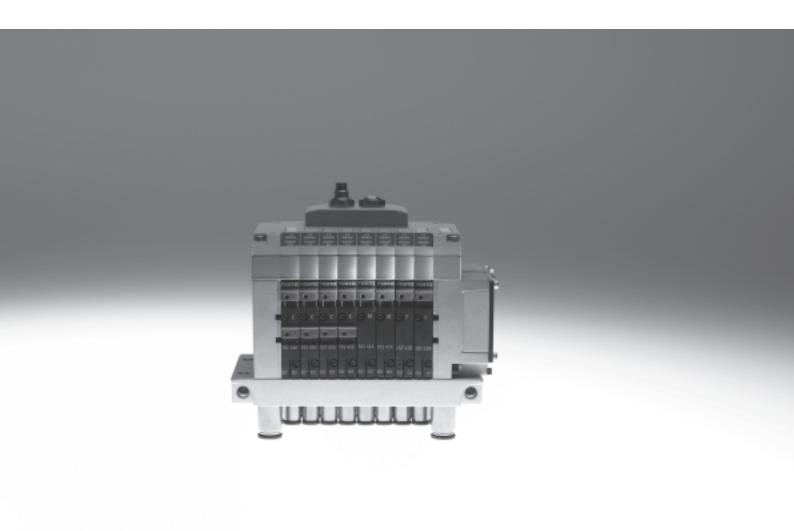
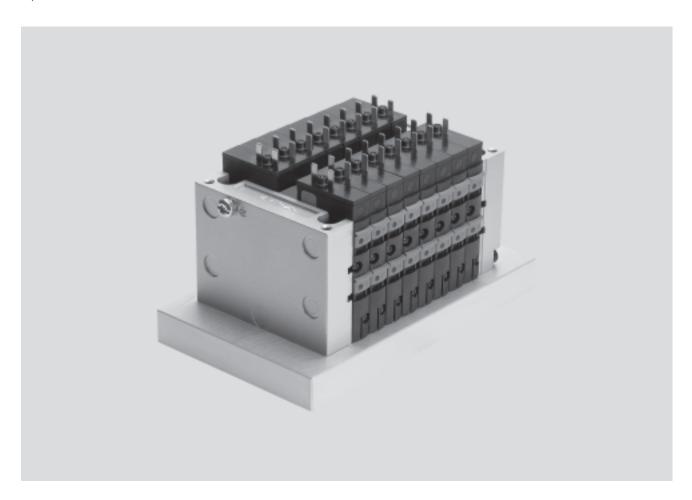
FESTO





Key features



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

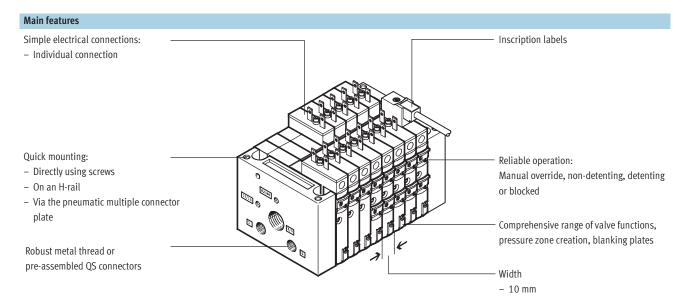
Easy to mount

- 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



Key features



Equipment options

Valve functions

- 5/2-way valve, single solenoid
- 5/2-way valve, double solenoid
- 2x 3/2-way valve, normally open
- 2x 3/2-way valve, normally closed
- 2x 3/2-way valve, 1x normally open, 1x closed
- 2x 3/2-way valve, normally closed, with integrated back pressure protection
- 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 connection

 $^{1) \}quad \mbox{Via function block, not in conjunction with pneumatic multiple connector plate} \\$



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 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.

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

You order a valve terminal type 10 using the order code.

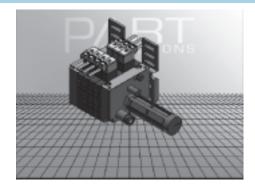
Ordering system for type $10\,$

→ Internet: cpv10-ex

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

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



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



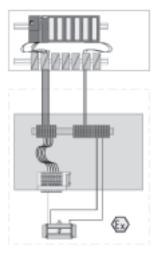
Certification



In accordance with EU Directive 94/9/EC (ATEX Directive) Use in hazardous locations II 2 G Ex ib IIC T5

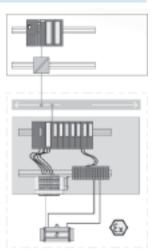
-5°C ≤ Ta ≤ 50°C

CPV use in Zone 1/2



Intrinsically safe valve terminal in a control cabinet. Actuation via multi-core connecting cable.

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 petrochemical 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, electrical 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 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 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 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.

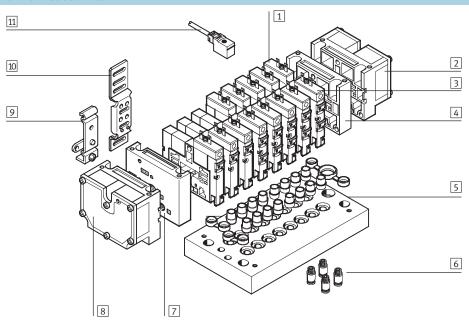
The different combination options ensure the optimum solution for the task at hand.

- 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

Overview - CPV valve terminal



- 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 conjunction with pneumatic multiple connector plate)
- 5 Pneumatic multiple connector plate
- 6 QS push-in connectors
- 7 Left-hand end plate (threaded connections not in conjunction with pneumatic multiple connector plate)
- 8 Left-hand end plate with flat plate silencer
- 9 H-rail mounting
- 10 Wall mounting
- 11 Plug socket with cable



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	Valve function					
Code	Circuit symbol	Size	Description			
		10				
M	14 4 2		5/2-way valve, single solenoid			
		-	Pneumatic spring return			
	14 84 5 1 3 12		Piston spool valve			
J	14 4 2 12		5/2-way valve, double solenoid			
			Piston spool valve			
	14 84 5 1 3 12	•	The pneumatic switching position is retained in the de-energised state			
С	4, 2,		2x 3/2-way valve, single solenoid			
	14 112		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			
	14 112 1		Normally closed			
			Pneumatic spring return			
		_	Piston spool valve			
	14 82/84 1 3/5 12 11	-	Integrated back pressure protection			
			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.			
N	4, 2,		2x 3/2-way valve, single solenoid			
	10 110 1		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			
	110		Normal position (all the control 4.2)			
			1x open (pilot control 12)			
	14.82/84.1 12 11 3/5		1x closed (pilot control 14) • Pneumatic spring return			
	14 02/04 1 12 11 3/3	•	· -			
			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.			
			it incans that the cylinder can move faster.			

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



Valve fu	/alve function						
Code	Circuit symbol	Size	Description				
		10					
-	82/84 112/14 13/5 111	•	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				
-	1482/84 1 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				
_	110 110 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	14 82/84 1 12 11	•	2x 2/2-way valve, single solenoid Normally closed Pneumatic spring return Piston spool valve				
I	14 82/84 1 12 11	•	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 10	Description		
P	Input (valve side) 2 4 Output (cylinder 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) 2 4 Output (cylinder 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)		

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

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.

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



Key features – Pneumatic components

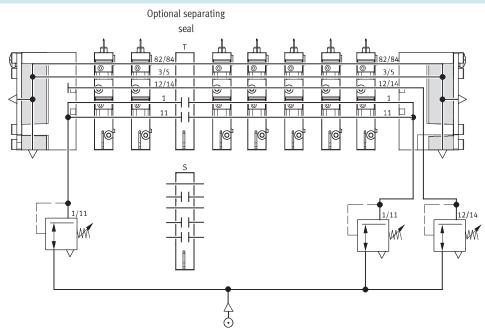
Examples: Compressed air supply

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.

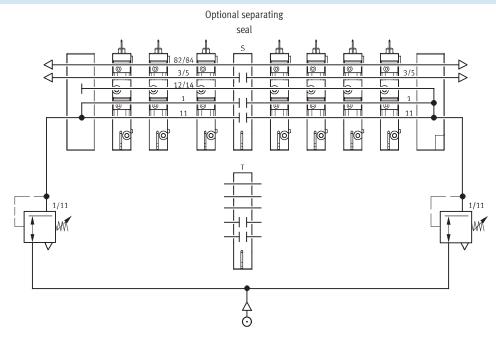


Internal pilot air supply, ducted exhaust air or threaded silencer

Compressed air supply via end plates: $\operatorname{code} Z$

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.

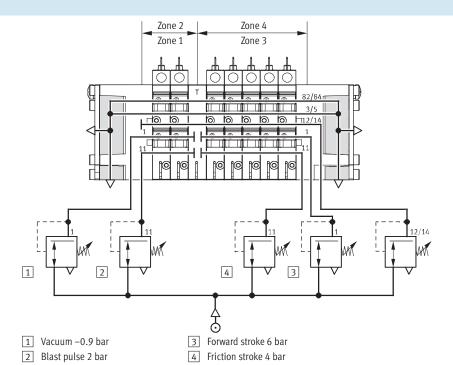


Key features – Pneumatic components

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.

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

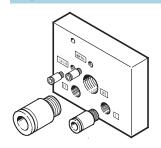
Internal pilot air supply can be selected if the supply pressure at pneumatic port 1 is 3 ... 8 bar. With internal pilot air supply the branch is located in the left or right-hand end plate. There is no port 12/14.

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

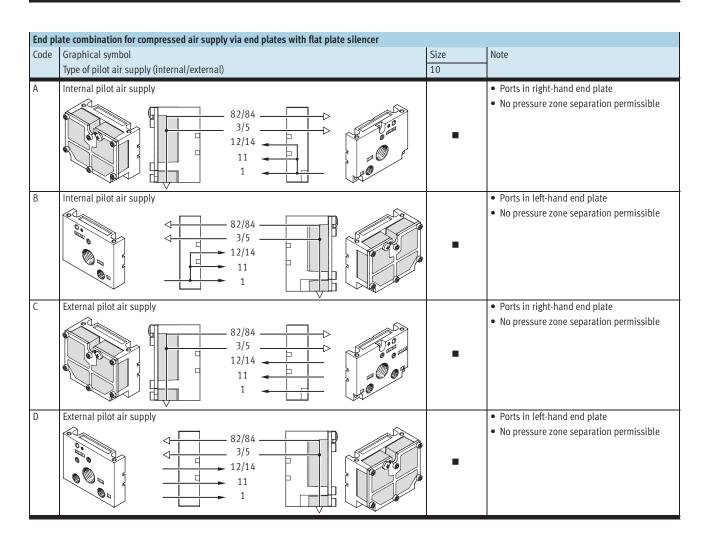


End pla	nd plate combination for compressed air supply via end plate						
Code	Graphical symbol	Size	Note				
	Type of pilot air supply (internal/external)	10					
U	Internal pilot air supply 82/84 12/14 11 11		Ports in right-hand end plate only No pressure zone separation permissible				
V	Internal pilot air supply		Ports in left-hand end plate only				
	82/84 3/5 12/14 P 11 11		No pressure zone separation permissible				
W	External pilot air supply		Ports in right-hand end plate only				
	82/84 3/5 12/14 11 11		No pressure zone separation permissible				
Х	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	•	Maximum three pressure zones				
Z	External pilot air supply		Ports in left-hand and right-hand end plate				
	82/84 3/5 12/14 11	•	Maximum four pressure zones				



Key features – Pneumatic components

End pl	d 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 1		Ports on pneumatic multiple connector plate Pressure zone separation only permissible with separator plate (code T) Maximum two pressure zones Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)					
Z	External pilot air supply 82/84 12/14 11 11	•	 Ports on pneumatic multiple connector plate 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) 					



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

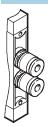


End pla	ate combination for compressed air supply via pneumatic multiple connector plate with flat	plate silencer	
Code	Graphical symbol	Size	Note
	Type of pilot air supply (internal/external)	10	
Е	External pilot air supply 82/84 3/5 12/14 11		 Ports on pneumatic multiple connector plate Exhaust air 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 82/84 3/5 12/14 11 1	•	 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 82/84 3/5 12/14 11 1	•	 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)
Н	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 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 1	•	 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)
K	Internal pilot air supply 82/84 3/5 12/14 11 1	•	 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:

- 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

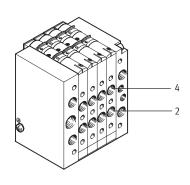
One-piece "connection plates" that contain both working lines and supply ports can be combined with a pneumatic multiple connector plate. This enables the valve terminal as a pneumatic "function" to be separated

from the valve ports.
The pneumatic multiple connector plate enables different mounting options from wall mounting to direct passage through a cabinet wall.

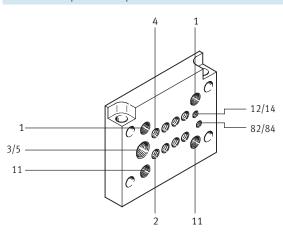
Easy-to-service and flexible connection technology thanks to the following:

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



Pneumatic multiple connector plate



Connect	Connection sizes						
Connect	ion to ISO 5599	CPV10	Comment				
1/11	Working air	G ¹ /8	Fitting in end plate or pneumatic multiple connector plate				
2/4	Working line	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	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: fitting s	set for compressed a	air supply					
	Code for	Port	Designation	Size 10			
	compressed air			QS6			
	supply			Туре			
~	Without pneumatic 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-I			
		1	1 usii iii iittiiig	Q3 78 0 1			
	W, X	82/84	Silencer	U-M5			
	, A	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			
		12/14	1 usii iii iittiiig	QSM MS 0 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			
		1/11 on telt	Push-in inting	Q5-48-8-1			
	Z	82/84 on right	Silencer	LLME			
	\\ \(\)	82/84 on left		U-M5			
			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	Silencer	UC-M7			
	Y	12/14	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			
		11 on right	bidlikilig piug	D-78			
	Z	82/84	Silencer	UC-M7			
	2	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			
		1/11 on telt	r usir-in nitting	Q3-78-0-1			
	With preumatic n	l nultiple connector p	late code: P. GOC				
	Y	82/84	Silencer	U-M5			
	Ι΄.	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			
		11 On right	Dianking plug	D /6			
	Z	82/84	Silencer	U-M5			
	<u></u>	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			
		1/11 011 1611	i usii iii iittiiig	QJ 76°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 supply	Port	Designation	Size 10 QS6 Type			
	Without pneumatic multiple connector plate						
	A, B	82/84	Blanking plug	B-M5			
		3/5	Blanking plug	B-3/8			
		1	Push-in fitting	QS-1/8-8-I			
	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			
		L 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 n	 nultiple connector pla	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			
	5, <u>,,</u> , ,	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			
		12/17	Diaming Ping	5 m5			



Key features – Pneumatic components

CPV valve terminal size 10 with valve extensions

Function blocks



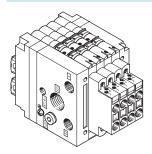
CPV10-BS-5/3G-M7

Valve kit 5/3G for creating a 5/3-way function, mid-position closed:
The valve function "mid-position closed" is created using one valve slice with 2x 3/2-way valve, normally closed (valve function code C).
The valve kit CPV10-BS-5/3G-M7 (incorporating a double piloted

non-return valve 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).

Additional functions for valve positions



These valve extensions (vertical stacking) can be used to add further pneumatic functions to CPV valve terminals size 10 and 14:

- Two one-way flow control valves for flow regulation directly at the valve terminal for
 - supply air flow control
 - exhaust air flow control
- The vacuum flow control module must be used with the vacuum generator with or without ejector pulse and provides a non-return function and adjustable ejector pulse
- 2x one-way flow control valve for supply air flow control
- Additional function code P

Note

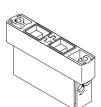
The additional functions cannot be used in the first or last valve position in combination with the pneumatic multiple connector plate M, P and cannot be used in combination with the pneumatic multiple connector plate GQC, GQD.



CPV10-BS-2xGRZZ-M7

• 2x one-way flow control valve for exhaust air flow control

• Additional function code Q



CPV10-BS-2xGRAZ-M7



Key features - Assembly

Mounting options

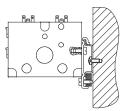
The valve terminals have holes for four mounting screws, the mounting side is the side with the pneumatic fitting. These holes are also used to mount the valve terminal on a pneumatic multiple connector plate.

There are other mounting options in addition to this 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.

Attachment for H-rail



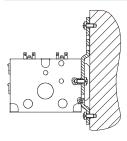
For valve terminal CPV10: CPV10/14-VI-BG-NRH-35 (mounting code H)



H-rail to EN 60715, not for accessories M, P, V (pneumatic multiple connector plate)



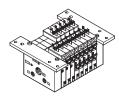
Attachment for wall mounting



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



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



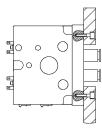
For valve terminal CPV10/14: CPV...-VI-BG-ET200X (mounting code X)



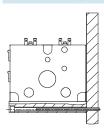
Note

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.

Through-hole in wall, for example on the machine



Wall mounting via pneumatic multiple connector plate

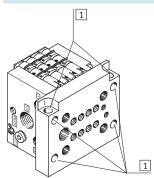




Key features - Assembly

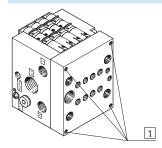
Pneumatic multiple connector plate for wall/machine mounting

With flange, code P



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

Without flange, code M



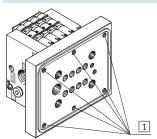
- Multiple connector plate fits flush with the end plates
- Mounting holes (with thread) for wall or foot mounting are on the connection side of the pneumatic multiple connector plate

1 Mounting holes

1 Mounting holes

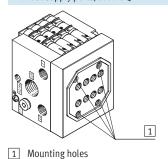
Pneumatic multiple connector plate for control cabinet assembly

With supply ports, code GQC



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

Without supply ports, code GQD



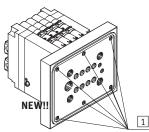
• Multiple connector plate fits flush

with the end plates

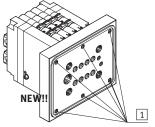
- The mounting holes (with thread) are on the connection side of the pneumatic multiple connector plate
- Multiple connector plate with seal

With supply ports, code GQE

1 Mounting holes



- For 10 mm
- Multiple connector plate projects past the end plates
- Mounting holes (with thread) in the



1 Mounting holes

Multiple connector plate with seal

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.

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

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	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

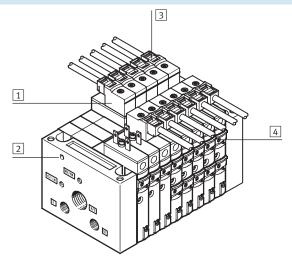


Display and operation

Inscription labels

• Clip with identification field on the cable socket

CPV valve terminal with individual connection



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



Key features – Electrical components

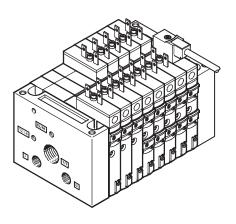
Electrical connection

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.



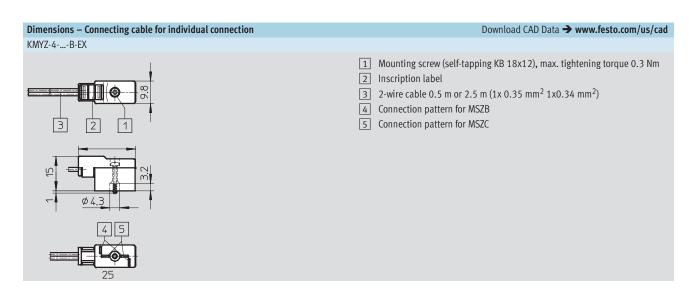
2 ... 16 solenoid coils (divided between 2 ... 8 valve slices) can be selected, odd numbers also possible. The pneumatic multiple connector plate can only be used with even numbers.

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 soc	Plug socket with cable	0.5 m	550324	KMYZ-4-0,5B-EX
		2.5 m	550481	KMYZ-4-2,5-B-EX
		5.0 m	550482	KMYZ-4-5,0-B-EX
			•	
Inscription label				
	Inscription labels 6x10 mm, 64 pieces in frames		18576	IBS-6x10





Instructions for use

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 $0.1~\text{mg/m}^3$ must not be exceeded (see ISO 8573-1 Class 2).

Mineral oils

When using mineral oils (e.g. HLP oils to DIN 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

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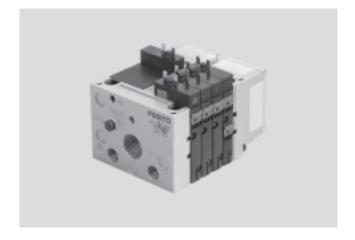
Flow rate

400 l/min

- 🚺 - Valve width

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	G3/8 (G1/4)						
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			J	N	С	CY	Н	D	I
Operating medium		Filtered co	mpressed	air, lubrica	ted or unlu	bricated, inert	gases 🗲 2	9	
Grade of filtration	[µm]	40 (averag	ge pore size	e)					
Operating pressure	[bar]	0 10				+0.1 +10	0 10		
Operating pressure for valve terminal with	[bar]	38							
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 condensation							
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	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)						
Certification	INMETRO						



Electrical data – Valve solenoid		
Width	[mm]	10
Max. ambient temperature	[°C]	+50
Max. input voltage Ui	[V DC]	32
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 ¹⁾		
Effective internal inductance L _i	[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

 $^{1) \}quad \text{The minimum required current consumption drops at higher pilot pressures} \\$

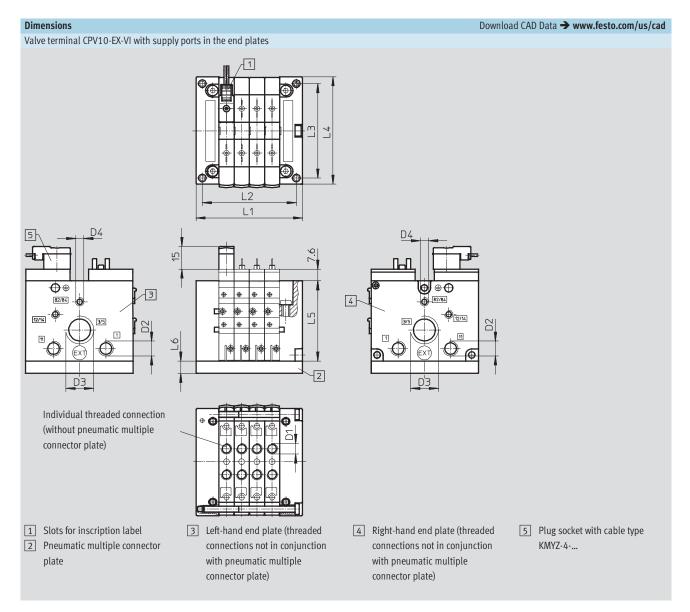
Data on vibration and shock to DIN/EC68						
Vibration resistance	Tested to DIN/IEC 68/EN 60068, Parts 2-6					
	Severity level 2					
Shock resistance	Tested to DIN/IEC 68, Parts 2-27					
	Severity level 2					

Valve switching times [ms]									
Valve function order code		M	J	N	С	CY	Н	D	I
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						

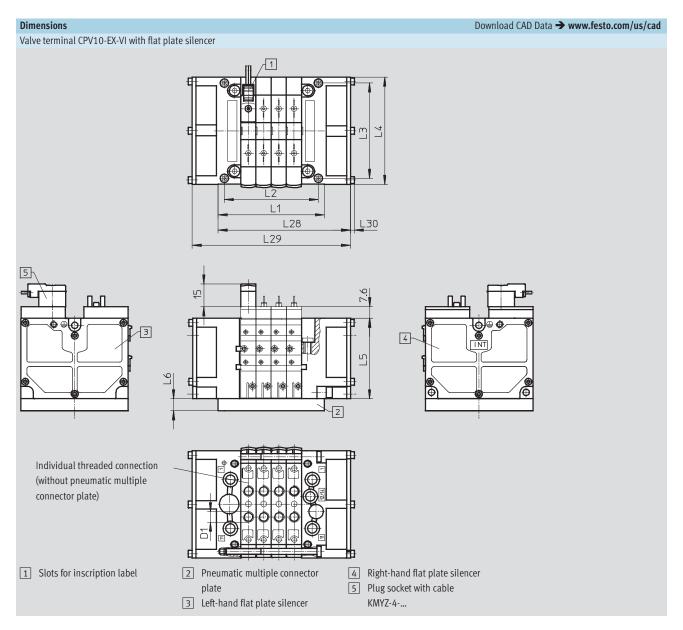
Product weight	
Approx. weight	[g]
End plates (2 pieces)	160
Pneumatic multiple connector plate	
• on valve terminal with 2 valve positions	120
 on valve terminal with 4 valve positions 	165
• on valve terminal with 6 valve positions	225
• on valve terminal with 8 valve positions	270
Flat plate silencer	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





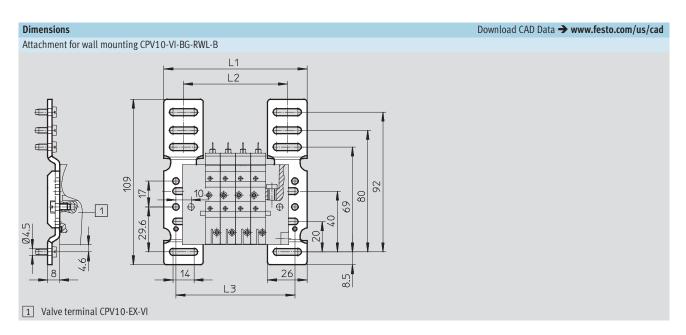
	L1	L2	L3	L4	L5	L6	D1	D2	D3	D4
2-valve	50	41.8								
3-valve	60	51.8								
4-valve	70	61.8								
5-valve	80	71.8	62	71	52.8	15	M7	G1/8	G3/8	M5
6-valve	90	81.8								
7-valve	100	91.8								
8-valve	110	101.8								



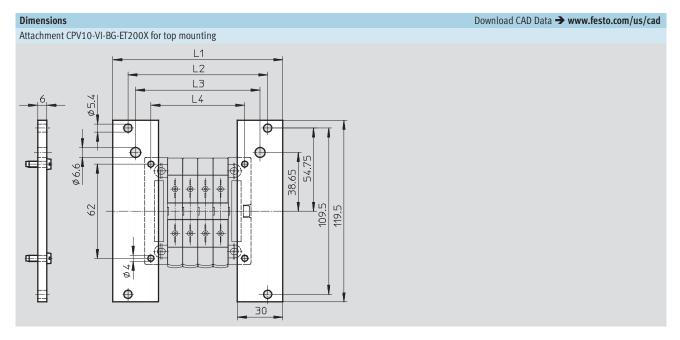


	L1	L2	L3	L4	L5	L6	L28	L29	L30	D1
2-valve	50	41.8					67	84		
3-valve	60	51.8					77	94		
4-valve	70	61.8					87	104		
5-valve	80	71.8	62	71	52.8	15	97	114	2.5	M7
6-valve	90	81.8					107	124		
7-valve	100	91.8					117	134		
8-valve	110	101.8					127	144		



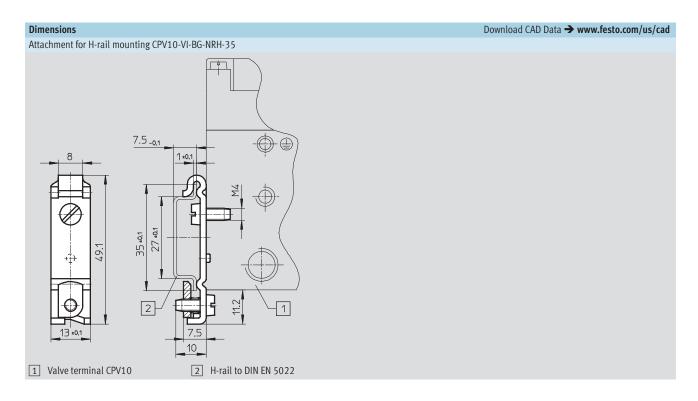


	2-valve	3-valve	4-valve	5-valve	6-valve	7-valve	8-valve
L1	74	84	94	104	114	124	134
L2	48	58	68	78	88	98	108
L3	58	78	88	98	108	118	128

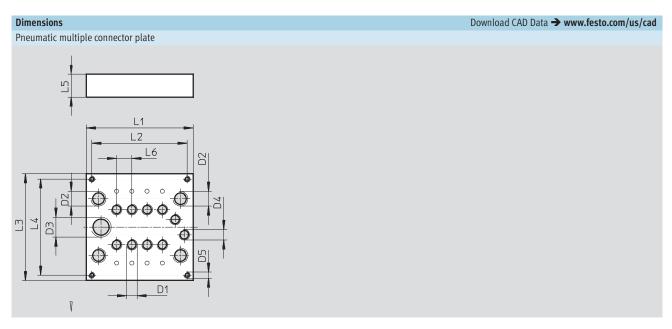


	2-valve	3-valve	4-valve	5-valve	6-valve	7-valve	8-valve
L1	92	102	112	122	132	142	152
L2	72	82	92	102	112	122	132
L3	62	72	82	92	102	112	122
L4	41.2	51.8	61.8	71.8	81.8	91.8	101.8

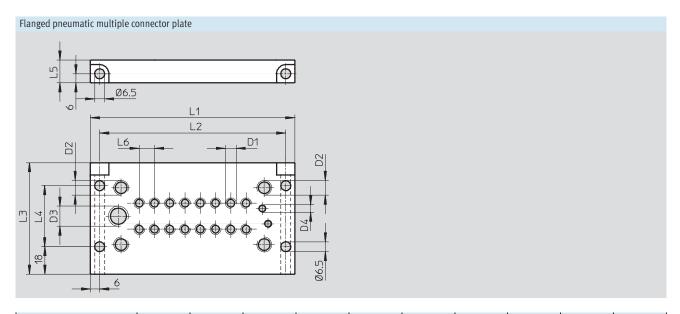






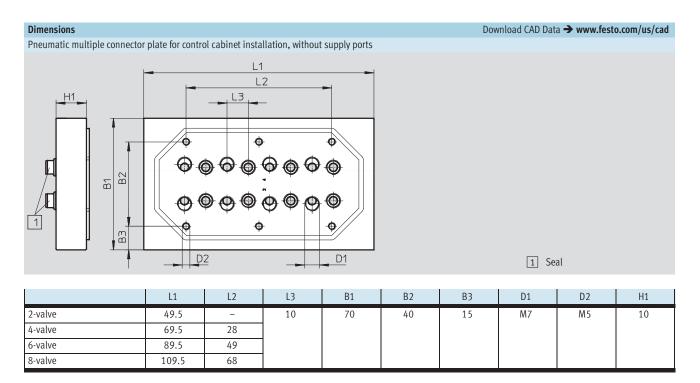


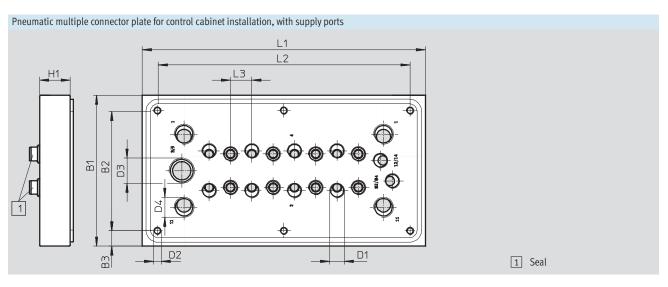
	L1	L2	L3	L4	L5	L6	D1	D2	D3	D4	D5
2-valve	49.5	42.5	70	63	15	10	M7	G1/8	G1/4	M7	M4
4-valve	69.5	62.5									
6-valve	89.5	82.5									
8-valve	109.5	102.5									



	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								

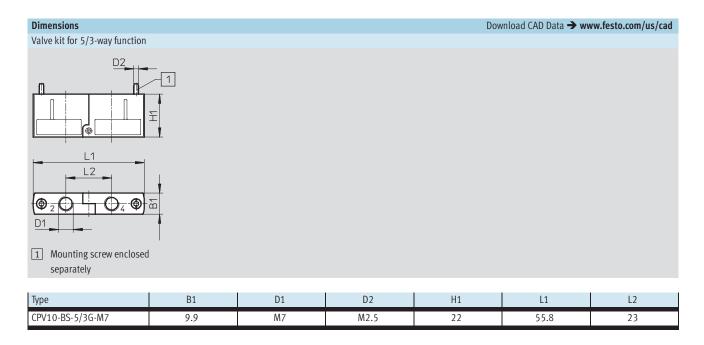
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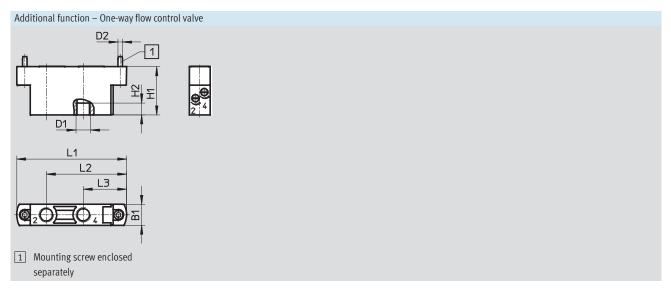




	L1	L2	L3	B1	B2	В3	D1	D2	D3	D4	H1
2-valve	82	62	10	84	64	10	M7	M5	G1/4	G1/8	15
4-valve	102	82									
6-valve	122	102									
8-valve	142	122									







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	1		1	
	Code	Valve function	Part No.	Туре
ndividual sub-ba	se valve size 1	10		
	M	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
		double solenoid,		
		piston spool valve		
	N	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
A		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		
	I	2x 2/2-way valve,	550702	CPV10-M1H-2OLS-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					
Separator plates	lτ	Separator plate, duct 1/11 closed		161369	CPV10-DZP
		, , , , , , , , , , , , , , , , , , , ,			
	S	Separator plate, duct 1/11, 3/5 closed		178678	CPV10-DZPR
Blanking plate					
^	L	Blanking plate		161368	CPV10-RZP
Additional functions f	or valve po	sitions			
	Р	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
		1			
Pneumatic multiple co	onnector pl	ate			
	M	Pneumatic multiple connector plate,	2-valve	161969	CPV10-VI-P2-M7
		for wall/machine mounting,	4-valve	161970	CPV10-VI-P4-M7
100		without side flange	6-valve	161971	CPV10-VI-P6-M7
00000			8-valve	163893	CPV10-VI-P8-M7
	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 8-valve	152422 152423	CPV10-VI-P6-M7-B CPV10-VI-P8-M7-B
	GQC	Pneumatic multiple connector plate with sealing ring,	2-valve	538807	CPV10-VI-P8-M7-B
	Juge	for control cabinet assembly,	4-valve	538808	CPV10-VI-P2-M7-C
		with supply ports	6-valve	538809	CPV10-VI-P6-M7-C
		The sector forces	8-valve	538810	CPV10-VI-P8-M7-C
	GQD	Pneumatic multiple connector plate with sealing ring,	2-valve	538811	CPV10-VI-P2-M7-D
		for control cabinet assembly,	4-valve	538812	CPV10-VI-P4-M7-D
		without supply ports	6-valve	538813	CPV10-VI-P6-M7-D
			8-valve	538814	CPV10-VI-P8-M7-D
	GQE	Pneumatic multiple connector plate with sealing ring,	2-valve	566709	CPV10-VI-P2-G ¹ / ₈ -C
		for control cabinet assembly,	4-valve	566710	CPV10-VI-P4-G ¹ / ₈ -C
		with all ports	6-valve	566711	CPV10-VI-P6-G ¹ /8-C
			8-valve	566712	CPV10-VI-P8-G ¹ / ₈ -C



Ordering data					
	Code	Designation		Part No.	Туре
Inscription labels	<u> </u>			<u> </u>	
six.	T-	6x10 mm in frames, 64 pieces		18576	IBS 6x10
10 Jan					
7.5		1			
Mounting attachment	ts				
	Н	Attachment for H-rail		162556	CPV10/14-VI-BG-NRH-35
Q0		Au I (C II (C		4005/4	CDV4.0/4./ MLDC DWILD
	U	Attachment for wall mounting		189541	CPV10/14-VI-BG-RWL-B
<i>→</i>	Х	Attachment for individual connection		165801	CPV10-VI-BG-ET200X
99/					
**				<u> </u>	
Manual override					
manual override	T-	Locking clip (for manual override), non-detachable		526203	CPV10/14-HS
		and other contractions and detactions		5_0_0	
	V	Locking alia (cover for many -1		F20055	CDV4.0./4.6. UV
	V	Locking clip (cover for manual override)		530055	CPV10/14-HV
Cable for individual c	connection, e		To s	T	//N/7 / 0 5 D 5V
	_	Plug socket with cable	0.5 m	550324	KMYZ-4-0,5-B-EX
	-	1	2.5 m	550481	KMYZ-4-2,5-B-EX
	_	1	5.0 m	550482	KMYZ-4-5,0-B-EX
Dilili					
Blanking plug	1	Disable a above		120/2	D.Mr.
	-	Blanking plug		3843 174309	B-M5 B-M7
	1			3568	B-1/8
Push-in fitting					
C C	T-	Push-in fitting		153015	QS-1/8-8-I
				153317	QSM-M5-6-I
				153321	QSM-M7-6-I
		1		1	4
Silencer					
	-	Silencer		4645	U-M5
				6842	U-1/4-B
				6843	U- ³ / ₈ -B
				161418	UC-M7
	1	1			
Manual					
	-	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
			T7 - 12	T = . = =	DDE CDV4 A EV VII IT
			Italian	547042	P.BE-CPV10-EX-VI-IT
			Italian Spanish Swedish	547042 547043 547044	P.BE-CPV10-EX-VI-II P.BE-CPV10-EX-VI-ES P.BE-CPV10-EX-VI-SV

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Complete Systems Shipment, stocking and storage services

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Pneumatics Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices PLC's, operator interfaces, sensors and I/O devices

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To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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Festo North America

Festo Regional Contact Center

5300 Explorer Drive Mississauga, Ontario L4W 5G4 Canada

USA Customers:

For ordering assistance,

Call: 1.800.99.FESTO (1.800.993.3786) 1.800.96.FESTO (1.800.963.3786) Email: customer.service@us.festo.com

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Canadian Customers:

Call: 1.877.GO.FESTO (1.877.463.3786) Fax: 1.877.FX.FESTO (1.877.393.3786) Email: festo.canada@ca.festo.com

USA Headquarters

Festo Corporation 395 Moreland Road P.O. Box 18023 Hauppauge, NY 11788, USA www.festo.com/us

USA Sales Offices

Appleton

North 922 Tower View Drive, Suite N Greenville, WI 54942, USA

Boston

120 Presidential Way, Suite 330 Woburn, MA 01801, USA

Chicago

1441 East Business Center Drive Mt. Prospect, IL 60056, USA

Dallas

1825 Lakeway Drive, Suite 600 Lewisville, TX 75057, USA

Detroit – Automotive Engineering Center 2601 Cambridge Court, Suite 320 Auburn Hills, MI 48326, USA

New York

395 Moreland Road Hauppauge, NY 11788, USA

Silicon Valley

4935 Southfront Road, Suite F Livermore, CA 94550, USA

United States



USA Headquarters, East: Festo Corp., 395 Moreland Road, Hauppauge, NY 11788 Phone: 1.631.435.0800; Fax: 1.631.435.8026;

Email: info@festo-usa.com www.festo.com/us

Canada



Headquarters: Festo Inc., 5300 Explorer Drive, Mississauga, Ontario L4W 5G4 Phone: 1.905.624.9000; Fax: 1.905.624.9001; Email: festo.canada@ca.festo.com

Mexico



Headquarters: Festo Pneumatic, S.A., Av. Ceylán 3, Col. Tequesquinahuac, 54020 Tlalnepantla, Edo, de México Phone: 011 52 [55] 53 21 66 00; Fax: 011 52 [55] 53 21 66 65; Email: festo.mexico@mx.festo.com www.festo.com/mx

Central USA

Festo Corporation 1441 East Business Center Drive Mt. Prospect, IL 60056, USA Phone: 1.847.759.2600 Fax: 1 847 768 9480



Western USA

Festo Corporation 4935 Southfront Road, Livermore, CA 94550. USA

Phone: 1.925.371.1099 Fax: 1.925.245.1286



Festo Worldwide

Argentina Australia Austria Belarus Belgium Brazil Bulgaria Canada Chile China Colombia Croatia Czech Republic Denmark Estonia Finland France Germany Great Britain Greece Hong Kong Hungary India Indonesia Iran Ireland Israel Italy Japan Latvia Lithuania Malaysia Mexico Netherlands New Zealand Norway Peru Philippines Poland Romania Russia Serbia Singapore Slovakia Slovenia South Africa South Korea Spain Sweden Switzerland Taiwan Thailand Turkey Ukraine United States Venezuela