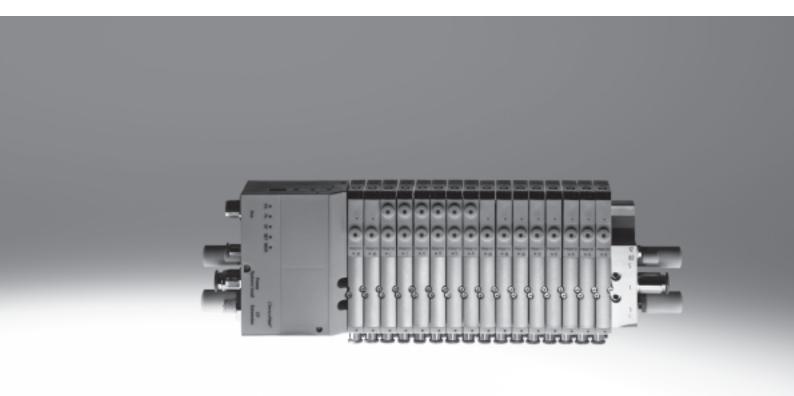
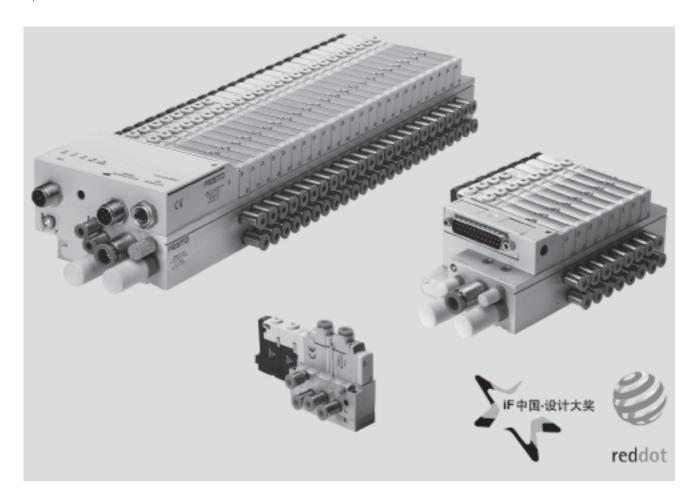
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Key features



Innovative

- Compact valve terminal for a wide range of pneumatic applications
- Standardised from the individual valve up to multi-pin plug and fieldbus connections
- Highly versatile during the planning and assembly stages as well as in operational use
- Wide range of selectable valve functions, including valve functions for customised pressure supplies or vacuum application solutions
- Comprehensive, optimally harmonised range of accessories for flow rates of up to 180 l/min

Versatile

- Room for expansion with 2 ... 24 valve positions on one terminal
- Use of individual valves in combination with an individual block
- The flexibility of the pneumatic working connections facilitates a practical solution to different requirements
- Tubing lines can be connected horizontally to the valve or vertically on the sub-base
- \bullet High pressure range $-0.9 \dots 10$ bar
- Wide range of electrical connections for 24 V DC operating voltage

Reliable

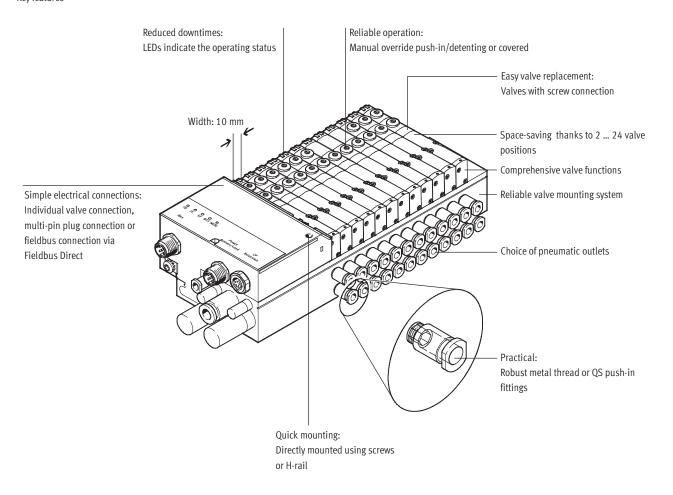
- Manual override facility
- Durable thanks to the use of triedand-tested piston spool valves
- Sturdy thanks to metal housing and connecting thread
- Fast troubleshooting thanks to LEDs on the valves and diagnosis via fieldbus

Easy-to-mount

- Ready-to-install unit, already assembled and tested
- Minimised expenditure with regard to ordering, installation and commissioning
- Secure wall mounting or via H-rail



Key features



Equipment options

Valve functions

- 5/2-way valve, single solenoid
- 5/2-way valve, double solenoid
- 2x 3/2-way valve, normally open
- 2x 3/2-way valve, normally closed
- 5/3-way valve, mid-position pressurised
- 5/3-way valve, mid-position closed
- 5/3-way valve, mid-position exhausted
- 1x 3/2-way valve, normally closed, external compressed air supply
- 2x 2/2-way valve, normally closed, dual compressed air supply

All valves have the same compact dimensions with an overall length of 91 mm and a width of 10 mm. Valves with a height of 40 mm are available for applications requiring particularly flat variants.

Electrical connection options

Individual connection/individual subbase valve

- Plug-in (PI)
- Horizontal connection (HC)

Multi-pin

- Max. 20 valve positions/ max. 20 solenoid coils
- Sub-D
- Flat cable

Fieldbus

 Max. 24 valve positions/ max. 32 solenoid coils

CP string extension

- Further valve terminals from the CPV/CPA range
- Electrical I/O modules



Key features

Valve terminal configurator

A valve terminal configurator is available to help you select a suitable CPASC valve terminal. This makes it much easier for you to find the right product.

The valve terminals are fully assembled according to your order specifications and individually tested. This reduces the amount of assembly and installation required to a minimum. A type 82 valve terminal is ordered via a modular order code.

Ordering system for type 82

→ Internet: type 82





Key features

Individual connection

Valve on individual sub-base



Valves can also be used on an individual block for actuators further away from the valve terminal. With an individual electrical connection, the plug is connected directly to the valve. Two electrical connection types are available for the valve terminal and for the individual block:

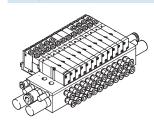
• Horizontal connection (HC) Version SH:

The electrical connection can be plugged in directly on the valve.

• Plug-in (PI) Version SP, SQ:

The connector plug is mounted on an adapter. This adapter is then attached to the manifold block.

Valves pneumatically linked on manifold sub-base



Connection is independent of the control technology used. This ensures correct polarity during installation.

The valve 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 32 solenoid coils (divided between 2 to 16 valve positions, including in uneven gradations).

Multi-pin plug connection

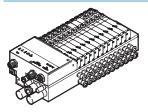


Control signals from the controller to the valve terminal are transmitted via a pre-assembled multi-core cable, which substantially reduces installation time. These valve terminals can be fitted with 2 to 20 solenoid coils (divided between 2 to 20 valve positions).

Variants

- Sub-D connection
- Flat cable connection

Fieldbus Direct



An integrated fieldbus node manages the communication connection to a higher-order PLC. This enables a space-saving pneumatic and electronic solution.

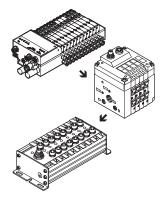
The fieldbus node is directly integrated in the electrical interface of the valve terminal and therefore takes up only a minimal amount of space.

The CP string extension option allows the functions and components of the CP installation system to be used. Valve terminals with fieldbus interfaces can be equipped with 4 to 24 valve positions and 4 to 32 solenoid coils.

Variants

- DeviceNet connection
- Profibus connection
- 4 to 32 solenoid coils

CP string extension



The optional string extension allows additional valve terminals and I/O modules to be connected to the field-bus node of the CPA-SC. A CP string of the CPI installation system is integrated in the fieldbus node as an extension. Different input and output modules as well as CPV- and CPA valve terminals can be connected.

The maximum length of the CP string extension is 10 metres, which means that the extension modules can be mounted directly on site. All of the required electrical signals are transmitted via the CP cable, which in turn means that no further installation is needed on the extension module. The CP string interface offers:

- 32 input signals
- 32 output signals for output modules 24 V DC or solenoid coils
- Logic and sensor supply for the input modules
- Load voltage supply for the valve terminals
- Logic supply for the output modules



Peripherals overview

Overview - CPA-SC valve terminal with sub-base valves

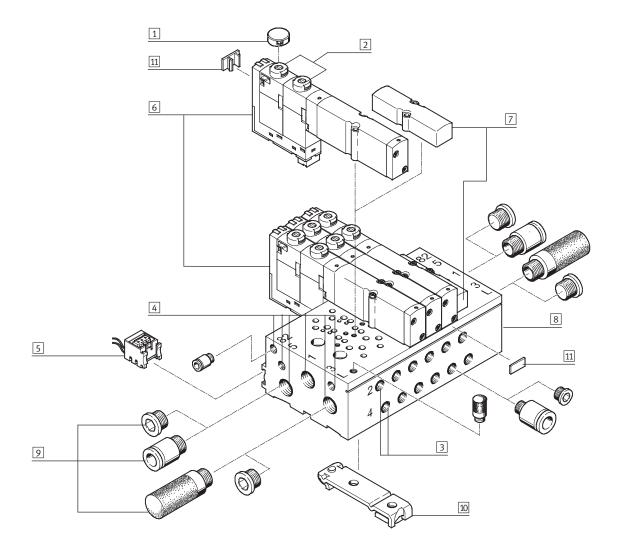
Valve terminal with individual plug-in (PI) electrical connections

Code: IP, IQ

Valve terminals with individual plug-in (PI) electrical connections are available in sizes for 2 to max. 16 valve positions. Each valve position can either be equipped with a valve or a blanking plate.

With an individual PI connection, the connector plug remains on the mani-

fold block. This avoids the valve being connected incorrectly in the event of a recommissioning.



- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- 3 Working lines (2, 4) on the manifold block (per valve position)
- 4 Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the lefthand and right-hand side of the manifold block
- 5 Individual plug-in (PI) connection
- 6 Valve
- 7 Cover for vacant position (blanking plate)
- 8 Manifold block for sub-base valves
- 9 Connectors, silencers and blanking plugs
- 10 H-rail mounting
- 11 Inscription labels



Peripherals overview

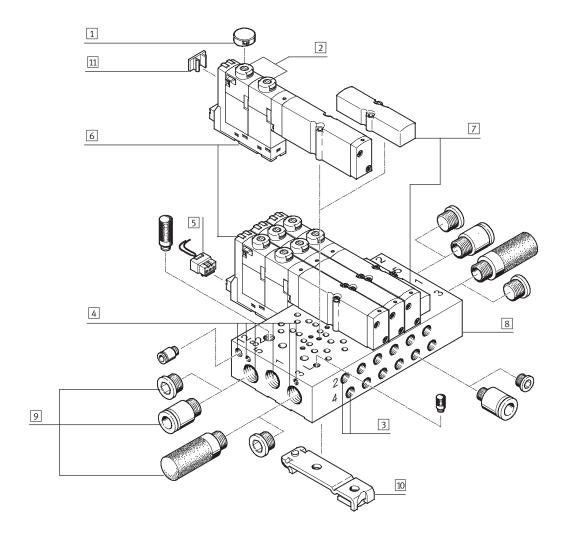
Overview - CPA-SC valve terminal with sub-base valves

Valve terminal with individual horizontal (HC) electrical connections

Code: IH

Valve terminals with individual horizontal electrical connections (HC) are available in sizes for 2 to max. 16 valve positions. Each valve position can either be equipped with a valve or a blanking plate.

With an individual horizontal connection, the electrical connection for a valve must be removed when the valve is being replaced.



- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- 3 Working lines (2, 4) on the manifold block (per valve position)
- 4 Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the lefthand and right-hand side of the manifold block
- 5 Individual horizontal connection (HC)
- 6 Valve
- 7 Cover for vacant position (blanking plate)
- 8 Manifold block for sub-base valves
- 9 Connectors, silencers and blanking plugs
- 10 H-rail mounting
- 11 Inscription labels



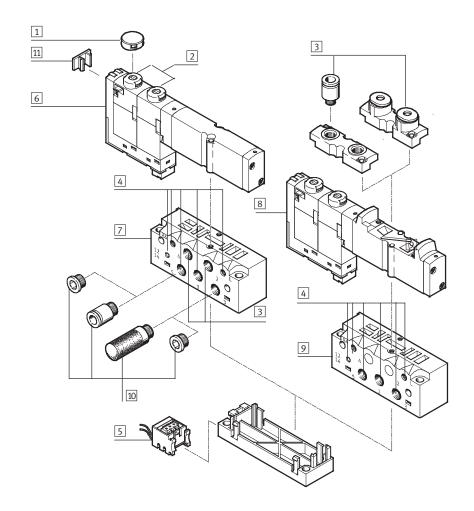
Peripherals overview

Overview - CPA-SC individual block with sub-base valve or semi in-line valve

Individual block with individual plug-in (PI) electrical connection

Code: SP, SQ

With an individual PI connection, the connector plug remains on the manifold block.



- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- Working lines (2, 4) on the individual block or on the valve (semi in-line version)
- 4 Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the individual block
- 5 Individual horizontal connection (HC)
- 6 Sub-base valve
- 7 Individual block for sub-base valve
- 8 Semi in-line valve
- 9 Individual block for semi in-line valve
- 10 Connectors, silencers and blanking plugs
- 11 Inscription label



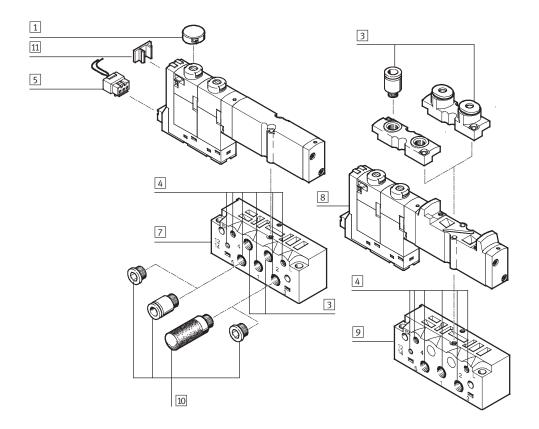
Peripherals overview

$\label{eq:continuous} \textbf{Overview} - \textbf{CPA-SC} \ \textbf{individual block with sub-base valve or semi in-line valve}$

Individual block with individual horizontal electrical connection (HC)

Code: SH

With an individual horizontal connection, the electrical connection for a valve must be removed when the valve is being replaced.



- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- Working lines (2, 4) on the individual block or on the valve (semi in-line version)
- 4 Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the individual block
- 5 Individual horizontal connection (HC)
- 6 Sub-base valve
- 7 Individual block for sub-base valve
- 8 Semi in-line valve
- 9 Individual block for semi in-line valve
- 10 Connectors, silencers and blanking plugs
- 11 Inscription label



Peripherals overview

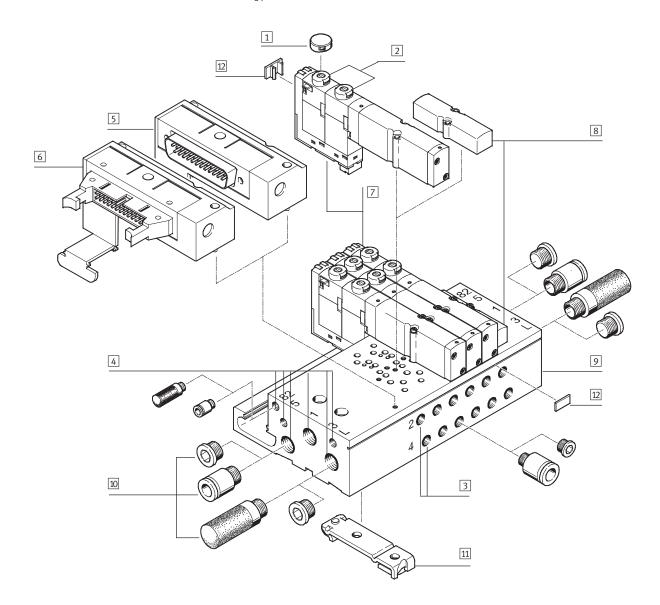
Overview — CPA-SC valve terminal with electrical multi-pin plug connection Valve terminal with sub-base valves

 25-pin Sub-D multi-pin plug connection
 Code: MS

or

• 26-pin multi-pin plug connection with connector for flat cable Code: MF Valve terminals with electrical multipin plug connection are available in sizes for 2 to max. 20 valve positions (code: MS) or for 4 to max. 20 valve positions (code: MF). Each valve position can either be equipped with a valve or a blanking plate.

A maximum of 20 solenoid coils can be actuated via the electrical multipin plug connection. The electrical connection is located on the left-hand side. It can be rotated by 90°, thereby allowing flush mounting of the system.



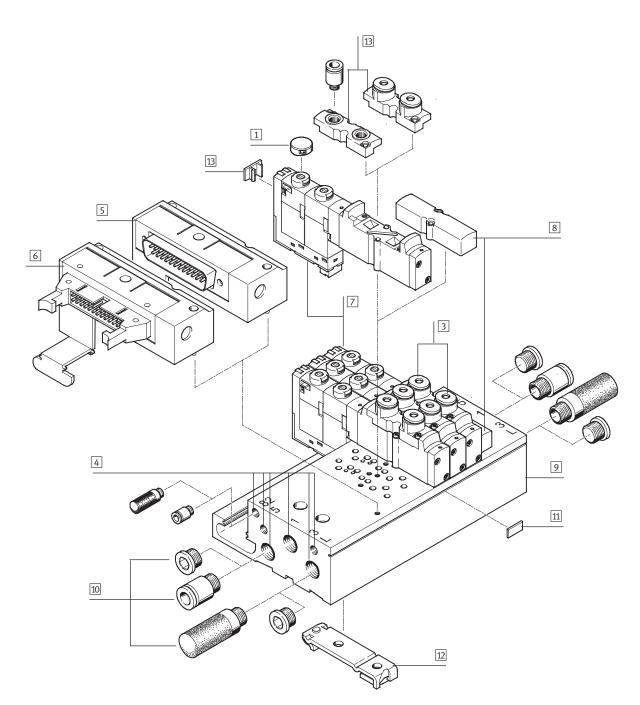
- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- 3 Working lines (2, 4) on the manifold block (per valve position)
- 4 Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the lefthand and right-hand side of the manifold block
- 5 Multi-pin plug connection Sub-D
- 6 Multi-pin plug connection with connector for flat cable
- 7 Valve
- 8 Cover for vacant position (blanking plate)
- Manifold block for sub-base valves
- Connectors, silencers and blanking plugs
- 11 H-rail mounting
- 12 Inscription labels





Overview - CPA-SC valve terminal with electrical multi-pin plug connection

Valve terminal with semi in-line valves



- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- 3 Working lines (2, 4) on the valve
- 4 Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the lefthand and right-hand side of the manifold block
- 5 Multi-pin plug connection Sub-D
- 6 Multi-pin plug connection with connector for flat cable
- 7 Valve
- 8 Cover for vacant position (blanking plate)
- Manifold block for semi in-line valves
- (10) Connectors, silencers and blanking plugs
- 11 Inscription labels
- 12 H-rail mounting
- 13 Pneumatic connection plates for semi in-line valves



Peripherals overview

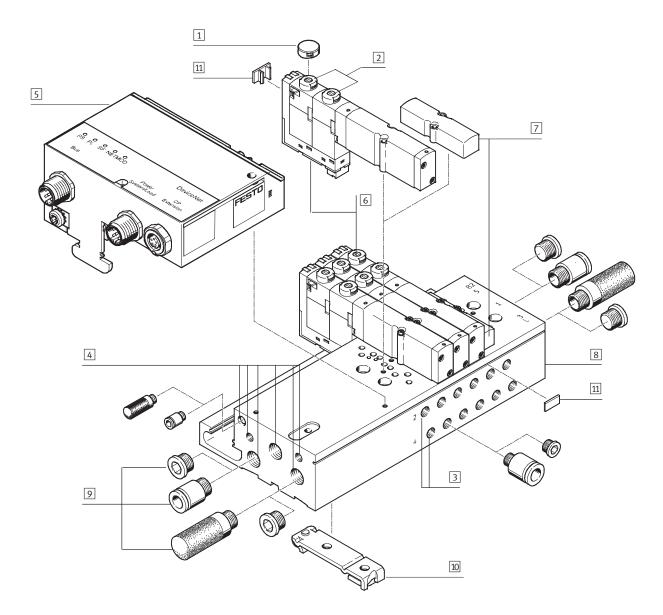
Overview - CPA-SC valve terminal with Fieldbus Direct

Valve terminal with sub-base valves

Valve terminals with fieldbus connection are available in sizes for 4 to max. 24 valve positions.

Each valve position can either be equipped with a valve or a blanking plate.

A maximum of 32 solenoid coils can be actuated via the fieldbus connection.



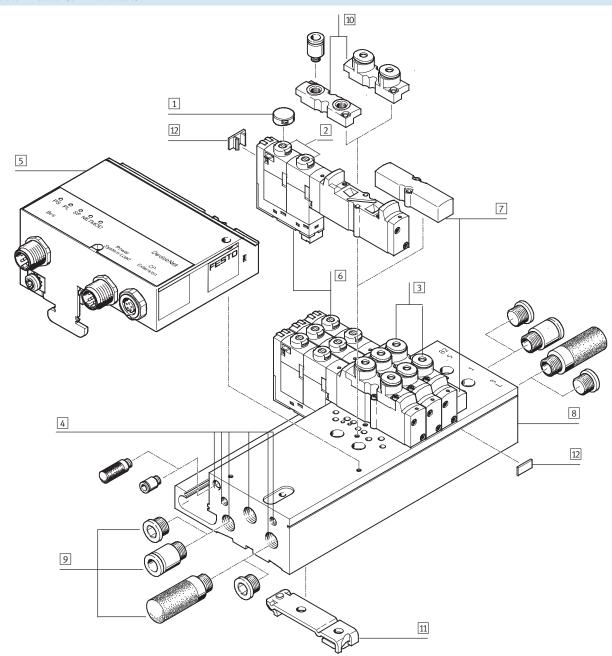
- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- 3 Working lines (2, 4) on the manifold block (per valve position)
- A Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the lefthand and right-hand side of the manifold block
- 5 Fieldbus Direct
- 6 Valve
- Cover for vacant position (blanking plate)
- 8 Manifold block for sub-base valves
- Onnectors, silencers and blanking plugs
- 10 H-rail mounting
- 11 Inscription labels



Peripherals overview

Overview - CPA-SC valve terminal with Fieldbus Direct

Valve terminal with semi in-line valves



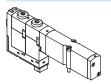
- 1 Cover for manual override (optional)
- 2 Manual override (per solenoid coil, push-in/rotary-detenting)
- 3 Working lines (2, 4) on the valve
- 4 Supply ports (1, 12/14), exhaust ports (3, 5, 82/84) and pressure compensating port (L) on the lefthand and right-hand side of the manifold block
- 5 Fieldbus Direct
- 6 Valve
- Cover for vacant position (blanking plate)
- 8 Manifold block for semi in-line valves
- 9 Connectors, silencers and blanking plugs
- 10 Pneumatic connection plates for semi in-line valves
- 11 H-rail mounting
- 12 Inscription labels



Key features – Pneumatic components

Valves

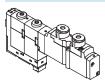
Sub-base valve



Sub-base valves can be quickly replaced since the tubing connections remain on the manifold block.

This design is also particularly slim.

Semi in-line valve (with working ports on the valve)



With semi in-line valves the pneumatic connections are on the top. This means that elbow connectors are not needed.

There are sub-base valves and semi in-line valves with one solenoid coil (single solenoid) or with two solenoid coils (double solenoid) irrespective of the valve function.

Blanking plate



Plate without valve function for reserving valve positions on a valve terminal.

Valve sub-bases and blanking plates are attached to the manifold block using two screws.



Manifold blocks			
Manifold block		Number of valve positions	Manifold block connections
Code A – Working ports (2, 4) on the mar	ifold block		
Manifold block for sub-base valves and blanking plates		2 20	With working ports (2, 4), M5 threaded hole With ports for supply air (1, 12/14) and exhaust air (3, 5, 82/84) With pressure compensating port (L)
Individual sub-base for sub-base valve		1	
Code P – Working ports (2, 4) on the valv	e		
Manifold block for semi in-line valves and blanking plates		2 20	Without working ports With ports for supply air (1, 12/14) and exhaust air (3, 5, 82/84) With pressure compensating port (L)
Individual sub-base for semi in-line valve		1	



Semi in-line valves can also be mounted on manifold blocks for sub-base valves. In this case the corresponding working ports on the manifold block must be sealed using blanking plugs.

The woring air supply and exhaust air outlet for the valve terminal can either be on the left-hand side or the righthand side of the valve terminal. Supply at both sides is also possible. Ports that are not required must be sealed with a blanking plug.

An individual sub-base is the ideal solution in cramped space conditions. All available valve types can be used.

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Valves				
	Code	Circuit symbol	Size 10	Description
	M	4 2 14 84 5 1 3	•	5/2-way valve, single solenoidPneumatic spring return
	J	14 2 12 12 14/12 84/82 5 1 3	-	5/2-way valve, double solenoid
	N	10 12/14 1 5 82/84 3	•	 2x 3/2-way valve, single solenoid Normally open Pneumatic spring return
	K	12/14 1 5 82/84 3	•	 2x 3/2-way valve, single solenoid Normally closed Pneumatic spring return
	В	14 4 2 12 12 12 12 12 14 12 14 12 14 12 14 12 14 12 14 12 14 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	-	 5/3-way valve Mid-position pressurised¹⁾ Mechanical spring return The piston rod of a connected cylinder advances when the valve is in the normal position due to the differential piston areas.
	G	14 W 12 12 12 12 12 14 12 12 14 12 12 14 12 12 14 14 12 14 14 12 1	-	 5/3-way valve Mid-position closed¹⁾ Mechanical spring return The piston rod side of a connected cylinder remains held under pressure when the valve is in the normal position.
	E	14 W 12 W	•	 5/3-way valve Mid-position exhausted¹⁾ Mechanical spring return The piston rod of a connected cylinder remains freely movable when the valve is in the normal position.

¹⁾ If neither solenoid coil is being supplied with power, the valve assumes its mid-position by means of spring force.

If both coils are being supplied with power simultaneously, the valve remains in the switching position previously assumed.



Valves				
	Code	Circuit symbol	Size 10	Description
	X	12 82 4 3		1x 3/2-way valve Normally closed External compressed air supply Pneumatic spring return Compressed air (-0.9 +10 bar) supplied at working port 4 can be switched.
		- Note When using this valve, please note that duct 5 is used as a supply duct for the second 2/2-way valve. Use of the valve is advisable in a separate pressure zone with ducts 5 and 1 isolated.	•	2x 2/2-way valve Normally closed Normally closed, reversible Pneumatic spring return The vacuum is connected at port 5 Port 14 switches the vacuum Port 12 switches the ejector pulse An external T-connection must be established between port 2, 4 and the vacuum generator
	L		•	Blanking plate for vacant position For valve terminal only



For vacuum operation valves require a filter. This is to avoid that foreign matter is drawn into the valve (e.g. when using a suction cup).



Key features – Pneumatic components

Constructional design

Valve replacement

The valves are attached to the metal manifold block using two screws. This means that they can be easily replaced. The mechanical robustness of the manifold block guarantees good long-term sealing tightness.

Expansion

Vacant positions can be replaced by valves at a later date. The dimensions, mounting points and existing pneumatic installations remain unchanged by this.

The valve code (M, J, N, K, B, G, E, X, I) is located on the front of the valve beneath the manual override.

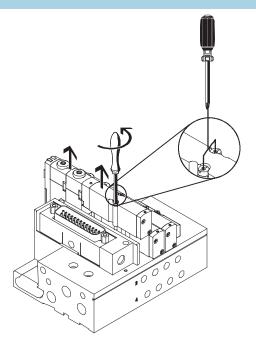


Note

Plug-in versions

If a vacant position is replaced by a valve, a plug-in socket must also be ordered and inserted into the slot.

When ordering a HC terminal, you must determine the number and length of connecting cable you need and specify them in the order code.



Working port		
	Code	Description
	В	M5 threaded connection
	F	QS-4 push-in connector

18



Key features – Pneumatic components

Pneumatic connection Supply and exhaust

The valves are supplied with compressed air via various valve terminal manifold blocks or individual blocks.

These contain common lines for compressed air supply, exhaust and pilot exhaust for all valves.

The common lines on a CPA-SC valve terminal can be connected

- at the left (code L)
- at the right (code R) or
- at both ends (code B)

Pilot air supply

The CPA-SC valve terminal is suitable for internal or external pilot air.

Graphs → 31

Internal pilot air supply

If supply pressure for the CPA-SC valve is within a range of 3 to 8 bar, it can be operated with internally distributed pilot air. The pilot air supply in the

left-hand end plate (electrical multipin plug connection and Fieldbus Direct) or in the right-hand end plate (individual electrical connection) is branched off from port 1 in this case.

External pilot air supply

If supply pressure for the CPA-SC valve terminal is within a range of -0.9 to +10 bar, it must be operated with external pilot air supply. The pilot air is supplied via port 12/14 in this case.

Pneumatic supply		_				
With CPA-SC valve terminal	Code	Port		Connections for supply a	and exhaust	
					Code H	Code D
					QS connection	Threaded connection
					metric, 8 mm	G1/8
				Designation	Туре	Туре
	Compres	sed air sı	upplied by means of internal pilot air sup	ply, exhausting via silencer	ſ	
	S	1	Working air/vacuum supply	Push-in fitting	QS-G ¹ / ₈ -8-I	-
		3/5	Exhaust air	Silencer	UC-1/8	-
		12/14	Pilot air supply	-	-	-
000000		82/84	Pilot exhaust air	Silencer	UC-M5	-
000		L	Pressure relieving port	Silencer	UC-M5	-
				•	•	•
	Compres	sed air sı	upplied via external pilot air supply, exha	usting via silencer		
	T	1	Working air/vacuum supply	Push-in fitting	QS-G ¹ / ₈ -8-I	-
		3/5	Exhaust air	Silencer	UC-1/8	-
		12/14	Pilot air supply	Push-in fitting	QSM-M5-4-I	-
00000		82/84	Pilot exhaust air	Silencer	UC-M5	-
000000000000000000000000000000000000000		L	Pressure relieving port	Silencer	UC-M5	-
*						
	Compres	sed air sı	upplied by means of internal pilot air sup	•		
	V	1	Working air/vacuum supply	Push-in fitting	QS-G ¹ /8-8-I	-
		3/5	Exhaust air	Push-in fitting	QS-G ¹ /8-8-I	-
		12/14	Pilot air supply	-	-	-
		82/84	Pilot exhaust air	Push-in fitting	QSM-M5-4-I	-
		L	Pressure relieving port	Silencer	UC-M5	-
	Compres	sed air sı	upplied via external pilot air supply, duct	ed exhaust		
	Χ	1	Working air/vacuum supply	Push-in fitting	QS-G1/8-8-I	-
		3/5	Exhaust air	Push-in fitting	QS-G ¹ / ₈ -8-I	-
		12/14	Pilot air supply	Push-in fitting	QSM-M5-4-I	-
		82/84	Pilot exhaust air	Push-in fitting	QSM-M5-4-I	-
		L	Pressure relieving port	Silencer	UC-M5	-



Pneumatic supply														
With CPA-SC individual	Code	Port		Connections for supply a	and exhaust									
block					Code B	Code F								
					Threaded connection	Push-in connector								
					M5	QS4								
				Designation	Туре	Туре								
	Compre	ssed air s	upplied by means of internal pilot air sup	oply, exhausting via silence										
	S	1	Working air/vacuum supply	Push-in fitting	-	QSM-M5-4-I								
		3/5	Exhaust air	Silencer	-	UC-M5								
		12/14	Pilot air supply	-	-	-								
		82/84	Pilot exhaust air	Silencer	-	U-M3								
9,00		L	Pressure relieving port	Silencer	-	U-M3								
0000				•	•									
00	Compre	ssed air s	upplied via external pilot air supply, exha	austing via silencer										
	T	1	Working air/vacuum supply	Push-in fitting	-	QSM-M5-4-I								
		3/5	Exhaust air	Silencer	-	UC-M5								
		12/14	Pilot air supply	Push-in fitting	-	QSM-M3-3-I								
		82/84	Pilot exhaust air	Silencer	-	U-M3								
		L	Pressure relieving port	Silencer	-	U-M3								
	Compressed air supplied by means of internal pilot air supply, ducted exhaust													
	V	1	Working air/vacuum supply	Push-in fitting	-	QSM-M5-4-I								
		3/5	Exhaust air	Push-in fitting	-	QSM-M5-4-I								
		12/14	Pilot air supply	-	-	-								
		82/84	Pilot exhaust air	Push-in fitting	-	QSM-M3-3-I								
		L	Pressure relieving port	Silencer	-	U-M3								
	Compre	ssed air s	upplied via external pilot air supply, duc	ed exhaust										
	Х	1	Working air/vacuum supply	Push-in fitting	_	QSM-M5-4-I								
		3/5	Exhaust air	Push-in fitting	-	QSM-M5-4-I								
		12/14	Pilot air supply	Push-in fitting	-	QSM-M3-3-I								
		82/84	Pilot exhaust air	Push-in fitting	-	QSM-M3-3-I								
		L	Pressure relieving port	Silencer	-	U-M3								



Note

The port L compensates the pressure between moving parts inside the valve and the surrounding environment.

A silencer protects against contamination. The port L must not be sealed by blanking plugs at both ends.



Key features – Pneumatic components

Instructions for using pressure zones

The CPA-SC valve terminal can be operated with a maximum of 2 pressure zones, supplied either from the left or from the right.

Pressure zones are created by means of separators that can be used in the following ducts:

- Supply duct 1 (code T) and
- exhaust duct 3 (code V) or
- exhaust duct 5 (code W) or
- exhaust duct 3 and 5 (code R)

Pilot air supply

The Pilot air supply is branched off from port 1 in the left-hand end plate (electrical multi-pin plug connection and Fieldbus Direct) or in the right-hand end plate (individual electrical connection).

Internal pilot air supply is only possible at an operating pressure within a range of 3 to 8 bar.

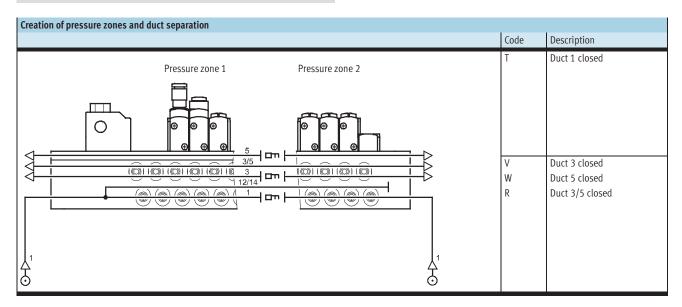
It must therefore be noted in connection with pressure zone separation

that the valve terminal is supplied with internal pilot air supply via the left-hand side when using a multi-pin plug connection and Fieldbus Direct and via the right-hand side when using an individual electrical connection. This means that the operating pressure at this port must be within a range of 3 to 8 bar.



The addition of a separator element results in the following valve sub-bases being supplied with less working air:

- Valve sub-base at the valve position in which the locating pin is inserted
- Valve sub-bases at the two adjacent valve positions





Note

The separator element can also be mounted subsequently using an Allen key. An assembly tool for long terminals is available as an accessory.





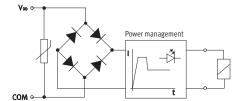
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Key features – Electrical components

Electrical power as a result of current reduction

Each valve solenoid coil is protected with a spark arresting protective circuit as well as against polarity reversal.

All valve types are additionally equipped with integrated current reduction.



Individual electrical connection

With an individual electrical connection, the plug is connected directly to the valve.

Two types of individual electrical connection are available for the valve terminal and for the individual subbase:

- Horizontal connection (HC) or
- Plug-in (PI)



Connecting cables with 2- or 3-wires are available for single solenoid valves with one solenoid coil or double solenoid valves with two solenoid coils.

Individual electrical connection – Horizontal connection (HC)

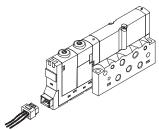
Valve on manifold block

Code IH

The valve terminal can be configured with 2 to max. 16 valve positions. This means that max. 32 solenoid coils can be actuated with this type of electrical connection.

The horizontal connection (HC) must be removed when replacing the valve.

Valve on individual block

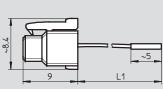


Code SH

With the individual sub-base, the electrical connection is also plugged in directly on the valve.

Download CAD data → www.festo.com

Dimensions - Horizontal connection (HC)





Number of solenoid coils Code L1 Cable colour Туре Pin 2 Pin 3 Cable length Pin 1 Common Solenoid coil 12 Solenoid coil 14 [m] KMH-0,5 0.5 Black CH 1 coil Red KMH-1 CI 1 coil Black Red 1 KMH-2,5 1 coil CJ Black Red 2.5 KMH-5 CK 1 coil Black Red 5 _ KMH-D-0,5 CD Black Blue 0.5 2 coils Red

2 coils

2 coils

2 coils

Black

Black

Black

Blue

Blue

Blue

1

2.5

5

CE

CF

CG

Red

Red

Red

KMH-D-1

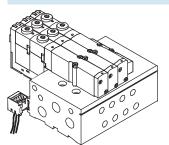
KMH-D-5

KMH-D-2,5



Individual electrical connection - Plug-in (PI)

Valve on manifold block



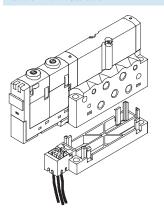
Code IP, IQ

The valve terminal can be configured with 2 to max. 16 valve positions. This means that max. $32\ solenoid$ coils can be actuated with this type of electrical connection.

The connector plug is inserted into the slot on the manifold block.

To replace a valve or extend the terminal (vacant position), all you need do is loosen two screws; the connector plug remains in the slot.

Valve on individual block



Code SP, SQ

With this electrical connection variant, the connector plug is mounted on an adapter. This adapter is then attached to the manifold block.



Туре	Code	L1	Number of solenoid coils	Cable colour		
		Cable length		Pin 1	Pin 2	Pin 3
		[m]		Common	Solenoid coil 12	Solenoid coil 14
MHAP-PI	-	0.5	1 coil	Black	-	Red
MHAP-PI-1	-	1	1 coil	Black	-	Red
MHAP-PI-D-0,5	-	0.5	2 coils	Black	Blue	Red
MHAP-PI-D-1	-	1	2 coils	Black	Blue	Red





Electrical multi-pin plug connection

The following multi-pin plug connection types are offered for the valve terminal CPA-SC:

- Sub-D multi-pin plug connection (25-pin) or
- Multi-pin plug connection with connector for flat cable (26-pin)

Pins 1 ... 20 are used for coils 1 ... 20 in order. If there are fewer than 20 coils on the valve terminal, the remaining pins up to 20 are left free. Pins 21 and above are reserved for neutral conductors. Four solenoid coils are always combined on one neutral conductor.

This means that individual valve groups can be switched off separately or a mixture of negative- and positiveswitching valves achieved.

Each pin on the multi-pin plug can activate only one valve solenoid coil. If the maximum configurable number of valve positions is 20, this means that 20 valves each with a single solenoid can be addressed. With 10 or less valve positions, 2 solenoid coils per valve can be addressed.

With 12 or more valve positions, the number of available valve positions for valves with two solenoid coils decreases (→ table below).

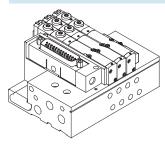
Example:

With 16 valve positions, valves with one or two solenoid coils can be actuated on the first four (0 ... 3) positions. Valves with just one solenoid coil are permissible at positions 4 ... 15.

Address/	Numb	er of the	valve p	osition																
solenoid coil	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1				
20	2	2	2	2	2	2	2	2	1	1	1	1								
20	2	2	2	2	2	2	2	2	2	2										
16	2	2	2	2	2	2	2	2												
12	2	2	2	2	2	2														
8	2	2	2	2																

Electrical multi-pin plug connection - Sub-D

Code MS



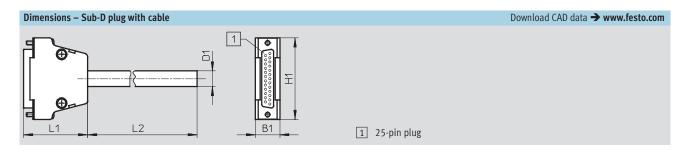
With this electrical connection variant, all valves are centrally actuated via the 25-pin connector

The electrical connection is located on the left-hand side and can be repositioned by 90°.

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	Pin	Address/	Core colour ²⁾		Valve po	ositions ¹)								
		solenoid	KMP6-25P-1	KMP6-25P-2	2	4	6	8	10	12	16	20			
		coil	2	0	Valve po	Valve position no./coil designation									
	1	0	WH	WH	0/14	0/14	0/14	0/14	0/14	0/14	0/14	0/14			
+ 1	2	1	BN	BN	0/12	0/12	0/12	0/12	0/12	0/12	0/12	1/14			
14+ + 2	3	2	GN	GN	1/14	1/14	1/14	1/14	1/14	1/14	1/14	2/14			
15+	4	3	YE	YE	1/12	1/12	1/12	1/12	1/12	1/12	1/12	3/14			
16+ + 4	5	4	GY	GY		2/14	2/14	2/14	2/14	2/14	2/14	4/14			
17+ + 5	6	5	PK	PK		2/12	2/12	2/12	2/12	2/12	2/12	5/14			
18+	7	6	BU	BU		3/14	3/14	3/14	3/14	3/14	3/14	6/14			
19+ + 6	8	7	RD	RD		3/12	3/12	3/12	3/12	3/12	3/12	7/14			
20+ + 7	9	8	BK	BK			4/14	4/14	4/14	4/14	4/14	8/14			
21+ 8	10	9	VT	VT			4/12	4/12	4/12	4/12	5/14	9/14			
+ 9	11	10	GY PK	GY PK			5/14	5/14	5/14	5/14	6/14	10/14			
+10	12	11	RD BU	RD BU			5/12	5/12	5/12	5/12	7/14	11/14			
23+ +11	13	12	-	WH GN				6/14	6/14	6/14	8/14	12/14			
24+ +12	14	13	_	BN GN				6/12	6/12	6/12	9/14	13/14			
25+ +13	15	14	_	WH YE				7/14	7/14	7/14	10/14	14/14			
	16	15	_	YE BN				7/12	7/12	7/12	11/14	15/14			
	17	16	-	WH GY					8/14	8/14	12/14	16/14			
	18	17	_	GY BN					8/12	9/14	13/14	17/14			
	19	18	_	WH PK					9/14	10/14	14/14	18/14			
	20	19	_	PK BN					9/12	11/14	15/14	19/14			
	21	com	-	WH BU	Coil 16	19									
	22	com	-	BN BU	Coil 12										
	23	com	WH GN	WH RD	Coil 8	. 11									
	24	com	BN GN	BN RD	Coil 4	Coil 4 7									
	25	com	WH YE	WH BK	Coil 0	. 3									
	Numb	er of solenoic	l coils		4	8	12	16	20	20	20	20			

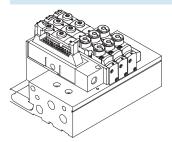
- Valve positions for actuation of 2 coils are shown against a grey background
 To IEC 757



Туре	Code	B1	D1	H1	L1	L2
		[mm]	[mm]	[mm]	[mm]	[m]
KMP6-25P-20-2,5	СР	16	10.3	53.4	37.7	2.5
KMP6-25P-20-5	CQ	16	10.3	53.4	37.7	5
KMP6-25P-20-10	CR	16	10.3	53.4	37.7	10
KMP6-25P-12-2,5	CV	16	8.5	53.4	37.7	2.5
KMP6-25P-12-5	CW	16	8.5	53.4	37.7	5
KMP6-25P-12-10	CX	16	8.5	53.4	37.7	10



Electrical multi-pin plug connection – Connector for flat cable



With this electrical connection variant, all valves are centrally actuated via the 26-pin connector plug.

The electrical connection is located on the left-hand side and can be repositioned by 90°.

This connection is intended for flat cables to DIN EN 60603-13, cable cross section AWG26.

	Pin	Address/	Valve p	ositions ¹⁾									
		solenoid coil	4	6	8	10	12	16	20				
			Valve p	Valve position no./coil designation									
	1	0	0/14	0/14	0/14	0/14	0/14	0/14	0/14				
	2	1	0/12	0/12	0/12	0/12	0/12	0/12	1/14				
	3	2	1/14	1/14	1/14	1/14	1/14	1/14	2/14				
	4	3	1/12	1/12	1/12	1/12	1/12	1/12	3/14				
26 7 13	5	4	2/14	2/14	2/14	2/14	2/14	2/14	4/14				
	6	5	2/12	2/12	2/12	2/12	2/12	2/12	5/14				
+ +	7	6	3/14	3/14	3/14	3/14	3/14	3/14	6/14				
+ +	8	7	3/12	3/12	3/12	3/12	3/12	3/12	7/14				
+ +	9	8		4/14	4/14	4/14	4/14	4/14	8/14				
+ +	10	9		4/12	4/12	4/12	4/12	5/14	9/14				
+ +	11	10		5/14	5/14	5/14	5/14	6/14	10/1				
14 + + 1	12	11		5/12	5/12	5/12	5/12	7/14	11/1				
	13	12			6/14	6/14	6/14	8/14	12/14				
ЩЩ	14	13			6/12	6/12	6/12	9/14	13/1				
	15	14			7/14	7/14	7/14	10/14	14/1				
	16	15			7/12	7/12	7/12	11/14	15/1				
	17	16				8/14	8/14	12/14	16/14				
	18	17				8/12	9/14	13/14	17/1				
	19	18				9/14	10/14	14/14	18/1				
	20	19				9/12	11/14	15/14	19/1				
	21 (free)	-	-										
	22	com	Coil 16	19									
	23	com	Coil 12	15									
	24	com	Coil 8	Coil 8 11									
	25	com	Coil 4	Coil 4 7									
	26	com	Coil 0	. 3									
	Number of solen	oid coils	8	12	16	20	20	20	20				

¹⁾ Valve positions for actuation of 2 coils are shown against a grey background

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Key features – Electrical components

Fieldbus Direct DeviceNet Profibus DP

Properties

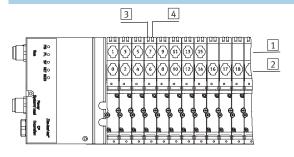
Fieldbus Direct is a system for the compact connection of a valve terminal of various sizes to different fieldbus standards.

The CP string extension option allows the functions and components of the CPI installation system to be used.

The I/O modules and cables for the CP string extension are ordered using the order code for the CPI installation system.

→ Internet: ctec

Address allocation - Solenoid coils



- 1 Solenoid coils 12
- 2 Solenoid coils 14
- 3 LED solenoid coil 12
- 4 LED solenoid coil 14

The addresses of the valve solenoids on the CPASC-DN/CPASC-DP are allocated from left to right, while the addresses of the individual valve positions are allocated from front to back.

Example:

Valve terminal where the first 8 valve positions are prepared for 2 solenoids each.

Each valve position can actuate one or two solenoid coils depending on the configuration (number of valve positions and internal wiring). It then occupies one or two addresses. The internal wiring cannot be changed subsequently. The number of addresses each valve position occupies has nothing to do with what is actually mounted on the valve position (valve, blanking plate).

If a valve position for 2 addresses is actually equipped with two solenoid coils, the following allocation applies:

- Solenoid coil 14 occupies the less significant address
- Solenoid coil 12 occupies the more significant address

If a valve position for 2 addresses is equipped with only one solenoid coil, the more significant address remains unused. The valve position occupies two addresses nonetheless.

Address/	Numb	oer of t	he val	ve pos	ition																			
solenoid coil	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
32	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	-	-	-	-
32	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	-	-	-	-
24	2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-
20	2	2	2	2	2	2	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	2	2	2	2	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	2	2	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Key features - Display and operation



Display and operation - Multi-pin plug and individual valve connection

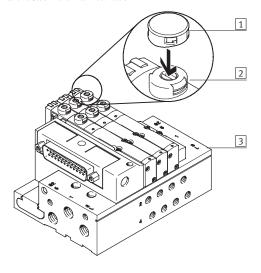
Each valve solenoid coil is allocated an LED which indicates its operating status. Inscription labels (type IBS-6x10) can be applied to each valve for labelling purposes. Alternatively inscription labels (type MH-BZ-80x) can also be affixed to the slot in the manifold block. The manual override (MO) allows the valve to be activated without electronic control or power supply. The valve is activated by pushing the manual override. The set switching status can also be secured by turning the manual override.

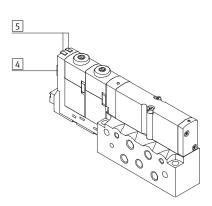
A cover can be fitted over the manual override to prevent it from being actuated accidentally (code V).



Note

A manually activated valve (manual override) cannot be reset electrically. Conversely, an electrically activated valve cannot be reset using the manual override facility.

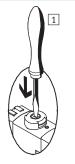


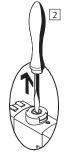


- 1 Cover for manual override (code V or accessory CPASC-MO-V)
- 2 Optional manual override (pushing and detenting via turning using a screwdriver)
- 3 Slot for inscription labels type MH-BZ-80x
- 4 Location for valve inscription label type ISB-6x10
- 5 LED signal status display per solenoid coil

Manual override (MO)

Manual override with automatic return (non-detenting)

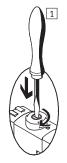




- 1 Press in the stem of the MO with a screwdriver.
- 2 Remove the screwdriver.

 Spring force pushes the stem of the MO back.

MO with detent (turning with detent)





- 1 Press in the stem of the MO with a screwdriver until the valve switches and then turn the stem clockwise by 90° until the stop is reached.
- 2 Turn the stem anti-clockwise by 90° until the stop is reached and then remove the screwdriver.

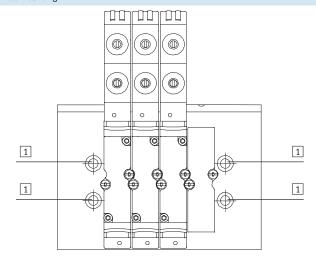
 Spring force pushes the stem of the MO back.
 - with Valve returns to initial position (not with double solenoid valve code J).



Key features – Mounting types

Mounting - Valve terminal

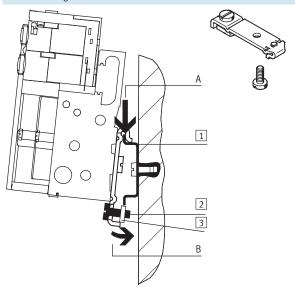
Wall mounting



The CPA-SC valve terminal is screwed onto the mounting surface using four M4 screws.

1 Holes for wall mounting

H-rail mounting



The CPA-SC valve terminal is attached to the H-rail (see arrow A).

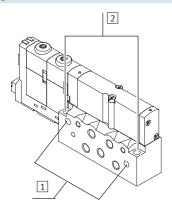
The CPA-SC valve terminal is then swivelled on the H-rail and secured in place with the clamping component (see arrow B).

For H-rail mounting of the CPA valve terminal, you will need the mounting kit CPASC1-BG-NRH. This enables the valve terminal to be mounted on a H-rail to EN 60715.

- 1 H-rail
- 2 Self-tapping M4x10 screw of the H-rail clamping unit
- 3 Clamping component of the H-rail clamping unit

Mounting - Individual sub-base

Wall mounting



The individual sub-base for wall mounting is designed for integration into a system or machine.

Mounting holes

- 1 Horizontal mounting
- 2 Vertical mounting





- **[]** - Width 10 mm

- **** - Voltage 24 V DC



General technical data											
Valve		5/2-way valve		2x 3/2-w	2x 3/2-way valve		5/3-way valve			2x 2/2-way valve	
				Normally		Mid-position			Normally	Normally	
		Single solenoid	Double solenoid	open	closed	pressurised	closed	exhausted	closed	closed	
Valve function ordering code		M	J	N	K	В	G	E	Х	I	
Design		Electromagnetically actuated piston spool valve									
Width	[mm]	10	10								
Nominal diameter	[mm]	2.5	2.5								
Lubrication		Lubricated	Lubricated for life, PWIS-free (free of paint-wetting impairment substances)								
Type of mounting	Wall mount	ing									
		On H-rail to	EN 60715								
Assembly position		Any									
Manual override		Pushing/de	Pushing/detented by turning								
Pneumatic connections											
Pneumatic connection		Via manifo	manifold block, PRS manifold or individual connection								
Supply port	1	G½ (M5 w	ith individua	l block)							
Exhaust port	3/5	G½ (M5 w	ith individua	l block)							
Working lines	2/4	Depending	on the conne	ection type s	selected						
		• M5									
		• QS-3									
		• QS-4									
Pilot air port	12/14	M5 (M3 wit	h individual	block)							
Pilot exhaust air port	82/84	M5 (M3 wit	h individual	block)							
Pressure compensating port L M5, M3											



Technical dat

Valve response times [ms]										
Valve function ordering code		M	J	N	K	В	G	E	Χ	1
Response times	on	10	-	10	10	10	10	10	10	10
	off	20	-	20	20	25	25	25	20	20
	change-	-	10	-	-	-	-	-	-	-
	over									

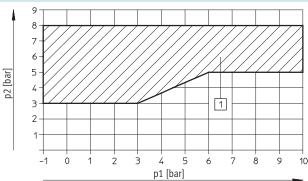
Operating and environmenta	l conditions											
Valve function ordering code		M	J	N	K	В	G	E	Х	I		
Operating medium		Filtered com	Filtered compressed air, lubricated or unlubricated, inert gases → 35									
Grade of filtration	[µm]	40)									
Operating pressure	[bar]	-0.9 +10	0.9 +10 3 10 -0.9 +10						3 10			
Operating pressure for valve	[bar]	3 8	8									
terminal with internal pilot												
air supply												
Pilot pressure	[bar]	3 8										
Ambient temperature	[°C]	-5 +60		-5 +40 ¹⁾		-5 +60				-5 +40 ¹⁾		
Ambient temperature in	[°C]	-5 +50		-5 +40 ¹⁾		-5 +50				-5 +40 ¹⁾		
case of fieldbus connection												
Storage temperature	[°C]	-20 +40										
Corrosion resistance class CR	1											
CE mark (see declaration of co	onformity)	To EU EMC D	To EU EMC Directive ³⁾									
Certification c UL us - Recognized (OL)												

- 1) Restricted ambient temperature in case of two permanently activated solenoid coils per valve location, otherwise same temperature range as ordering code M.
- 2) Corrosion resistance class 1 according to Festo standard 940 070
- Components requiring low corrosion resistance. 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.
- 3) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com
 Support
 User documentation.

 If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

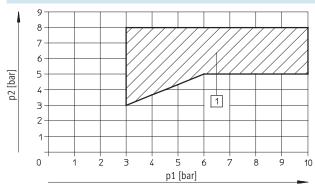
Pilot pressure p2 as a function of working pressure p1 with external pilot air supply

for valve sub-bases with code M, J, B, G, E, X



1 Operating range for valves with external pilot air supply

for valve sub-bases with code N, K, I



1 Operating range for valves with external pilot air supply



Electrical data												
Valve function ordering code	9	M	J	N	K	В	G	E	Х	I		
Electromagnetic compatibili	ty of the	Interferen	ce emission te	ested to EN (51000-6-4,	industry						
CPA-SC valve terminal (Subcable connection)	D or flat	Interferen	Interference immunity ¹⁾ tested to EN 61000-6-2, industry									
Protection against electric s	hock	By means	By means of PELV power supply unit									
(protection against direct ar												
contact to EN 60204-1/IEC 204)												
Operating voltage of valves	and electror	nic componer	nts									
Nominal operating voltage	[V]	24 DC	4 DC									
Operating voltage range	[V]	20.4 26.4 DC										
Electrical power consumption	n											
Electronic components	[mA]	200 and 0	current consur	mption of se	nsors							
Valves	[W]	Pull: 1, ho	old: 0.3									
Residual ripple	[Vss]	4										
Cut-off pause	[ms]	Min. 1										
Switching frequency	[Hz]	Max. 10										
Duty cycle		100%										
Protection class to EN 6052	9	IP40 (in a	ssembled stat	e and with	detenting pl	ug)						
Relative air humidity		90% at 40	O°C, non-cond	ensing								
Vibration resistance		To DIN/IEC	68/EN 6006	8, Parts 2-6	, severity lev	vel 2						
Continuous shock resistance	To DIN/IEC	To DIN/IEC 68/EN 60068, Parts 2-27, severity level 2										

¹⁾ The maximum signal line length is 10 m

Materials										
Valve function ordering code	M	J	N	K	В	G	E	Х	I	
Manifold block	Wrought alu	Wrought aluminium alloy								
Valve sub-base	Die-cast alu	Die-cast aluminium								
Seal	Nitrile rubber									

Product weight [g]	Approx. wei	ghts							
Valve function ordering code	M	J	N	K	В	G	Е	Χ	I
Basic manifold block weight	125								
Additional manifold block weight per	40								
valve position									
Individual block	45								
per valve sub-base	40								
Fieldbus connection	150								



Standard nominal flo	ow rate [l	/min]											
	Code	Valve function	Valve	Individual block	CPA-SC valve ter- minal with multi-pin plug connection/indi- vidual PI connections	CPA-SC valve ter- minal with individual horizontal connec- tions							
R	Sub-ba	ase valve											
	M	5/2-way valve, single solenoid	220	170	150	120							
E.	J	5/2-way valve, double solenoid	220	170	150	120							
	N	2x 3/2-way valve, normally open	220	170	150	120							
	K	2x 3/2-way valve, normally closed	180	150	120	120							
	В	5/3-way valve, mid-position pressurised	220	150	120	120							
	G	5/3-way valve, mid-position closed	180	150	120	120							
	E	5/3-way valve, mid-position exhausted	180	150	120	120							
	Χ	1x 3/2-way valve	120	-	100	85							
	I	2x 2/2-way valve	150	140	140	120							
		Semi in-line valve with working port M5											
	M	5/2-way valve, single solenoid	200	180	180	180							
7	J	5/2-way valve, double solenoid	200	180	180	180							
	N	2x 3/2-way valve, normally open	200	180	180	180							
	K	2x 3/2-way valve, normally closed	150	150	150	150							
	В	5/3-way valve, mid-position pressurised	180	180	180	180							
	G	5/3-way valve, mid-position closed	150	150	150	150							
	E	5/3-way valve, mid-position exhausted	180	170	180	170							
	Χ	1x 3/2-way valve	120	-	120	120							
	Ι	2x 2/2-way valve	150	150	150	150							



	Code	Valve function	Valve	Individual block	CPA-SC valve ter- minal with multi-pin	CPA-SC valve ter- minal with individual							
					plug connection/indi- vidual PI connections	horizontal connections							
<u> </u>	Semi i	Semi in-line valve, working port with QS-3 fitting											
	М	5/2-way valve, single solenoid	140	140	140	140							
	J	5/2-way valve, double solenoid	140	140	140	140							
	N	2x 3/2-way valve, normally open	140	140	140	140							
	K	2x 3/2-way valve, normally closed	130	130	130	130							
	В	5/3-way valve, mid-position pressurised	140	140	140	140							
	G	5/3-way valve, mid-position closed	130	130	130	130							
	E	5/3-way valve, mid-position exhausted	140	140	140	140							
	Х	1x 3/2-way valve	100	-	100	100							
	1	2x 2/2-way valve	130	130	130	130							
		Somi in line valve, working port with OS // fitting											
		Semi in-line valve, working port with QS-4 fitting											
	М	5/2-way valve, single solenoid	180	170	180	180							
	J	5/2-way valve, double solenoid	180	170	180	180							
	N	2x 3/2-way valve, normally open	180	170	180	180							
	K	2x 3/2-way valve, normally closed	150	150	150	150							
	В	5/3-way valve, mid-position pressurised	180	170	180	170							
	G	5/3-way valve, mid-position closed	150	150	150	150							
	E	5/3-way valve, mid-position exhausted	170	170	170	170							
	Х	1x 3/2-way valve	120	-	120	120							
	I	2x 2/2-way valve	150	140	150	150							

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Technical data

Pneumatic equipment

Operate your equipment with unlubricated compressed air if possible. Festo valves and cylinders are designed for operation under normal use without any additional lubrication, yet still have a long service life. The quality of compressed air downstream from the compressor must correspond to that of unlubricated compressed air. If possible, do not operate all of your equipment with lubricated compressed air. The lubricators should, where possible, always be installed directly upstream of the cylinders used.

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

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

Bio-oils

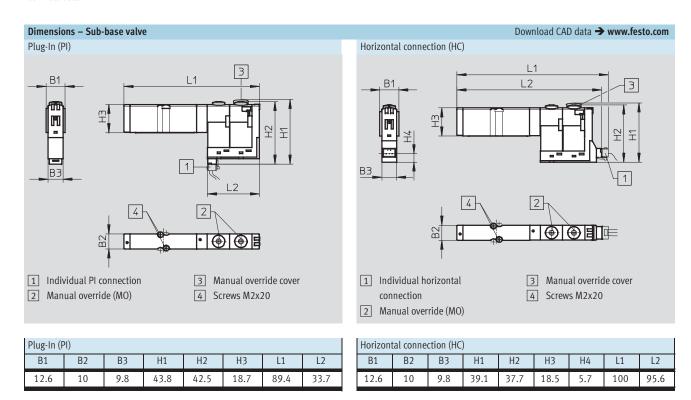
When using bio-oils (oils which are based upon synthetic or native ester, e.g. rapeseed oil methyl ester), the maximum residual oil content of 0.1 mg/m³ must not be exceeded (see ISO 8573-1 Class 2).

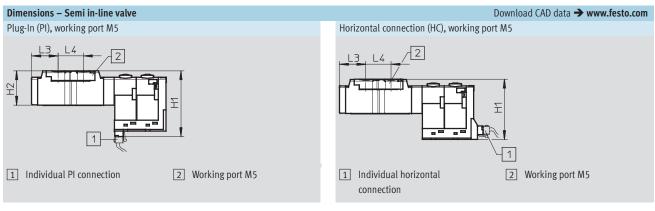
Mineral oils

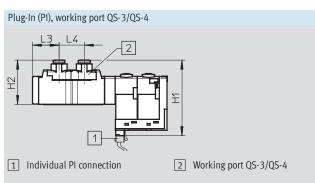
When using mineral oils (e.g. HLP oils to DIN 51524, parts 1 through 3) or similar oils based on poly-alpha-ole-fins (PAO), the maximum residual oil content of 5 mg/m³ must not be exceeded (see ISO 8573-1 Class 4). A higher residual oil content irrespective of the compressor oil cannot be permitted,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

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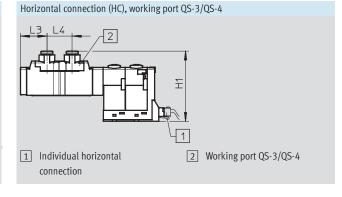
Technical data





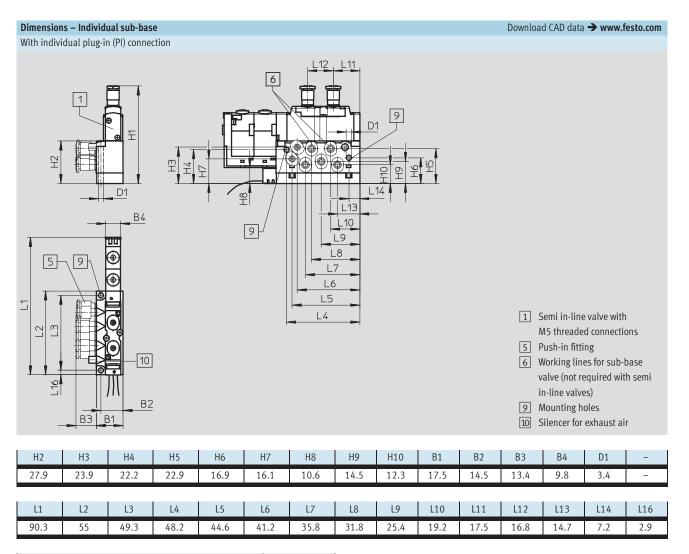


Plug-In (PI)				
	H1	H2	L3	L4
Working port M5	43.8	22.9	17.6	16.8
Working port QS-3/QS-4	50.2	29.4	17.6	16.8



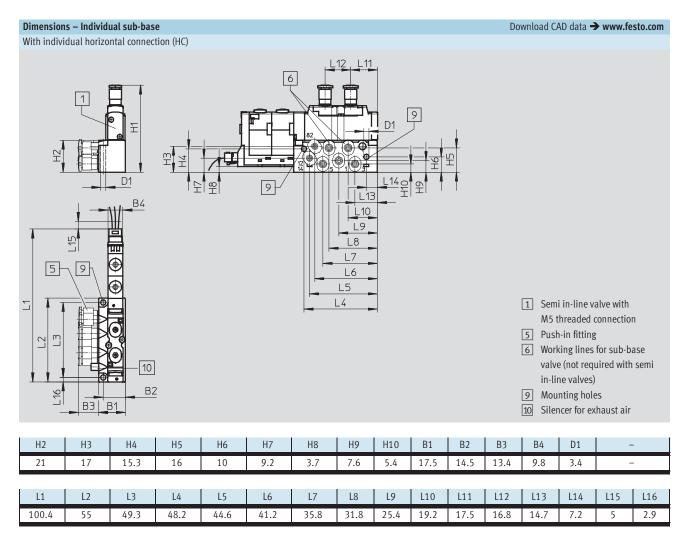
Horizontal connection (HC)										
	H1	L3	L4							
Working port M5	40.2	17.6	16.8							
Working port QS-3/QS-4	46.6	17.6	16.8							

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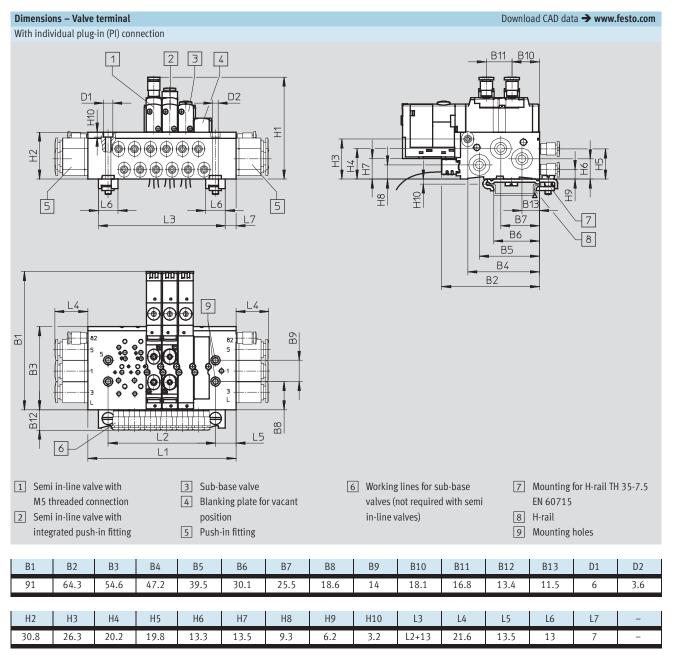
Valve type		H1
Semi in-line valve	with working port M5	50.8
	with working port QS-3/QS-4	57.2
Sub-base valve		48.3
Blanking plate		37.1





Valve type		H1
Semi in-line valve	with working port M5	43.9
	with working port QS-3/QS-4	50.3
Sub-base valve		41.4
Blanking plate		30.2

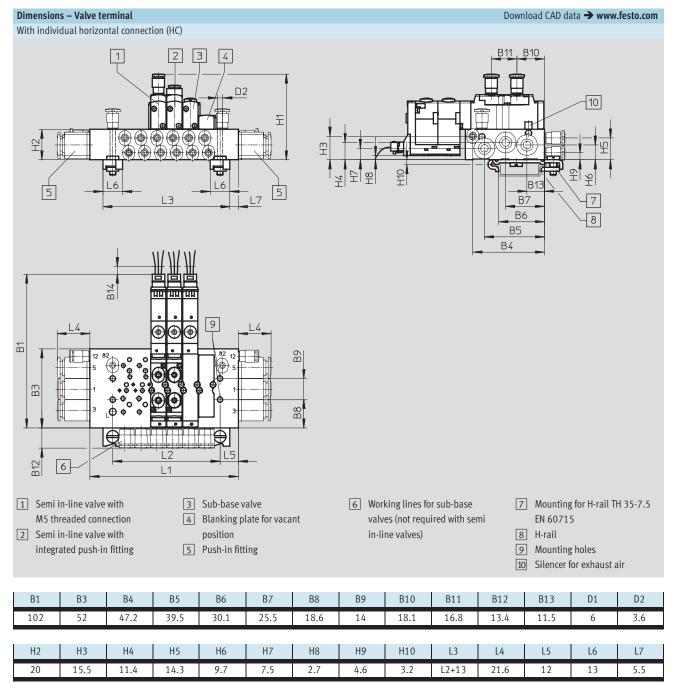




Valve positions	L1	L2	
2	55	28.5	
4	76.5	49.5	
6	97.5	70.5	
8	118.5	91.5	
10	139.5	112.5	
12	160.5	133.5	
16	202.5	175.5	

Valve type		H1
Semi in-line valve	with working port M5	53.7
	with working port QS-3/QS-4	60.1
Sub-base valve		51.2
Blanking plate		40

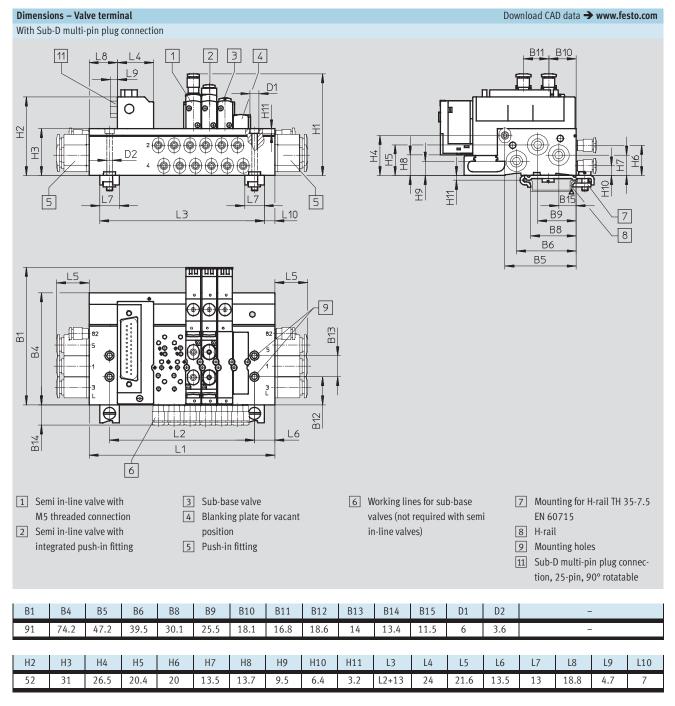




Valve positions	L1	L2
2	54.5	29
4	75.5	50
6	96.5	71
8	117.5	92
10	138.5	113
12	159.5	134
16	201.5	176

Semi in-line valve	with working port M5	42.9
	with working port QS-3/QS-4	49.3
Sub-base valve		40.4
Blanking plate		29.2

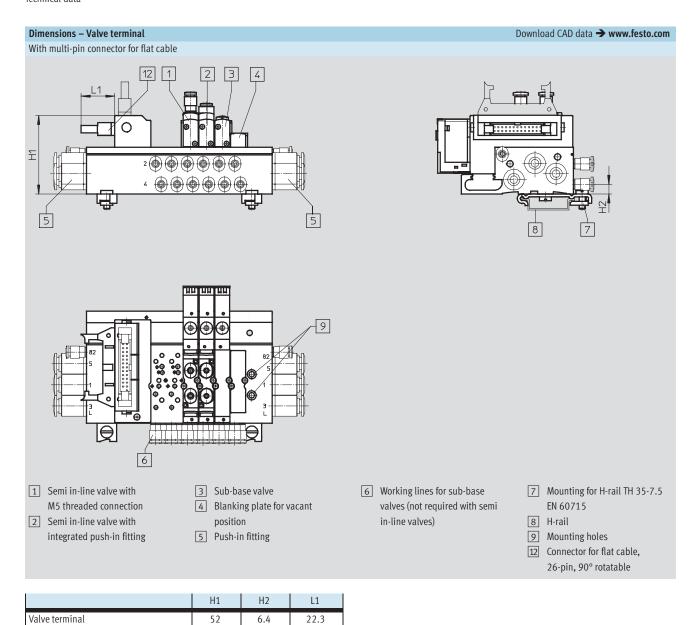




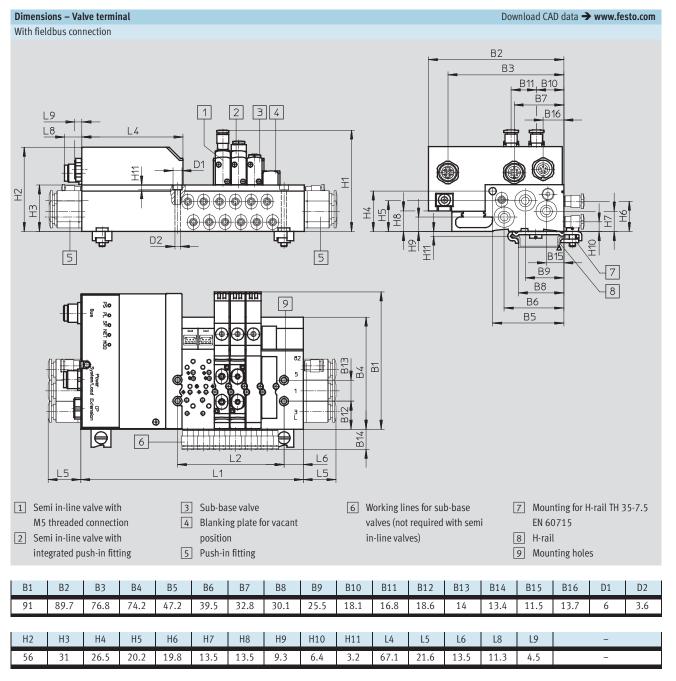
Valve positions	L1	L2
2	81	54
4	102	75
6	123	96
8	144	117
10	165	138
12	186	159
16	228	201
20	270	243

Valve type		H1
Semi in-line valve	with working port M5	53.9
	with working port QS-3/QS-4	60.3
Sub-base valve		51.4
Blanking plate		40.2









Valve positions	L1	L2
4	127.2	49.5
6	148.2	70.5
8	169.2	91.5
10	190.2	112.5
12	211.2	133.5
16	253.2	175.5
20	295.2	217.5
24	337.2	259.5

Valve type		H1
Semi in-line valve	with working port M5	53.9
	with working port QS-3/QS-4	60.3
Sub-base valve		51.4
Blanking plate		40.2

Valve terminals type 82 CPA-SC, Smart Cubic Ordering data – Individual valve



Ordering data - Sub	-base valv	es				
	Code	Valve function	Electrical	plug-in connection	Electric	al horizontal connection
			Part No.	Туре	Part No	. Туре
E .	M	5/2-way valve, single solenoid	526990	CPASC1-M1H-M-P-2,5	527008	CPASC1-M1H-M-H-2,5
	J	5/2-way valve, double solenoid	526992	CPASC1-M1H-J-P-2,5	527010	CPASC1-M1H-J-H-2,5
	N	2x 3/2-way valve, normally open	526994	CPASC1-M1H-N-P-2,5	52701	CPASC1-M1H-N-H-2,5
	K	2x 3/2-way valve, normally closed	526996	CPASC1-M1H-K-P-2,5	527014	4 CPASC1-M1H-K-H-2,5
	В	5/3-way valve, mid-position pressurised	526998	CPASC1-M1H-B-P-2,5	527010	6 CPASC1-M1H-B-H-2,5
	G	5/3-way valve, mid-position closed	527000	CPASC1-M1H-G-P-2,5	527018	CPASC1-M1H-G-H-2,5
	E	5/3-way valve, mid-position exhausted	527002	CPASC1-M1H-E-P-2,5	527020	CPASC1-M1H-E-H-2,5
	X	1x 3/2-way valve	527004	CPASC1-M1H-X-P-2,5	52702	CPASC1-M1H-X-H-2,5
	I	2x 2/2-way valve	527006	CPASC1-M1H-I-P-2,5	52702	CPASC1-M1H-I-H-2,5

	Code	Valve function	Electrical plug-in connection	Electrical horizon	horizontal connection	
			Part No.	Туре	Part No.	Туре
B)	Semi in-	line valve with M5 working ports				
	M	5/2-way valve, single solenoid	527294	CPPSC1-M1H-M-P-M5	527303	CPPSC1-M1H-M-H-M
	J	5/2-way valve, double solenoid	527295	CPPSC1-M1H-J-P-M5	527304	CPPSC1-M1H-J-H-M5
	N	2x 3/2-way valve,	527296	CPPSC1-M1H-N-P-M5	527305	CPPSC1-M1H-N-H-M5
]	normally open				
*	K	2x 3/2-way valve,	527297	CPPSC1-M1H-K-P-M5	527306	CPPSC1-M1H-K-H-M5
2)		normally closed				
	В	5/3-way valve,	527298	CPPSC1-M1H-B-P-M5	527307	CPPSC1-M1H-B-H-M5
		mid-position pressurised				
	G	5/3-way valve,	527299	CPPSC1-M1H-G-P-M5	527308	CPPSC1-M1H-G-H-M5
2. 11 B	à	mid-position closed				
•	E	5/3-way valve,	527300	CPPSC1-M1H-E-P-M5	527309	CPPSC1-M1H-E-H-M5
		mid-position exhausted				
	Χ	1x 3/2-way valve	527301	CPPSC1-M1H-X-P-M5	527310	CPPSC1-M1H-X-H-M5
	I	2x 2/2-way valve	527302	CPPSC1-M1H-I-P-M5	527311	CPPSC1-M1H-I-H-M5
			1		1 1	
	Semi in-	line valve with QS-3 working ports				
	M	5/2-way valve, single solenoid	527330	CPPSC1-M1H-M-P-Q3	527339	CPPSC1-M1H-M-H-Q3
	J	5/2-way valve, double solenoid	527331	CPPSC1-M1H-J-P-Q3	527340	CPPSC1-M1H-J-H-Q3
	N	2x 3/2-way valve,	527332	CPPSC1-M1H-N-P-Q3	527341	CPPSC1-M1H-N-H-Q3
		normally open				
	K	2x 3/2-way valve,	527333	CPPSC1-M1H-K-P-Q3	527342	CPPSC1-M1H-K-H-Q3
		normally closed				-
	В	5/3-way valve,	527334	CPPSC1-M1H-B-P-Q3	527343	CPPSC1-M1H-B-H-Q3
		mid-position pressurised		·		•
	G	5/3-way valve,	527335	CPPSC1-M1H-G-P-Q3	527344	CPPSC1-M1H-G-H-Q3
		mid-position closed		·		•
	E	5/3-way valve,	527336	CPPSC1-M1H-E-P-Q3	527345	CPPSC1-M1H-E-H-Q3
		mid-position exhausted		•		•
	X	1x 3/2-way valve	527337	CPPSC1-M1H-X-P-Q3	527346	CPPSC1-M1H-X-H-Q3
	1	2x 2/2-way valve	527338	CPPSC1-M1H-I-P-Q3	527347	CPPSC1-M1H-I-H-Q3

Valve terminals type 82 CPA-SC, Smart Cubic Ordering data – Individual valve, manifold block



Ordering data – Sem	i in-line va	ılves					
	Code	Valve function	Electrical	olug-in connection	Electri	Electrical horizontal connection	
			Part No.	Туре	Part No	о. Туре	
	Semi in-	line valve with QS-4 working ports					
	M	5/2-way valve, single solenoid	527312	CPPSC1-M1H-M-P-Q4	52732	1 CPPSC1-M1H-M-H-Q4	
	J	5/2-way valve, double solenoid	527313	CPPSC1-M1H-J-P-Q4	52732	2 CPPSC1-M1H-J-H-Q4	
	N	2x 3/2-way valve, normally open	527314	CPPSC1-M1H-N-P-Q4	52732	3 CPPSC1-M1H-N-H-Q4	
	K	2x 3/2-way valve, normally closed	527315	CPPSC1-M1H-K-P-Q4	52732	4 CPPSC1-M1H-K-H-Q4	
	В	5/3-way valve, mid-position pressurised	527316	CPPSC1-M1H-B-P-Q4	52732	5 CPPSC1-M1H-B-H-Q4	
	G	5/3-way valve, mid-position closed	527317	CPPSC1-M1H-G-P-Q4	52732	6 CPPSC1-M1H-G-H-Q4	
	E	5/3-way valve, mid-position exhausted	527318	CPPSC1-M1H-E-P-Q4	52732	7 CPPSC1-M1H-E-H-Q4	
	Х	1x 3/2-way valve	527319	CPPSC1-M1H-X-P-Q4	52732	8 CPPSC1-M1H-X-H-Q4	
	I	2x 2/2-way valve	527320	CPPSC1-M1H-I-P-Q4	52732	9 CPPSC1-M1H-I-H-Q4	



Manifold blocks with multi-pin plug or fieldbus connection can only be equipped with valves with electrical plug-in connection.

Ordering data – Individual sub-base						
	With internal pilot air supply	527384	CPPSC1-PRS-1-5-HC			
2000	With external pilot air supply	527388	CPPSC1-PRS-1-5S-HC			

	Valve positions	Internal pilot air supply	External pilot air supply
		Part No. Type	Part No. Type
dividual plug-in o	connection		
(Da	2	527106 CPASC1-PRS-2-5-M5-PI	527218 CPASC1-PRS-2-5S-M5-PI
	4	527108 CPASC1-PRS-4-5-M5-PI	527220 CPASC1-PRS-4-5S-M5-PI
	6	527110 CPASC1-PRS-6-5-M5-PI	527222 CPASC1-PRS-6-5S-M5-PI
	8	527112 CPASC1-PRS-8-5-M5-PI	527224 CPASC1-PRS-8-5S-M5-PI
V	10	527114 CPASC1-PRS-10-5-M5-PI	527226 CPASC1-PRS-10-5S-M5-PI
	12	527116 CPASC1-PRS-12-5-M5-PI	527228 CPASC1-PRS-12-5S-M5-PI
	16	527118 CPASC1-PRS-16-5-M5-PI	527230 CPASC1-PRS-16-5S-M5-PI
1 1 . 1			
ndividual horizont			
\$ 5 E	2	527078 CPASC1PRS-2-5-M5-HC	527190 CPASC1PRS-2-5S-M5-HC
	4	527080 CPASC1PRS-4-5-M5-HC	527192 CPASC1PRS-4-5S-M5-HC
	6	527082 CPASC1PRS-6-5-M5-HC	527194 CPASC1PRS-6-5S-M5-HC
	8	527084 CPASC1PRS-8-5-M5-HC	527196 CPASC1PRS-8-5S-M5-HC
	10	527086 CPASC1PRS-10-5-M5-HC	527198 CPASC1PRS-10-5S-M5-HC
	12	527088 CPASC1PRS-12-5-M5-HC	527200 CPASC1PRS-12-5S-M5-HC
	16	527090 CPASC1PRS-16-5-M5-HC	527202 CPASC1PRS-16-5S-M5-HC

Valve terminals type 82 CPA-SC, Smart Cubic Ordering data – Individual valve, manifold block



	Valve positions	Internal pilot air supply	External pilot air supply
		Part No. Type	Part No. Type
ulti-pin plug conr	nection, Sub-D		
/iac	2	539898 CPASC1-PRS-2-5-M5-MP	539896 CPASC1-PRS-2-5S-M5-MP
	4	527134 CPASC1-PRS-4-5-M5-MP	527246 CPASC1-PRS-4-5S-M5-MP
	6	527136 CPASC1-PRS-6-5-M5-MP	527248 CPASC1-PRS-6-5S-M5-MP
	8	527138 CPASC1-PRS-8-5-M5-MP	527250 CPASC1-PRS-8-5S-M5-MP
	10	527140 CPASC1-PRS-10-5-M5-MP	527252 CPASC1-PRS-10-5S-M5-MP
	12	527142 CPASC1-PRS-12-5-M5-MP	527254 CPASC1-PRS-12-5S-M5-MP
	16	527144 CPASC1-PRS-16-5-M5-MP	527256 CPASC1-PRS-16-5S-M5-MP
	20	527146 CPASC1-PRS-20-5-M5-MP	527258 CPASC1-PRS-20-5S-M5-MP
	-		
ulti-pin plug conr	nection, flat cable		
/iao	4	527162 CPASC1-PRS-4-5-M5-FL	527274 CPASC1-PRS-4-5S-M5-FL
	6	527164 CPASC1-PRS-6-5-M5-FL	527276 CPASC1-PRS-6-5S-M5-FL
	8	527166 CPASC1-PRS-8-5-M5-FL	527278 CPASC1-PRS-8-5S-M5-FL
	10	527168 CPASC1-PRS-10-5-M5-FL	527280 CPASC1-PRS-10-5S-M5-FL
	12	527170 CPASC1-PRS-12-5-M5-FL	527282 CPASC1-PRS-12-5S-M5-FL
	16	527172 CPASC1-PRS-16-5-M5-FL	527284 CPASC1-PRS-16-5S-M5-FL
	20	527174 CPASC1-PRS-20-5-M5-FL	527286 CPASC1-PRS-20-5S-M5-FL

	Valve positions	Internal pilot air supply	External pilot air supply
		Part No. Type	Part No. Type
ıdividual plug-in o	connection		
\\ \dag{\omega}	2	527092 CPPSC1-PRS-2-5-PI	527204 CPPSC1-PRS-2-5S-PI
	4	527094 CPPSC1-PRS-4-5-PI	527206 CPPSC1-PRS-4-5S-PI
	6	527096 CPPSC1-PRS-6-5-PI	527208 CPPSC1-PRS-6-5S-PI
	8	527098 CPPSC1-PRS-8-5-PI	527210 CPPSC1-PRS-8-5S-PI
\checkmark	10	527100 CPPSC1-PRS-10-5-PI	527212 CPPSC1-PRS-10-5S-PI
	12	527102 CPPSC1-PRS-12-5-PI	527214 CPPSC1-PRS-12-5S-PI
	16	527104 CPPSC1-PRS-16-5-PI	527216 CPPSC1-PRS-16-5S-PI
dividual horizont	al connection		
, S.	2	527064 CPPSC1PRS-2-5-HC	527176 CPPSC1PRS-2-5S-HC
	4	527066 CPPSC1PRS-4-5-HC	527178 CPPSC1PRS-4-5S-HC
	6	527068 CPPSC1PRS-6-5-HC	527180 CPPSC1PRS-6-5S-HC
	8	527070 CPPSC1PRS-8-5-HC	527182 CPPSC1PRS-8-5S-HC
	10	527072 CPPSC1PRS-10-5-HC	527184 CPPSC1PRS-10-5S-HC
	12	527074 CPPSC1PRS-12-5-HC	527186 CPPSC1PRS-12-5S-HC
	16	527076 CPPSC1PRS-16-5-HC	527188 CPPSC1PRS-16-5S-HC
	<u>.</u>		
ılti-pin plug conr	nection, Sub-D		
/inc	2	539902 CPPSC1-PRS-2-5-MP	539900 CPPSC1-PRS-2-5S-MP
	4	527120 CPPSC1-PRS-4-5-MP	527232 CPPSC1-PRS-4-5S-MP
	6	527122 CPPSC1-PRS-6-5-MP	527234 CPPSC1-PRS-6-5S-MP
	8	527124 CPPSC1-PRS-8-5-MP	527236 CPPSC1-PRS-8-5S-MP
	10	527126 CPPSC1-PRS-10-5-MP	527238 CPPSC1-PRS-10-5S-MP
	12	527128 CPPSC1-PRS-12-5-MP	527240 CPPSC1-PRS-12-5S-MP
	16	527130 CPPSC1-PRS-16-5-MP	527242 CPPSC1-PRS-16-5S-MP
	20	527132 CPPSC1-PRS-20-5-MP	527244 CPPSC1-PRS-20-5S-MP

Valve terminals type 82 CPA-SC, Smart Cubic Ordering data – Accessories



Ordering data – Manifold block for semi in-line valves							
	Valve positions	Internal pilot air supply		External pilot air supply			
		Part No. Type		Part No. Type			
Multi-pin plug connec	tion, flat cable						
/ing	4	527148 CPPSC1-PRS-4-5-FL		527260 CPPSC1-PRS-4-5S-FL			
	6	527150 CPPSC1-PRS-6-5-FL		527262 CPPSC1-PRS-6-5S-FL			
	8	527152 CPPSC1-PRS-8-5-FL		527264 CPPSC1-PRS-8-5S-FL			
	10	527154 CPPSC1-PRS-10-5-FL		527266 CPPSC1-PRS-10-5S-FL			
	12	527156 CPPSC1-PRS-12-5-FL		527268 CPPSC1-PRS-12-5S-FL			
	16	527158 CPPSC1-PRS-16-5-FL		527270 CPPSC1-PRS-16-5S-FL			
	20	527160 CPPSC1-PRS-20-5-FL		527272 CPPSC1-PRS-20-5S-FL			

Ordering data – Acce	essories			
Designation			Part No.	Туре
Soldering base for pl	ug-in connection		_	
COO.	3-pin	Scope of delivery 10 pieces	539904	PCBC-B-10
	3-pin	Scope of delivery 100 pieces	539905	PCBC-B-100
Plug socket with cabl	e for plug-in connection			
	For 1 coil	0.5 m	197260	MHAP-PI
		1 m	532182	MHAP-PI-1
An all	For 2 coils	0.5 m	529116	MHAP-PI-D-0,5
		1 m	527395	MHAP-PI-D-1
Plug socket with cabl	e for horizontal connection			
	For 1 coil, 2-wire	0.5 m	197263	KMH-0,5
		1 m	197264	KMH-1
		2.5 m	527400	KMH-2,5
		5 m	527401	KMH-5
	For 2 coils, 3-wire	0.5 m	527396	KMH-D-0,5
		1 m	527397	KMH-D-1
		2.5 m	527398	KMH-D-2,5
		5 m	527399	KMH-D-5
Connecting cable to I				
	Sub-D, 25-pin, up to 20 coils	2.5 m	530046	KMP6-25P-20-2,5
		5 m	530047	KMP6-25P-20-5
		10 m	530048	KMP6-25P-20-10
	Sub-D, 25-pin, up to 12 coils	2.5 m	530049	KMP6-25P-12-2,5
		5 m	530050	KMP6-25P-12-5
		10 m	530051	KMP6-25P-12-10
Power supply				
	MicroStyle M12, 5-pin socket (B-coded) for DeviceNet	for 0.75 mm ²	538999	NTSD-GD-9-M12-5POL-RK
	M12, 5-pin socket (A-coded) for Profibus DP	for 0.75 mm ²	18324	FBSD-GD-9-5POL

Valve terminals type 82 CPA-SC, Smart Cubic Ordering data – Accessories



Ordering data -	Accessories			
Designation			Part No.	Туре
Fieldbus connec	tion			
	Plug to IP65, M12, 5-pin, PG9 for DeviceNet	for 0.75 mm ²	175380	FBS-M12-5GS-PG9
	Fieldbus socket for MicroStyle connection, M12, 5-pin socket (A-coded) for DeviceNet	for 0.75 mm ²	18324	FBSD-GD-9-5POL
Adapter				
	T-adapter, 5-pin, for DH-485/DeviceNet	-	171175	FB-TA-M12-5POL
Valve terminal c	onnection		·	
	Connecting cable WS-WD, angled plug-angled socket	0.25 m	540327	KVI-CP-3-WS-WD-0,25
		0.5 m	540328	KVI-CP-3-WS-WD-0,5
		2 m	540329	KVI-CP-3-WS-WD-2
		5 m	540330	KVI-CP-3-WS-WD-5
		8 m	540331	KVI-CP-3-WS-WD-8
	Connecting cable GS-GD, straight plug-straight socket	2 m	540332	KVI-CP-3-GS-GD-2
		5 m	540333	KVI-CP-3-GS-GD-5
TAN DE		8 m	540334	KVI-CP-3-GS-GD-8

Valve terminals type 82 CPA-SC, Smart Cubic Accessories



Ordering data – Ad	cressories			
Designation Designation	accasones		Part No.	Туре
	working norte		Tute no.	1,500
Push-in fitting for v	Connecting thread M5 for tubing O.D.	2 mm	153302	QSM-M5-3
	Connecting thread M5 for tubing O.D.	3 mm		
		4 mm	153304	QSM-M5-4 QSM-M5-3-I
		3 mm	153313	<u> </u>
		4 mm	153315	QSM-M5-4-I
Push-in L-fitting fo	r working ports			
C C	Connecting thread M5 for tubing O.D.	3 mm	153331	QSML-M5-3
	Connecting thread my for tubing 0.b.	4 mm	153333	QSML-M5-4
0		6 mm	153335	QSML-M5-6
		4 mm	153339	QSMLL-M5-4
			153341	QSMLL-M5-6
		6 mm	155541	Q3MLL-M3-6
Push-in fitting for r	manifold block			
usii-iii iittiiig i0i i	Connecting thread M3 for tubing O.D.	3 mm	153301	QSM-M3-3
	Connecting timead my for tubing o.b.	4 mm	153303	QSM-M3-4
		3 mm	153312	QSM-M3-3-I
		4 mm	153314	QSM-M3-4-I
	Connecting thread M5 for tubing O.D.	3 mm	153302	QSM-M5-3
	Connecting timead my for tubing 0.b.	4 mm	153304	QSM-M5-4
		6 mm	153304	QSM-M5-6
			153313	QSM-M5-3-I
		3 mm	153315	QSM-M5-4-I
		4 mm	153317	QSM-M5-6-I
	Connecting thread G½ for tubing O.D.	6 mm	186266	QSM-G ¹ /8-4-I
	Connecting thread 678 for tubing O.D.	4 mm		
		6 mm	186267	QSM-G ¹ /8-6-I
	Connecting thread D1/2 for tubing O.D.	8 mm	186109	QS-G½-8-I
	Connecting thread R½ for tubing O.D.	4 mm	153305	QSM-1/8-4
		6 mm	153307	QSM-1/8-6
		4 mm	153316	QSM-1/8-4-I
		6 mm	153318	QSM-1/8-6-I
Push-in L-fitting fo	r manifold block			
usii-iii L-iiilliig 10	Connecting thread M3 for tubing O.D.	3 mm	153330	QSML-M3-3
	connecting thread my for tubing o.b.	4 mm	153332	QSML-M3-4
(0)		3 mm	153337	QSMLL-M3-3
		4 mm	153338	QSMLL-M3-4
	Connecting thread M5 for tubing O.D.	3 mm	153331	QSML-M5-3
	Connecting timead my for tubing o.b.	4 mm	153333	QSML-M5-4
		-	153335	QSML-M5-6
		6 mm 4 mm	153339	QSMLL-M5-4
				QSMLL-M5-6
	Connecting thread R½ for tubing O.D.	6 mm	153341	
	Connecting thread K4/8 for tubing U.D.	4 mm	153334	QSML-1/8-4
		6 mm	153336	QSML-1/8-6
		4 mm	153340	QSMLL-1/8-4
		6 mm	153342	QSMLL-1/8-6

Valve terminals type 82 CPA-SC, Smart Cubic Accessories

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Ordering data – Acce	ssories			
Designation Acce	3301163		Part No.	Туре
Silencer				76-
Sitericer	Connecting thread	M3	163978	U-M3
	Connecting tinead	M5	4645	U-M5
		M5	165003	UC-M5
		G1/8	161419	UC-1/8
	Push-in sleeve connection	3 mm	165005	UC-QS-3H
	Tush in steeve connection	4 mm	165006	UC-QS-4H
		6 mm	165007	UC-QS-6H
		8 mm	175611	UC-QS-8H
Blanking plug				
~	Thread M5		3843	B-M5
- 0	Thread M5		174308	B-M5-B
	Thread G½		3568	B -1/8
	Blanking plug for tubing O.D.	4 mm	153267	QSC-4H
		6 mm	153268	QSC-6H
0		8 mm	153269	QSC-8H
		3 mm	153382	QSMC-3H
	1			
Inscription labels				
	6x10 in frames, 64 pieces for valve ider	ntification	18576	IBS-6x10
	4.5x9 mm, 80 pieces for manifold block	identification	197259	MH-BZ-80x
Mounting				
2	For H-rail		527392	CPASC1-BG-NRH
150				
	1			
Blanking plate				
\	Cover for vacant position ¹⁾		527062	CPASC1-RP
- Ban				
$\overline{}$	Cover for manual override, covered (10	pieces)	540898	VMPA-HBV-B
		•		
	•		I	
Valve seal				
	For manifold block		527394	CPASC1-SEAL-A
Separator and assem	bly tool			
	Separator		536942	CPASC1-KT
	Assembly tool for separator		536943	CPASC1-MWKT
	7.536. Histy took for Separator		7,70747	CASCI MINICI

¹⁾ A self-adhesive label is supplied.

Valve terminals type 82 CPA-SC, Smart Cubic Accessories



Ordering data – Acce	essories			
Designation		Part No.	Туре	
User documentation				
	User documentation – CPA-SC	German	530932	P.BE-CPASC-DE
		English	530933	P.BE-CPASC-EN
		French	530934	P.BE-CPASC-FR
~		Spanish	530935	P.BE-CPASC-ES
		Italian	530936	P.BE-CPASC-IT
		Swedish	530937	P.BE-CPASC-SV
	User documentation – DeviceNet fieldbus	German	539008	P.BE-CPASC-CPVSC-DN-DE
		English	539009	P.BE-CPASC-CPVSC-DN-EN
		French	539010	P.BE-CPASC-CPVSC-DN-FR
~		Spanish	539011	P.BE-CPASC-CPVSC-DN-ES
		Italian	539012	P.BE-CPASC-CPVSC-DN-IT
		Swedish	539013	P.BE-CPASC-CPVSC-DN-SV
	User documentation – Profibus DP fieldbus	German	548725	P.BE-CPASC-CPVSC-DP-DE
		English	548726	P.BE-CPASC-CPVSC-DP-EN
		French	548728	P.BE-CPASC-CPVSC-DP-FR
		Spanish	548727	P.BE-CPASC-CPVSC-DP-ES
		Italian	548729	P.BE-CPASC-CPVSC-DP-IT
		Swedish	548730	P.BE-CPASC-CPVSC-DP-SV