pneumatic supply Y, Z, E, F, G, H,	9	٧	Only with working port C (thread in working port)
		J, K (supply air at both ends)	10	Н	Not with pneumatic multiple connector plate M, P, GP, GQC, GQD, V as an
6	M, P	Not if additional function P, Q (2x one-way flow control valve) in first or last valve position			accessory
7	GP, GQD	Only with pneumatic supply U, V, W, X, Y, Z, A, B, C, D	11	U	Not with pneumatic multiple connector plate GQC, GQD as an accessory
8	GQC, GQD	Not with additional function P, Q	12	Α	Not with pneumatic multiple connector plate V (preparation for pneumatic
					multiple connector plate) an as accessory

Transfer order code





Ordering data				
	Code	Valve function	Туре	Part No.
Individual valve slice	, size 10			
	M	5/2-way single solenoid valve	CPV10-M1H-5LS-M7-B-EX	550 696
	J	5/2-way double solenoid valve	CPV10-M1H-5JS-M7-B-EX	550 697
	N	2x 3/2-way valve, normally open	CPV10-M1H-2x3-OLS-M7-B-EX	550 698
	С	2x 3/2-way valve, normally closed	CPV10-M1H-2x3-GLS-M7-B-EX	550 700
	Н	2x 3/2-way valve, 1x normally open, 1x closed	CPV10-M1H-30LS-3GLS-M7-B-EX	550 699
	D	2x 2/2-way valve, normally closed	CPV10-M1H-2x2-GLS-M7-B-EX	550 701
	I	2x 2/2-way valve, 1x normally open, 1x closed	CPV10-M1H-2OLS-2GLS-M7-B-EX	550 702

FESTO

Ordering data				
	Code	Designation	Туре	Part No.
Function block				
	G	Valve kit for 5/3-way valve function, closed (in combination with valve slice C) for size 10	CPV10-BS-5/3G-M7	176 055
Separator plates				
	Т	Separator plate, duct 1/11 closed	CPV10-DZP	161 369
	S	Separator plate, duct 1/11, 3/5 closed	CPV10-DZPR	178 678
•	<u> </u>			
Blanking plate	т.	Tours de	CDIVA DED	1
	L	Blanking plate	CPV10-RZP	161 368
Additional functions	for valve no	sitions		
	P	One-way flow control valve, 2x supply air	CPV-10-BS-2xGRZZ-M7	184 140
	Q	One-way flow control valve, 2x exhaust air	CPV-10-BS-2xGRAZ-M7	184 141
Inscription labels				•
	-	6x10 mm in frames, 64 pieces	IBS 6x10	18 576



Ordering data	Code	Designation	Туре	Part No.
	Code	Designation	Туре	Part No.
Attachment				
	Н	Attachment for H-rail	CPV10/14-VI-BG-N	RH-35 162 556
	U	Attachment for wall mounting	CPV10/14-VI-BG-R	WL-B 189 541
	Х	Attachment for individual connection	CPV10-VI-BG-ET200	DX 165 801
Manual override	•			
	-	Locking clip (for manual override)	CPV10/14-HS	526 203
	V	Locking clip (cover for manual override)	CPV10/14-HV	530 055
J*				
Cable for individ	lual connection			
/3	-	Plug socket with cable	0.5 m KMYZ-4-0,5-B-EX	550 324
	-	7	2.5 m KMYZ-4-2,5-B-EX	550 481
<u> </u>	-		5.0 m KMYZ-4-5,0-B-EX	550 482
Plug socket for s	elf-assembly			
- 101 S	-	Plug socket	KMYZ-4-0,0-B-EX	550 800

FESTO

Ordering data				
Designation			Туре	Part No.
Blanking plug				
	Blanking plug		B-M5	3 843
			B-M7	174 309
			B-1/8	3 568
Push-in fitting				
	Push-in fitting		QS-1/8-8-I	153 015
			QSM-M5-6-I	153 317
			QSM-M7-6-I	153 321
			•	•
Silencer				
	Silencer		U-M5	4 645
			U-1/4-B	6 842
			U-3/8-B	6 843
			UC-M7	161 418
	·		·	
User documentation	on			
	CPV Pneumatics Description	German	P.BE-CPV10-EX-VI-DE	547 039
	>	English	P.BE-CPV10-EX-VI-EN	547 040
		French	P.BE-CPV10-EX-VI-FR	547 041
		Italian	P.BE-CPV10-EX-VI-IT	547 042
		Spanish	P.BE-CPV10-EX-VI-ES	547 043
		Swedish	P.BE-CPV10-EX-VI-SV	547 044