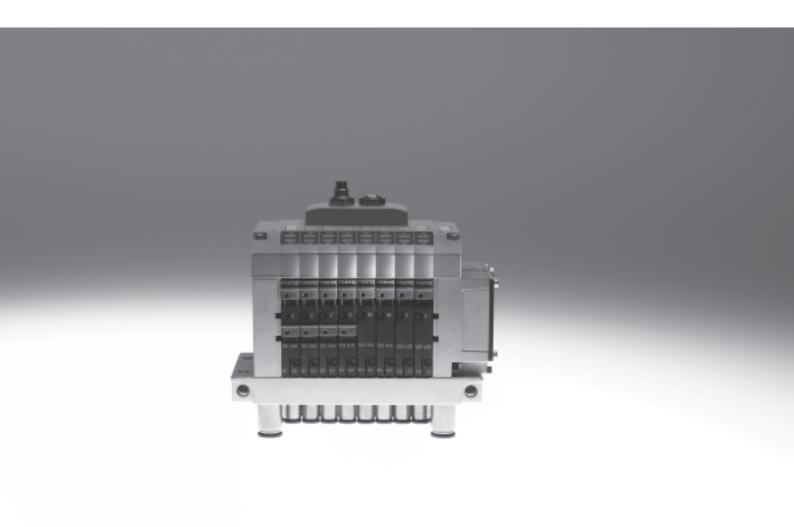
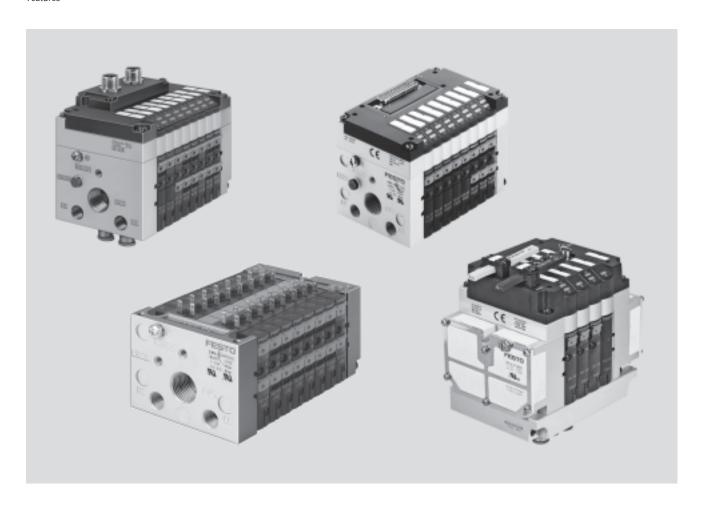
FESTO



Features



Innovative

- Cubic design for exceptional performance and low weight
- Low installation and bus connection costs
- Ideal for decentralised machines and system structures, for example
 - in handling technology
 - in conveyor technology
 - in the packaging industry
 - in sorting systems
 - in upstream machine functions
- Integrated diagnostics, condition monitoring (Fieldbus Direct)
- A string extension for Fieldbus Direct of 8 ... 32 inputs and
 - 8 ... 32 outputs is possible without any difficulty (version-dependent)

Versatile

- Flexible and cost-effective connection of 2 to 8 valve slices
- Highly flexible thanks to:
- various pneumatic functions (valve variants)
- different pressure ranges
- vacuum switches
- integrated vacuum generation
- relay plates with floating electrical outputs
- Separator plates for creating pressure zones
- Valves with integrated separation of channels 1 and 11
- Blanking plates for future expansion

Reliable

- LED displays
- Manual valve overrides
- Protection class to IP65
- Protection class IP65 also in conjunction with pneumatic multiple connector plate for control cabinet assembly
- CE mark
- ATEX certification (see Technical Data)

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 assembly without the need
 to replace the connected tubing
- Optimised assembly for control cabinets



Feature

CPV - The benefits at a glance

The CPV valve terminal is of unique design. It provides 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 of the components 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

application in a way that rules out operational errors.

The clear, large labelling system also contributes to the safe operation of the valve terminal.

A particular plus is the range of electrical connection technologies supported. All types of valve actuation are possible, from individual valve connections up to bus systems with versatile expansion options. The integration of electrical input and output modules permits cost-effective solutions within the different installation concepts.

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.

An optional inscription label holder can be placed on the front of the valve terminal.

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

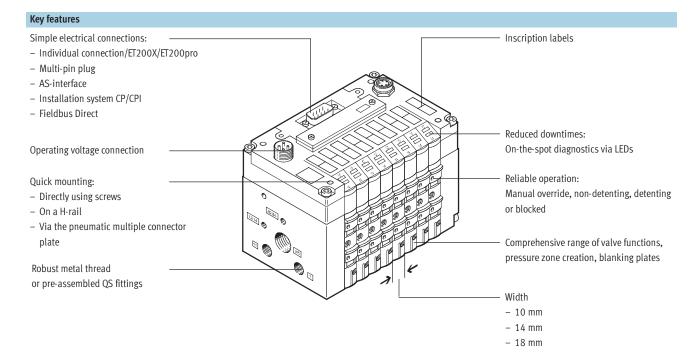
• Compressed air supply connections on the left, right or underneath

can be easily converted for that

- Pneumatic working ports and functional modules (vertical stacking) underneath
- Manual operation/identification on the front
- Electrical connection surface on the top
- Mounting surface at the back or the front via a pneumatic multiple connector plate



Feature



Equipment options

Valve functions

- 5/2-way valve, single solenoid
- 5/2-way valve (with channel separation 1, 11), single solenoid
- 5/2-way valve, single solenoid, fast-switching
- 5/2-way valve, double solenoid
- 5/2-way valve (with channel separation 1, 11), double-solenoid
- 2x 3/2-way valve, normally closed
- 2x 3/2-way valve (with channel separation 1, 11), normally closed

- 2x 3/2-way valve, normally open
- 2x 3/2-way valve (with channel separation 1, 11), normally open
- 2x 3/2-way valve, 1x normally open, 1x closed
- 2x 3/2-way valve, (with channel separation 1, 11) 1x normally open, 1x closed
- 2x 3/2-way valve, normally closed, integrated back pressure protection
- 5/3-way valve, mid position closed
- 2x 2/2-way valve, normally closed
 2x 2/2-way valve (with channel
- separation 1, 11), normally closed
- 2x 2/2-way valve, 1x normally open, 1x closed
- 2x 2/2-way valve, (with channel separation 1, 11) 1x normally open, 1x closed
- Vacuum generator
- Vacuum generator and 2/2-way valve with ejector pulse
- On some terminals a relay plate with two floating contacts can be chosen instead of a valve sub-base

Special features

Individual connection

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

Multi-pin plug connection

• 4, 6 or 8 valve positions, max. 16 solenoid coils

AS-interface

- 2, 4 or 8 valve positions, max. 8 solenoid coils
- 4 or 8 inputs for 4 or 8 valve positions

Installation system CP/CPI

- 4, 6 or 8 valve positions, max. 16 solenoid coils
- With CP/CPI string extension, further valve terminals and I/O modules with CP/CPI function can be connected

Fieldbus Direct

- 8 valve positions, max. 16 solenoid coils
- With CP/CPI string extension, further valve terminals and I/O modules with CP/CPI functions can be connected

Electrical connection for ET200X/ET200pro

• 8 valve positions, max. 16 solenoid coils

Note

A moulded seal is required for the valve terminal CPV10-ET200pro in order to achieve the IP protection class.

The moulded seal CPV10-..-GE-8 or CPV14-..-GE-8 must be ordered separately.



Feature

Electrical connections

Individual connection



Connection is independent of the control technology used and is flexible thanks to pre-assembled cables. This ensures correct polarity during installation. The connector plug is equipped with an LED which indicates switching status, and an overvoltage

protective circuit. It also features a built-in current reduction circuit. Individual connection permits the selection of 2 to 16 solenoid coils (divided between two to eight valve slices, including in uneven stages).

An intrinsically safe version rounds off the range.

Further information

→ Internet: cpv10-ex-vi

Multi-pin plug connection



Control signals from the controller to the valve terminal are transmitted via a pre-assembled multi-wire cable, which substantially reduces installation time. The current reduction circuit for the valves is also integrated in the multi-pin plug connection.

This valve terminal can be equipped with 4 to 16 solenoid coils (4, 6 or 8 valve slices).

AS-interface connection





A special feature of the AS-interface is the simultaneous transmission of data and supply power via a two-wire cable. The encoded cable profile prevents connection with incorrect polarity. If the valves have to be disconnected from mains power in an emergency, they can also be supplied with electrical power via a separate connection. Two versions are available for valve terminals for A/B operation.

The valve terminal with AS-interface can be configured as follows:

- Without inputs, with two or four valve slices (max. 4 solenoid coils) and additional power supply
- With four inputs and four valve slices (max. 8 solenoid coils)
- With four or eight inputs and four or eight valve slices (max. 8 solenoid coils) and additional power supply

 With four or eight inputs and four or eight valve slices including vacant position or positions (max. 6 solenoid coils for A/B operation to SPEC.2.1) and additional power supply. In A/B operation to SPEC.
 3.0 with profile 7.A.7 eight solenoid coils can be connected in contrast to the SPEC 2.1 version

Further information

→ Internet: as-interface

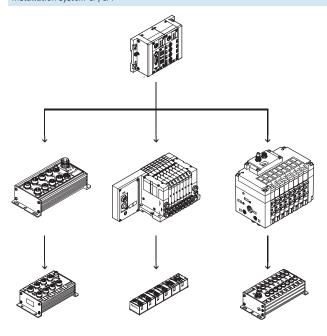
Note

Valve terminals to SPEC.2.1 cannot be operated on a master to SPEC.3.0 with profile 7.A.7.



Electrical connections

Installation system CP/CPI



Valve terminals with fieldbus connection are intended for connection to higher-order fieldbus nodes or to control blocks. A fieldbus node or control block also enables the connection of decentralised input/output modules. The following fieldbus protocols are

supported:

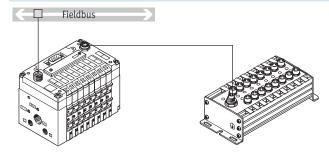
- Festo fieldbus, ABB CS31, Moeller Suconet K
- Interbus
- Allen Bradley (1771 RIO)
- DeviceNet
- Profibus DP
- CANopen
- CC-Link

Four strings with up to 32 inputs and 32 outputs (version-dependent) can be connected to a fieldbus node or control block. The CPV valve terminal is treated like an output module with up to 8 outputs (4, 6 or 8 valve slices or 4 to 16 solenoid coils per terminal). The connecting cables transmit all required electrical signals (control signals, operating voltage for the internal electronics of the module and load voltage supply for connected

Further information

→ Internet: ctec

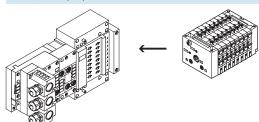
Fieldbus Direct



Fieldbus Direct is a system for the compact connection of a CPV, CPV-SC, CPA-SC or CDVI valve terminal to different fieldbus standards such as Profibus and DeviceNet. The fieldbus node is directly integrated in the electrical interface of the valve terminal and therefore takes up only a minimal amount of space. The CPI string extension option allows the functions and components of the CPI system to be used.

The new high-performance CPI string extension offers up to 4 supplementary CPI modules, combined with CP or CPI-compatible valve terminals for extension purposes. An expansion of the system, Fieldbus Direct of 8 ... 32 inputs and 8 ... 32 outputs is possible without any difficulty.

ET200X/ET200pro pneumatic interface for CPV10 and CPV14



Adaptation of the CPV valve terminal to the input/output module ET200X/ET200pro from Siemens: The combination of the ET200X/ET200pro functional modules and the pneumatic functions of the CPV valve terminal provides a highly integrateable automation solution for systems using electrical and pneumatic drives with:

- 8 valve slices for up to 16 CPV
- Fast and secure contacting to IP65
- CPV10 and CPV14 valve terminals
- Not permitted for CPV10-EX-VI
- High degree of protection IP65/IP67
- Modular design



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 specifications and 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

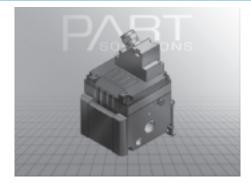
→ Internet: type 10

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

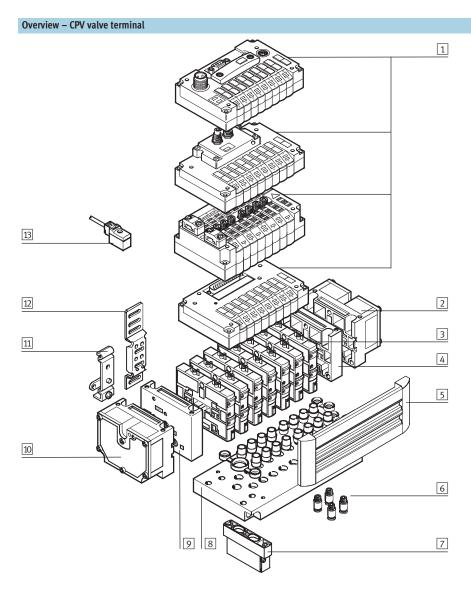
icon (compass). On the next page you can generate a 3D preview or request another data format of your choice by

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





Peripherals overview



- Basic electrical unit (Fieldbus Direct, CP/CPI installation system, AS-interface, multi-pin plug, individual connection)
- 2 Right-hand end plate with flat plate silencer
- 3 Comprehensive range of valve functions
- 4 Right-hand end plate (threaded connection not in conjunction with pneumatic multiple connector plate)
- 5 Holder for inscription labels
- 6 QS push-in fittings

- 7 Function block (vertical stacking)
- 8 Pneumatic multiple connector plate
- 9 Left-hand end plate (threaded connection not in conjunction with pneumatic multiple connector plate)
- 10 Left-hand end plate with flat plate silencer
- 11 H-rail mounting
- 12 Wall mounting
- 13 Plug socket with cable for individual connection



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 life.

The pneumatic components and

functions are always identical for all actuator types. Most functions are also available in the various valve sizes (grid dimensions). Restrictions should be noted where applicable.

Valve fu	nction				
Code	Circuit symbol	Size			Description
		10	14	18	
M, MK	16 4 2				5/2-way valve, single solenoid
	14 4 2				Pneumatic spring return
	14 84 5 1 3 12	-			Piston spool valve
	14 04 5 1 5 12				With duct separation 1, 11 for valve MK
					Size 18 only available for valve M
F	14 4 2				5/2-way valve, single solenoid
					Pneumatic spring return
	14 84 5 1 3 12	_	_	_	Piston spool valve
	17 07 3 1 3 AA				Fast switching
J, JK	14 4 2 12				5/2-way valve, double solenoid
	14 4 2 12	_		•	Piston spool valve
	14 84 5 1 3 12	-	-		With duct separation 1, 11 for valve JK
	14 64 5 1 5 12				Size 18 only available for valve J
C, CK	4 2				2x 3/2-way valve, single solenoid
	14 112				Normally closed
		_		_	Pneumatic spring return
	[_	_	-	Piston spool valve
	14 82/84 1 12 11 3/5				With duct separation 1, 11 for valve CK
					Size 18 only available for valve C
CY	4 2				2x 3/2-way valve, single solenoid
	112				Normally closed
					Pneumatic spring return
					Integrated back pressure protection
	14 82/84 1 3/5 12 11	l _			Piston spool valve
		-	_	_	Not suitable for vacuum
					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.
		L		1	and the second of the second o



Valve fu	nction					
Code	Circuit symbol	Size			Description	
		10	14	18		
N, NK	1482/84 1 12 11 3/5	•	•	•	2x 3/2-way valve, single solenoid Normally open Pneumatic spring return Piston spool valve With duct separation 1, 11 for valve NK Size 18 only available for valve N The function of a 5/3-way valve with mid-position pressurised can be implemented with these valves with initial position open.	
Н, НК	1482/84 1 12 11 3/5	•	•	•	2x 3/2-way valve, single solenoid Normal position 1x open (pilot control 12) 1x closed (pilot control 14) Pneumatic spring return Piston spool valve With duct separation 1, 11 for valve HK Size 18 only available for valve H 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.	
G	14 84 5 1 3	-	-	•	5/3-way valve, mid-position closed • Mechanical spring return • Piston spool valve	
	82/84 A 2 112/14 1 3/5 V 111	•	•	-	5/3G ¹⁾ , function, mid-position closed For size 10 and 14 The valve function "mid-position closed" is created using a 2x 3/2-way valve, normally closed (code C). The valve kit CPV10-BS-5/3G-M7 or CPV14-BS-5/3G-1/8 (incorporating a double piloted non-return valve function) is used for this. This valve kit is for applications with one working pressure level per valve slice, i.e. it should 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	

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

A filter must be installed upstream of valves operated in vacuum mode. This prevents any foreign matter in the intake air getting into the valve (e.g. when operating a suction cup).



Valve fu	nction				
Code	Circuit symbol	Size			Description
		10	14	18	
	14 112 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, CK). • Pneumatic spring return • Piston spool valve
	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, NK). • Pneumatic spring return • Piston spool valve
D, DK	14 82/84 1 12 11	•	•	•	2x 2/2-way single solenoid valve Normally closed Pneumatic spring return Piston spool valve With duct separation 1, 11 for valve DK Size 18 only available for valve D
I, IK	14 82/84 1 12 11	•	•	•	2x 2/2-way single solenoid valve Normal position 1x open (control side 12) 1x closed (control side 14) Pneumatic spring return Piston spool valve With duct separation 1, 11 for valve IK Size 18 only available for valve I
R	Relay plate (2 floating contacts)	•	-	-	A relay plate (code R) with (normally open contacts) can also be used instead of a valve slice. Each relay plate has two relays for actuating two electrically isolated outputs. Load capacity: 24 V DC, 1 A. • Connecting cable KRP-1-24 • An inscription label holder cannot be used



Addition	al pneumatic functions					
Code	Circuit symbol	Size			Description	
		10	14	18		
Α	Vacuum generator A 2 14 84 1 3/5 11	•	•		Vacuum generation according to the ejector principle. Vacuum slices of different widths for different suction capacities. Combinations with a number of vacuum slices and/or directional control function slices are possible on the same valve terminal. In principle, an open connection is formed between the exhaust duct 3/5 and the working line 4. When the nozzle is not switched, the resulting back pressure in the exhaust duct flows back into the working line. When the nozzle is switched, the vacuum can be greatly reduced by the resulting back pressure.	
Е	Vacuum generator with ejector pulse	•	•	•	This effect is improved through optimised exhausting. It does not occur where there is only one vacuum generator per valve terminal and where separator plates (code S) are used for separation. Vacuum generator on pilot side 14 Reset via mechanical spring and pneumatic spring Ejector pulse on pilot side 12 (code E) Note air supply and exhaust when using more than two vacuum generators	
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 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)	
V	Input (valve side) 2 4 Output (cylinder side)	•	•	_	One-way flow control valve for vacuum The module CPVBS-GRZ-V has a built-in non-return valve as well as a flow control function for adjusting the ejector pulse. The non-return valve serves to temporarily maintain the vacuum, even if the vacuum generator is switched off. The module is suitable for vacuum generators (code A, E). 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)	



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
- Number of valve slices

With the aid of separator plates or valves with integrated duct separation you can divide the CPV valve terminal into 2 to 4 pressure zones.

Separa	tor plates/valves with integrated duct separation				
Code	Graphical symbol	Size			Note
		10	14	18	
T	Separator plate for creating pressure zones, supply duct 1 and 11 separated Pilot exhaust air Pilot air supply Exhaust Working air Working air Working air Pilot exhaust Working air Working air	-	•	•	A separator plate (code T) is used to separate the duct for the air supply (port 1 and 11) to provide two pressure zones. Not in first or last valve position Not with compressed air supply A, B, C, D, U, V, W, X
S	Separator plate for creating pressure zones, supply duct 1, 11 and exhaust 3/5 separated Pilot exhaust air Pilot air supply Exhaust Working air Working air Pilot exhaust Working air Pilot exhaust Working air	•	•	•	The separator plate (code S) separates the exhaust duct 3/5 as well as the supply duct 1 and 11. This plate should be used if one of the pressure zones is under vacuum to avoid any effects on the vacuum or to prevent backpressure on neighbouring valve functions. • Not in first or last valve position • Not with compressed air supply A, B, C, D, U, V, W, X (single-side compressed air supply)
L	Blanking plate (vacant position) Pilot exhaust air 82/84 Pilot air supply 12/14 Exhaust 3/5 Working air 1 Working air 11	•	•	•	A vacant position is created using a blanking plate (code L); a valve can be positioned here at a later date.
MK, JK, CK, NK, DK, IK	Pilot exhaust air Pilot air supply Exhaust Working air Pilot exhaust Working air Pilot exhaust	•	•	-	With these valves the ducts for the air supply (connections 1 and 11) are closed to the right-hand side of the valve with a cast membrane. The advantage of using this instead of a separator plate is that no valve location is occupied by a separator plate.



Examples: Pneumatic supply

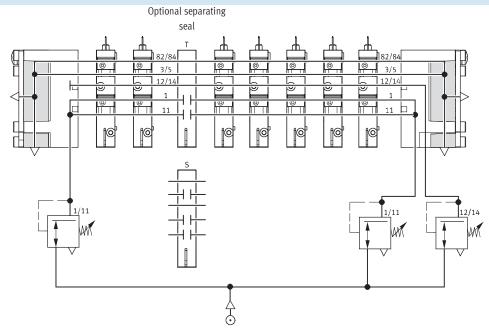
External pilot air supply, flat plate silencer at both ends

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.

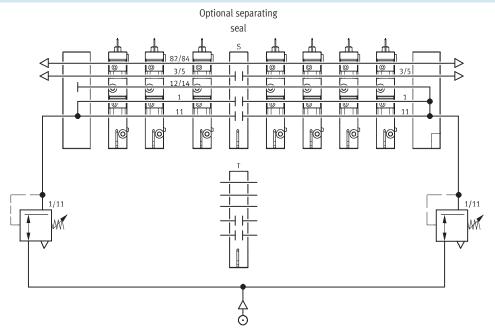


Internal pilot air supply, ducted exhaust air or screw-in silencer

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 is branched at the right-hand end plate of port 1 or 11. Ports 3/5 and 82/84 are vented via the screw-in silencer. One separating seal each can be used

optionally to create pressure zones.



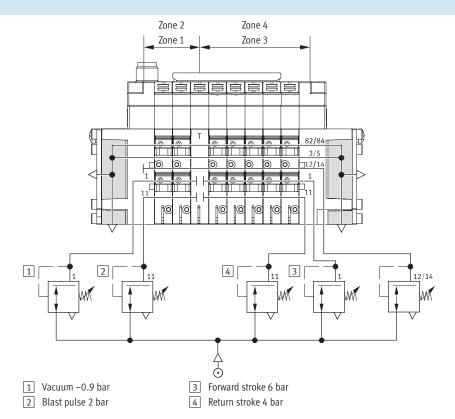


Key features – Pneumatic components

Example: Creating pressure zones

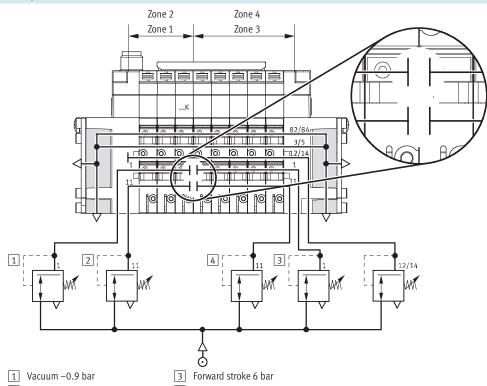
CPV with separator plate T

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.



CPV with integrated duct separation 1 and 11 by valves ...K

With the CPV valve terminals up to 4 pressure zones can be implemented. The diagram shows as an example the structure and connection of four pressure zones with external pilot air supply and the use of a valve ...K with integrated duct separation 1 and 11.



- 2 Blast pulse 2 bar
- 4 Return stroke 4 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 or combinations of vacuum applications.

The valve terminal is supplied via end plates, either on the left, on the right, or on both sides. End plate combinations other than those listed are possible (on request).

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. The branch is located in the left or right-hand end plate with internal pilot air supply. There is no port 12/14.

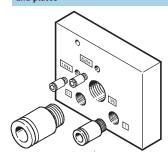
External pilot air supply

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 air supply should be selected as the control pressure applied during switch-on is already very high. External pilot air supply is also required if it is necessary to ensure that the back pressure flaps (valve order code CY) are closed securely in the event of a sudden drop in operating pressure or if the operating pressure is switched off.

End plates



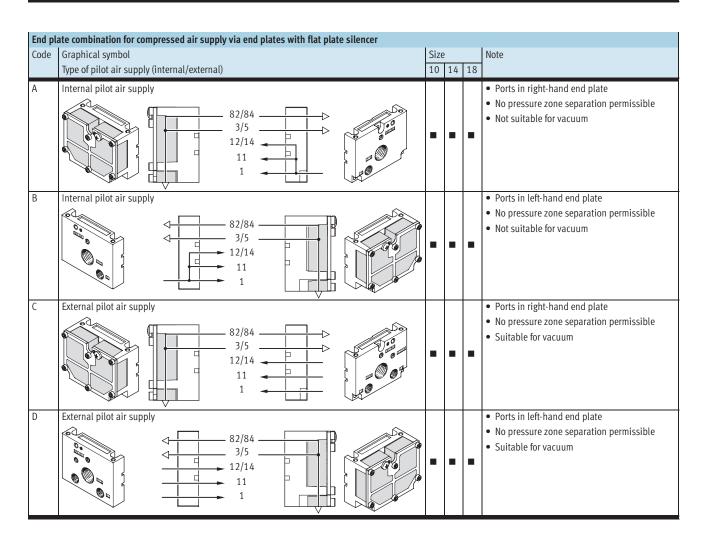
Example of an end plate: The figure shows a left-hand end plate with external pilot air supply. The exhaust connections 3/5 and 82/84 can be fitted with threaded connections or silencers. An end plate for internal pilot air supply does not have ports 12/14 and 11. Port 82/84 is always present and should be provided with a silencer. Port 12/14 is connected internally with port 1 on an end plate for internal pilot air supply.



End pla	ate combination for compressed air supply via end plate				
Code	Graphical symbol	Siz			Note
	Type of pilot air supply (internal/external)	10	14	18	
U	Internal pilot air supply 82/84 3/5 12/14 11 1	•	•	•	Ports in right-hand end plate only No pressure zone separation permissible Not suitable for vacuum
V	Internal pilot air supply 82/84 3/5 12/14 11	•	•	•	Ports in left-hand end plate only No pressure zone separation permissible Not suitable for vacuum
W	External pilot air supply 82/84 3/5 12/14 11 1	•	•	•	Ports in right-hand end plate only No pressure zone separation permissible Suitable for vacuum
X	External pilot air supply 82/84 12/14 11 1	•	•	•	Ports in left-hand end plate only No pressure zone separation permissible Suitable for vacuum
Y	Internal pilot air supply 82/84 12/14 11 11	•	•	•	Ports in left-hand and right-hand end plate Maximum three pressure zones Valves to the left of the separator plate suitable for vacuum
Z	External pilot air supply 82/84 12/14 11 11	•	•	•	Ports in left-hand and right-hand end plate Maximum four pressure zones Suitable for vacuum

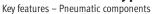


End pl	ate combination for compressed air supply via pneumatic multiple connector plate				
Code	Graphical symbol	 Size			Note
	Type of pilot air supply (internal/external)	10	14	18	
Y	Internal pilot air supply 82/84 3/5 12/14 11		•	•	 Ports on pneumatic multiple connector plate Pressure zone separation only permissible with separator plate (code T) Maximum two pressure zones Valves to the left of the separator plate suitable for vacuum Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)
Z	External pilot air supply 82/84 3/5 12/14 11		•	•	 Ports on pneumatic multiple connector plate Pressure zone separation only permissible with separator plate (code T) Maximum three pressure zones Suitable for vacuum Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)



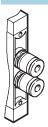


End pl	ate combination for compressed air supply via pneumatic multiple connector plate with flat	plate	siler	ıcer	
Code	Graphical symbol	Size)		Note
	Type of pilot air supply (internal/external)	10	14	18	
E	External pilot air supply 82/84 3/5 12/14 11 1	•	•	•	 Ports on pneumatic multiple connector plate Exhaust air vented via flat plate silencers on the right Pressure zone separation only permissible with separator plate (code T) Maximum four pressure zones Suitable for vacuum 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 silencers on the left Pressure zone separation only permissible with separator plate (code T) Maximum four pressure zones Suitable for vacuum Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)
G	Internal pilot air supply 82/84 3/5 12/14 11 1	•	•	•	 Ports on pneumatic multiple connector plate Exhaust air vented via flat plate silencers on the left Pressure zone separation only permissible with separator plate (code T) Maximum three pressure zones Not suitable for vacuum 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 Suitable for vacuum 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 Valves to the left of the separator plate suitable for vacuum Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)
К	Internal pilot air supply 82/84 3/5 12/14 11 1	•	•	•	 Ports on pneumatic multiple connector plate Exhaust air vented via flat plate silencers on the right Pressure zone separation permissible Maximum three pressure zones Suitable for vacuum in combination with separator plate Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate)





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 the

pneumatic multiple connector plate. Push-in fittings are available fully assembled.

The following working ports can be selected:

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

Pneumatic multiple connector plate

One-piece "connection plates" that contain both working lines and supply ports can be combined with a pneumatic multiple connector plate. These plates enable 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.

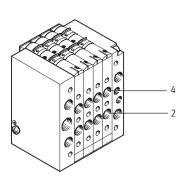
Service-friendly and flexible connection technology thanks to the following:

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

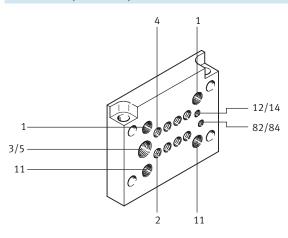
removed/fitted using only four screws, whereby the pneumatics remain fully connected

- Quick removal/fitting
- No errors when recommissioning as a result of incorrect connection of tuhing

CPV valve terminal



Pneumatic multiple connector plate



Connect	tion sizes				
Connection to ISO 5599		CPV10	CPV14	CPV18	Comment
1/11	Working air	G ¹ / ₈	G ¹ / ₄	G ³ / ₈	Fitting in end plate or pneumatic multiple connector plate
2/4	Working port	M7 (QS6/QS4)	G1/8 (QS8/QS6)	G1/4 (QS10/QS8)	Connection in valve slice, connection for push-in fitting in brackets
3/5	Exhaust air port	G3/8	G ¹ / ₂	G ¹ / ₂	Via right-hand/left-hand end plate
		G1/4	G3/8	G ¹ / ₂	Pneumatic multiple connector plate
12/14	Pilot air supply port	M5	G ¹ / ₈	G ¹ / ₄	Fitting in end plate or pneumatic multiple connector plate
82/84	Pilot exhaust air port	M5	G ¹ /8	G1/4	Via right-hand/left-hand end plate
		M7 (M5) ¹⁾	G ¹ / ₈	G ¹ / ₄	Pneumatic multiple connector plate

¹⁾ With flanged pneumatic multiple connector plate



neumatic connection: Fitti	ing set for compressed	-	,			
	Code	Port	Designation	Size 10	Size 14	Size 18
	Compressed air			QS6	QS8	QS10
	supply			Туре	Туре	Туре
	Without pneumat	ic multiple connect	or plate			
	U, V	82/84	Silencer	U-M5	U-1/8-B	U-1/4-B
		3/5	Silencer	U-3/8-B	U-1/2-B	U-1/2-B
		1	Push-in fitting	QS-1/8-8-I	QS-1/4-10-I	QS-3/8-12-I
	W, X	82/84	Silencer	U-M5	U-1/8-B	U-1/4-B
	VV, /\	3/5	Silencer	U-3/8-B	U-1/2-B	U-1/2-B
		1	Push-in fitting	QS-1/8-8-I	QS-1/4-10-l	QS-3/8-12-I
		_			-	-
		12/14	Push-in fitting	QSM-M5-6-I	QS-1/8-8-I	QS-1/4-10-I
	Υ	82/84 on right	Silencer	U-M5	U-1/8-B	U-1/4-B
		82/84 on left	Blanking plug	B-M5	B-1/8	B-1/4
		3/5 on right	Silencer	U-3/8-B	U-1/2-B	U-1/2-B
		3/5 on left	Blanking plug	B-3/8	B-1/2	B-1/2
		1/11 on left	Push-in fitting	QS-1/8-8-I	QS-1/4-10-I	QS-3/8-12-I
				.		
	Z	82/84 on right	Silencer	U-M5	U-1/8-B	U-1/4-B
		82/84 on left	Blanking plug	B-M5	B-1/8	B-1/4
		3/5 on right	Silencer	U-3/8-B	U-1/2-B	U-1/2-B
		3/5 on left	Blanking plug	B-3/8	B-1/2	B-1/2
		12/14 on right	Push-in fitting	QSM-M5-6-I	QS-1/8-8-I	QS-1/4-10-I
		12/14 on left	Blanking plug	B-M5	B-1/8	B-1/4
		1/11	Push-in fitting	QS-1/8-8-I	QS-1/4-10-I	QS-3/8-12-I
	•	nultiple connector p				
	Υ	82/84	Silencer	UC-M7	U-1/8-B	U-1/4-B
		12/14	Blanking plug	B-M7	B-1/8	B-1/4
		3/5	Silencer	U-1/4-B	U-3/8-B	U-1/2-B
		1/11 on left	Push-in fitting	QS-1/8-8-I	QS-1/4-10-I	QS-3/8-12-I
		11 on right	Blanking plug	B-1/8	B-1/4	B-3/8
	Z	82/84	Silencer	UC-M7	U-1/8-B	U-1/4-B
	_	3/5	Silencer	U-1/4-B	U-3/8-B	U-1/2-B
		12/14	Push-in fitting	QSM-M7-6-I	QS-1/8-8-I	QS-1/4-10-I
		1/11 on left	Push-in fitting	QS-1/8-8-I	QS-1/4-10-I	QS-3/8-12-I
		,		17.		
	,	nultiple connector p				
	Υ	82/84	Silencer	U-M5	U-1/8-B	U-1/4-B
		12/14	Blanking plug	B-M5	B-1/8	B-1/4
		3/5	Silencer	U-1/4-B	U-3/8-B	U-1/2-B
		1/11 on left	Push-in fitting	QS-1/8-8-I	QS-1/4-10-I	QS-3/8-12-I
		11 on right	Blanking plug	B-1/8	B-1/4	B-3/8
	7	82/84	Silencer	U-M5	U-1/8-B	U-1/4-B
		3/5	Silencer	U-1/4-B	U-3/8-B	U-1/2-B
		12/14	Push-in fitting	QSM-M5-6-I	QS-1/8-8-I	QS-1/4-10-I
		117/1/			1001601	100 17, 10 1



eumatic connection: Fi	tting set for compressed		,			
	Code	Port	Designation	Size 10	Size 14	Size 18
	Compressed air			QS6	QS8	QS10
	supply			Туре	Туре	Туре
, Sin	Without pneuma	ic multiple connecto	r plate			
	A, B	82/84	Blanking plug	B-M5	B-1/8	B-1/4
		3/5	Blanking plug	B-3/8	B-1/2	B-1/2
		1	Push-in fitting	QS-1/8-8-I	QS-1/4-10-I	QS-3/8-12-I
		1	T	T ₂	T /	T /
	C, D	82/84	Blanking plug	B-M5	B-1/8	B-1/4
		3/5	Blanking plug	B-3/8	B-1/2	B-1/2
		1	Push-in fitting	QS-1/8-8-I	QS-1/4-10-I	QS-3/8-12-I
		12/14	Push-in fitting	QSM-M5-6-I	QS-1/8-8-I	QS-1/4-10-I
	With pneumatic r	nultiple connector pl	ate: code M			
	E, F, H	82/84	Blanking plug	B-M7	B-1/8	B-1/4
	 , .,	3/5	Blanking plug	B-1/4	B-3/8	B-1/2
		1/11	Push-in fitting	QS-1/8-8-I	QS-1/4-10-I	QS-3/8-12-I
		12/14	Push-in fitting	QSM-M7-6-I	QS-1/8-8-I	QS-1/4-10-I
		12/11			QC /C C .	ζο /4 10 .
	G, J, K	82/84	Blanking plug	B-M7	B-1/8	B-1/4
		3/5	Blanking plug	B-1/4	B-3/8	B-1/2
		on right in 1, left	Push-in fitting	QS-1/8-8-I	QS-1/4-10-I	QS-3/8-12-I
		on right in 11	Blanking plug	B-1/8	B-1/4	B-3/8
		12/14	Blanking plug	B-M7	B-1/8	B-1/4
	Mith macumatics	nultiple connector pl	ata cada D.COC			
	E, F, H	82/84	Blanking plug	B-M5	B-1/8	B-1/4
	E, 1, 11	3/5	Blanking plug	B-1/4	B-3/8	B-1/2
		1/11	Push-in fitting	QS-1/8-8-I	QS-1/4-10-I	QS-3/8-12-I
		12/14	Push-in fitting	QSM-M5-6-I	QS-1/8-8-I	QS-78-12-1 QS-1/4-10-1
		12/14	r usii-iii iittiiig	QSINI-INI J-0-I	Q3-78-0-1	Q3-74-10-1
	G, J, K	82/84	Blanking plug	B-M5	B-1/8	B-1/4
		3/5	Blanking plug	B-1/4	B-3/8	B-1/2
		on right in 1, left	Push-in fitting	QS-1/8-8-I	QS-1/4-10-I	QS-3/8-12-I
		on right in 11	Blanking plug	B-1/8	B-1/4	B-3/8
		12/14	Blanking plug	B-M5	B-1/8	B-1/4



Key features – Pneumatic components

CPV valve terminal size 10 and 14 with valve extensions

Function blocks

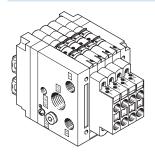


CPV10-BS-5/3G-M7 CPV14-BS-5/3G-1/8 Valve kit 5/3G for creating a 5/3-way function, mid-position closed, for size 10 and 14:

The valve function "mid-position closed" is created using a valve slice with 2x 3/2-way valve, normally closed (valve function code C). The valve kit CPV10-BS-5/3G-M7 or CPV14-BS-5/3G-1/8 (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
- 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 CPV14-BS-2xGRZZ-1/8

- for supply air flow control



CPV10-BS-2xGRAZ-M7 CPV14-BS-2xGRAZ-1/8

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



CPV10-BS-GRZ-V-M7 CPV14-BS-GRZ-V-1/8

- Vacuum flow control module
- Additional function code V





Mounting options

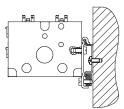
The valve terminals have holes for four mounting screws. In this case the mounting side is the side with the pneumatic threaded connectors. These holes are also used to mount the valve terminal on a pneumatic multiple connector plate.

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 (CPV10/14 with IC connection only)
- 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 CPV10/14: CPV10/14-VI-BG-NRH-35 (mounting code H)



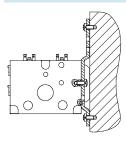
for valve terminal CPV18: CPV18-VI-BG-NRH-35 (mounting code H)



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



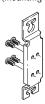
Attachment for wall mounting



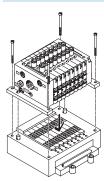
for valve terminal CPV10/14: CPV10/14-VI-BG-RWL-B (mounting code U)



for valve terminal CPV18: CPV18-VI-BG-RW (mounting code W)



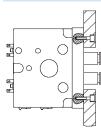
Attachment for individual connection and ET200X/ET200pro (included in the scope of delivery)



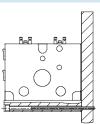
for valve terminal CPV10/14: CPV...-VI-BG-ET200X (mounting code X)



Through-hole in wall, for example on the machine



Wall mounting via pneumatic multiple connector plate

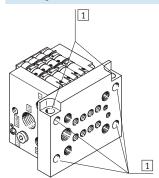




Key features - Assembly

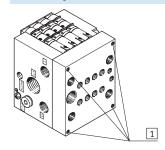
Pneumatic multiple connector plate for wall/machine mounting

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



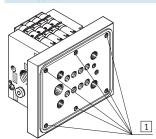
- Multiple connector plate fits flush with the end plates
- Mounting holes (with thread) for wall or foot mounting are on the connection side of the pneumatic multiple connector plate

1 Mounting holes

1 Mounting holes

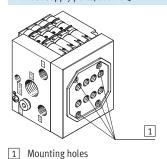
Pneumatic multiple connector plate for control cabinet assembly

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



are on the connection side of the pneumatic multiple connector plate

• Multiple connector plate fits flush

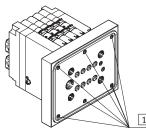
• The mounting holes (with thread)

with the end plates

• Multiple connector plate with seal

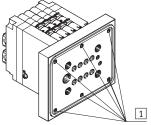
1 Mounting holes

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
- 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 CPV, Compact PerformanceKey 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 be $% \left\{ \left(1\right) \right\} =\left\{ \left(1\right) \right\} =\left\{$ removed to this end. This is only possible after the individual valve has been removed or the tie rod of the valve terminal has been released.

Note

See the manual for instructions.

Code	Graphical symbol	Size			Note
		10	14	18	
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, non-detenting and detenting activation of the MO is prevented by means of a cover. Like the non-detenting locking clip, this cover can be added subsequently, but then remains on the valve.



Key features – Display and operation

Display and operation

You will find the following LEDs for displaying the switching status on the electrical connections of the CPV valve terminal:

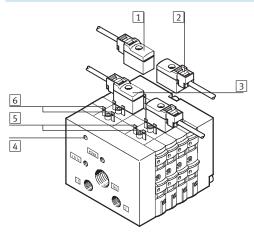
- Display of the switching status of the pilot solenoid coil 12 for output 2
- Display of the switching status of the pilot solenoid coil 14 for output 4
- Readable from the "top" as well as from the "front"

The individual connection has an LED in the connector plug to display the switching status.

Inscription labels

- Clip with inscription field on cable socket (with individual connection)
- Inscription clips on connection node (multi-pin plug, AS-interface, CP installation system, Fieldbus Direct)

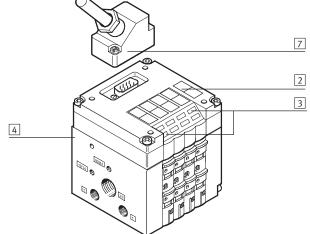
CPV valve terminal with individual connection



- 1 Pre-assembled connection socket for each pilot solenoid coil
- 2 Slot for inscription label (for each connection socket)
- 3 Yellow LED, signal status display for pilot solenoid coils (for each connection socket)
- 4 Earth terminal



CPV valve terminal with multi-pin plug connection



- 5 Terminal lug for solenoid coil 14
- 6 Terminal lug for solenoid coil 12
- 7 Sub-D multi-pin plug (9-pin for valve terminals with 4 valves, 25-pin for valve terminals with 6 or 8 valves)



Key features – Display and operation

Inscription system

Inscription labels can be affixed as follows:

- On the top of the electrical base unit
- On the inscription label holder
 The inscription label holder permits
 the addition of inscription labels,
 protects the manual overrides and
 prevents them from being accidentally
 activated. The inscription labels are
 used to record additional information
 regarding the valves.

The inscription label holders can be ordered together with the valve terminal using the order code. The relevant inscription labels are supplied in a frame and are ordered separately.

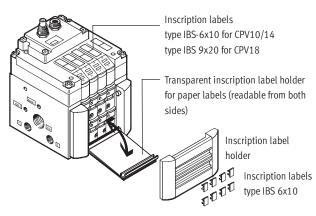
Transparent inscription label holder

The transparent inscription label holder CPV...-VI-ST-... offers a further labelling option, for example for large paper labels that can be read from both sides.

The inscription label holder cannot be used together with the relay plate.

Note

The Word templates for CPV label holders can be found at: www.festo.com



Ordering data								
	Code	Designation	Туре	Part No.				
Inscription label holder								
	Z	Holder for inscription labels	CPVVI-BZ-T	Dependent on the number of valve positions • 65				
	Т	Holder for inscription labels, transparent	CPVVI-ST-T					
Inscription labels								
// Inscription tabets	-	6x10 mm, 64 pieces in frames	IBS-6x10	18576				
	-	9x20 mm, 20 pieces in frames	IBS-9x20	18182				

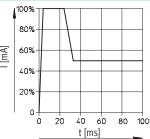
FESTO

Key features – Electrical components

Electrical connection

Contacts which are fitted on the top of the valve slice form the interface for various electrical connection options. The electrical connection is attached from above using four screws. This means that the valve terminal can be adapted to different electrical requirements or fieldbus protocols using the same pneumatic part.

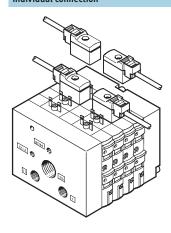
Electrical power



CPV10/14 valves are actuated by means of an integrated current reduction circuit, which reduces power consumption and heat build-up. This current reduction circuit is integrated in the electrical base unit (multi-pin plug or fieldbus connection) or in the individual connecting cable.

During switch-off, the voltage peaks are limited to 38 V DC.

Individual connection



With individual connections, integration is only carried out in the pneumatic part whereby the solenoid valves are connected with individual cables.

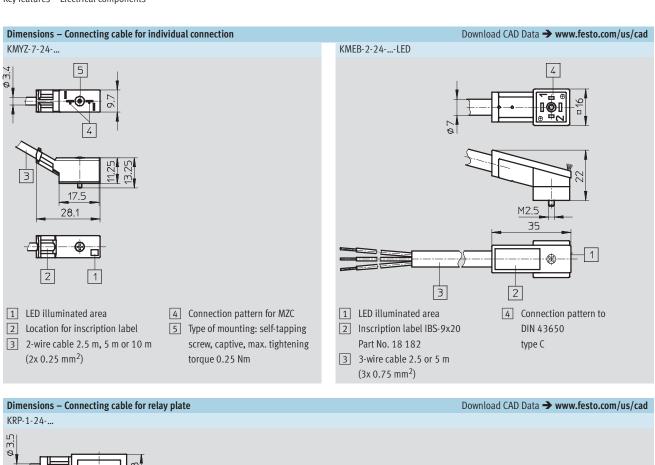
Ordering data					
	Code	Designation	Designation		Part No.
Plug socket with ca	able for individu	ual connection, electrical, for CPV10/14			
	D	Plug socket with cable	2.5 m	KMYZ-7-24-2,5-LED-PUR	193683
	E	Plug socket with cable	5 m	KMYZ-7-24-5-LED-PUR	193685
	F	Plug socket with cable	10 m	KMYZ-7-24-10-LED-PUR	196070
	I.				
Plug socket with ca	able for individu	ual connection, electrical, for CPV18			
	D	Plug socket with cable	2.5 m	KMEB-2-24-2,5-LED	174844
	E		5 m	KMEB-2-24-5-LED	174845

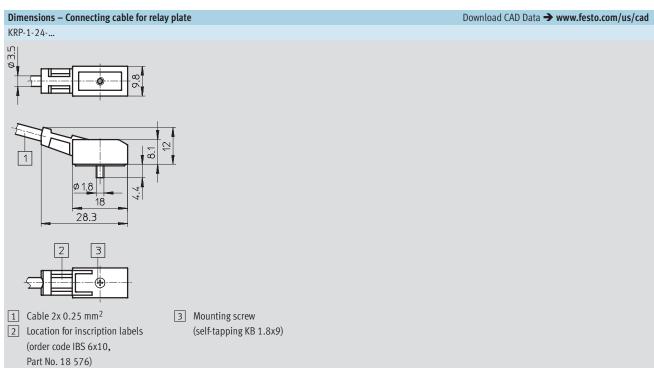
Note

Connecting cables are pre-assembled. They include a protective circuit and an LED indicating the operating status.



Key features – Electrical components

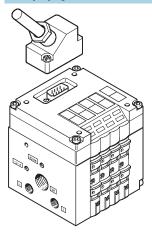






Key features – Electrical components

Multi-pin plug connection



In addition to pneumatic integration, multi-pin plug connection also provides integration of the electrical side, and facilitates connection to the control cabinet and the valve terminal via a single cable.

Sub-D 9-pin and 25-pin plugs are used for connection. The plug housing of the KMP-...- cable provides the Sub-D connectors with IP65 protection.

The following sizes of plug connector are used:

- 4-valve valve terminal: 9-pin
- 6-valve valve terminal: 25-pin
- 8-valve valve terminal: 25-pin

Pre-assembled connecting cables are available for easy connection.

Standard lengths of 5 m and 10 m can be supplied. The pre-assembled connecting cables are also available in a design suitable for energy chains.

The cable KMP6-... can alternatively be used for applications with IP40 protection.

Ordering data						
	Code	Designation			Туре	Part No.
Multi-pin plug cable						
	Υ	Plug socket (Sub-D plug can be crimped), for self-assembly	9-pin		SD-SUB-D-BU9	18708
			25-pin		SD-SUB-D-BU25	18709
11	R	Connecting cable, IP65, polyvinyl chloride	9-pin	5 m	KMP3-9P-08-5	18698
			25-pin		KMP3-25P-16-5	18624
	S		9-pin	10 m	KMP3-9P-08-10	18579
			25-pin		KMP3-25P-16-10	18625
	-	Connecting cable, IP65, polyurethane	9-pin	5 m	KMP4-9P-5-PUR	193014
		(suitable for energy chains)	25-pin		KMP4-25P-5-PUR	193018
	-		9-pin	10 m	KMP4-9P-10-PUR	193015
			25-pin		KMP4-25P-10-PUR	193019
		Connecting cable, IP65, polyvinyl chloride	9-pin	5 m	KMP4-9P-5-PVC	193012
		(suitable for energy chains)	25-pin		KMP4-25P-5-PVC	193016
			9-pin	10 m	KMP4-9P-10-PVC	193013
			25-pin		KMP4-25P-10-PVC	193017
/2 n	-	Connecting cable, IP40, polyvinyl chloride	9-pin	2.5 m	KMP6-09P-8-2,5	531184
		only for CPV10/14	25-pin		KMP6-25P-20-2,5	530046
			9-pin	5 m	KMP6-09P-8-5	531185
			25-pin		KMP6-25P-20-5	530047
			9-pin	10 m	KMP6-09P-8-10	531186
			25-pin		KMP6-25P-20-10	530048



Pin allocation – Pre-assembl	ed multi-pin cable (viewed from pl	ug-in direction)			
	Plug view	Pin	Wire colour	Valve 24 V DC	
Cable KMP3-25P-16 or KMF	P4-25P with 25-pin Sub-D plug for	r 6-valve and 8-val	ve valve terminal		
		1	White	1	14
	140 01	2	Green		12
	150 02	3	Yellow	2	14
	160 03	4	Grey		12
	170 04	5	Pink	3	14
	ll o 511	6	Blue		12
6/	180 06	7	Red	4	14
	190 07	8	Purple		12
	200 08	9	Grey-pink	5	14
	210 09	10	Red-blue		12
	220 010	11	White-green	6	14
	230	12	Brown-green		12
	240 012	13	White-yellow	7	14
	250 013	14	Yellow-brown		12
		15	White-grey	8	14
		16	Grey-brown		12
		17	White-pink (KMP4 only)		
		18	Pink-brown (KMP4 only)		
		19	White-blue (KMP4 only)		
		20	Brown-blue (KMP4 only)		
		21	White-red (KMP4 only)		
		22	Brown-red (KMP4 only)		
		23	White-black (KMP4 only)		
		24	Brown	(0 V) ¹⁾	
		25	Black	(0 V) ¹⁾	
		•	•	<u>.</u>	•
Cable KMP3-9P or KMP4-9F	with 9-pin Sub-D plug for 4-valve	e valve terminal			
		1	White	1	14
	(6 0 0 1)	2	Green		12
	7 0 0 2	3	Yellow	2	14
	8003	4	Grey		12
	9004	5	Pink	3	14
//	0 5	6	Blue		12
//		7	Red	4	14
~		8	Purple		12
		9	Black	Common	

^{1) 0} V for positive switching control signals; connect 24 V for negative switching control signals; mixed operation is not permitted.



Pin allocation – Pre-assembled m	nulti-pin cable (viewed from plug-in di	rection)					
	Plug view	Pin	Wire colour	Valve 24 V DC			
Cable KMP6-25P-20 with 25-pin Sub-D plug for 6-valve and 8-valve valve terminals							
£ ~~		1	White	1	14		
	140 01	2	Brown	1	12		
	150 0 2	3	Green	2	14		
	03	4	Yellow	1	12		
	160 04	5	Grey	3	14		
-	170 05	6	Pink	1	12		
	180 06	7	Blue	4	14		
	190 07	8	Red	1	12		
	200 08	9	Black	5	14		
	210 09	10	Purple	1	12		
	220 010	11	Grey-pink	6	14		
	²³ 0 _{O11}	12	Red-blue]	12		
	240 012	13	White-green	7	14		
	250 013	14	Brown-green	1	12		
		15	White-yellow	8	14		
		16	Yellow-brown		12		
		17	White-grey				
		18	Grey-brown				
		19	White-pink				
		20	Pink-brown				
		21	White-blue ¹⁾				
		22	Brown-blue ¹⁾				
		23	White-red ¹⁾				
		24	Brown-red ¹⁾	(0 V) ²⁾			
		25	White-black ¹⁾	(0 V) ²⁾			
Cable KMP6-9P-20 with 9-pin Su	ub-D plug for 4-valve valve terminals						
8		1	White	1	14		
	(6 0 0 1)	2	Brown		12		
	7 0 0 2	3	Green	2	14		
	80 3	4	Yellow		12		
	9004	5	Grey	3	14		
	0 5	6	Pink		12		
		7	Blue	4	14		
		8	Red		12		
		9	Black	Common			

Wire cross section 0.34 mm²
 0 V for positive switching control signals; connect 24 V for negative switching control signals; mixed operation is not permitted.

Key features – Electrical components



Valve terminal type 10 - AS-interface valve terminal

The AS-interface facilitates the spatial distribution of individual components or small component groups.

The AS-interface connection of valve terminal type 10 can be used to control 2, 4, 8 solenoid coils.

The valve terminal cover contains the LEDs which indicate the operating status and the protective circuit for the valves.

The standard AS-interface protocol

permits a maximum of 4 inputs and 4 outputs in one unit. The use of 2 AS-interface slaves in one valve terminal means that 8 inputs and 8 outputs can be controlled in an 8-valve valve terminal (8 solenoid coils).

All CPV valve terminals can be operated using additional functions, e.g. relay plates or vacuum generators.

Valve terminals CPV with inputs are also available for A/B operation to SPEC 2.1 and 3.0.

AS-interface control

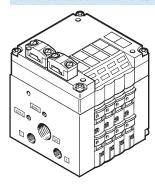
- For 2, 4 or 8 valves
- Great variety thanks to the wide range of modules in the system

AS-interface with A/B operation

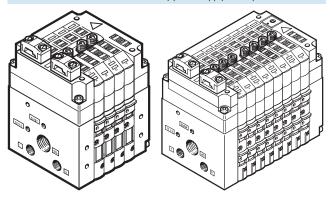
- For 3 or 4 and/or 6 or 8 valves depending on the specification
- All the benefits of the simple installation system are retained

- 100% more inputs/master
- 50% more outputs/master
- Improved peripheral error diagnostics
- More AS-interface functions in Specifications 2.1 and 3.0
- → Internet: as-interface

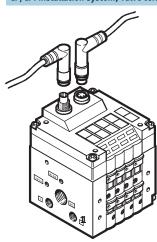
AS-interface valve terminal with auxiliary power supply



AS-interface valve terminal with auxiliary power supply and inputs



CP/CPI installation system, valve terminal



The integration of valve terminal type 10 into a fieldbus system or independent control system is accomplished by connecting the terminal to the corresponding fieldbus node or control block with simple, pre-assembled terminal connectors.

The installation system integrates the valve terminal CPV and various I/O modules, etc. into a single installation concept.

The 5-pin connecting cables carry the supply power and control signals. The valve terminal cover contains the LEDs which indicate the operating status and the protective circuits for the valves.

Max. 8 valve slices for up to 16 CPV valves

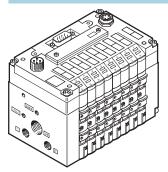
The CP string is used to exchange the input and output states of the connected modules with the CP fieldbus node.

→ Internet: ctec

Key features – Electrical components



Fieldbus Direct valve terminal



Fieldbus Direct is a system for connecting one valve terminal to nine different fieldbus standards. The most important systems, including Profibus, Interbus, DeviceNet and CANopen, are supported.

The CP string extension option

enables the functions and components of the CPI installation system to be used.

The optional string extension permits additional valve terminals and I/O modules with CP/CPI function to be connected to the Fieldbus Direct fieldbus node.

Depending on the version, the valve terminals are available in all three sizes, 10, 14 and 18 mm, each with 8 valve slices.

ET200X/ET200pro pneumatic interface for CPV10 and CPV14

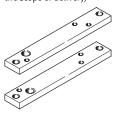
Adaptation of the CPV valve terminal to the input/output module ET200X/ET200pro from Siemens. The combination of the functional module of the ET200X/ET200pro and the pneumatic functions of the CPV valve terminal provides a highly integrateable automation solution for systems using electrical and

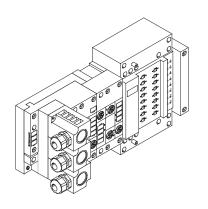
pneumatic drives with:

- 8 valve slices for up to 16 CPV valves
- Faster and more reliable contacting
- CPV 10 and CPV 14 valve terminals
- High degree of protection IP65/IP67
- Modular design

- Large number of I/O modules
- digital I/O
- analogue I/O
- supply branching for activation of AC motors
- PROFIBUS DP interface

Mounting kit for ET200X CPV-...-VI-BG-ET200X (included in the scope of delivery)









Specific data on the ET200X/ET200pro pneumatic interface can be found in Siemens product catalogues.

Note

A moulded seal is required for the valve terminal CPV10-ET200pro in order to achieve the IP protection class.

The moulded seal CPV10-...-GE-8 or CPV14-...-GE-8 must be ordered separately.



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

FESTO

Flow rate

CPV10: 400 l/min CPV14: 800 l/min CPV18: 1,600 l/min

- [] - Valve width CPV10: 10 mm CPV14: 14 mm CPV18: 18 mm

Voltage

24 V DC



General technical data											
		CPV10	CPV14	CPV18							
Design		Electromagnetically actuat	ed 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	14	18							
Nominal size	[mm]	4	6	8							
Nominal flow rate without fitting	[l/min]	400	800	1,600							
Pneumatic connections ¹⁾											
Pneumatic connection		Via end plate or pneumation	multiple connector plate								
Supply port	1/11	G1/8	G1/4	G3/8							
Exhaust port	3/5	G3/8 (G1/4)	G ¹ / ₂ (G ³ / ₈)	G ¹ / ₂							
Working ports	2/4	M7	G1/8	G ¹ / ₄							
Pilot air supply port	12/14	M5 (M7)	G1/4	G ¹ / ₄							
Pilot exhaust air port	82/84	M5 (M7)	G1/8	G ¹ / ₄							

¹⁾ Connection dimensions in brackets for pneumatic multiple connector plate



Operating and environmental condition	ıs													
Valve function order code		M, MK	F	J, JK	N, NK	C, CK	CY	H, HK	G	D, DK	I, IK	А	Е	
Operating medium		Filtered co	Filtered compressed air, lubricated or unlubricated, inert gases → 36											
Grade of filtration	[µm]	40 (avera	0 (average pore size)											
Operating pressure	[bar]	-0.9 +1	0				+0.1 +10	-0.9 ·	+10					
Operating pressure for valve terminal	[bar]	3 8	8											
with internal pilot air supply														
Pilot pressure	[bar]	3 8	3 8											
Ambient temperature	[°C]	-5 +50	-5 +50 (vacuum generators: 0 +50)											
Temperature of medium	[°C]	-5 +50	(vacı	ıum genera	tors: 0 +	50)								
Storage temperature	[°C]	-20 +4	-20 +40											
Relative air humidity at 25 °C	[%]	95 with no condensation												
Corrosion resistance class CRC ¹⁾		2 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.

Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Certifications									
This product is approved for use in the ATEX zone	in accordance with the EU ATEX directive								
ATEX category for gas	3G								
Ex ignition protection type for gas Ex nA II T4 X									
ATEX category for dust	II 3D								
Ex ignition protection type for dust	Ex tD A22 IP54 T110° C X								
ATEX ambient temperature [°C]	-5 ≤ Ta ≤ +50								
Certification	c UL us Recognized (OL)								
CE mark (see declaration of conformity)	In accordance with EU low voltage directive								
	In accordance with EU explosion protection directive (ATEX)								



Electrical data				
		CPV10	CPV14	CPV18
Operating voltage	[V DC]	24 (+10/-15%)		
Edge steepness	[V/ms]	> 0.4 minimum voltage increase tin	ne to reach the high-current phase	
(IC and MP only)				
Limitation of the voltage peaks	[V DC]	38		
when switching off				
Residual ripple	[Vss]	4		
Electrical power consumption	[W]	0.6 (0.45 at 21 V);	0.9 (0.65 at 21 V)	1.5 (0.95 at 21 V)
		(with CPV10-M11H 0.65)		
Duty cycle	[%]	100	•	
With pilot air supply	[bar]	-0.9 +10		
Protection against electric shock		By means of PELV power supply unit		
(protection against direct and indirect				
contact to EN 60204-1/IEC 204)				
Protection class to EN 60529	[IP]	65 (for all types of signal transmissi	on in assembled state)	

Relay plate										
			CPV10	CPV14	CPV18					
Operating voltage		[V DC]	20.4 26.4		-					
Electrical power consumption		[W]	1.2							
No. of relays			2 with galvanically isolated outputs		-					
Load current circuit			Each 1 A/24 V DC +10%		-					
Relay response times	on	[ms]	5		-					
	off	[ms]	2		-					

Valve switching times [ms]																				
Valve function order code		M	MK	F	J	JK	N	NK	С	CK	CY	Н	HK	G	D	DK	1	IK	Α	Е
CPV10																				
Switching times	on	17	17	12	-	-	17	17	17	17	17	17	17	20	15	15	15	15	-	15
	off	27	27	17	-	-	25	25	25	25	25	25	25	30	17	17	17	17	-	17
	chan	-	-	-	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	geov																			
	er																			ㄴ
CDV4																				
CPV14							_			_				_			1	1		
Switching times	on	25	25	-	-	-	24	24	24	24	-	24	24	22	13	13	13	13	-	13
	off	35	35	-	-	-	30	30	30	30	-	30	30	30	16	16	16	16	-	16
	chan	-	-	-	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	geov																			
	er																			
CPV18					_											_				
Switching times	on	18	-	-	-	-	18	-	18	-	-	-	-	14	14	-	14	-	-	14
	off	26	-	-	-	-	24	-	24	-	-	-	-	32	20	-	20	-	-	20
	chan	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	geov																			
	er																			



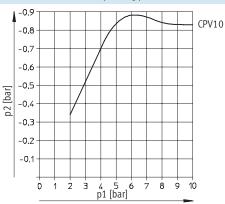
Materials										
	CPV10	CPV14	CPV18							
Basic electrical unit	Die-cast aluminium, p	olyamide, nitrile rubber								
Valve slices	Die-cast aluminium									
Valve module 5/3G	Cast aluminium, polya	Cast aluminium, polyacetal								
Relay plate	Polyamide, brass									
Blanking plate/separator plate	Polyamide									
End plates	Die-cast aluminium									
Flat plate silencer	Die-cast aluminium, p	olyethylene								
Pneumatic multiple connector plate	Wrought aluminium a	lloy								
Inscription label holder	Polyacetal, polyvinyl c	hloride								
Seal	Nitrile rubber, hydrog	enated nitrile rubber								

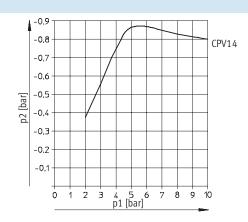
Product weight			
Approx. weight	[g] CPV10	CPV14	CPV18
Electrical connection plates with AS-i connection			
• on CP valve terminals with 2 valve positions	85	130	275
• on CP valve terminals with 4 valve positions	110	175	355
• on CP valve terminals with 8 valve positions	400	460	-
Electrical connection plates with CP connection			
• on CP valve terminals with 4 valve positions	145	230	375
• on CP valve terminals with 6 valve positions	180	250	450
• on CP valve terminals with 8 valve positions	200	300	540
Electrical connection plates with MP connection			
• on CP valve terminals with 4 valve positions	110	170	400
• on CP valve terminals with 6 valve positions	140	230	425
• on CP valve terminals with 8 valve positions	165	275	515
End plates (2 pieces)	160	280	740
Pneumatic multiple connector plate			
• on CP valve terminals with 2 valve positions	120	270	520
• on CP valve terminals with 4 valve positions	165	390	750
• on CP valve terminals with 6 valve positions	225	510	870
• on CP valve terminals with 8 valve positions	270	630	1,300
Flat plate silencer	147	234	-
Relay plate	35	55	-
Blanking plate	25	45	90
Separator plate	25	45	90
Valve sub-bases, vacuum generators	70	110	260
Function block: 5/3G function	46	105	-
Function block: One-way flow control valves	25	54	125

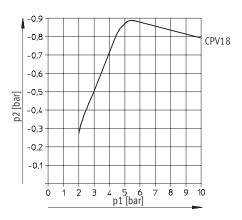


Vacuum generators

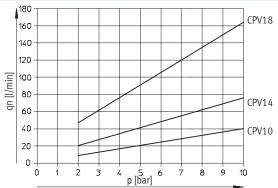
Vacuum as a function of operating pressure



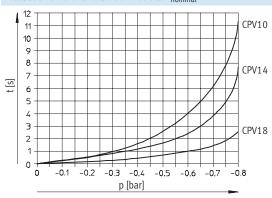




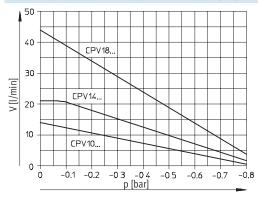




Evacuation time for a volume of 1 litre at P_{nominal}



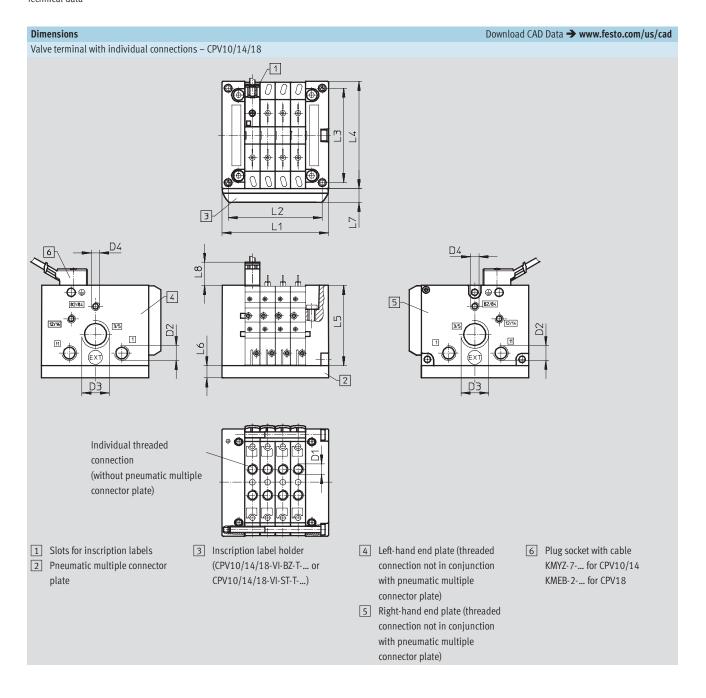
Suction capacity as a function of partial vacuum at P_{nominal}



Valve terminals type 10 CPV, Compact Performance



Technical data



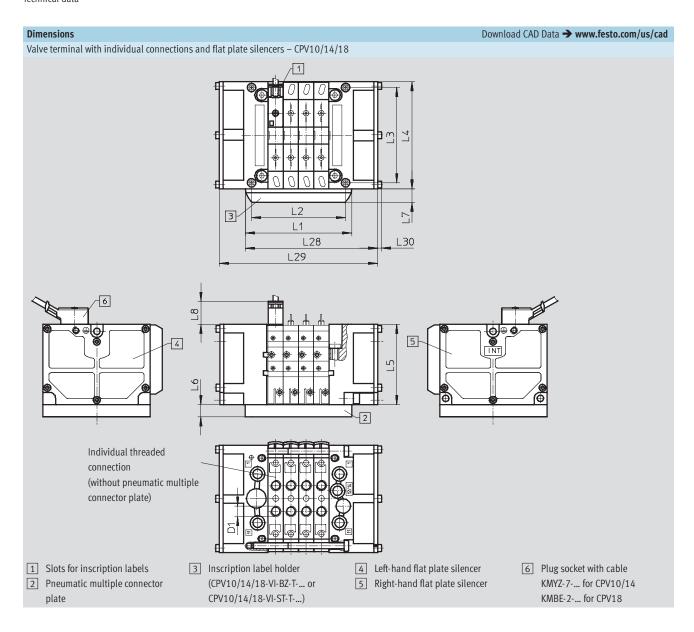


		L1	L2	L3	L4	L5	L6	L7	L8	D1	D2	D3	D4
	2-valve	50	41.8										
	3-valve	60	51.8										
	4-valve	70	61.8										
CPV10	5-valve	80	71.8	62	71	52.8	15	9.5	11.8	M7	G1/8	G3/8	M5
	6-valve	90	81.8										
	7-valve	100	91.8										
	8-valve	110	101.8										
	2-valve	68	58										
	3-valve	82	72										
	4-valve	96	86										
CPV14	5-valve	110	100	78	89	58.8	20	9.5	11.8	G1/8	G1/4	G1/2	G1/8
	6-valve	124	114										
	7-valve	138	128										
	8-valve	152	142										
	2-valve	96	85.5										
	3-valve	114	103.5										
	4-valve	132	121.5										
CPV18	5-valve	150	139.5	106.5	118	73	20	9.5	21.6	G1/4	G3/8	G1/2	G1/4
	6-valve	168	157.5										
	7-valve	186	175.5										
	8-valve	204	193.5										

Valve terminals type 10 CPV, Compact Performance



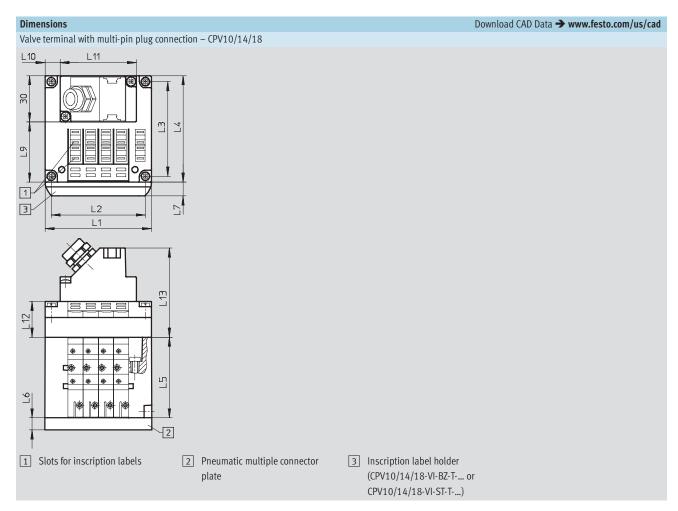
Technical data





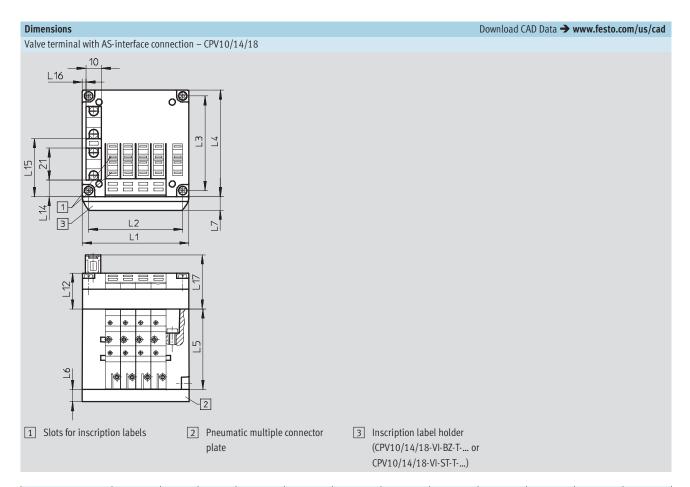
		L1	L2	L3	L4	L5	L6	L7	L8	L28	L29	L30	D1
	2-valve	50	41.8							67	84		
	3-valve	60	51.8							77	94		
	4-valve	70	61.8							87	104		
CPV10	5-valve	80	71.8	62	71	52.8	15	9.5	11.8	97	114	2.5	M7
	6-valve	90	81.8							107	124		
	7-valve	100	91.8							117	134		
	8-valve	110	101.8							127	144		
	2-valve	68	58							85	102		
	3-valve	82	72							99	116		
	4-valve	96	86							113	130	,	
CPV14	5-valve	110	100	78	89	58.8	20	9.5	11.8	127	144	3	G1/8
	6-valve	124	114							141	158		
	7-valve	138	128							155	172		
	8-valve	152	142							169	186		
	2-valve	96	85.5							127	158		
	3-valve	114	105.5							145	176		
	4-valve	132	121.5							163	194		
CPV18	5-valve	150	139.5	106.5	118	73	20	9.5	21.6	181	212	4.55	G1/4
1	6-valve	168	157.5							199	230		
	7-valve	186	175.5							217	248		
	8-valve	204	193.5							235	266		





		L1	L2	L3	L4	L5	L6	L7	L9	L10	L11	L12	L13
	4-valve	70	61.8							10	50		
CPV10	6-valve	90	81.8	62	71	52.8	15	9.5	39.5	10	70	23.5	58.8
	8-valve	110	101.8							20	70		
	4-valve	96	86							23	50		
CPV14	6-valve	124	114	78	89	58.8	20	9.5	61.8	27	70	23.5	58.8
	8-valve	152	142							41	70		
	4-valve	132	121.5							41	50		
CPV18	6-valve	168	157.5	106.5	118	73	20	9.5	88.4	49	70	28	63
	8-valve	204	193.5	1						67	70		



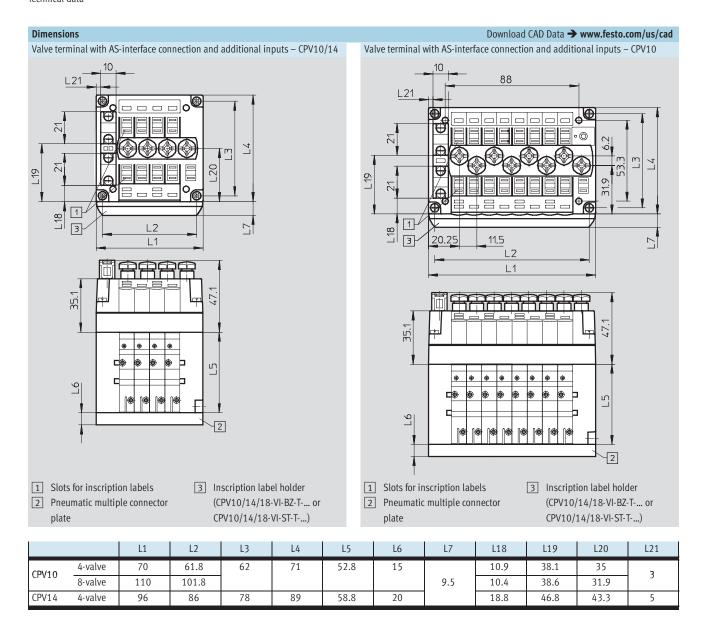


		L1	L2	L3	L4	L5	L6	L7	L12	L14	L15	L16	L17
	2-valve	50	41.8						-	10.9	38.1	2.5	35.5
CPV10	4-valve	70	61.8	62	71	52.8	15	9.5	23.5	10.9	70.1	2.3	,,,,
	8-valve	110	101.8						23.3	-	-	1	-
	2-valve	68	58						-	14	52	5	35.5
CPV14	4-valve	96	86	78	89	58.8	20	9.5	23.5	14	32	,	75.5
	8-valve	152	142						23.3	-	-	-	-
	2-valve	96	85.5						-	27.4	68.2	10.4	40
CPV18	4-valve	132	121.5	106.5	118	73	20	9.5	28	27.4	00.2	10.4	40
	8-valve	204	193.5						20	-	-	_	-

Valve terminals type 10 CPV, Compact Performance



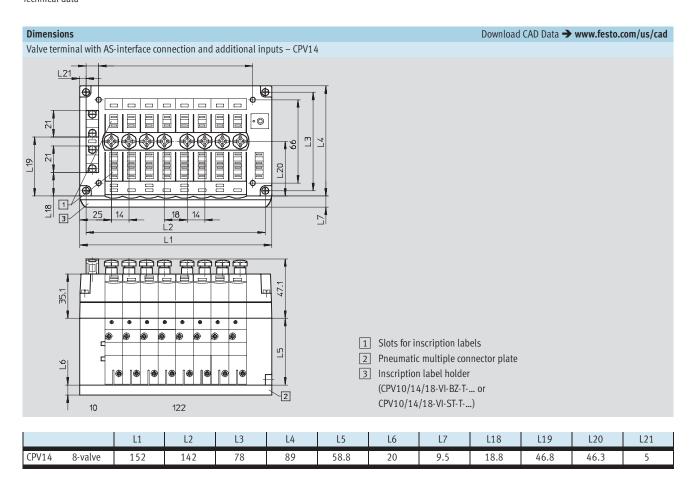
Technical data



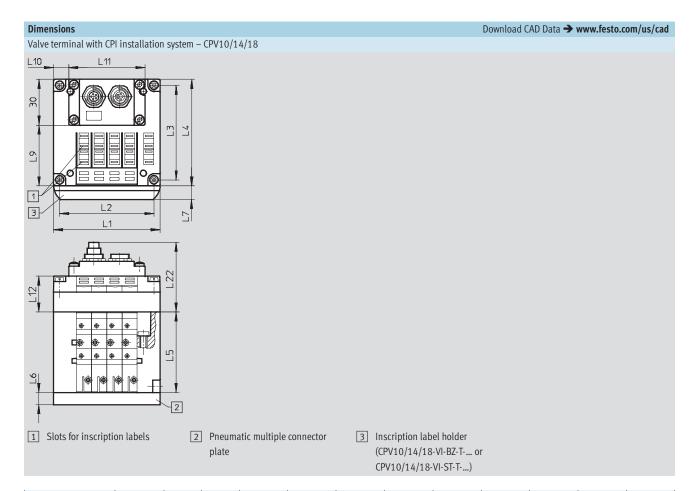
Valve terminals type 10 CPV, Compact Performance



Technical data







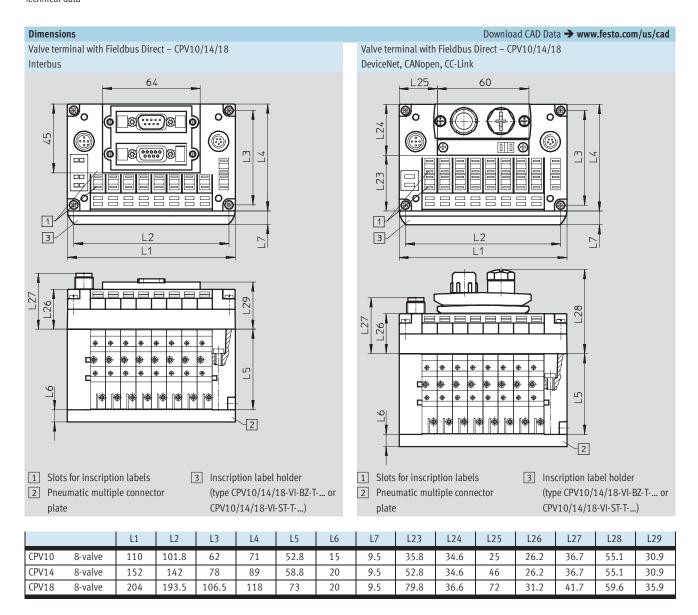
		L1	L2	L3	L4	L5	L6	L7	L9	L10	L11	L12	L22
CPV10	4-valve	70	61.8							10	50		
	6-valve	90	81.8	62	71	52.8	15	9.5	39.5	10	70	23.5	46
	8-valve	110	101.8							20	70		
CPV14	4-valve	96	86							23	50		
	6-valve	124	114	78	89	58.8	20	9.5	61.8	27	70	23.5	46
	8-valve	152	142]						41	70		
CPV18	4-valve	132	121.5							41	50		
	6-valve	168	157.5	106.5	118	73	20	9.5	88.4	49	70	28	50.5
	8-valve	204	193.5							67	70		

50

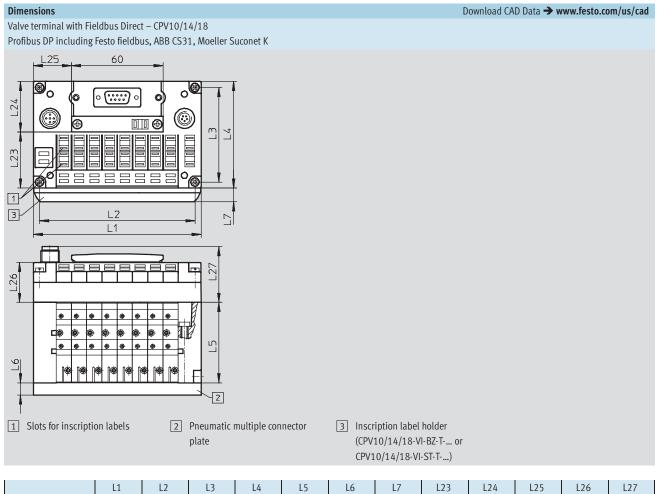
Valve terminals type 10 CPV, Compact Performance

FESTO

Technical data

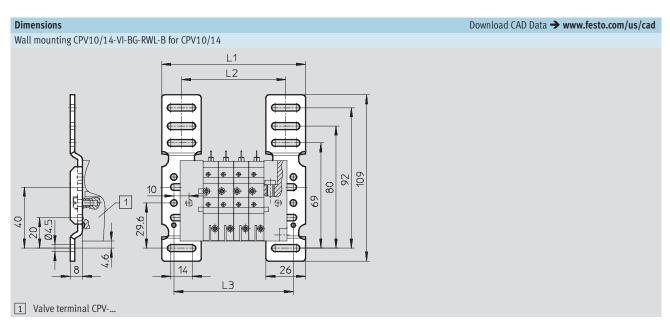




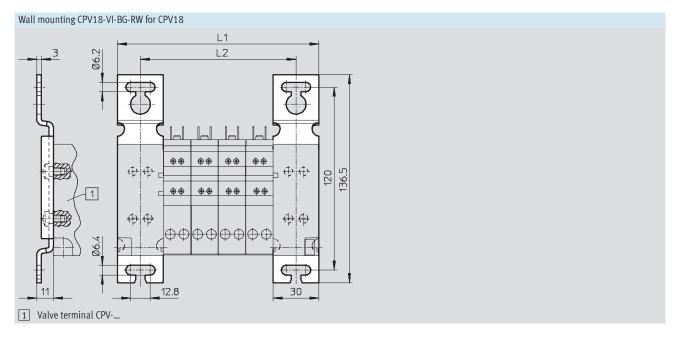


		L1	L2	L3	L4	L5	L6	L7	L23	L24	L25	L26	L27
CPV10	8-valve	110	101.8	62	71	52.8	15	9.5	35.5	34.6	25	26.2	36.7
CPV14	8-valve	152	142	78	89	58.8	20	9.5	52.8	34.6	46	26.2	36.7
CPV18	8-valve	204	193.5	106.5	118	73	20	9.5	79.8	36.6	72	31.2	41.7



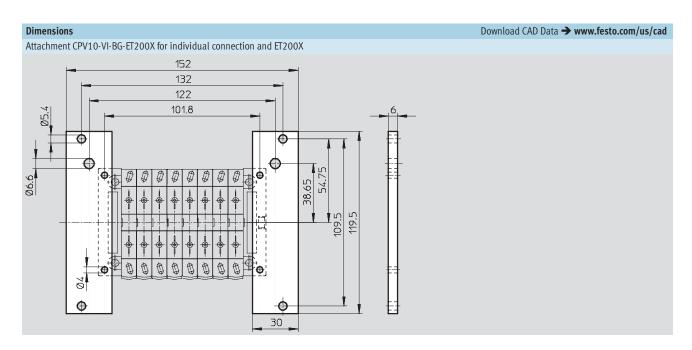


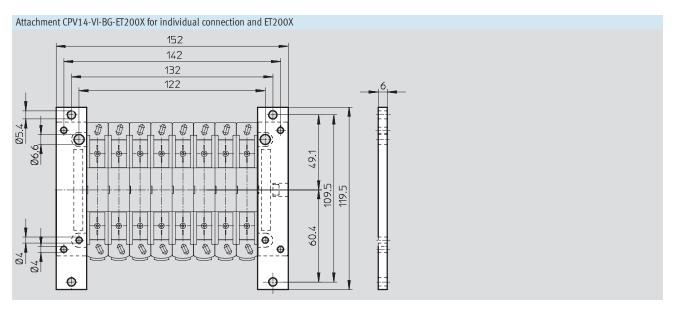
	CPV10						CPV14							
	2-valve	3-valve	4-valve	5-valve	6-valve	7-valve	8-valve	2-valve	3-valve	4-valve	5-valve	6-valve	7-valve	8-valve
L1	74	84	94	104	114	124	134	90	104	118	132	146	160	174
L2	48	58	68	78	88	98	108	64	78	92	106	120	134	148
L3	58	68	78	88	98	108	118	74	88	102	116	130	144	158



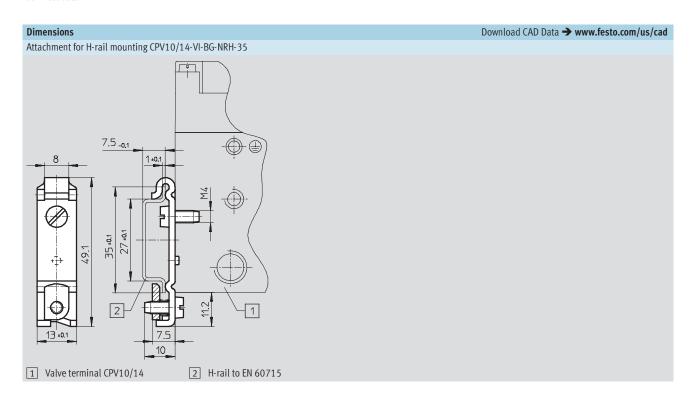
	CPV18									
	2-valve	3-valve	4-valve	5-valve	6-valve	7-valve	8-valve			
L1	96	114	132	150	168	186	204			
L2	66	84	102	120	138	156	174			

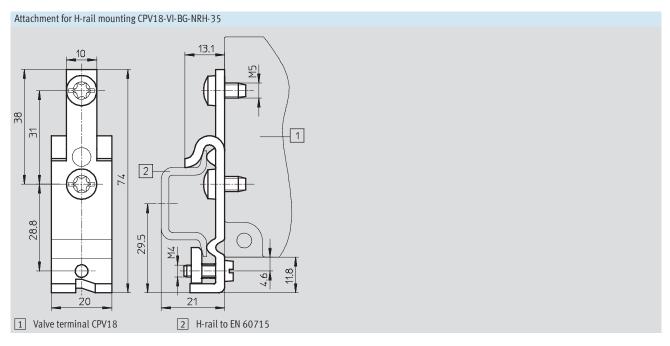




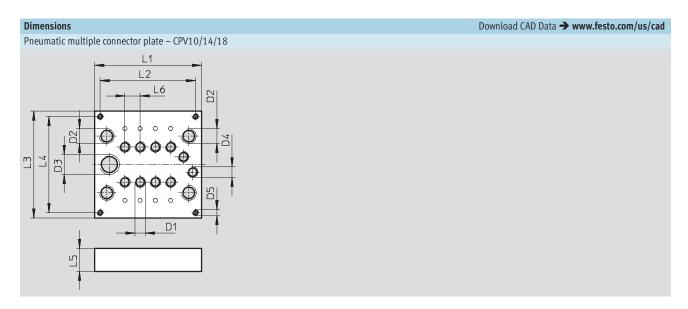






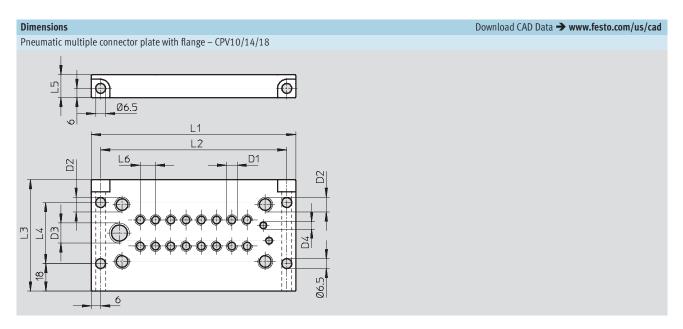






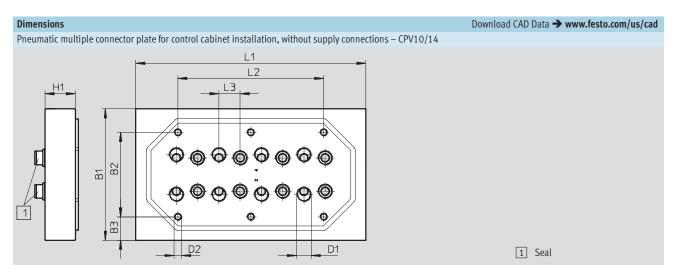
		L1	L2	L3	L4	L5	L6	D1	D2	D3	D4	D5
	2-valve	49.5	42.5	70	63	15	10	M7	G1/8	G1/4	M7	M4
CPV10	4-valve	69.5	62.5									
CFVIU	6-valve	89.5	82.5									
	8-valve	109.5	102.5									
	2-valve	67.5	53.5	86.6	76.6	20	14	G1/8	G1/4	G3/8	G1/8	M4
CPV14	4-valve	95.5	81.5									
Cr V14	6-valve	123.5	109.5									
	8-valve	151.5	137.5									
	2-valve	95.5	87.5	119.6	108	20	18	G1/4	G3/8	G1/2	G1/4	M5
CPV18	4-valve	131	123									
CIVIO	6-valve	167	159									
	8-valve	203	195									



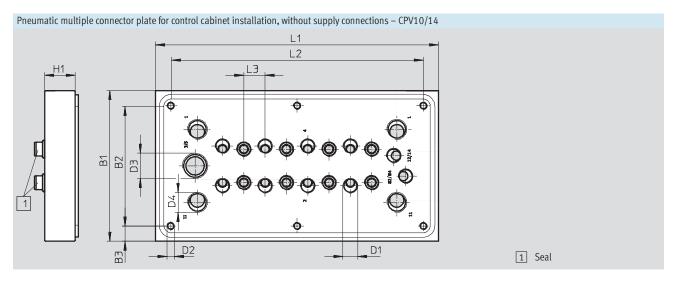


		L1	L2	L3	L4	L5	L6	D1	D2	D3	D4
	2-valve	74	62	73	40	15	10	M7	G1/8	G1/4	M5
CPV10	4-valve	94	82								
CFVIU	6-valve	114	102								
	8-valve	134	122								
	2-valve	92	80	89	59	20	14	G1//8	G1/4	G3/8	G1/8
CPV14	4-valve	120	108								
Cr V14	6-valve	148	136								
	8-valve	176	164								
	2-valve	119	107	118	88	20	18	G1/4	G3//8	G ¹ / ₂	G1/4
CPV18	4-valve	155	143								
CIVIO	6-valve	191	179								
	8-valve	227	215								



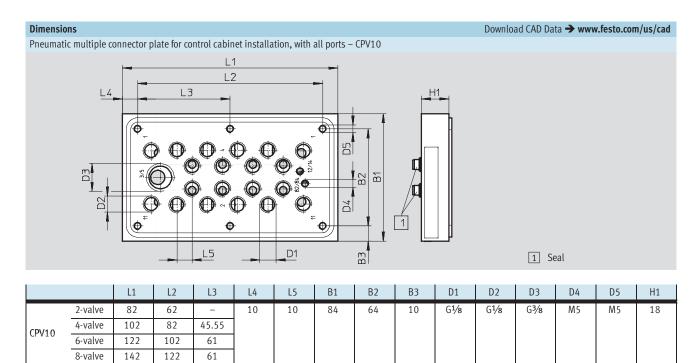


		L1	L2	L3	B1	B2	В3	D1	D2	H1
	2-valve	49.5	-	10	70	40	15	M7	M5	10
CPV10	4-valve	69.5	28	1						
CPV10	6-valve	89.5	49	1						
	8-valve	109.5	68	1						
	2-valve	67.5	13	14	86.6	55.6	15.5	G1//8	M5	14
CPV14	4-valve	95.5	40	1						
Cr V14	6-valve	123.5	68	1						
	8-valve	151.5	96							



		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
CPV10	4-valve	102	82									
CFVIO	6-valve	122	102									
	8-valve	142	122									
	2-valve	102	82	14	99	79	10	G1/8	M5	G3//8	G1/4	20
CPV14	4-valve	130	110									
CFV14	6-valve	158	138									
	8-valve	186	166									



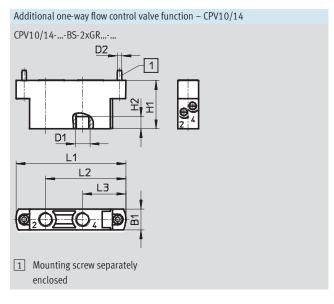


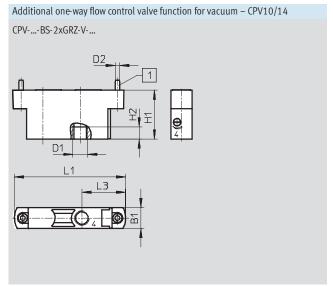


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Туре	B1	D1	D2	H1	L1	L2
CPV10-BS-5/3G-M7	9.9	M7	M2.5	22	55.8	23
CPV14-BS-5/3G-1/8	13.8	G1/8	M3	28	72.8	30



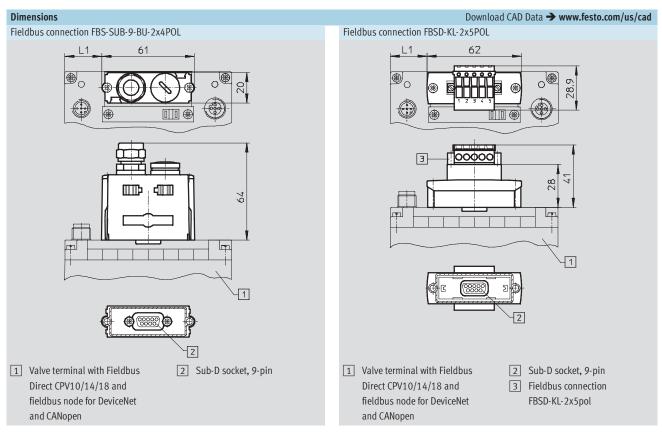


Туре	B1	D1	D2	H1	H2	L1	L2	L3
CPV10-BS-2xGRM7	9.9	M7	M2.5	26	6	55.8	41.4	22.9
CPV10-BS-2xGRZ-VM7							-	
CPV14-BS-2xGR1/8	13.8	G1/8	M3	32	8	72.8	53.15	28.65
CPV14-BS-2xGRZ-V1/8							-	

Valve terminals type 10 CPV, Compact Performance



Technical data



	CPV10	CPV14	CPV18
	8-valve	8-valve	8-valve
L1	24.5	45.5	71.5

	CPV10	CPV14	CPV18
	8-valve	8-valve	8-valve
L1	24	45	71



Ordering data				
	Code	Valve function	Туре	Part No.
Individual sub-base	valve sizes	10/14/18		•
Ohn	M	5/2-way valve, single solenoid, piston spool valve	CPV10-M1H-5LS-M7	161414
			CPV14-M1H-5LS-1/8	161360
			CPV18-M1H-5LS-1/4	163190
	F	5/2-way valve, single solenoid, fast switching, piston spool valve	CPV10-M11H-5LS-M7	187439
	J	5/2-way valve, double solenoid, piston spool valve	CPV10-M1H-5JS-M7	161415
			CPV14-M1H-5JS-1/8	161361
			CPV18-M1H-5JS-1/4	163191
	N	2x 3/2-way valve, normally open, piston spool valve	CPV10-M1H-2x3-OLS-M7	161417
			CPV14-M1H-2x3-OLS-1/8	161363
			CPV18-M1H-2x3-OLS-1/4	163188
	С	2 x 3/2-way valve, normally closed, piston spool valve	CPV10-M1H-2x3-GLS-M7	161416
			CPV14-M1H-2x3-GLS-1/8	161362
			CPV18-M1H-2x3-GLS-1/4	163189
	CY	2x 3/2-way valve, normally closed,	CPV10-M1H-2x3-GLS-Y-M7	553260
		integrated back pressure protection, piston spool valve		
	Н	2x 3/2-way valve, 1x normally open, 1x closed, piston spool valve	CPV10-M1H-30LS-3GLS-M7	176064
			CPV14-M1H-30LS-3GLS-1/8	176067
			CPV18-M1H-30LS-3GLS-1/4	176070
	G	5/3-way valve, mid-position closed, piston spool valve	CPV18-M1H-5/3GS-1/4	176061
	D	2x 2/2-way valve, normally closed, piston spool valve	CPV10-M1H-2x2-GLS-M7	185880
			CPV14-M1H-2x2-GLS-1/8	185883
			CPV18-M1H-2x2-GLS-1/4	185886
	I	2x 2/2-way valve, 1x normally open, 1x closed, piston spool valve	CPV10-M1H-2OLS-2GLS-M7	187843
			CPV14-M1H-2OLS-2GLS-1/8	187846
			CPV18-M1H-2OLS-2GLS-1/4	187849
	•			
Individual sub-base	valve with o	duct separation 1, 11 sizes 10/14		
Com.	MK	5/2-way valve (with duct separation 1, 11), single solenoid, piston spool valve	CPV10-M1H-5LS-K-M7	553256
Too San		CPV14-M1H-5LS-K-1/8	553258	
	JK 5/2-way valve (with duct separation 1, 11), double-solenoid, piston spool v	5/2-way valve (with duct separation 1, 11), double-solenoid, piston spool valve	CPV10-M1H-5JS-K-M7	559644
			CPV14-M1H-5JS-K-1/8	559651
	NK	2x 3/2-way valve (with duct separation 1, 11), normally open, piston spool	CPV10-M1H-2x3-OLS-K-M7	559641
	valve		CPV14-M1H-2x3-OLS-K-1/8	559648
	valve HK 2x 3/2-way valve (with piston spool valve)	2 x 3/2-way valve (with duct separation 1, 11), normally closed, piston spool	CPV10-M1H-2x3-GLS-K-M7	553257
		valve	CPV14-M1H-2x3-GLS-K-1/8	553259
		2x 3/2-way valve (with duct separation 1, 11), 1x normally open, 1x closed,	CPV10-M1H-30LS-3GLS-K-M7	559642
			CPV14-M1H-30LS-3GLS-K-1/8	559649
		2x 2/2-way valve (with duct separation 1, 11), normally closed, piston spool	CPV10-M1H-2x2-GLS-K-M7	559645
		valve	CPV14-M1H-2x2-GLS-K-1/8	559652
	IK	2x 2/2-way valve (with duct separation 1, 11), 1x normally open, 1x closed,	CPV10-M1H-2OLS-2GLS-K-M7	559646
		piston spool valve	CPV14-M1H-2OLS-2GLS-K-1/8	559653



Ordering data				
_	Code	Designation	Туре	Part No.
Vacuum generator	<u>'</u>			
6>>	А	Vacuum generator	CPV10-M1H-V70-M7	185862
San San			CPV14-M1H-V95-1/8	185868
			CPV18-M1H-V140-1/4	185874
	E	Vacuum generator with ejector pulse	CPV10-M1H-VI70-2GLS-M7	185865
			CPV14-M1H-VI95-2GLS-1/8	185871
			CPV18-M1H-VI140-2GLS-1/4	185877
Function block				
FUNCTION DIOCK	G	Valve kit for 5/3-way valve function, closed (in combination with valve slice C)	CPV10-BS-5/3G-M7	176055
	l d	for size 10 and 14	CF V10-D3-7/30-M/	170055
		101 312c 10 und 14	CPV14-BS-5/3G-1/8	176057
			CI VI 4 23 3/30 70	1,003,
	l .		l	
Separator plate	1_			1
	T	Separator plate, duct 1/11 closed	CPV10-DZP	161369
Now Reliable			CPV14-DZP	162551
	_		CPV18-DZP	163282
	S	Separator plate, duct 1/11, 3/5 closed	CPV10-DZPR	178678
			CPV14-DZPR	178680
			CPV18-DZPR	184543
Relay plate				
relay plate	R	Relay plate	CPV10-RP2	174478
		, ,		
			CPV14-RP2	174480
Blanking plate				
	L	Blanking plate	CPV10-RZP	161368
			CPV14-RZP	162550
			CPV18-RZP	163283
			CFV10-KZF	103283
	L			
Additional functions				
	P	One-way flow control valve, 2x supply air	CPV-10-BS-2xGRZZ-M7	184140
			CPV-14-BS-2xGRZZ-1/8	184142
	Q	One-way flow control valve, 2x exhaust air	CPV-10-BS-2xGRAZ-M7	184141
			CPV-14-BS-2xGRAZ-1/8	184143
**************************************	V	One-way flow control valve for vacuum	CPV-10-BS-2xGRZ-V-M7	185889
* ***********************************	1			
			CPV-14-BS-2xGRZ-V-1/8	185891
₩		I .		



Preumatic multiple connector plate Part No. Type	Ordering data					
Preumatic multiple connector plate, for wall/machine mounting, without side flange Previous P					Part No.	Туре
Preumatic multiple connector plate, for wall/machine mounting, without side flange Previous P	Pneumatic multiple co	onnector r	plate		_	
for wall/machine mounting, without side flange 6-valve 161970 CPV10-VI-P6-M7				2-valve	161969	CPV10-VI-P2-M7
### without side flange 6-valve			·		_	
S-valve			_	6-valve		CPV10-VI-P6-M7
A-valve				8-valve		CPV10-VI-P8-M7
A-valve				2-valve	163894	CPV14-VI-P2-1/8
8-valve				4-valve	163895	CPV14-VI-P4-1/8
P				6-valve	163896	CPV14-VI-P6-1/8
A-valve				8-valve	163897	CPV14-VI-P8-1/8
P				2-valve	165292	CPV18-VI-P2-1/4
Preumatic multiple connector plate, for wall/machine mounting, with side flange 2-valve 152420 (PV10-VI-P2-M7-B 4-valve 152421 (PV10-VI-P4-M7-B 4-valve 152422 (PV10-VI-P4-M7-B 4-valve 152422 (PV10-VI-P4-M7-B 4-valve 152423 (PV10-VI-P4-M7-B 4-valve 152423 (PV10-VI-P4-M7-B 4-valve 152424 (PV11-VI-P2-V8-B 4-valve 152425 (PV14-VI-P2-V8-B 4-valve 152426 (PV14-VI-P2-V8-B 4-valve 152427 (PV14-VI-P2-V8-B 4-valve 152427 (PV14-VI-P2-V8-B 4-valve 175632 (PV18-VI-P2-V8-B 4-valve 175634 (PV18-VI-P2-V8-B 4-valve 175634 (PV18-VI-P2-V8-B 4-valve 175636 (PV18-VI-P2-V8-B 4-valve 175636 (PV18-VI-P2-V8-B 4-valve 175638 (PV18-VI-P3-V8-B 4-valve 175638 (PV18-VI-P3-V8-B 4-valve 175638 (PV18-VI-P3-V8-B 4-valve 175638 (PV18-VI-P3-V8-B 4-valve 175638 (4-valve	165293	CPV18-VI-P4-1/4
P				6-valve	165294	CPV18-VI-P6-1/4
for wall/machine mounting, with side flange 6 -valve 152422 (PV10-VI-P4-M7-B 8-valve 152423 (PV10-VI-P8-M7-B 8-valve 152423 (PV10-VI-P8-M7-B 8-valve 152424 (PV14-VI-P8-M7-B 152425 (PV14-VI-P8-M7-B 152426 (PV14-VI-P8-M8-B 8-valve 152427 (PV14-VI-P8-M8-B 8-valve 152427 (PV14-VI-P8-M8-B 8-valve 175632 (PV18-VI-P8-M8-B 2-valve 175634 (PV18-VI-P8-M8-B 8-valve 175636 (PV18-VI-P8-M7-B 8-valve 175636 (PV18-VI-P8-M7-B 8-valve 175636 (PV18-VI-P8-M7-C 8-valve 175636 (PV18-VI-P8-M7-C 175636 (PV18-VI-P8-M7-C 8-valve 175636 (PV18-VI-P8-M7-C 175636 (PV18-VI-				8-valve	165295	CPV18-VI-P8-1/4
### Side flange 6-valve 152422 CPV10-VI-P6-M7-B		Р	Pneumatic multiple connector plate,	2-valve	152420	CPV10-VI-P2-M7-B
8-valve			for wall/machine mounting,	4-valve	152421	CPV10-VI-P4-M7-B
2-valve			with side flange	6-valve	152422	CPV10-VI-P6-M7-B
4-valve 152425 CPV14-VI-P4-V/s-B				8-valve	152423	CPV10-VI-P8-M7-B
G-valve				2-valve	152424	CPV14-VI-P2-1/8-B
S-valve				4-valve	152425	CPV14-VI-P4-1/8-B
2-valve 175632 CPV18-VI-P2-¼-B				6-valve	152426	CPV14-VI-P6-1/8-B
4-valve				8-valve	152427	CPV14-VI-P8-1/8-B
G-valve				2-valve	175632	CPV18-VI-P2-1/4-B
B-valve				4-valve	175634	CPV18-VI-P4-1/4-B
Pneumatic multiple connector plate with sealing ring, for control cabinet assembly, with supply ports S38808 CPV10-VI-P4-M7-C 4-valve 538808 CPV10-VI-P6-M7-C 8-valve 538809 CPV10-VI-P6-M7-C 8-valve 538810 CPV10-VI-P8-M7-C 2-valve 539498 CPV14-VI-P2-1/6-C 4-valve 539499 CPV14-VI-P2-1/6-C 4-valve 539500 CPV14-VI-P6-1/6-C 8-valve 539500 CPV14-VI-P8-1/6-C 8-valve 539500 CPV14-VI-P8-1/6-C 8-valve 539501 CPV14-VI-P8-1/6-C 8-valve 538811 CPV10-VI-P2-M7-D 4-valve 538812 CPV10-VI-P2-M7-D 6-valve 538813 CPV10-VI-P6-M7-D 8-valve 538814 CPV10-VI-P6-M7-D 8-valve 538814 CPV10-VI-P6-M7-D 8-valve 539500 CPV14-VI-P6-1/6-D 4-valve 539500 CPV14-VI-P6-1/6-D 6-valve				6-valve	175636	CPV18-VI-P6-1/4-B
for control cabinet assembly, with supply ports 6-valve 538808 CPV10-VI-P4-M7-C 6-valve 538809 CPV10-VI-P6-M7-C 8-valve 538810 CPV10-VI-P8-M7-C 2-valve 539498 CPV14-VI-P2-1/8-C 4-valve 539499 CPV14-VI-P4-1/8-C 6-valve 539500 CPV14-VI-P6-1/8-C 8-valve 539501 CPV14-VI-P8-1/8-C 8-valve 539501 CPV14-VI-P8-1/8-C 2-valve 539501 CPV14-VI-P8-1/8-C 8-valve 538811 CPV10-VI-P2-M7-D 4-valve 538812 CPV10-VI-P2-M7-D 6-valve 538813 CPV10-VI-P4-M7-D 8-valve 538813 CPV10-VI-P8-M7-D 2-valve 538814 CPV10-VI-P8-M7-D 2-valve 539502 CPV14-VI-P2-1/8-D 4-valve 539503 CPV14-VI-P2-1/8-D 6-valve 539504 CPV14-VI-P8-1/8-D 6-valve 539505 CPV14-VI-P8-1/8-D 8-valve 539505 CPV14-VI-P8-1/8-D 6-valve 539506 CPV10-VI-P8-1/8-C 6-valve 539506 CPV10-VI-P8-1/8-C 6-valve 539507 CPV10-VI-P8-1/8-C 6-valve 539507 CPV10-VI-P8-1/8-C 6-valve 539507 CPV10-VI-P8-1/8-C				8-valve	175638	CPV18-VI-P8-1/4-B
With supply ports 6-valve 538809 CPV10-VI-P6-M7-C 8-valve 538810 CPV10-VI-P8-M7-C 2-valve 539498 CPV14-VI-P2-1/6-C 4-valve 539499 CPV14-VI-P2-1/6-C 4-valve 539500 CPV14-VI-P6-1/6-C 8-valve 539500 CPV14-VI-P8-1/6-C 8-valve 539501 CPV14-VI-P8-1/6-C 8-valve 539501 CPV14-VI-P8-1/6-C 8-valve 538811 CPV10-VI-P2-M7-D 4-valve 538812 CPV10-VI-P4-M7-D 6-valve 538813 CPV10-VI-P6-M7-D 8-valve 538814 CPV10-VI-P6-M7-D 8-valve 538814 CPV10-VI-P8-M7-D 2-valve 539502 CPV14-VI-P2-1/6-D 4-valve 539503 CPV14-VI-P2-1/6-D 4-valve 539503 CPV14-VI-P6-1/6-D 8-valve 539504 CPV14-VI-P6-1/6-D 8-valve 539505 CPV14-VI-P8-1/6-D 8-valve 539505 CPV		GQC	Pneumatic multiple connector plate with sealing ring,	2-valve	538807	CPV10-VI-P2-M7-C
8-valve 538810 CPV10-VI-P8-M7-C			for control cabinet assembly,	4-valve	538808	CPV10-VI-P4-M7-C
2-valve 539498 CPV14-VI-P2-1/s-C			with supply ports	6-valve	538809	CPV10-VI-P6-M7-C
4-valve 539499 CPV14-VI-P4-1/8-C				8-valve	538810	CPV10-VI-P8-M7-C
G-valve 539500 CPV14-VI-P6-1/8-C				2-valve	539498	CPV14-VI-P2-1/8-C
S-valve 539501 CPV14-VI-P8-1/s-C				4-valve	539499	CPV14-VI-P4-1/8-C
Pneumatic multiple connector plate with sealing ring, for control cabinet assembly, without supply ports 4-valve 538811 CPV10-VI-P2-M7-D 4-valve 538812 CPV10-VI-P4-M7-D 6-valve 538813 CPV10-VI-P6-M7-D 8-valve 538814 CPV10-VI-P8-M7-D 2-valve 539502 CPV14-VI-P2-1/8-D 4-valve 539503 CPV14-VI-P2-1/8-D 4-valve 539504 CPV14-VI-P6-1/8-D 6-valve 539504 CPV14-VI-P6-1/8-D 8-valve 539505 CPV14-VI-P8-1/8-D 8-valve 539505 CPV14-VI-P8-1/8-D 6-valve 539505 CPV14-VI-P8-1/8-D 6-valve 566709 CPV10-VI-P2-G1/8-C 4-valve 566710 CPV10-VI-P4-G1/8-C 6-valve 566711 CPV10-VI-P6-G1/8-C 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-					539500	
for control cabinet assembly, without supply ports 6-valve 538812 CPV10-VI-P4-M7-D 6-valve 538813 CPV10-VI-P6-M7-D 8-valve 538814 CPV10-VI-P8-M7-D 2-valve 539502 CPV14-VI-P2-1/8-D 4-valve 539503 CPV14-VI-P2-1/8-D 6-valve 539504 CPV14-VI-P6-1/8-D 8-valve 539505 CPV14-VI-P8-1/8-D 8-valve 539505 CPV14-VI-P8-1/8-D 2-valve 539505 CPV14-VI-P8-1/8-D 8-valve 539505 CPV10-VI-P8-1/8-D 8-valve 539505 CPV10-VI-P8-1/8-D 6-valve 539505 CPV10-VI-P8-1/8-D 6-valve 539505 CPV10-VI-P8-1/8-D 6-valve 539505 CPV10-VI-P8-1/8-D 8-valve 539505 CPV10-VI-P8-1/8-D 6-valve 539505 CPV10-VI-P8-1/8-D				8-valve	539501	CPV14-VI-P8-1/8-C
Without supply ports 6-valve 538813 CPV10-VI-P6-M7-D 8-valve 538814 CPV10-VI-P8-M7-D 2-valve 539502 CPV14-VI-P2-1/8-D 4-valve 539503 CPV14-VI-P4-1/8-D 6-valve 539504 CPV14-VI-P6-1/8-D 8-valve 539505 CPV14-VI-P8-1/8-D 8-valve 539505 CPV14-VI-P8-1/8-D 8-valve 539505 CPV14-VI-P8-1/8-D 6-valve 539505 CPV10-VI-P2-G1/8-C 4-valve 566709 CPV10-VI-P2-G1/8-C 6-valve 566710 CPV10-VI-P4-G1/8-C 6-valve 566711 CPV10-VI-P6-G1/8-C 6-valve 6		GQD	, , , , , , , , , , , , , , , , , , , ,	2-valve	538811	CPV10-VI-P2-M7-D
8-valve 538814 CPV10-VI-P8-M7-D			·	4-valve	538812	CPV10-VI-P4-M7-D
2-valve 539502 CPV14-VI-P2-1/8-D 4-valve 539503 CPV14-VI-P4-1/8-D 6-valve 539504 CPV14-VI-P6-1/8-D 8-valve 539505 CPV14-VI-P8-1/8-D 8-valve 539505 CPV14-VI-P8-1/8-D 6-valve 539505 CPV14-VI-P8-1/8-D 6-valve 566709 CPV10-VI-P2-G1/8-C 6-valve 566710 CPV10-VI-P4-G1/8-C 6-valve 566711 CPV10-VI-P6-G1/8-C 6-valve 566711 CPV10-VI-P6-G1/8-C 6-valve 566711 CPV10-VI-P6-G1/8-C 6-valve			without supply ports			CPV10-VI-P6-M7-D
4-valve 539503 CPV14-VI-P4-1/8-D						
6-valve 539504 CPV14-VI-P6-1/8-D 8-valve 539505 CPV14-VI-P8-1/8-D 8-valve 539505 CPV14-VI-P8-1/8-D 8-valve 566709 CPV10-VI-P2-G1/8-C 4-valve 566710 CPV10-VI-P4-G1/8-C with all ports 6-valve 566711 CPV10-VI-P6-G1/8-C 6-valve 566711 CPV10-VI-P6-G1/8-C 6-valve 566711 CPV10-VI-P6-G1/8-C 6-valve 566711 CPV10-VI-P6-G1/8-C 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-valve 6-				2-valve	539502	•
8-valve 539505 CPV14-VI-P8-1/8-D GQE Pneumatic multiple connector plate with sealing ring, for control cabinet assembly, with all ports 8-valve 539505 CPV14-VI-P8-1/8-D 2-valve 566709 CPV10-VI-P2-G1/8-C 4-valve 566710 CPV10-VI-P4-G1/8-C 6-valve 566711 CPV10-VI-P6-G1/8-C					539503	CPV14-VI-P4-1/8-D
GQE Pneumatic multiple connector plate with sealing ring, for control cabinet assembly, with all ports 2-valve 566709 CPV10-VI-P2-G1/8-C 4-valve 566710 CPV10-VI-P4-G1/8-C 6-valve 566711 CPV10-VI-P6-G1/8-C				6-valve	539504	
for control cabinet assembly, with all ports 4-valve 566710 CPV10-VI-P4-G1/8-C 6-valve 566711 CPV10-VI-P6-G1/8-C						•
with all ports 6-valve 566711 CPV10-VI-P6-G1/8-C		GQE			566709	
			·			
8-valve 566712 CPV10-VI-D8-G1/6-C			with all ports			
5 valve 500/12 ci v10-vi-ro-078-c				8-valve	566712	CPV10-VI-P8-G ¹ /8-C



Ordering data				
_	Code	Designation	Туре	Part No.
Inscription label hold	er			
0	Z	Holder for inscription labels	CPV10-VI-BZ-T-2	162560
			CPV10-VI-BZ-T-3	162561
			CPV10-VI-BZ-T-4	162562
			CPV10-VI-BZ-T-5	162563
			CPV10-VI-BZ-T-6	162564
			CPV10-VI-BZ-T-7	162565
			CPV10-VI-BZ-T-8	162566
			CPV14-VI-BZ-T-2	162567
			CPV14-VI-BZ-T-3	162568
			CPV14-VI-BZ-T-4	162569
			CPV14-VI-BZ-T-5	162570
			CPV14-VI-BZ-T-6	162571
			CPV14-VI-BZ-T-7	162572
			CPV14-VI-BZ-T-8	162573
			CPV18-VI-BZ-T-2	163293
			CPV18-VI-BZ-T-3	163294
			CPV18-VI-BZ-T-4	163295
			CPV18-VI-BZ-T-5	163296
			CPV18-VI-BZ-T-6	163297
			CPV18-VI-BZ-T-7	163298
			CPV18-VI-BZ-T-8	163299
	T	Holder for inscription labels, transparent	CPV10-VI-ST-T-2	194066
			CPV10-VI-ST-T-3	194067
			CPV10-VI-ST-T-4	194068
			CPV10-VI-ST-T-5	194069
			CPV10-VI-ST-T-6	194070
			CPV10-VI-ST-T-7	194071
			CPV10-VI-ST-T-8	194072
			CPV14-VI-ST-T-2	194073
			CPV14-VI-ST-T-3	194074
			CPV14-VI-ST-T-4	194075
			CPV14-VI-ST-T-5	194076
			CPV14-VI-ST-T-6	194077
			CPV14-VI-ST-T-7	194078
			CPV14-VI-ST-T-8	194079
			CPV18-VI-ST-T-2	194080
			CPV18-VI-ST-T-3	194081
			CPV18-VI-ST-T-4	194082
			CPV18-VI-ST-T-5	194083
			CPV18-VI-ST-T-6	194084
			CPV18-VI-ST-T-7	194085
			CPV18-VI-ST-T-8	194086
	1	1	'	I
Inscription labels				
	-	6x10 mm in frames, 64 pieces	IBS 6x10	18576
		9x20 mm in frames, 20 pieces (CPV18 only)	IBS 9x20	18182
		, , , , , , , , , , , , , , , , , , , ,		



Ordering data					
	Code	Designation		Туре	Part No.
Mounting					
	Н	Mounting for H-rail		CPV10/14-VI-BG-NRH-35	162556
				CPV18-VI-BG-NRH-35	163291
	W	Attachment for wall mounting		CPV18-VI-BG-RW	163292
	U	-		CPV10/14-VI-BG-RWL-B	189541
				CI VIO/14-VI-DG-KWE-D	107541
, ,)	Х	Attachment for individual connection and ET200X		CPV10-VI-BG-ET200X	165801
		(included in the scope of delivery)		CPV14-VI-BG-ET200X	165803
39				CI VI 4-VI-BO-LI 200X	10,000
Manual override		Italia alia (faranzana) arawida) arawida baha		CDV/4.0./4./ LIC	F2(202
	-	Locking clip (for manual override), non-detachable		CPV10/14-HS CPV18-HS	526203
	.,			5. 1 2 5 112	526204
	V	Locking clip (cover for manual override), non-detachable		CPV10/14-HV	530055
				CPV18-HV	530056
<u></u>		1			
Relay plate					
//	K	Connecting cable for relay plate	2.5 m	KRP-1-24-2,5	165612
(B)	L		5 m	KRP-1-24-5	165613
Cable for individua	al connection.	electrical			
_ />	D Plug socket with cable for CPV10/14		2.5 m	KMYZ-7-24-2,5-LED-PUR	193683
	E	-	5 m	KMYZ-7-24-5-LED-PUR	193685
	F	-	10 m	KMYZ-7-24-10-LED-PUR	196070
	D	Plug socket with cable for CPV18	2.5 m	KMEB-2-24-2,5-LED	174844
	Е		5 m	KMEB-2-24-5-LED	174845
Y					

Subject to change – 2010/04



Ordering data	10.1	la:		ln	_
	Code	Designation		Part No.	Туре
Aulti-pin plug conr	nection, elect				
	Υ	Plug socket, 9-pin		18708	SD-SUB-D-BU9
		Plug socket, 25-pin		18709	SD-SUB-D-BU25
/)	R	Connecting cable, 9-pin, polyvinyl chloride	5 m	18698	KMP3-9P-08-5
		Connecting cable, 25-pin, polyvinyl chloride		18624	KMP3-25P-16-5
	S	Connecting cable, 9-pin, polyvinyl chloride	10 m	18579	KMP3-9P-08-10
		Connecting cable, 25-pin, polyvinyl chloride		18625	KMP3-25P-16-10
T	-	Connecting cable, 9-pin, polyurethane	5 m	193014	KMP4-9P-5-PUR
		Connecting cable, 25-pin, polyurethane		193018	KMP4-25P-5-PUR
	-	Connecting cable, 9-pin, polyurethane	10 m	193015	KMP4-9P-10-PUR
		Connecting cable, 25-pin, polyurethane		193019	KMP4-25P-10-PUR
	-	Connecting cable, with 9-pin Sub-D plug, IP40,	2.5 m	531184	KMP6-09P-8-2,5
		polyvinyl chloride cable	5 m	531185	KMP6-09P-8-5
			10 m	531186	KMP6-09P-8-10
	_	Connecting cable, with 25-pin Sub-D plug, IP40,	2.5 m	530046	KMP6-25P-20-2,5
		polyvinyl chloride cable	5 m	530047	KMP6-25P-20-5
		F,,	10 m	530048	KMP6-25P-20-10
			10 111	330040	KINI 0 231 20 10
eldbus connectio	n for Fieldhu	s Direct			
ctubus connectio	GA	Straight socket, Sub-D 9-pin for DeviceNet/CANopen,	nlug/socket M12 5-nin	525632	FBA-2-M12-5POL
	UA.	IP65	plus/socket M12 5 pm,	323032	IDA-2-MIZ-JI OL
		11 03			
a line	CD	Children of Children of Children	1 5 10/0	E05/0/	FDA 4 CL FDOL
Sand Sand	GB	Straight socket, Sub-D 9-pin for DeviceNet/CANopen, plug 5-pin, IP40		525634	FBA-1-SL-5POL
66666		Angled socket 5-pin for DeviceNet/CANopen, screw te	minal 5-pin, IP20	525635	FBSD-KL-2x5POL
	GD	Plug 9-pin, Sub-D for DeviceNet/CANopen, IP65		197960	FBS-SUB-9-BU-2x4POL
	GE	Plug Sub-D, IP65, 9-pin for Profibus DP		532216	FBS-SUB-9-GS-DP-B
	GI	Socket 9-pin, Sub-D for Interbus nodes CPX and CPV	532218	FBS-SUB-9-BU-IB-B	
F	0.	Plug 9-pin, Sub-D for Interbus nodes CPX and CPV	532217	FBS-SUB-9-GS-IB-B	
	GM	Plug 9-pin, Sub-D, for CC-Link CPX and CPV, IP65		532220	FBS-SUB-9-GS-2x4POL-B
	GF	Bus connection 2x M12 adapter plug (B-coded, Rever	533118	FBA-2-M12-5POL-RK	
	OI .	bus connection 2x wi12 adapter plug (p-coded, never	servey) for Frontibus Dr	333116	TDA-2-M12-3FOL-KK
<u>~~~</u>	-	Socket M12x1, 5-pin, straight,		1067905	NECU-M-B12G5-C2-PB
		for self-assembly of a connecting cable for FBA-2-M12	2-5POL-RK		
~	-	Plug M12x1, 5-pin, straight,		1066354	NECU-M-S-B12G5-C2-PB
•		7-1, 7-1-0,			
		for self-assembly of a connecting cable for FBA-2-M12	-5POL-RK		



Ordering data				
Designation			Part No.	Туре
Operating voltag	ge connection for Fieldbus Direct			
	Straight socket	M12, 4-pin, PG7, IP65	18497	FBSD-GD-7
		M12, 4-pin, PG9, IP65	18495	FBSD-GD-9
	Angled socket	M12, 4-pin, PG7, IP65	18524	FBSD-WD-7
		M12, 4-pin, PG9, IP65	18525	FBSD-WD-9
<u> </u>				
Blanking plug				
	Blanking plug		3843	B-M5
			174309	B-M7
_			3568	B-1/8
			3569	B-1/4
			3570	B-3/8
			3571	B-1/2
ush-in fitting				
<u> </u>	Push-in fitting		153015	QS-1/8-8-I
			153018	QS-1/4-10-l
			153020	QS-3/8-12-l
			153317	QSM-M5-6-I
			153321	QSM-M7-6-I
ilencer				
	Silencer		4645	U-M5
			6841	U-1/8-B
			6842	U-1/4-B
			6843	U-3/8-B
			6844	U-1/2-B
			161418	UC-M7
	•			
Manual				
	CPV Pneumatics Manual	German	165100	P.BE-CPV-DE
	>	English	165200	P.BE-CPV-EN
		French	165130	P.BE-CPV-FR
		Italian	165160	P.BE-CPV-IT
		Spanish	165230	P.BE-CPV-ES
		Swedish	165260	P.BE-CPV-SV

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components Complete custom engineered solutions



Custom Control Cabinets Comprehensive engineering support and on-site services



Complete Systems Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical Electromechanical actuators, motors, controllers & drives



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



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

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

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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