

Proportional directional control valves VPWP

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Proportional directional control valves VPWP

Overview

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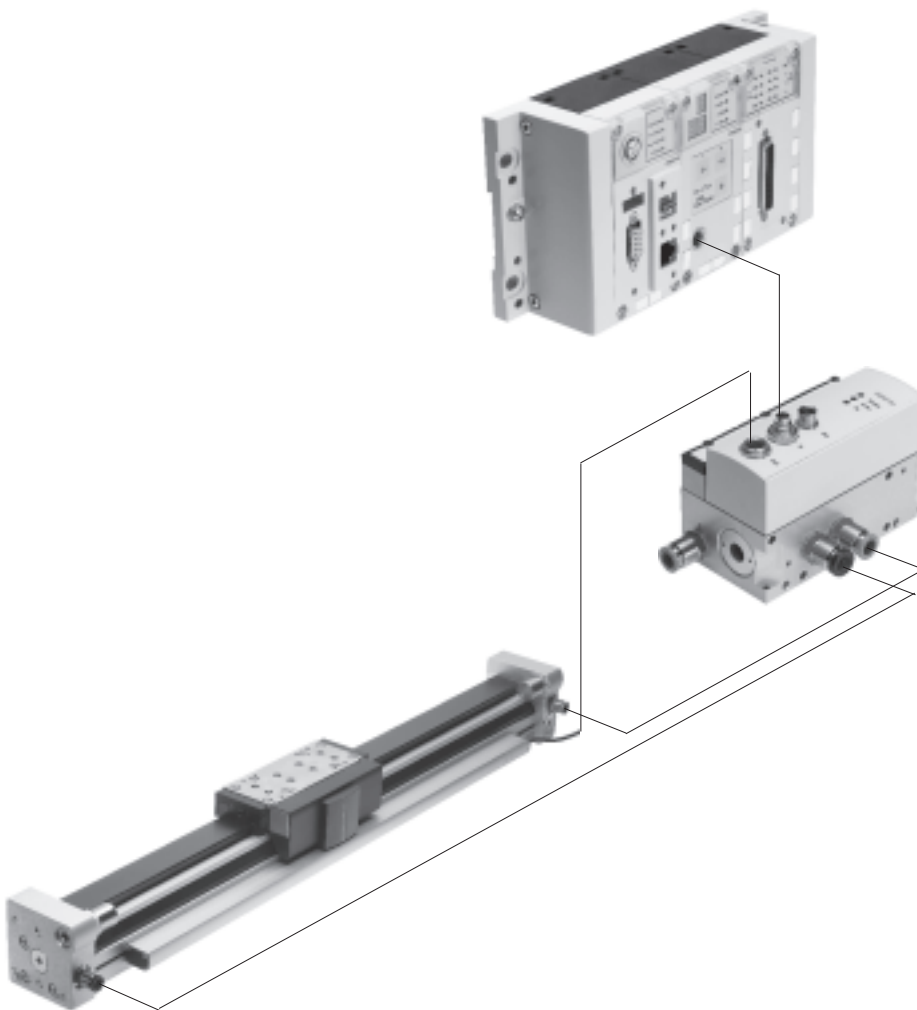
Servo-pneumatic drive technology

Positioning and Soft Stop applications as an integral component of the valve terminal CPX – the modular peripheral system for decentralised automation tasks.

The modular design means that valves, digital inputs and outputs, positioning modules and end-position controllers, as appropriate to the application, can be combined in almost any way on the CPX terminal.

Advantages:

- Pneumatics and electrics – control and positioning on one platform
- Innovative positioning technology – piston rod drives, rodless drives, rotary drives
- Actuation via fieldbus
- Remote maintenance, remote diagnostics, web server, SMS and e-mail alert are all possible via TCP/IP
- Modules can be quickly exchanged and expanded without altering the wiring



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Key features

Axis controllers CPX-CMAX



Free choice:
Position and force control, directly actuated or selected from one of 64 configurable position sets. If you are looking for something more:
the configurable function for switching to the next set enables simple functional sequences to be realised in the axis controller CPX-CMAX.
Everything is recognisable:
the auto-identification function identifies each station with its device data on the controller CPX-CMAX.

Also included:
The functional scope of the controller CPX-CMAX includes actuation of a brake or clamping unit via the proportional directional control valve VPWP.
Up to 7 modules (max. 7 axes) can be operated in parallel and independently of each other. Commissioning via FCT (Festo configuration software) or via fieldbus:
no programming, only configuration.

Technical data → Internet: cpx-cmax

- Advantages:
- Greater flexibility
 - OEM friendly – commissioning also via fieldbus
 - Clear installation and fast commissioning
 - Cost-effective
 - You program the system in your PLC environment

End-position controllers CPX-CMPX



Fast travel between the mechanical end stops of the cylinder, stopping gently and without impact in the end position.
Fast commissioning via control panel, fieldbus or handheld unit. Improved control of downtime.
Actuation of a brake or clamping unit via the proportional directional control valve VPWP is an integral component of the controller CMPX.

Depending on the fieldbus chosen, up to 9 end-position controllers can be actuated on the CPX terminal. All system data can be read and written via the fieldbus, including, for example the mid positions.

Technical data → Internet: cpx-cmpx

- Advantages:
- Greater flexibility
 - OEM friendly – commissioning also via fieldbus
 - Clear installation and fast commissioning
 - Cost-effective
 - Up to 30% faster cycle rates
 - Significantly reduced system vibration
 - Improved work ergonomics thanks to significantly reduced noise level
 - The extended diagnostics help to reduce the service time of the machine

Proportional directional control valve VPWP



The 5/3-way proportional directional control valve for applications with Soft Stop and pneumatic positioning.
Fully digitalised – with integrated pressure sensors, with new diagnostic functions.
In sizes 4, 6 and 8.
Flow rate of 350, 700 and 1,400 l/min.

With switching output for actuating a brake.
Coloured supply ports.
Pre-assembled cables guarantee faultless and fast connection with the controllers CPX-CMPX and CPX-CMAX.

Technical data → 7

- Advantages:
- Clear installation and fast commissioning
 - Reduction of system downtimes thanks to the new diagnostic options
 - With switching output for actuating a brake/clamping unit

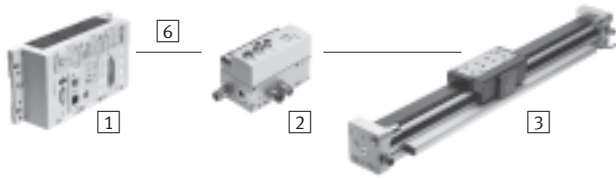
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Drive options

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System with linear drive DGCI

Technical data → Internet: dgci



- 1 Controller module CPX-CMPX or CPX-CMAX
- 2 Proportional directional control valve VPWP
- 3 Linear drive DGCI with displacement encoder
- 6 Connecting cable KVI-CP-3-...

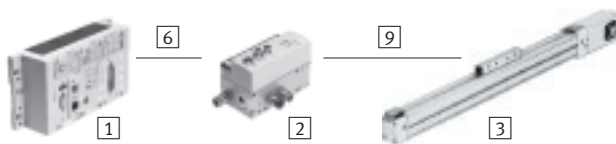
- Pneumatic rodless linear drive with displacement encoder and recirculating ball bearing guide
- Displacement encoder with absolute and contactless measuring
- Identical construction as pneumatic linear drive DGC
- Diameter: 18 ... 40 and 63 mm
- Stroke: 100 ... 2,000 mm in fixed lengths
- Range of application of Soft Stop and pneumatic positioning of loads from 1 ... 180 kg
- No sensor interface required

Advantages:

- Finished drive unit, precision guide
- Excellent running characteristics
- For fast and accurate positioning down to ± 0.2 mm (only with axis controller CPX-CMAX)

System with linear drive DGPI, DGPIIL or displacement encoder MME-MTS

Technical data → Internet: dgpi



- 1 Controller module CPX-CMPX or CPX-CMAX
- 2 Proportional directional control valve VPWP
- 3 Linear drive DGPI, DGPIIL with displacement encoder
- 6 Connecting cable KVI-CP-3-...
- 9 NEBP-M16W6-K-2-M9W5

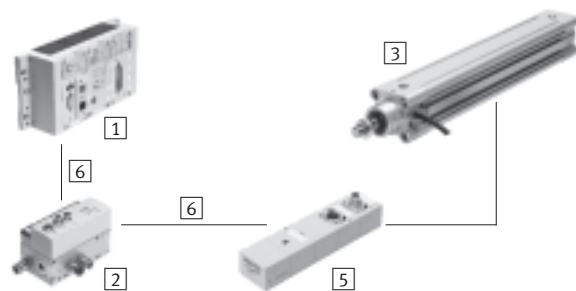
- Pneumatic rodless linear drive with displacement encoder, with or without recirculating ball bearing guide
- Displacement encoder with absolute and contactless measuring
- Diameter: 25 ... 63 mm
- Stroke: 225 ... 2,000 mm in fixed lengths
- Range of application of Soft Stop and pneumatic positioning of loads from 2 ... 180 kg
- No sensor interface required

Advantages:

- Finished drive unit
- Excellent running characteristics
- For fast and accurate positioning down to ± 0.2 mm (only with axis controller CPX-CMAX)

System with standard cylinder DNCI

Technical data → Internet: dnci



- 1 Controller module CPX-CMPX or CPX-CMAX
- 2 Proportional directional control valve VPWP
- 3 Standard cylinder DNCI with displacement encoder
- 5 Sensor interface CASM-S-D3-R7
- 6 Connecting cable KVI-CP-3-...

- Standard cylinder with integrated displacement encoder, conforms to DIN ISO 6432, VDMA 24 562, NF E 49 003.1 and Uni 10 290
- Displacement encoder with contactless and incremental measuring
- Diameter: \varnothing 32 ... 63 mm
- Stroke: 100 ... 750 mm
- Range of application of Soft Stop and pneumatic positioning: loads from 3 ... 180 kg and the matching sensor interface CASM-S-D3-R7
- Pre-assembled cables guarantee faultless and fast electrical connection

Advantages:

- Compact drive unit
- Universal applications
- Also with guide unit
- For fast and accurate positioning down to ± 0.3 mm (only with axis controller CPX-CMAX)

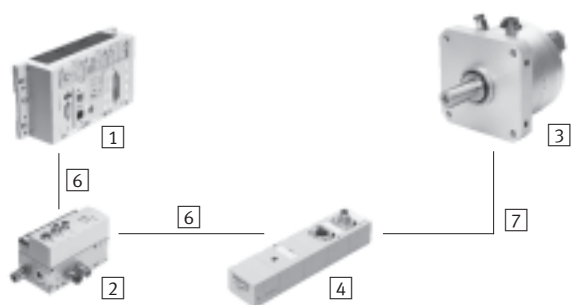
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Drive options

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System with swivel module DSMI

Technical data → Internet: [dsmi](#)



- 1 Controller module CPX-CMPX or CPX-CMAX
- 2 Proportional directional control valve VPWP
- 3 Swivel module DSMI with displacement encoder
- 4 Sensor interface CASM-S-D2-R3
- 6 Connecting cable KVI-CP-3-...
- 7 Connecting cable NEBC-P1W4-K-0,3-N-M12G5

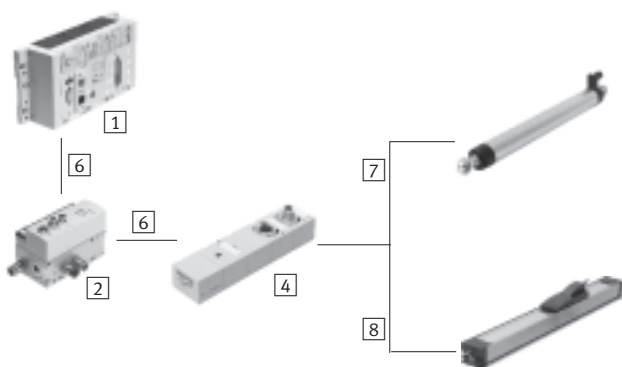
- Swivel module DSMI with integrated displacement encoder
- Identical construction as pneumatic swivel module DSM
- Absolute displacement encoder on basis of potentiometer
- Swivel range from 0 ... 270°
- Size: 25, 40, 63
- Max. torque: 5 ... 40 Nm
- Range of application of Soft Stop and pneumatic positioning: mass moments of inertia from 15 ... 6,000 kgcm² and the matching sensor interface CASM-S-D2-R3
- Pre-assembled cables guarantee faultless and fast connection with the proportional directional control valve VPWP

Advantages:

- Complete drive unit, compact, can be used immediately
- High angular acceleration
- With adjustable fixed stops
- For fast and accurate positioning down to ±0.2° (only with axis controller CPX-CMAX)

System with potentiometer

Technical data → Internet: [casm](#)



- 1 Controller module CPX-CMPX or CPX-CMAX
- 2 Proportional directional control valve VPWP
- 4 Sensor interface CASM-S-D2-R3
- 6 Connecting cable KVI-CP-3-...
- 7 Connecting cable NEBC-P1W4-K-0,3-N-M12G5
- 8 Connecting cable NEBC-A1W3-K-0,4-N-M12G5

- Attachable potentiometers with absolute measurement, with high degree of protection
- With connecting rod or moment compensator
- Measuring range: 100 ... 2,000 mm
- Pre-assembled cables guarantee faultless and fast connection with the sensor interface CASM
- Range of application of Soft Stop and pneumatic positioning with cylinder Ø 18 ... 80 mm, loads from 1 ... 300 kg

Advantages:

- Clear installation and fast commissioning
- Cost-effective
- Can also be used in harsh environmental conditions
- Variety in the drives: CPX-CMPX and CPX-CMAX also support cylinders with external displacement encoder

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Drive options

System components for Soft Stop systems with end-position controller CPX-CMPX									
		Linear drive		Standard cylinder	Swivel module	Displacement encoder	Potentiometer		→ Page/Internet
		DGCI	DGPI, DGPII	DNCI	DSMI	MME	LWG	TLF	
1	End-position controller CPX-CMPX	■	■	■	■	■	■	■	cpx-cmpx
2	Proportional directional control valve VPWP	■	■	■	■	■	■	■	7
4	Sensor interface CASM-S-D2-R3	–	–	–	■	–	■	■	casm
5	Sensor interface CASM-S-D3-R7	–	–	■	–	–	–	–	casm
6	Connecting cable KVI-CP-3-...	■	■	■	■	■	■	■	15
7	Connecting cable NEBC-P1W4-...	–	–	–	■	–	■	–	nebc
8	Connecting cable NEBC-A1W3-...	–	–	–	–	–	–	■	nebc
9	Connecting cable NEBP-M16W6-...	–	■	–	–	■	–	–	15

System components for pneumatic positioning systems with axis controller CPX-CMAX									
		Linear drive		Standard cylinder	Swivel module	Displacement encoder	Potentiometer		→ Page/Internet
		DGCI	DGPI, DGPII	DNCI	DSMI	MME	LWG	TLF	
1	Axis controller CPX-CMAX	■	■	■	■	■	■	■	cpx-cmax
2	Proportional directional control valve VPWP	■	■	■	■	■	■	■	7
4	Sensor interface CASM-S-D2-R3	–	–	–	■	–	■	■	casm
5	Sensor interface CASM-S-D3-R7	–	–	■	–	–	–	–	casm
6	Connecting cable KVI-CP-3-...	■	■	■	■	■	■	■	15
7	Connecting cable NEBC-P1W4-...	–	–	–	■	–	■	–	nebc
8	Connecting cable NEBC-A1W3-...	–	–	–	–	–	–	■	nebc
9	Connecting cable NEBP-M16W6-...	–	■	–	–	■	–	–	15

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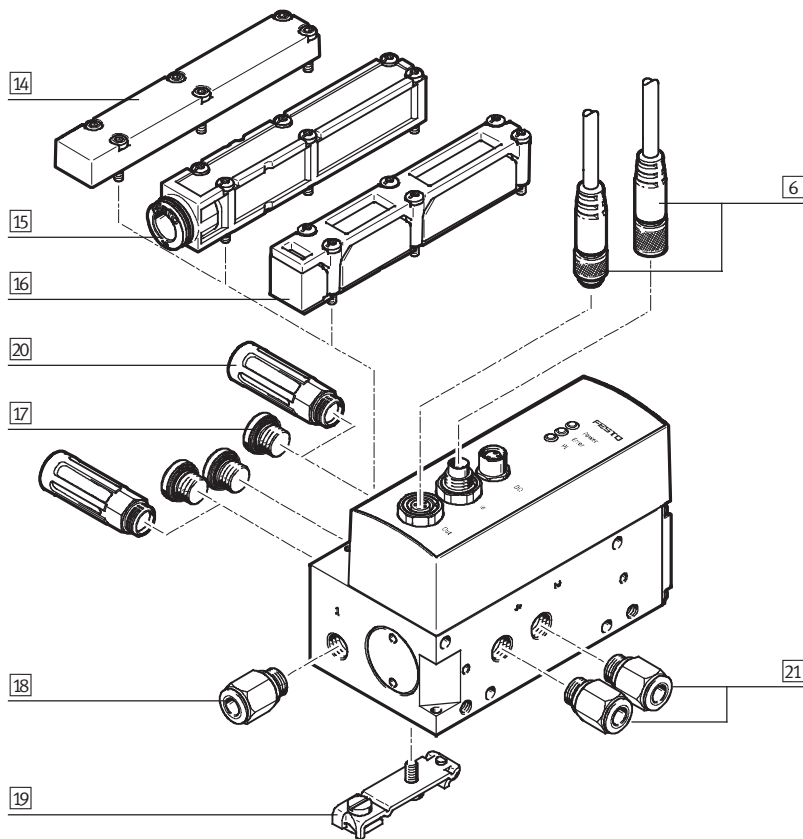
Type codes

		VPWP	-	6	-	L	-	5	-	Q6	-	10	-	E	-	F	-	
Series																		
VPWP	Proportional directional control valve																	
Nominal size																		
Valve type																		
L	In-line valve																	
Valve function																		
5	5/3-way valve																	
Pneumatic connection																		
Q6	Push-in fitting 6 mm																	
Q8	Push-in fitting 8 mm																	
Q10	Push-in fitting 10 mm																	
Q	Thread without fitting																	
Pressure range																		
10	0 ... 10 bar																	
Display type																		
E	LED only																	
Exhaust																		
D	Ducted exhaust air																	
F	Flat plate silencer																	
G	Thread without fitting																	
EU certification																		
EX1	II 3G in accordance with EU Directive 94/9/EC																	

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Peripherals overview

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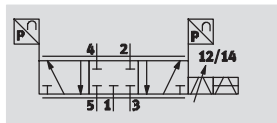
Accessories			
	For nominal size	Brief description	→ Page/Internet
6	4, 6, 8, 10	Connecting cable KVI-CP-3 For connecting proportional directional control valve VPWP to the end-position controller CPX-CMPX/axis controller CPX-CMAX or to the sensor interface CASM	15
14	4, 6, 8	Blanking plate VABB-P3-1 For using the connections on the cover plate	15
15	4, 6, 8	Plate VMPA-AP For ducted exhaust air	15
16	4, 6, 8	Plate VMPA-APU With flat plate silencer	15
17	4, 6, 8	Blanking plug B For sealing the exhaust ports on the cover plate	blanking plug
18	4, 6, 8	Push-in fitting QS Push-in fittings for easy and error-free tubing connections can be ordered using the ordering data in the modular product system	14
19	4, 6, 8	Mounting CPASC1-BG, CPV10/14-VI-BG For mounting on an H-rail	15
20	4, 6, 8, 10	Silencer U • Silencers can be used as an alternative to the plates 15 and 16 with the nominal sizes 4, 6 and 8 • Silencers must be used for the exhaust air with the nominal size 10	silencer
21	4, 6, 8	Push-in fitting QS • Different coloured push-in fittings for easy and error-free tubing connections can be ordered using the ordering data in the modular product system • For connecting compressed air tubing with standard O.D.	14
	10	• Push-in fittings must be ordered separately • For connecting compressed air tubing with standard O.D.	16

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Technical data

Function



Voltage
24 V DC

Flow rate
350 ... 2,000 l/min

Pressure
0 ... 10 bar



General technical data					
Nominal size		4	6	8	10
Pneumatic connection		G1/8		G1/4	G3/8
Nominal size	[mm]	4	6	8	10
Standard nominal flow rate	[l/min]	350	700	1,400	2,000
Valve function		5/3-way proportional directional control valve, closed			
Design		Piston spool with integrated pressure sensors			
Sealing principle		Hard			
Actuation type		Electric			
Reset method		Magnetic spring			
Type of control		Direct			
Direction of flow		Non-reversible			
Type of mounting		Direct mounting via through-holes			
		Via H-rail			–
Mounting position ¹⁾		Preferably horizontal (display elements facing upwards)			
Product weight	[g]	776	776	1,060	1,010
Pressure sensors					
Repetition accuracy FS	[%]	< 1			
Pressure resolution	[bar]	0.01			
Linearity error FS ²⁾	[%]	< 1.5			
Diagnostics					
LED displays		Green	Nominal operating voltage		
		Red	Error		
		Yellow	Load voltage		
Device-specific diagnostics via control interface		– Undervoltage with operating and load voltage – Temperature monitoring – Valve sticking – Short-circuit monitoring – Device data			
Control interface					
Data		CAN bus with Festo protocol			
		Digital			
		Integrated terminating resistor			
Electrical connection		5-pin			
		M9			
		Plug			

1) If the proportional directional control valve moves during operation, it must be mounted at right angles to the direction of movement

2) Based on 6 bar

Proportional directional control valves VPWP

Technical data

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Electrical data		
Load supply		
Operating voltage range	[V DC]	18 ... 30
Nominal operating voltage	[V DC]	24
Load voltage range	[V DC]	18 ... 30
Nominal load voltage	[V DC]	24
Residual ripple	[Vss]	4
Max. current consumption (logic)	[A]	0.15
Max. current consumption (valve drive)	[A]	1.2
Power supply requirement		PELV (Protective Extra-Low Voltage)
Safety note		The valve assumes the closed mid-position if there is a problem with the control interface
Digital output (plug D0, PIN2)		
Supply voltage	[V DC]	24 (coming from load voltage)
Max. load current	[mA]	500
Properties		<ul style="list-style-type: none"> – Positive logic (PNP) to IEC 61131-2 – No galvanic isolation – Protected against short circuits – Reverse supply with no damage
Voltage output (plug D0, PIN4)		
Supply voltage	[V DC]	24 (coming from load voltage)
Max. load current	[mA]	500
Properties		<ul style="list-style-type: none"> – Positive logic (PNP) to IEC 61131-2 – No galvanic isolation – Protected against short circuits – Reverse supply with no damage

Operating and environmental conditions				
Nominal size	4	6	8	10
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [6:4:4]			
Note on operating/pilot medium	Operation with lubricated medium not possible			
Operating pressure [bar]	0 ... 10			
Nominal operating pressure [bar]	6			
Operating pressure for positioning/Soft Stop [bar]	4 ... 8			
Ambient temperature [°C]	0 ... 50			
Temperature of medium [°C]	0 ... 50			
Storage temperature [°C]	−20 ... +70			
CE marking (see declaration of conformity)	To EU EMC Directive			
Protection class ¹⁾	IP65			
Vibration resistance to DIN/IEC 68, Part 2-6	With wall mounting: tested to severity level 2			
	With H-rail mounting: tested to severity level 1			–
Continuous shock resistance to DIN/IEC 68, Part 2-27	With wall mounting: tested to severity level 2			
	With H-rail mounting: tested to severity level 1			–
Corrosion resistance class CRC ²⁾	1			
Certification	C-Tick			

1) In assembled state, with plug, at nominal pressure and with tubing connected

2) 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.

ATEX	
ATEX category for gas	II 3G
Explosion ignition protection type for gas	Ex nA IIC T5 X Gc
Explosion-proof temperature rating	0 °C ≤ Ta ≤ +50 °C
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)

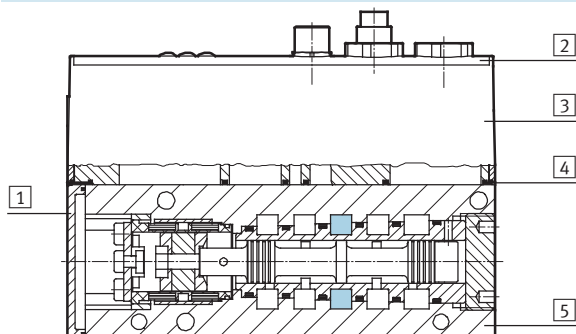
Proportional directional control valves VPWP

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Technical data

Materials

Sectional view

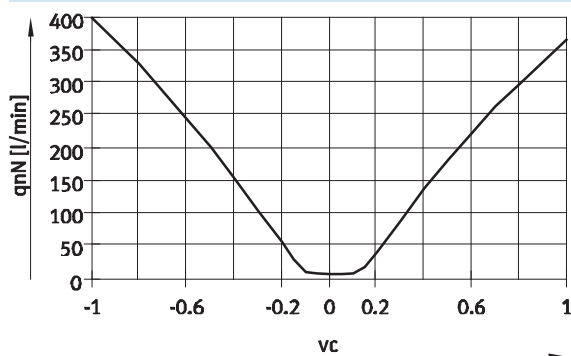


Proportional directional control valve

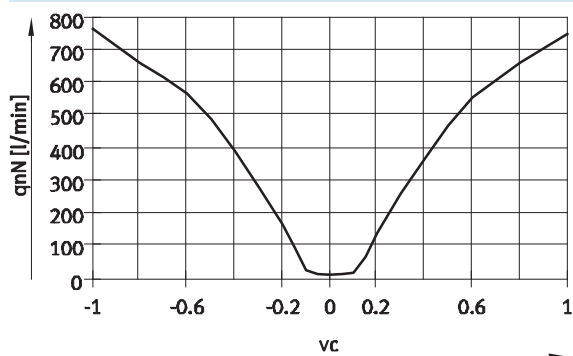
1	Cover	Reinforced polyamide
2	Inscription panel	Polyester
3	Electronics housing	Reinforced polyamide
4	Seals	Nitrile rubber
5	Valve housing	Anodised wrought aluminium alloy
-	Note on materials	RoHS-compliant

Flow rate q_{vN} as a function of digital actuation v_c * [100%]

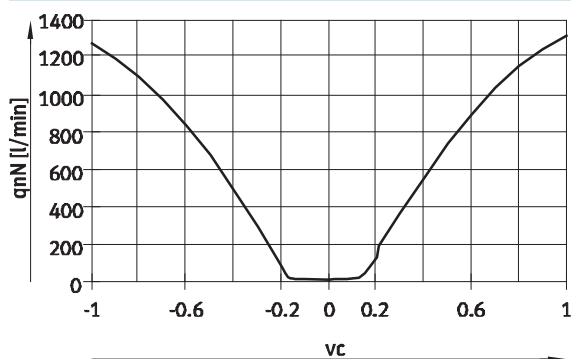
Nominal size 4



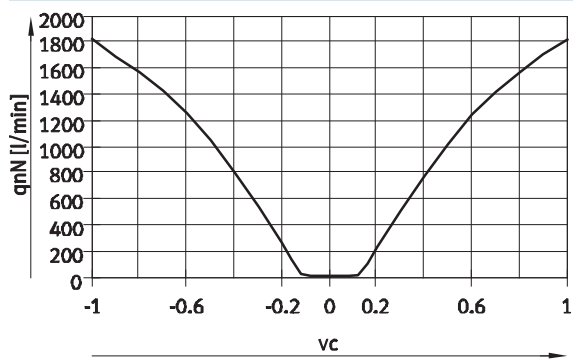
Nominal size 6



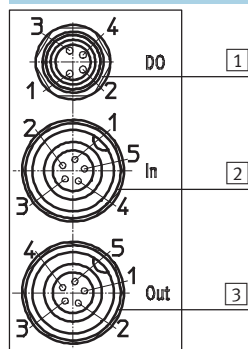
Nominal size 8



Nominal size 10



Pin allocation



1 DO, 4-pin M8 socket	
Pin	Function
1	-
2	Digital output
3	0 V
4	24 V voltage output
-	
-	

2 IN, 5-pin M9 plug	
Pin	Function
1	24 V operating voltage
4	24 V load voltage
3	0 V
4	CAN_H
5	CAN_L
-	FE

3 OUT, 5-pin M9 socket	
Pin	Function
1	24 V operating voltage
2	24 V load voltage
3	0 V
4	CAN_H
5	CAN_L
-	FE

Proportional directional control valves VPWP

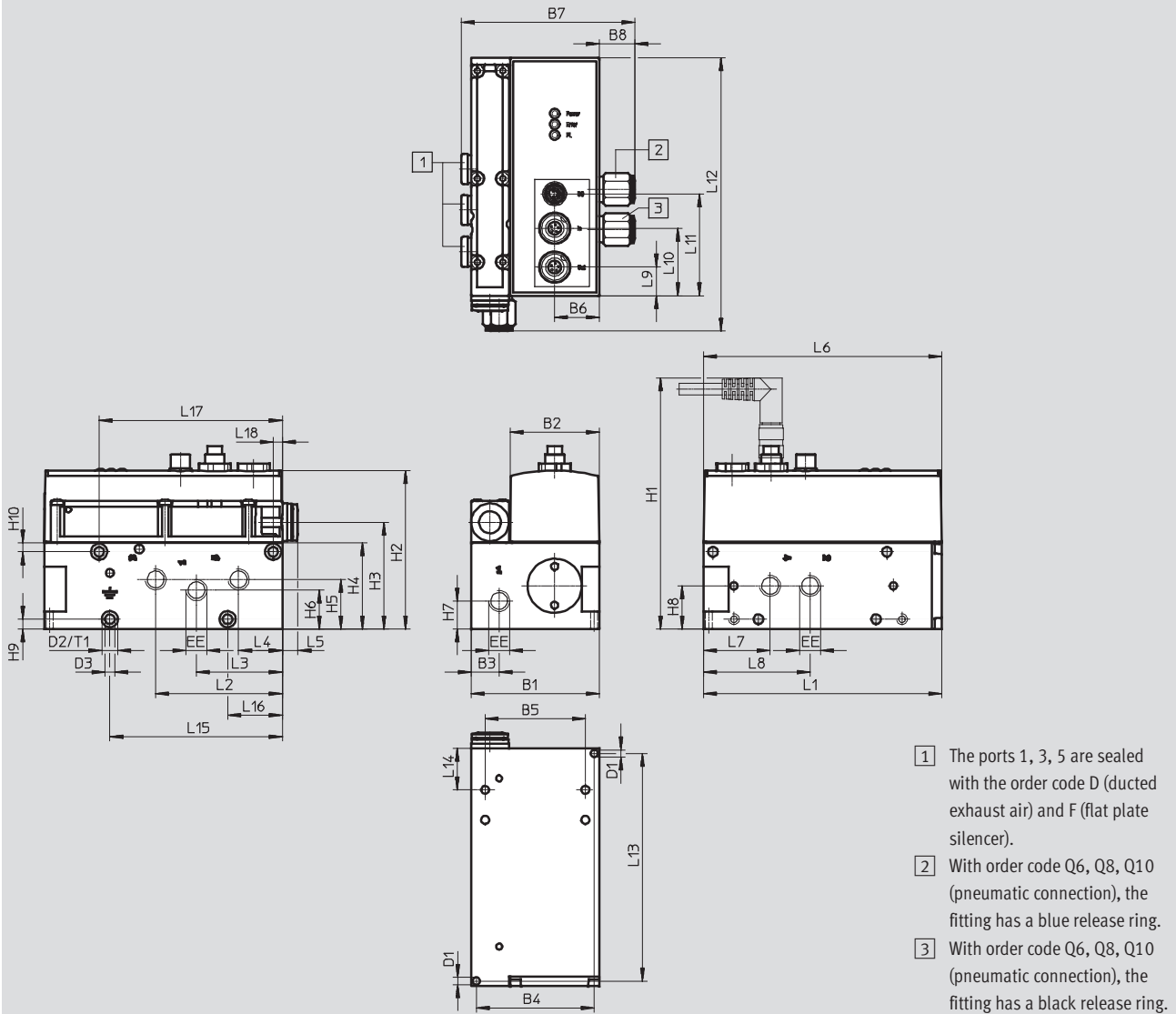
Technical data

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Dimensions

Download CAD Data → www.festo.com/us/cad

Nominal size 4, 6, 8



Nominal size	B1	B2	B3	B4	B5	B6	B7		B8		D1 Ø	D2 H13	D3 H13	EE
							Q6	Q8	Q6	Q8				
4	59.5	41.5	13	54.7	46.5	20.75	80.4	85.6	16.4	21.6	3.4	7.5	4.5	G $\frac{1}{8}$
6				64.5	56.5		85.6	85.6	21.6	21.6				
8	69.5						98.6	98.6	24.1	24.1		8		G $\frac{1}{4}$

Nominal size	H1 ¹⁾	H2	H3 ²⁾	H4	H5	H6	H7	H8	H9 ±0.1	H10 ±0.1	L1	L2	L3	L4
4	approx. 120/116	73.5	50	40	23	18	13	20	5	4.7	110.4	58.8	39.8	20.3
6														
8	approx. 128/124	81.5	58	48	28	22	15.5	24		5	122.3	67.6	45.2	22.8

Nominal size	L5 ²⁾	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15 ±0.1	L16 ±0.1	L17 ±0.1	L18 ±0.1	T1
4	7.2	110.4	30.8	49.3	13.3	31.3	47.3	132	105.6	19.3	80	25.4	85	4.75	4.4
6			34	56.4				146.5	117.3	22.5	93	28.5	93	5	
8	–														

1) Angled plug/straight plug

2) Only with variant D

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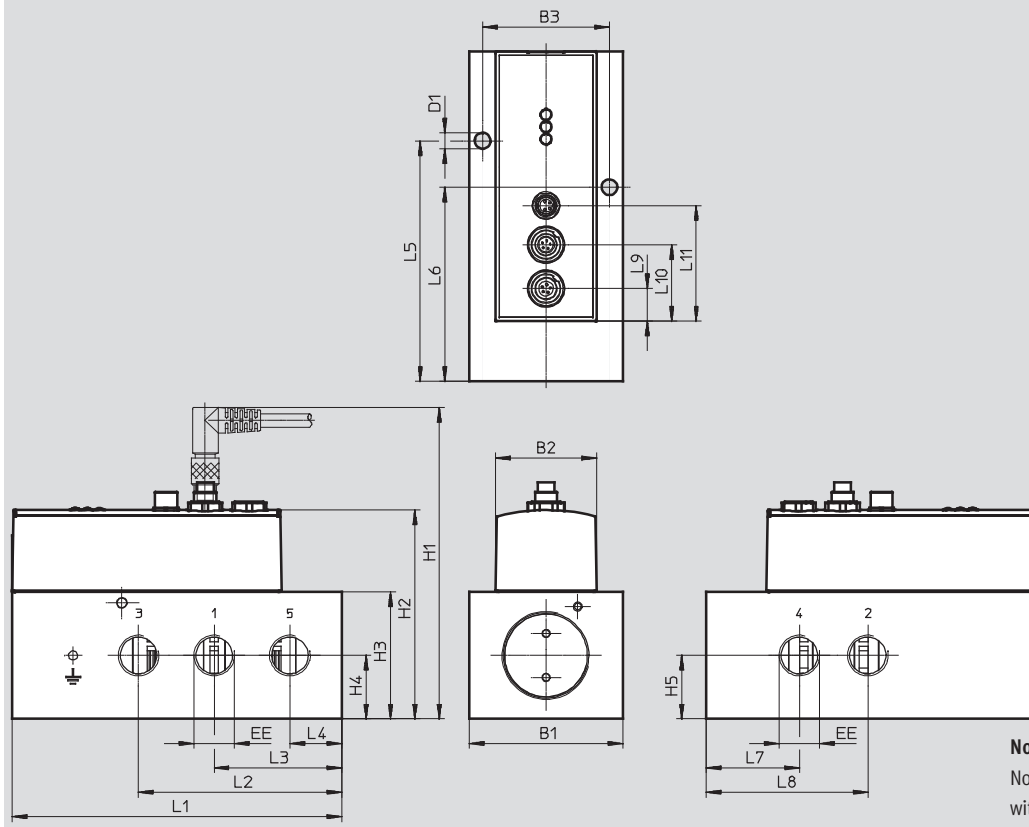
Technical data

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Dimensions

Download CAD Data → www.festo.com/us/cad

Nominal size 10



Note

Nominal size 10 is always supplied without QS push-in fittings.

Nominal size	B1	B2	B3	D1 Ø	EE	H1	H2	H3	H4	H5	L1
10	63	41.5	52	6.5	G $\frac{3}{8}$	124	82	48.5	24.25	24.25	135

Nominal size	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
10	83.2	52.2	21.2	98.4	79.4	38.2	66.2	13.3	31.3	47.3

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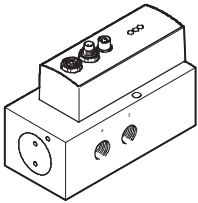
Ordering data – Modular products

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Ordering table						
Size	4	6	8	Conditions	Code	Enter code
[M] Module No.	550170	550171	550172			
Series	Proportional directional control valve				VPWP	VPWP
Nominal size	4	–	–		-4	
	–	6	–		-6	
	–	–	8		-8	
Valve type	In-line valve				-L	-L
Valve function	5/3-way valve				-5	-5
Pneumatic connection	Push-in fitting 6 mm	–	–		-Q6	
	Push-in fitting 8 mm	–	–		-Q8	
	–	–	Push-in fitting 10 mm		-Q10	
	Thread without fitting				-Q	
	G $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{4}$			
Pressure range	0 ... 10 bar				-10	-10
Display type	LED only				-E	-E
Exhaust	Ducted exhaust air				-D	
	QSIK-S-10	QSIK-S-10	QSIK-S-10			
	Flat plate silencer				-F	
	Thread without fitting				-G	
	G $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{4}$			
EU certification	II 3G in accordance with EU Directive 94/9/EC				-EX1	

Transfer order code

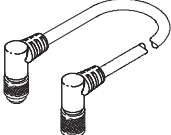

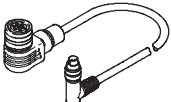
VPWP - - **L** - **5** - - **10** - **E** - -

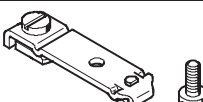
Ordering data		
Nominal size 10	Part No.	Type
	1552544	VPWP-10-L-5-Q-10-E-G-EX1

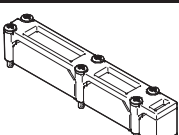
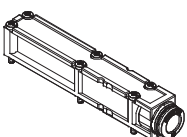
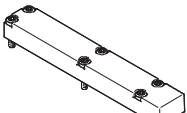
Proportional directional control valves VPWP

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Accessories

Ordering data – Connecting cables				
	Brief description	Cable length [m]	Part No.	Type
Connection between axis controller CPX-CMAX/end-position controller CPX-CMPX and proportional directional control valve VPWP or between proportional directional control valve VPWP and sensor interface CASM				
	Angled plug and angled socket	0.25	540327	KVI-CP-3-WS-WD-0,25
		0.5	540328	KVI-CP-3-WS-WD-0,5
		2	540329	KVI-CP-3-WS-WD-2
		5	540330	KVI-CP-3-WS-WD-5
		8	540331	KVI-CP-3-WS-WD-8
	Straight plug and straight socket	2	540332	KVI-CP-3-GS-GD-2
		5	540333	KVI-CP-3-GS-GD-5
		8	540334	KVI-CP-3-GS-GD-8
	Connector for control cabinet through-feed	–	543252	KVI-CP-3-SSD
Connection between linear drive DGPI, DGPIIL or displacement encoder MME and proportional directional control valve VPWP				
	For linear drive DGPI, DGPIIL	2	575898	NEBP-M16W6-K-2-M9W5


Ordering data – Mountings			
	Brief description	Part No.	Type
	For nominal size 4 and 6	527392	CPASC1-BG-NRH
	For nominal size 8	162556	CPV10/14-VI-BG-NRH-35

Ordering data – Exhaust variants			
	Brief description	Part No.	Type
	Plate with flat plate silencer for nominal size 4, 6, 8	533374	VMPA-APU
	Plate for ducted exhaust air for nominal size 4, 6, 8	533375	VMPA-AP
	Blanking plate, for using the connections on the valve block directly, for example for a silencer for nominal size 4, 6, 8	563896	VABB-P3-1

Proportional directional control valves VPWP

Accessories

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Ordering data – Push-in fittings			
	Nominal size	Part No.	Type
	Ports 2 and 4		
	4	186096	QS-G $\frac{1}{8}$ -6
	4, 6	186098	QS-G $\frac{1}{8}$ -8
	8	186101	QS-G $\frac{1}{4}$ -10
	10	186103	QS-G $\frac{3}{8}$ -12
	Port 1		
	4, 6	186098	QS-G $\frac{1}{8}$ -8
	8	186101	QS-G $\frac{1}{4}$ -10
	10	186103	QS-G $\frac{3}{8}$ -12

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Festo North America

Festo Regional Contact Center

5300 Explorer Drive
Mississauga, Ontario L4W 5G4
Canada

USA Customers:

For ordering assistance,

Call: 1.800.99.FESTO (1.800.993.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: customer.service@us.festo.com

For technical support,

Call: 1.866.GO.FESTO (1.866.463.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: product.support@us.festo.com

Canadian Customers:

Call: 1.877.GO.FESTO (1.877.463.3786)

Fax: 1.877.FX.FESTO (1.877.393.3786)

Email: festo.canada@ca.festo.com

USA Headquarters

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

USA Sales Offices

Appleton

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

Boston

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

Chicago

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

Dallas

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

Detroit – Automotive Engineering Center

2601 Cambridge Court, Suite 320
Auburn Hills, MI 48326, USA

New York

395 Moreland Road
Hauppauge, NY 11788, USA

Silicon Valley

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

United States



USA Headquarters, East: Festo Corp., 395 Moreland Road, Hauppauge, NY 11788

Phone: 1.631.435.0800; Fax: 1.631.435.8026;

Email: info@festo-usa.com

www.festo.com/us

Canada



Headquarters: Festo Inc., 5300 Explorer Drive, Mississauga, Ontario L4W 5G4

Phone: 1.905.624.9000; Fax: 1.905.624.9001;

Email: festo.canada@ca.festo.com

www.festo.ca

Mexico



Headquarters: Festo Pneumatic, S.A., Av. Ceylán 3, Col. Tequesquahuac,
54020 Tlalnepantla, Edo. de México

Phone: 011 52 [55] 53 21 66 00; Fax: 011 52 [55] 53 21 66 65;

Email: festo.mexico@mx.festo.com

www.festo.com/mx

Central USA

Festo Corporation
1441 East Business
Center Drive
Mt. Prospect, IL 60056, USA
Phone: 1.847.759.2600
Fax: 1.847.768.9480



Western USA

Festo Corporation
4935 Southfront Road,
Suite F
Livermore, CA 94550, USA
Phone: 1.925.371.1099
Fax: 1.925.245.1286



Festo Worldwide

Argentina Australia Austria Belarus Belgium Brazil Bulgaria Canada Chile China Colombia Croatia Czech Republic Denmark
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