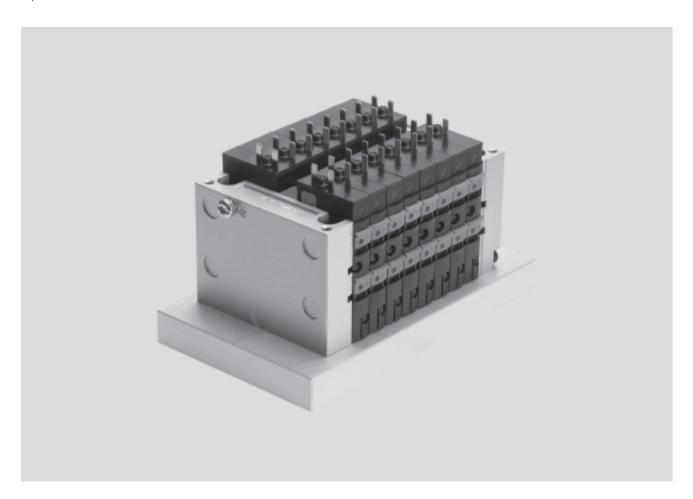






Key features



Innovative

- Cubic design for exceptional performance and low weight
- Sturdy
- Optimised for installation in the 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 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 valve overrides
- 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

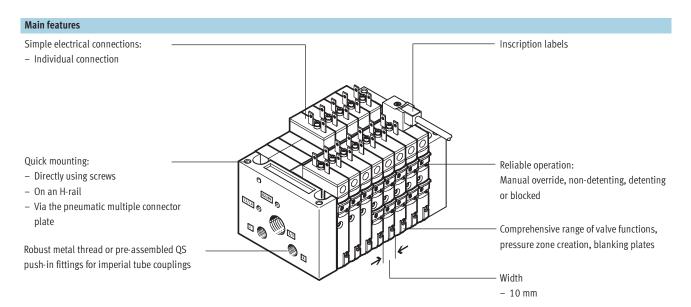
Easy to mount

- 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
 manifold 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⁾ 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, including in uneven stages).

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.

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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 pipe 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

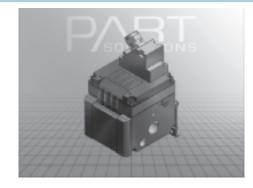
→ Internet: cpv10-ex

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 e-mail.

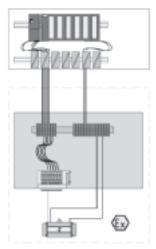
Online via: → www.festo.com/us/engineering





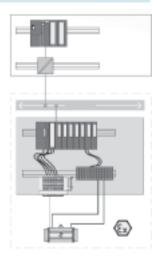
Certification In accordance with EU directive 94/9/EC (ATEX directive) (E (Ex Use in hazardous locations II 2 G Ex ib IIC T5 -5°C ≤ Ta ≤ 50°C

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



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 can also be expected to occur 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 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		Occasionally	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			



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 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 also 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 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.

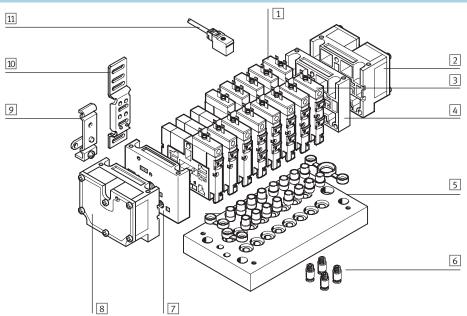
The different combination options ensure the optimum solution for the task at hand.

- Compressed air supply connections on the left, right or underneath
- Pneumatic working ports 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



- Basic electrical unit
 (individual connection)
- 2 Right-hand end plate with flat plate silencer
- 3 Valve slice
- 4 Right-hand end plate (threaded connection not in conjunction with pneumatic multiple connector plate)
- 5 Pneumatic multiple connector plate
- 6 QS push-in fittings for imperial tube couplings
- 7 Left-hand end plate (threaded connection 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

Valve terminals type 10 CPV10-EX-VI, Compact Performance, NPT 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 ports. 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

The valve terminal is not suitable for vacuum operation.

Valve fu	ınction		
Code	Circuit symbol	Size	Description
		10	
M	16 4 2		5/2-way valve, single solenoid
		-	Pneumatic spring return
	14 84 5 1 3 12		Piston spool valve
J	16 4 2 12		5/2-way valve, double solenoid
	14 4 2 12		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
	112		Normally closed
		-	Pneumatic spring return
	1482/84 1 12 11 3/5		Piston spool valve
CV			20.2/2
CY	4 2		2x 3/2-way valve, single solenoid
	112		Normally closed Decumptic carries return
			Pneumatic spring returnPiston spool valve
		•	Integrated back pressure protection
	14 82/84 1 3/5 12 11		Note
			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, the valve terminal must be operated with external pilot air supply.
N	4 2		2x 3/2-way valve, single solenoid
	110		Normally open Documentic coring return
		•	Pneumatic spring returnPiston spool valve
	1482/84 1 12 11 3/5		The function of a 5/3-way valve with mid-position pressurised 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
	14- 110-		Normal position
			1x open (pilot control 12)
			1x closed (pilot control 14)
	14 82/84 1 12 11 3/5		Pneumatic spring return
		•	Piston spool valve
			For optimised cylinder movement. Corresponds to valve function M
			with simultaneous actuation of both solenoid coils (5/2-way, single solenoid).
			Since the piston area on each side can be pressurised or exhausted separately,
			it means that the cylinder can move faster.

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



Valve fu	Valve function							
Code	Circuit symbol	Size	Description					
		10						
	82/84 A 11/2 11/2 11/2 11/2 11/2 11/2 11/2 11	•	5/3G¹¹, 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 (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 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. Not used with pneumatic multiple connector plate GQC and GQD. • Piston spool valve					
	14 2 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 14 82/84 1 12 11 3/5		5/3B function, mid-position pressurised The valve function "mid-position pressurised" is created using a 2x 3/2-way valve, normally open (code N). • Pneumatic spring return • Piston spool valve					
D	14 82/84 1 12 11	•	2x 2/2-way valve, single solenoid Normally closed Pneumatic spring return Piston spool valve					
	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, NPTKey features – Pneumatic components



Additio	Additional pneumatic functions					
Code	Circuit symbol	Size 10	Description			
P	Input (valve side) 2 4 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) Not used with accessories GQC and GQD (pneumatic multiple connector plate)			
Q	Input (valve side) 2 4 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) Not used with accessories GQC and GQD (pneumatic multiple connector plate)			

Note

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

Valve terminals type 10 CPV10-EX-VI, Compact Performance, NPT 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 $% \left(1\right) =\left(1\right) \left(1\right) \left$ 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.

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 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 —— 3/5		
	Working air — 1		
	Working air 11		
L	Vacant position (blanking plate)		A vacant position is created using a blanking plate
			(code L, where a valve can be positioned at a later date).
	Pilot exhaust air 82/84		
	Pilot air supply ———————————————————————————————————	•	
	Exhaust3/5		
	Working air1		
	Working air11		



Key features – Pneumatic components

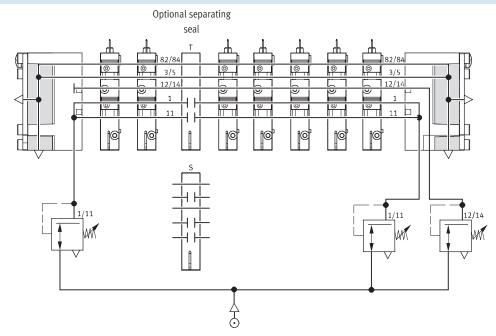
Examples: Compressed air supply

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 used optionally to create pressure zones.

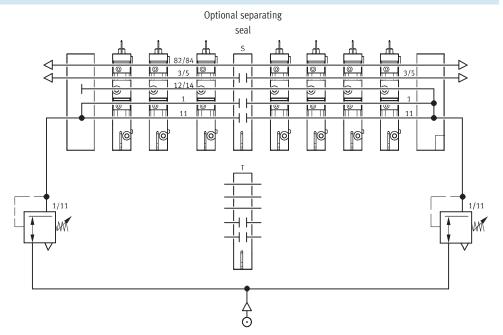


Internal pilot air supply, ducted exhaust air or threaded silencer

Compressed air supply via end plates: Code Z

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

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



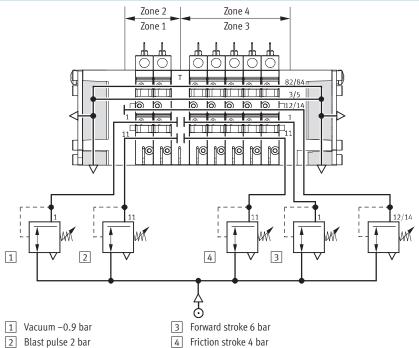
Valve terminals type 10 CPV10-EX-VI, Compact Performance, NPT Key features – Pneumatic components



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.



2 Blast pulse 2 bar



Key features – Pneumatic components

Compressed air supply and venting

The two end plates which supply the valve slices with pressure and exhaust 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 connection 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.

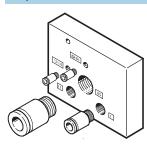
External pilot air supply

External pilot air supply is required if the supply pressure at pneumatic connection 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. There the control pressure applied during switch-on is already very high in this case.

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 with screwed connections 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 provided 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, NPT Key features – Pneumatic components

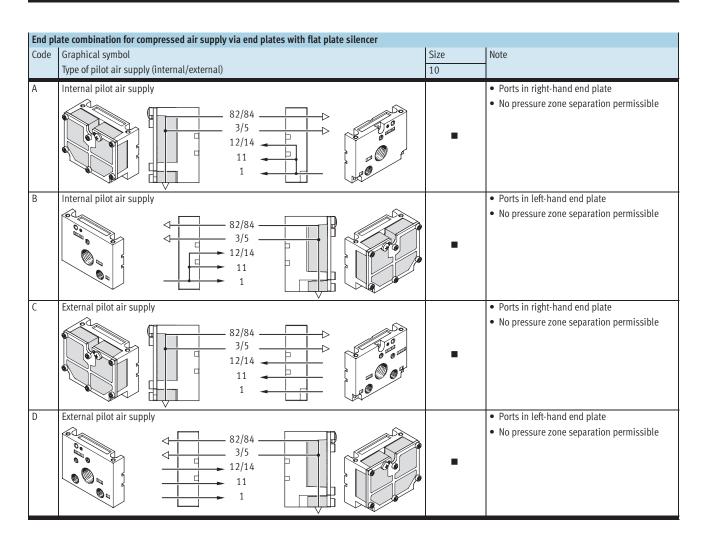


End pl	End plate combination for compressed air supply via end plate							
Code	Graphical symbol	Size	Note					
	Type of pilot air supply (internal/external)	10						
U	Internal pilot air supply		 Ports in right-hand end plate only No pressure zone separation permissible 					
	82/84 3/5 12/14 11 11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



Key features – Pneumatic components

End pl	late combination for compressed air supply via pneumatic multiple connector plate							
Code	Graphical symbol	Size	Note					
	Type of pilot air supply (internal/external)	10						
Υ	Internal pilot air supply		Ports on pneumatic multiple connector plate					
	82/84 3/5 12/14 11	-	 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		Ports on pneumatic multiple connector plate					
	82/84 3/5 12/14 1 1	-	 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, NPT Key features – Pneumatic components

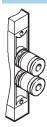


End pla	ate combination for compressed air supply via pneumatic multiple connector plate with flat	plate silencer	
Code	Graphical symbol	Size	Note
	Type of pilot air supply (internal/external)	10	
E	External pilot air supply 82/84 3/5 12/14 11 1	-	 Ports on pneumatic multiple connector plate Exhaust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

- Threaded connections: Code C
- Large push-in fittings: Code D
- Small push-in fittings: 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 sub-bases which contain both the working ports and, optionally, the supply ports are available in combination 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.

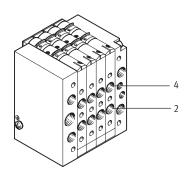
Service-friendly and flexible connection technology thanks to the following:

- Common connection via the pneumatic multiple connector plate with all connections on one side
- The valve terminal can be disassembled/fitted using only

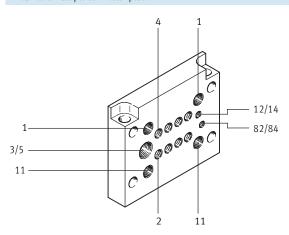
four screws, whereby the pneumatics remain fully connected

- · Quick removal/fitting
- 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	Remarks			
1/11	Working air	G½8	Fitting in end plate or pneumatic multiple connector plate			
2/4	Working port	M7	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	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, NPT Key features – Pneumatic components



	Code Compressed air	Port	Designation	Size 10				
	Compressed air			Size 10				
	compressed an			Туре				
	supply							
	Without pneumati	ic multiple connecto	or plate					
	U, V	82/84	Silencer	U-M5				
		3/5	Silencer	U-3/8-B				
		1	Push-in fitting	QS-1/8-5/16-I-U-M				
1 Indiana								
	W, X	82/84	Silencer	U-M5				
		3/5	Silencer	U-3/8-B				
		1	Push-in fitting	QS-1/8-5/16-I-U-M				
		12/14	Push-in fitting	QSM-M5-1/4-I-U-M				
	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-1/8-5/16-I-U-M				
	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-M5-1/4-I-U-M				
		12/14 on left	Blanking plug	B-M5				
		1/11	Push-in fitting	QS-1/8-5/16-I-U-M				
	With pneumatic multiple connector plate code: M							
	Y	82/84	Silencer	UC-M7				
	'	12/14	Blanking plug	B-M7				
		3/5	Silencer	U-1/4-B				
		1/11 on left	Push-in fitting	QS-1/8-5/16-I-U-M				
		11 on right	Blanking plug	B-1/8				
		11 011 115110	Blanking plag	B 76				
	Z	82/84	Silencer	UC-M7				
	-	3/5	Silencer	U-1/4-B				
		12/14	Push-in fitting	QSM-M7-1/4-I-U-M				
		1/11 on left	Push-in fitting	QS-1/8-8-I				
		,	0					
	With pneumatic m	nultiple connector p	late 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-1/8-5/16-I-U-M				
		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-M5-1/4-I-U-M				
		1/11 on left	Push-in fitting	QS-1/8-5/16-I-U-M				

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



Cod	de	Port	Designation	Size 10
Cor	mpressed air			QS6
sup	pply			Туре
Wit	thout pneumation	: multiple connector	rplate	
A, E	В	82/84	Blanking plug	B-M5
		3/5	Blanking plug	B-3/8
		1	Push-in fitting	QS-1/8-5/16-I-U-M
C, [D	82/84	Blanking plug	B-M5
C, I	U	3/5	Blanking plug	B-3/8
		1	Push-in fitting	QS-1/8-5/16-I-U-M
		12/14	Push-in fitting	QSM-M5-1/4-I-U-M
		12/14	Pusil-III IIIIIIIg	Q3IVI-IVI 3-74-I-U-IVI
Wit	th pneumatic m	ultiple connector pla	ate code: M	
E, F	•	82/84	Blanking plug	B-M7
		3/5	Blanking plug	B-1/4
		1/11	Push-in fitting	QS-1/8-5/16-I-U-M
		12/14	Push-in fitting	QSM-M7-1/4-I-U-M
G, J	J , K	82/84	Blanking plug	B-M7
		3/5	Blanking plug	B-1/4
		on right in 1, left	Push-in fitting	QS-1/8-5/16-I-U-M
		on right in 11	Blanking plug	B-1/8
		12/14	Blanking plug	B-M7
Wit	th pneumatic m	ultiple connector pla	ate code: P, GQC	
E, F	•	82/84	Blanking plug	B-M5
		3/5	Blanking plug	B-1/4
		1/11	Push-in fitting	QS-1/8-5/16-I-U-M
		12/14	Push-in fitting	QSM-M5-1/4-I-U-M
G, J	J , K	82/84	Blanking plug	B-M5
		3/5	Blanking plug	B-1/4
		on right in 1, left	Push-in fitting	QS-1/8-5/16-I-U-M
		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

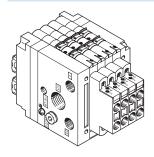


CPV10-BS-5/3G-M7

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

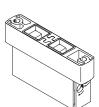
The additional functions cannot be used in the first or last valve position in combination with the pneumatic connector plate M, P and cannot be used in combination with the pneumatic multiple connector plate GQC, GQD.



CPV10-BS-2xGRZZ-M7

CPV10-BS-2xGRAZ-M7

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





Key features - Assembly

Mounting options

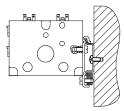
The valve terminals have holes for four mounting screws, the mounting side is the side with the pneumatic threaded connector. These holes are also used to mount the valve terminal on a pneumatic multiple connector plate.

There are other mounting options in addition to this method:

- H-rail mounting
- Wall mounting
- Wall mounting via flanged 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.

Mounting for H-rail



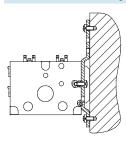
for valve terminal CPV10: CPV10/14-VI-BG-NRH-35 (mounting code H)



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



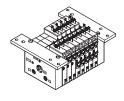
Attachment for wall mounting



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)



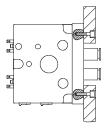
for valve terminal CPV10/14: CPV...-VI-BG-ET200X (mounting code X)



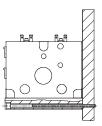
Note

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 a machine



Wall mounting via pneumatic multiple connector plate

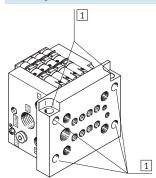




Key features - Assembly

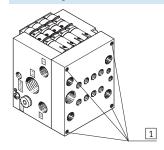
Pneumatic multiple connector plate for wall/machine mounting

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



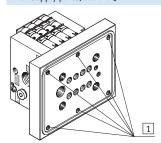
- Multiple connector plate fits flush with the end plates
- Mounting holes (with thread) for wall or foot mounting are on the connection side of the pneumatic multiple connector plate

1 Mounting holes

Pneumatic multiple connector plate for control cabinet assembly

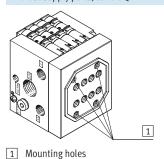
With supply ports, code GQC

1 Mounting holes



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

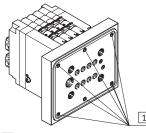
Without supply ports, code GQD



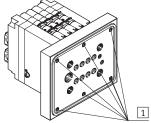
- Multiple connector plate fits flush with the end plates • The mounting holes (with thread)
- are on the connection side of the pneumatic multiple connector plate
- Multiple connector plate with seal

With supply ports, code GQE

1 Mounting holes



- For 10 mm
- past the end plates
- · Mounting holes (with thread) in the



1 Mounting holes

- Multiple connector plate projects
- 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
- Not in combination with wall mounting

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



Manual override tool

Three types of manual override are available:

- Non-detenting
- Detenting
- Blocked

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

The locking clip on the valve must $% \left(1\right) =\left(1\right) \left(1$ 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 MO 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 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, NPT Key features – Display and operation

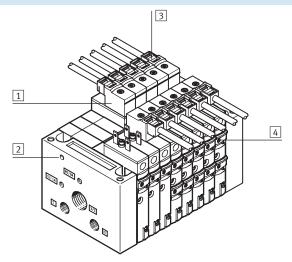


Display and operation

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 connection socket)
- 4 Manual override



Key features – Electrical components

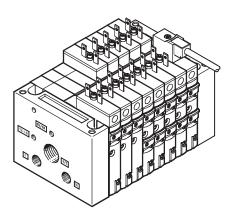
Electrical connection

Individual connection

The corresponding individual 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.

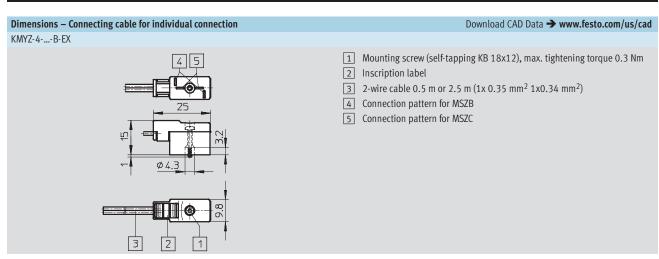


2 ... 16 solenoid coils (divided between 2 ... 8 valve slices) can be selected, odd numbers also possible. The pneumatic multiple connector plate can only be used with even numbers.

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	Ordering data										
	Code	Designation		Туре	Part No.						
Plug socket with cable											
	-	Plug socket with cable	0.5 m	KMYZ-4-0,5B-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						
	•		•		•						
Inscription label											
		Inscription label		ISB 6x10	18 576						





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 which are based on synthetic or native ester, e.g. rapeseed oil methyl ester), the maximum residual oil content of 0.1 mg/m³ must not be exceeded (see ISO 8573-1 Class 2).

Mineral oils

When using mineral oils (e.g. HLP oils to DIN 51 524, parts 1 to 3) or similar oils based on poly-alpha-olefins (PAO), the maximum residual oil content of 5 mg/m³ must not be exceeded (see ISO 8573-1 Class 4). A higher residual oil content irrespective of the compressor oil cannot be permitted, as the basic lubricant would be flushed out over

FESTO

Flow rate

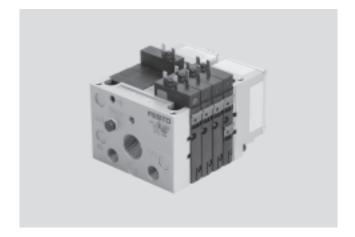
400 l/min

Valve width

10 mm

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 port	1/11	G½
Exhaust port	3/5	G3/8 (G1/4)
Working ports	2/4	M7
Pilot air supply port	12/14	M5 (M7)
Pilot exhaust air port	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 c	ompres	sed air, lub	ricated or	unlubricated	, inert	gases 🗲 7	73		
Grade of filtration	[µm]	40 (avera	ge por	e size)							
Operating pressure	[bar]	0 +10				+0.1	+10	0 +10			
Operating pressure for valve terminal	[bar]	3 8									
with internal 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 n	o cond	ensation							
Corrosion resistance class CRC ¹⁾		1									

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 approved for use in the ATEX zone in accordance with the EU ATEX directive									
ATEX category for gas	II 2G								
Ex ignition protection type for gas	Ex ib IIC T5								
ATEX specification	II 2 G Ex ib IIC T5								
ATEX ambient temperature [°C]	-5 ≤ Ta ≤ +50								
Certificate issuing authority	EX5 06 04 13277 073								
CE mark (see declaration of conformity)	In accordance with EU explosion protection directive (ATEX)								



Electrical data – Valve solenoid		
Width	[mm]	10
Max. ambient temperature	[°C]	+50
Max. input voltage Vi	[V DC]	32
Max. input current li	[A]	0.2
Max. input power P _i	[W]	0.76
Required current consumption	[mA]	≥15.4
with pilot pressure of 3 bar ¹⁾		
Effective internal inductance Li	[µH]	≈0
Effective internal capacity 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

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

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					

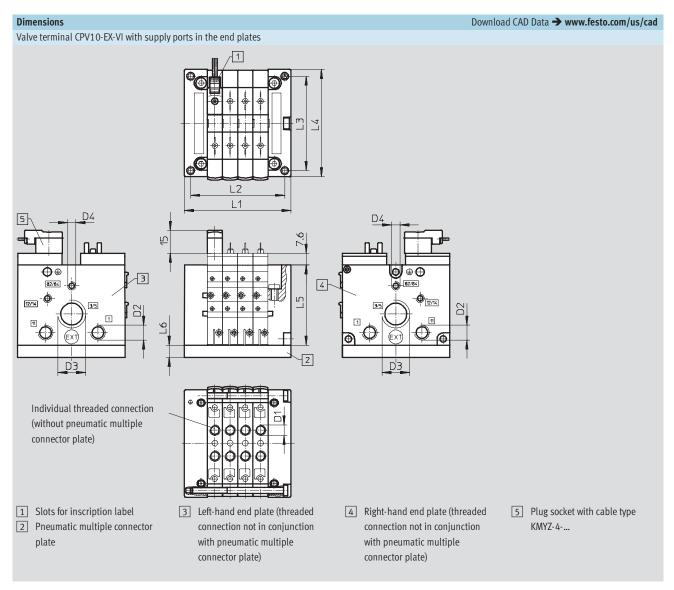
Valve switching times [ms]									
Valve function order code		М	J	N	С	CY	Н	D	1
Switching times	on	17	-	17	17	17	17	15	15
	off	40	-	37	37	37	37	17	17
	changeover	_	10	-	-	-	-	_	-

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 [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	73
Function block: 5/3G function	46
Function block: One-way flow control valves	25

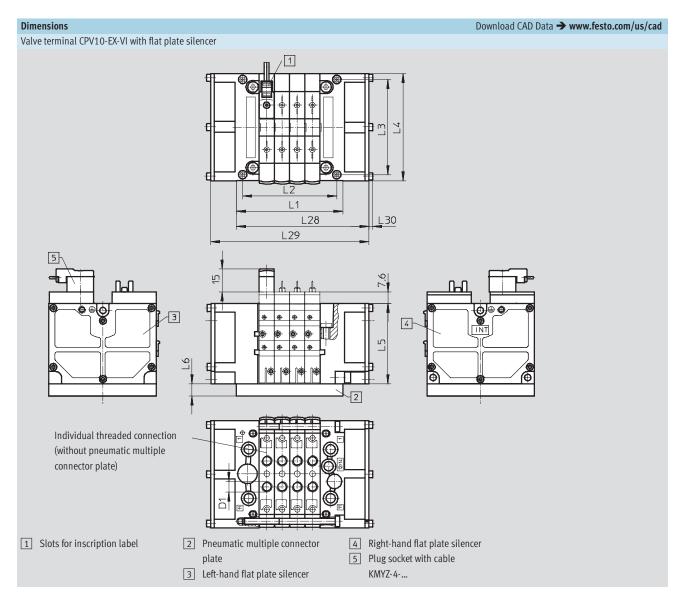


Technical data



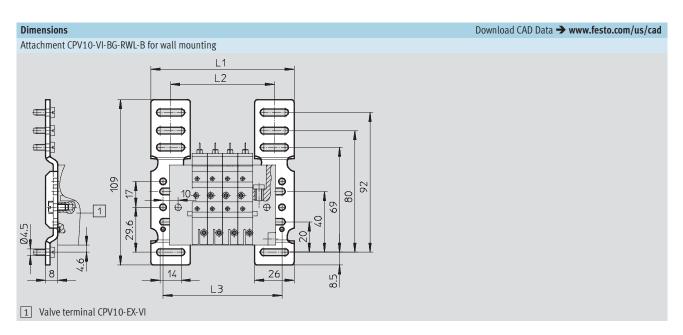
	L1	L2	L3	L4	L5	L6	D1	D2	D3	D4
2-valve	50	41.8								
3-valve	60	51.8								
4-valve	70	61.8								
5-valve	80	71.8	62	71	52.8	15	M7	G1/8	G3/8	M5
6-valve	90	81.8								
7-valve	100	91.8								
8-valve	110	101.8								



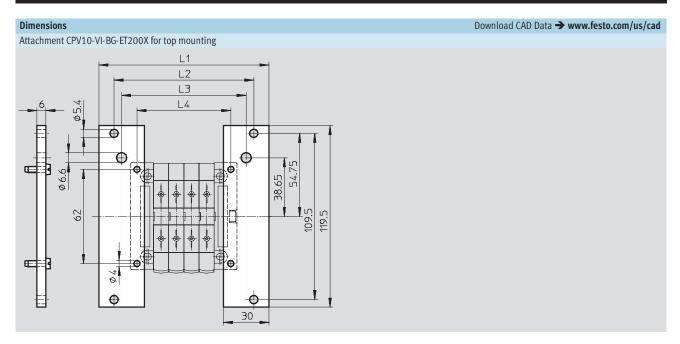


	L1	L2	L3	L4	L5	L6	L28	L29	L30	D1
2-valve	50	41.8					67	84		
3-valve	60	51.8					77	94		
4-valve	70	61.8					87	104		
5-valve	80	71.8	62	71	52.8	15	97	114	2.5	M7
6-valve	90	81.8					107	124		
7-valve	100	91.8					117	134		
8-valve	110	101.8					127	144		



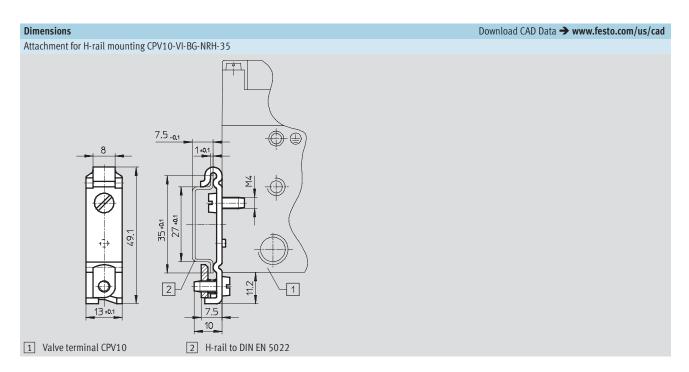


	2-valve	3-valve	4-valve	5-valve	6-valve	7-valve	8-valve
L1	74	84	94	104	114	124	134
L2	48	58	68	78	88	98	108
L3	58	78	88	98	108	118	128

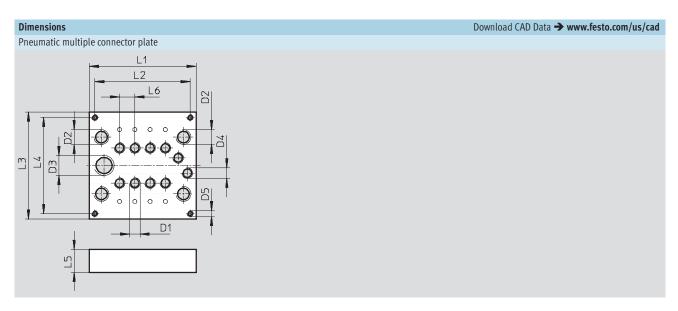


	2-valve	3-valve	4-valve	5-valve	6-valve	7-valve	8-valve
L1	92	102	112	122	132	142	152
L2	72	82	92	102	112	122	132
L3	62	72	82	92	102	112	122
L4	41.2	51.8	61.8	71.8	81.8	91.8	101.8

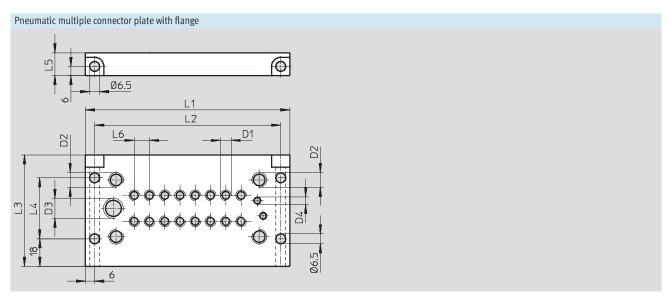






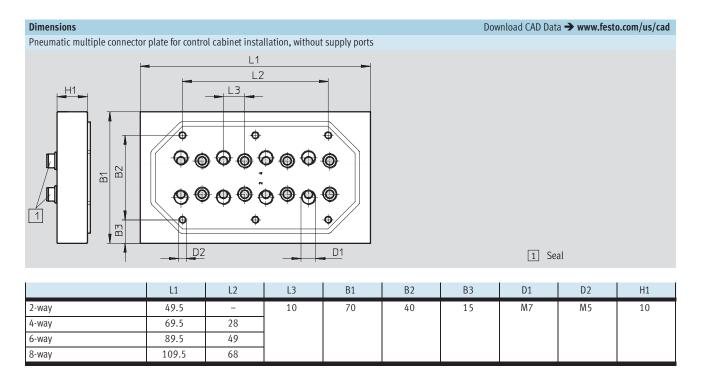


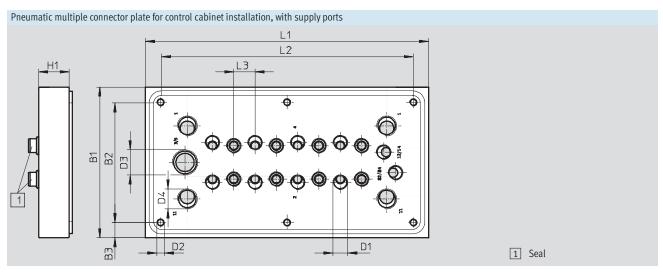
	L1	L2	L3	L4	L5	L6	D1	D2	D3	D4	D5
2-way	49.5	42.5	70	63	15	10	M7	G1/8	G1/4	M7	M4
4-way	69.5	62.5									
6-way	89.5	82.5									
8-way	109.5	102.5									



	L1	L2	L3	L4	L5	L6	D1	D2	D3	D4
2-way	74	62	73	40	15	10	M7	G½8	G1/4	M5
4-way	94	82								
6-way	114	102								
8-way	134	122								

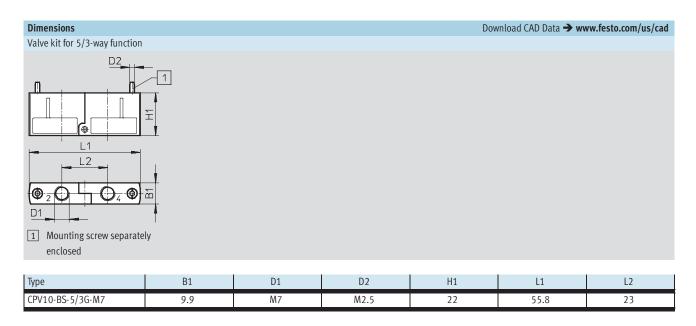


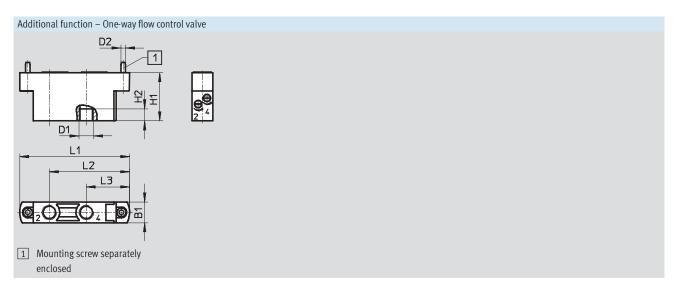




	L1	L2	L3	B1	B2	В3	D1	D2	D3	D4	H1
2-way	82	62	10	84	64	10	M7	M5	G1/4	G1/8	15
4-way	102	82									
6-way	122	102									
8-way	142	122									







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				
	Code	Valve function	Part No.	Туре
Individual sub-bas	se valve size 1	0, piston spool valve		
	M	5/2-way valve, single solenoid	550696	CPV10-M1H-5LS-M7-B-EX
	J	5/2-way valve, double solenoid	550697	CPV10-M1H-5JS-M7-B-EX
	N	2x 3/2-way valve, normally open	550698	CPV10-M1H-2x3-OLS-M7-B-EX
	С	2 x 3/2-way valve, normally closed	550700	CPV10-M1H-2x3-GLS-M7-B-EX
	CY	2x 3/2-way valve, normally closed, integrated back pressure protection	553261	CPV10-M1H-2x3-GLS-Y-M7-B-EX
	Н	2x 3/2-way valve, 1x normally open, 1x normally closed	550699	CPV10-M1H-30LS-3GLS-M7-B-EX
	D	2x 2/2-way valve, normally closed	550701	CPV10-M1H-2x2-GLS-M7-B-EX
	I	2x 2/2-way valve, 1x normally open, 1x normally closed	550702	CPV10-M1H-2OLS-2GLS-M7-B-EX

Ordering data				
	Code	Designation	Part No.	Туре
Function block				
	G	Valve kit for 5/3-way valve function, closed (in combination with valve slice C) for size 10	176055	CPV10-BS-5/3G-M7
Separator plates				
	Т	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	for valve pos			
	Р	One-way flow control valve, 2x supply air	184140	CPV-10-BS-2xGRZZ-M7
	Q	One-way flow control valve, 2x exhaust air	184141	CPV-10-BS-2xGRAZ-M7



Ordering data				
Designation				Part No. Type
Pneumatic multiple	e connector	plate		
æ	М	Pneumatic multiple connector plate,	2-valve	161969 CPV10-VI-P2-M7
		for wall/machine mounting, without side flange	4-valve	161970 CPV10-VI-P4-M7
			6-valve	161971 CPV10-VI-P6-M7
	1		8-valve	163893 CPV10-VI-P8-M7
	Р	Pneumatic multiple connector plate,	2-valve	152420 CPV10-VI-P2-M7-B
7		for wall/machine mounting,	4-valve	152421 CPV10-VI-P4-M7-B
		with side flange	6-valve	152422 CPV10-VI-P6-M7-B
			8-valve	152423 CPV10-VI-P8-M7-B
	GQC	Pneumatic multiple connector plate	2-valve	538807 CPV10-VI-P2-M7-C
		with sealing ring,	4-valve	538808 CPV10-VI-P4-M7-C
		for control cabinet assembly,	6-valve	538809 CPV10-VI-P6-M7-C
		with supply connections	8-valve	538810 CPV10-VI-P8-M7-C
	GQD	Pneumatic multiple connector plate	2-valve	538811 CPV10-VI-P2-M7-D
		with sealing ring,	4-valve	538812 CPV10-VI-P4-M7-D
		for control cabinet assembly,	6-valve	538813 CPV10-VI-P6-M7-D
1		without supply connections	8-valve	538814 CPV10-VI-P8-M7-D

Ordering data					
	Code	Designation		Part No.	Туре
Inscription labels					
	-	6x10 mm in frames, 64 pieces		18576	IBS 6x10
Mounting					
	Н	Mounting for H-rail		162556	CPV10/14-VI-BG-NRH-35
	U	Attachment for wall mounting		189541	CPV10/14-VI-BG-RWL-B
69/10	X	Attachment for individual connection		165801	CPV10-VI-BG-ET200X
Manual override				•	
	-	Locking clip (for manual override), non-detachable		526203	CPV10/14-HS
	V	Locking clip (cover for manual override)		530055	CPV10/14-HV
Cable for individual	connection,	electrical			
	-	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
	-			-	



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Ordering data				
Designation Designation			Part No.	Туре
_			rait No.	туре
Blanking plug				
	Blanking plug		3843	B-M5
			174309	B-M7
			3568	B-1/8
Push-in fitting				
	Push-in fitting		183742	QS- ¹ /8- ⁵ / ₁₆ -I-U-M
			183744	QS-1/4-3/8-I-U-M
			130591	QSM-M5-1/4-I-U-M
			183740	QSM-M7-1/4-I-U-M
Silencer				
	Silencer		4645	U-M5
			6842	U-1/4-B
			6843	U-3/8-B
			161418	UC-M7
Manual			•	
	CPV Pneumatics Description	German	547039	P.BE-CPV10-EX-VI-DE
		English	547040	P.BE-CPV10-EX-VI-EN
		French	547041	P.BE-CPV10-EX-VI-FR
		Italian	547042	P.BE-CPV10-EX-VI-IT
		Spanish	547043	P.BE-CPV10-EX-VI-ES
		Swedish	547044	P.BE-CPV10-EX-VI-SV

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Complete Systems Shipment, stocking and storage services

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