

Proportional directional control valves VPWP



Proportional directional control valves VPWP

Overview

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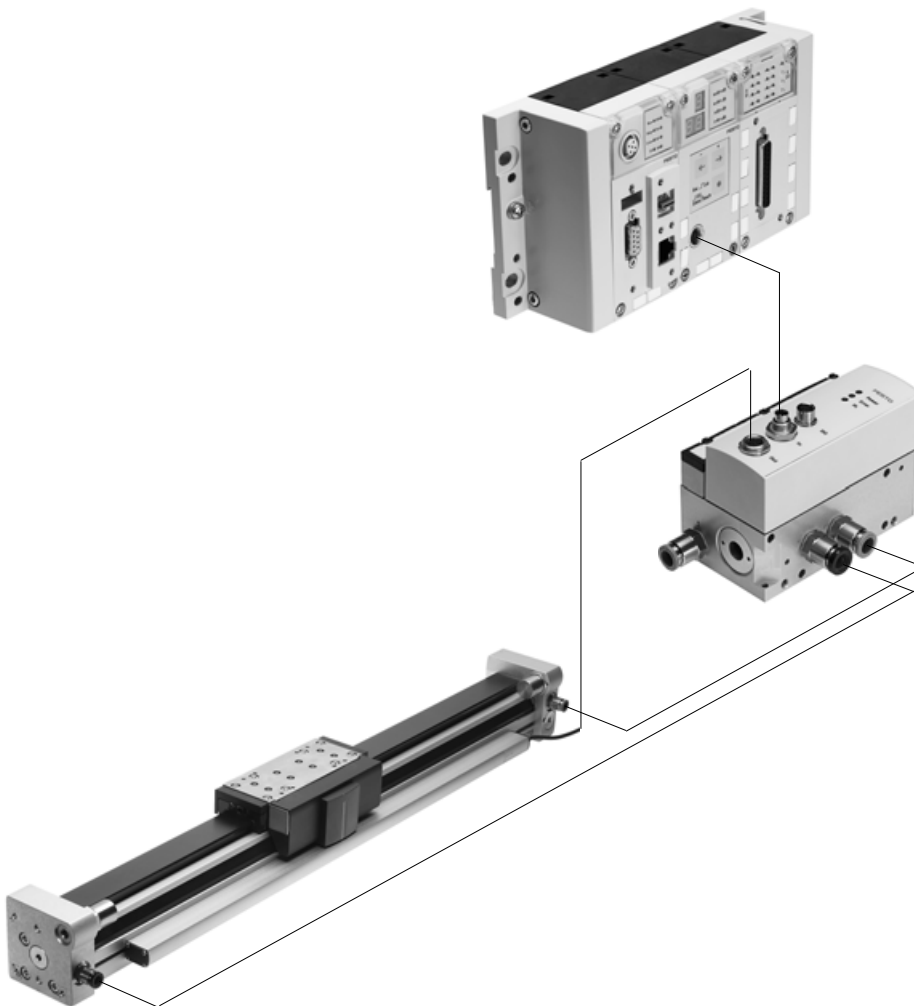
Servo-pneumatic drive technology

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



Proportional directional control valves VPWP

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 1400 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

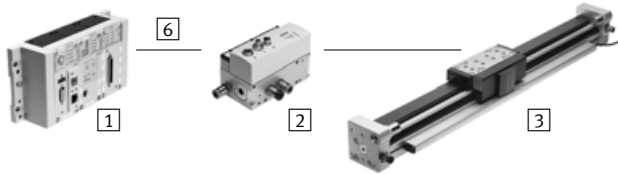
- Advantages:**
- Clear installation and fast commissioning
 - Reduction of system downtimes thanks to the new diagnostic options
 - With switching output for actuating a brake/clamping unit

Proportional directional control valves VPWP

Drive options

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System with linear drive DDLI, DGCI



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

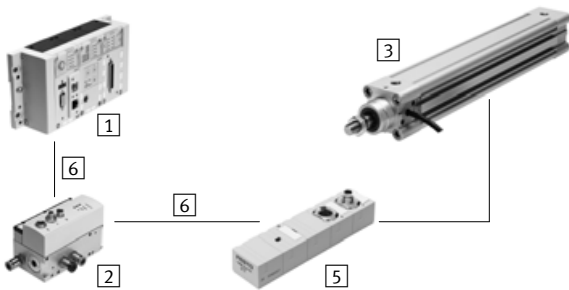
- Pneumatic rodless linear drive with displacement encoder, with or without recirculating ball bearing guide
- Displacement encoder with absolute and contactless measurement
- Diameters:
 - DGCI: 18 ... 63 mm
 - DDLI: 25 ... 63 mm
- Stroke: 100 ... 2000 mm in fixed lengths
- Range of applications: Soft Stop and pneumatic positioning
- Loads from 1 ... 180 kg
- No sensor interface required

Technical data → Internet: [ddli](#) or [dgci](#)

Advantages:

- Complete drive unit
- DDLI for easy connection to customer's guide system
- Excellent running characteristics
- For fast and accurate positioning down to ± 0.2 mm (only with axis controller CPX-CMAX)

System with standard cylinder DNCI, DDPC



- 1 Controller module CPX-CMPX or CPX-CMAX
- 2 Proportional directional control valve VPWP
- 3 Standard cylinder DNCI, DDPC 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: 32 ... 100 mm
- Stroke: 100 ... 750 mm
- Range of applications: Soft Stop and pneumatic positioning
- Loads from 3 ... 450 kg and a matching sensor interface CASM-S-D3-R7
- Pre-assembled cables guarantee faultless and fast electrical connection

Technical data → Internet: [dncl](#)

Advantages:

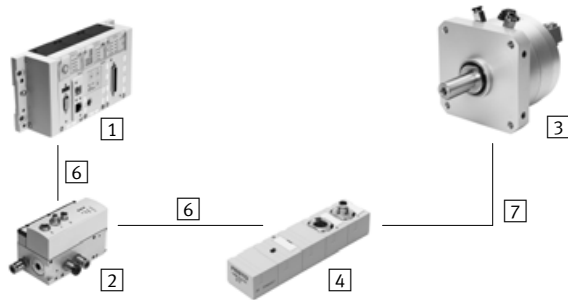
- Compact drive unit
- Can be used universally
- Also with guide unit
- For fast and accurate positioning up to ± 0.5 mm (only with axis controller CPX-CMAX)

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Drive options

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

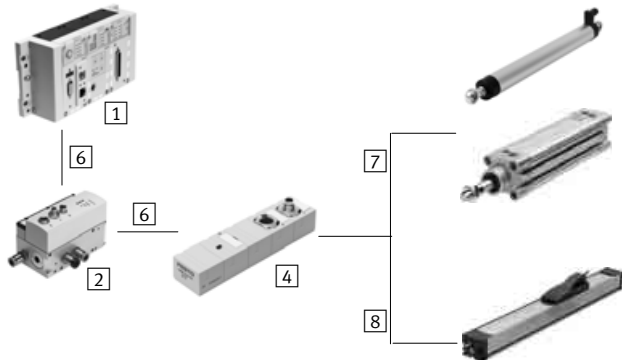
- Swivel module DSMI with integrated displacement encoder
- Identical construction as pneumatic swivel module DSM
- Absolute displacement encoder on basis of potentiometer
- Swivel range from 0 ... 270°
- Size: 25, 40, 63
- Max. torque: 5 ... 40 Nm
- Range of application of Soft Stop and pneumatic positioning: mass moments of inertia from 15 ... 6000 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:
Connecting rod: 100 ... 750 mm
Moment compensator: 225 ... 2000 mm
- Pre-assembled cables guarantee faultless and fast connection with the sensor interface CASM
- Range of applications: Soft Stop and pneumatic positioning with cylinder Ø 25 ... 80 mm, e.g. DNC or DSBC
- Loads from 1 ... 300 kg

Advantages:

- Easy installation and fast commissioning
- Cost-effective
- Can also be used in harsh ambient conditions
- Variety of 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							
3		Linear drive	Standard cylinder	Swivel module	Displacement encoder		→ Page/ Internet
		DDLI/DGCI	DNCI/DDPC	DSMI	MLO-LWG/-TLF	MME-MTS	
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							
3		Linear drive	Standard cylinder	Swivel module	Displacement encoder		→ Page/ Internet
		DDLI/DGCI	DNCI/DDPC	DSMI	MLO-LWG/-TLF	MME-MTS	
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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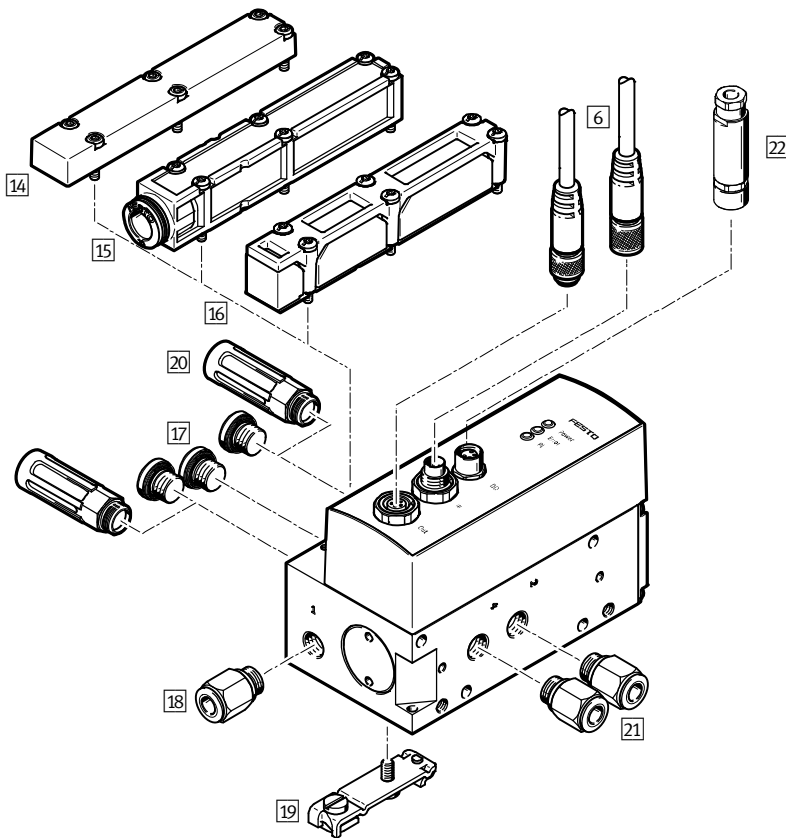
Type codes

		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																		

Proportional directional control valves VPWP

Peripherals overview

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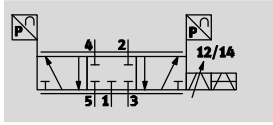
Accessories			
	For nominal size	Description	→ Page/Internet
6	4, 6, 8, 10	Connecting cable KVI-CP-3 For connecting proportional directional control valve VPWP to the end-position controller CPX-CMPX/axis controller CPX-CMAX or to the sensor interface CASM	15
14	4, 6, 8	Blanking plate VABB-P3-1 For using 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
22	4, 6, 8, 10	Plug NECU For connecting the solenoid valves to the proportional directional control valve VPWP	15




Proportional directional control valves VPWP

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Technical data

Function



-  Voltage
24 V DC
-  Flow rate
350 ... 2000 l/min
-  Pressure
0 ... 10 bar



General technical data									
Nominal size	4		6		8		10		
Pneumatic connection	G1/8		G1/8		G1/4		G3/8		
Nominal size	[mm]	4		6		8		10	
Standard nominal flow rate	[l/min]	350		700		1400		2000	
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		1060		1010	
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	<ul style="list-style-type: none"> - 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

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Technical data

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 CRC 1 to Festo standard FN 940070

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

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)

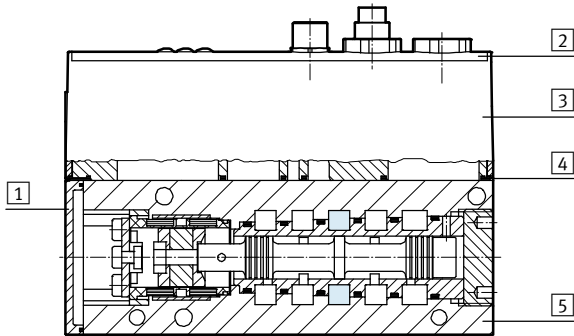
Proportional directional control valves VPWP

Technical data

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Materials

Sectional view

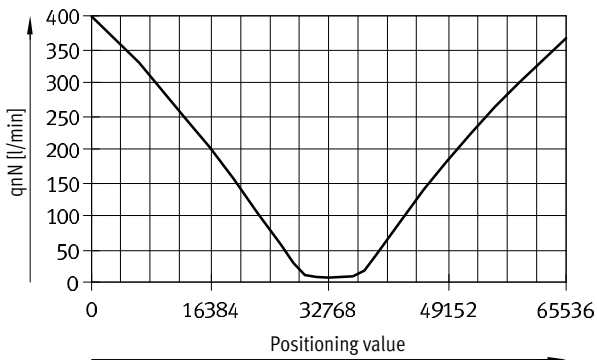


Proportional directional control valve

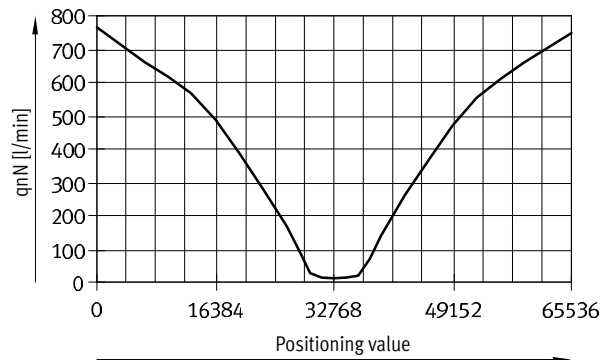
1	Cover	Reinforced polyamide
2	Inscription panel	Polyester
3	Electronics housing	Reinforced polyamide
4	Seals	Nitrile rubber
5	Valve housing	Anodised wrought aluminium alloy
-	Note on materials	RoHS-compliant

Flow rate q_N as a function of digital actuation v_c * [100%]

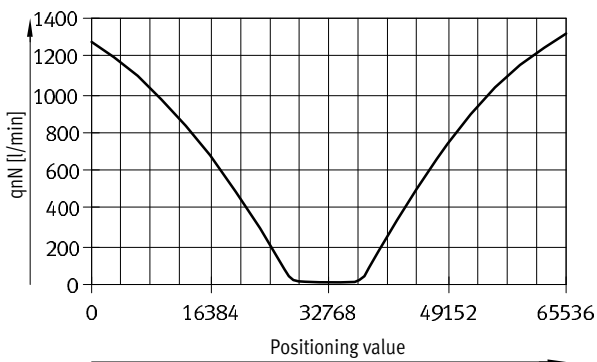
Nominal size 4



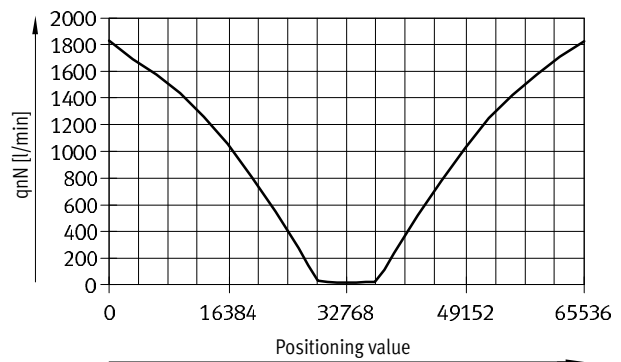
Nominal size 6



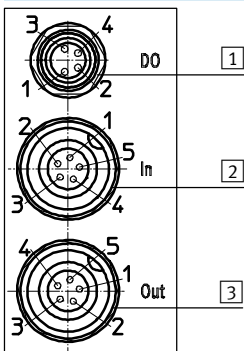
Nominal size 8



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

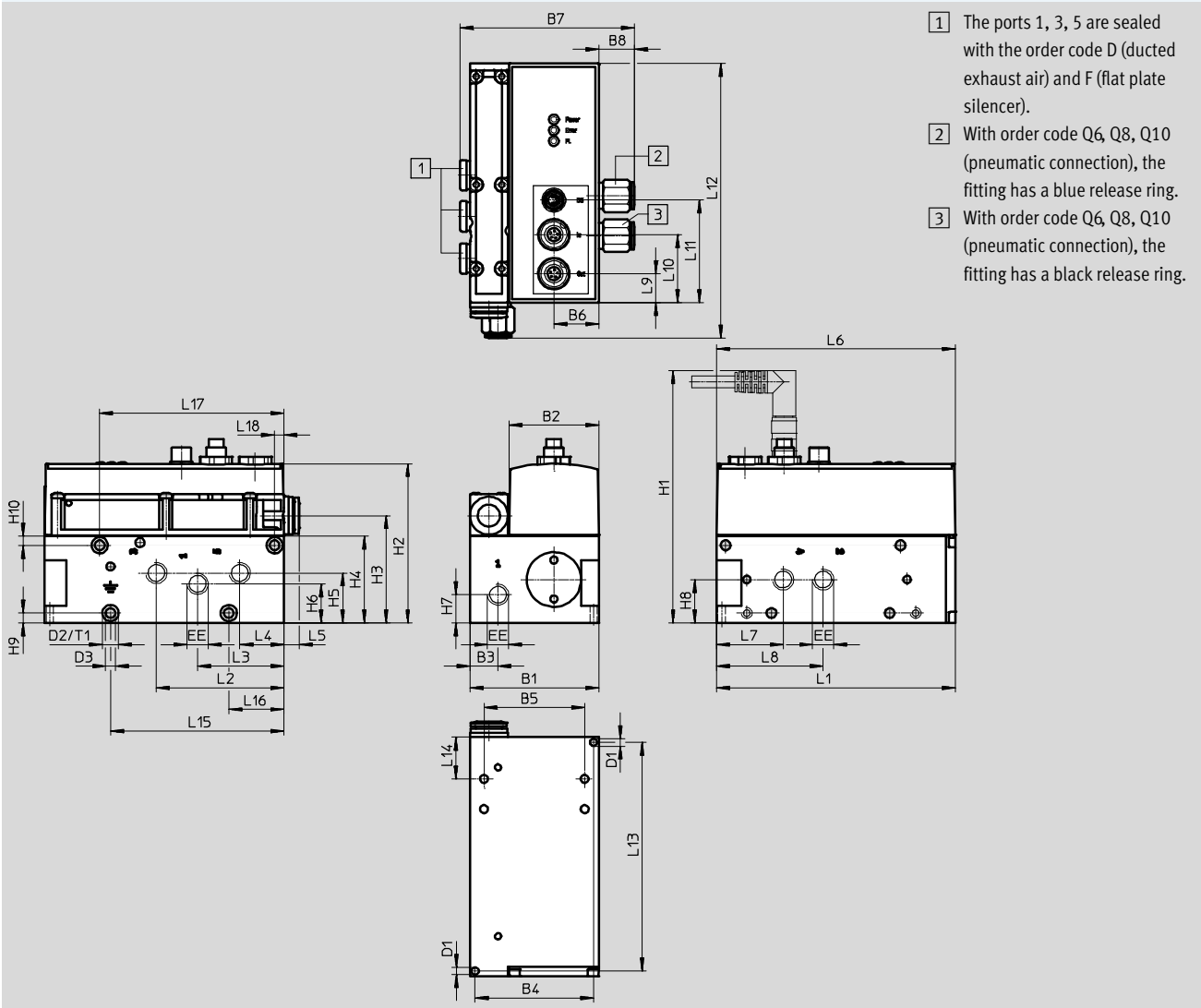
Technical data

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Dimensions

Nominal size 4, 6, 8

Download CAD data → www.festo.com



- 1 The ports 1, 3, 5 are sealed with the order code D (ducted exhaust air) and F (flat plate silencer).
- 2 With order code Q6, Q8, Q10 (pneumatic connection), the fitting has a blue release ring.
- 3 With order code Q6, Q8, Q10 (pneumatic connection), the fitting has a black release ring.

Nominal size	B1	B2	B3	B4	B5	B6	B7		B8		D1 ∅	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 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 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											122.3	67.6	45.2	22.8
8	approx. 128/124	81.5	58	48	28	22	15.5	24		5				

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

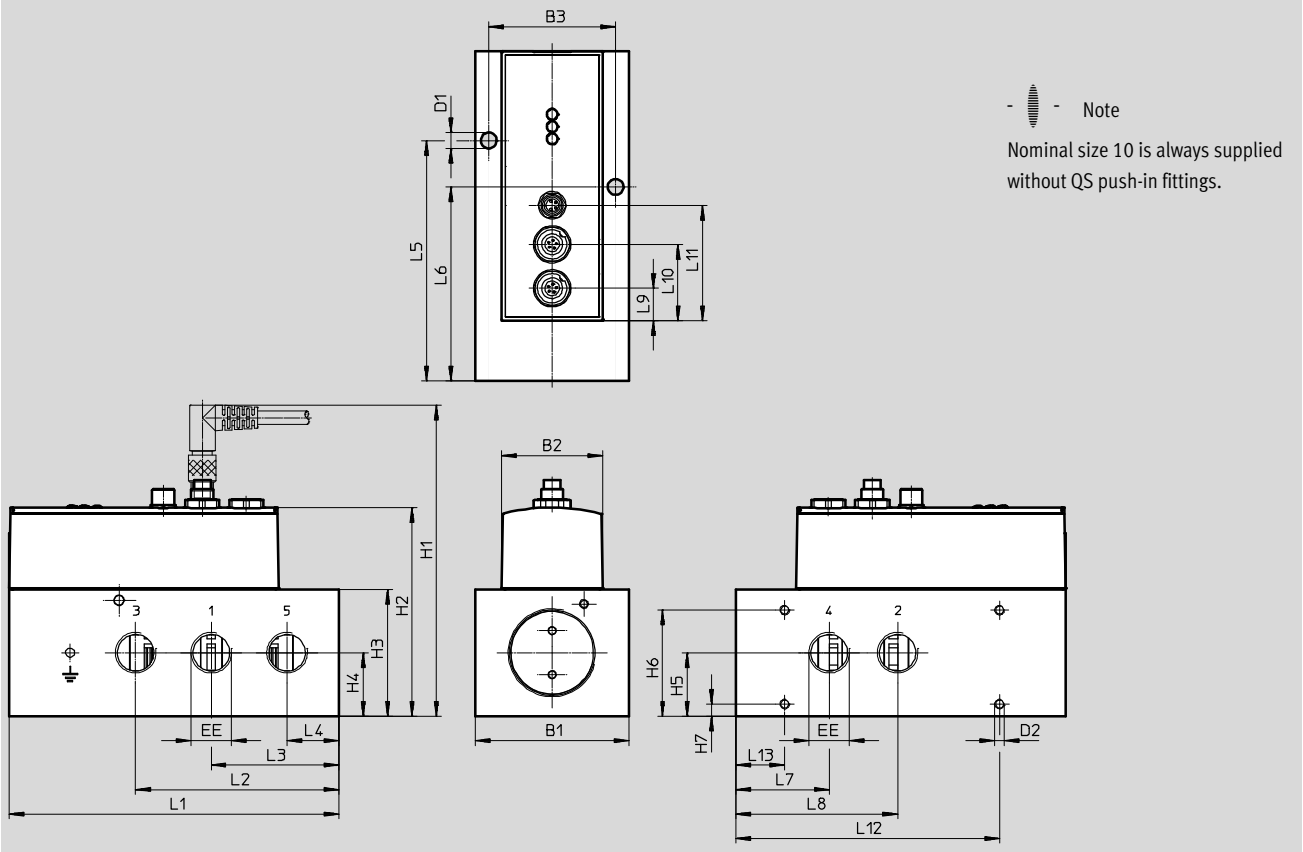
Proportional directional control valves VPWP

Technical data

Dimensions

Download CAD data → www.festo.com

Nominal size 10



Nominal size	B1	B2	B3	D1	D2	EE	H1	H2
10	63	41.5	52	6.5	M4x10	G3/8	124	82

Nominal size	H3	H4	H5	H6	H7	L1	L2	L3	L4
10	48.5	24.25	24.25	43.5	5	135	83.2	52.2	21.2

Nominal size	L5	L6	L7	L8	L9	L10	L11	L12	L13
10	98.4	79.4	38.2	66.2	13.3	31.3	47.3	108	20

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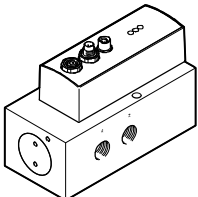
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Ordering data – Modular products

Ordering table						
Size	4	6	8	Condi- tions	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	

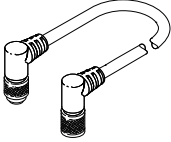
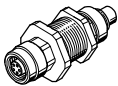
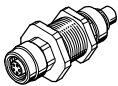
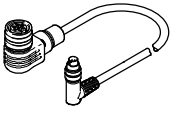
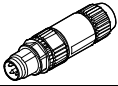
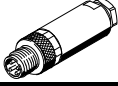
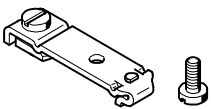
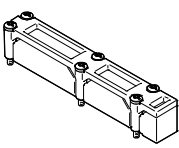
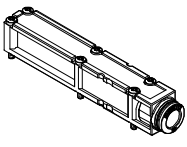
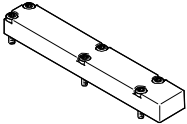
Transfer order code

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


Accessories

Ordering data – Connecting cables				
	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
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 displacement encoder MME and proportional directional control valve VPWP				
	For displacement encoder MME	2	575898	NEBP-M16W6-K-2-M9W5
Plug				
	<ul style="list-style-type: none"> Insulation displacement connector Connection of the plug socket with cable KMC to the proportional directional control valve VPWP 	–	562025	NECU-S-M8G4-HX
	<ul style="list-style-type: none"> Screw terminal Connection of the plug socket with cable KMC to the proportional directional control valve VPWP 	–	1068198	NECU-S-M8G4-C2
Ordering data – Mountings				
	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				
	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

FESTO

Ordering data – Push-in fittings			
	Nominal size	Part No.	Type
	Ports 2 and 4		
	4	186096	QS-G¹/₈-6
	4, 6	186098	QS-G¹/₈-8
	8	186101	QS-G¹/₄-10
	10	186103	QS-G³/₈-12
	Port 1		
	4, 6	186098	QS-G¹/₈-8
	8	186101	QS-G¹/₄-10
	10	186103	QS-G³/₈-12

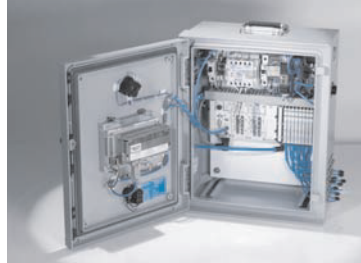
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A Complete Suite and Company Overview

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Festo North America



**1 Festo Canada
Headquarters
Festo Inc.**
5300 Explorer Drive
Mississauga, ON
L4W 5G4

2 Montréal
5600, Trans-Canada
Pointe-Claire, QC
H9R 1B6

3 Québec City
2930, rue Watt#117
Québec, QC
G1X 4G3



**4 Festo United States
Headquarters
Festo Corporation**
395 Moreland Road
Hauppauge, NY
11788

5 Appleton
North 922 Tower View Drive, Suite N
Greenville, WI
54942

7 Detroit
1441 West Long Lake Road
Troy, MI
48098

6 Chicago
85 W Algonquin - Suite 340
Arlington Heights, IL
60005

8 Silicon Valley
4935 Southfront Road, Suite F
Livermore, CA
94550

Festo Regional Contact Center

Canadian Customers

Commercial Support:
Tel: 1 877 GO FESTO (1 877 463 3786)
Fax: 1 877 FX FESTO (1 877 393 3786)
Email: festo.canada@ca.festo.com

Technical Support:
Tel: 1 866 GO FESTO (1 866 463 3786)
Fax: 1 877 FX FESTO (1 877 393 3786)
Email: technical.support@ca.festo.com

USA Customers

Commercial Support:
Tel: 1 800 99 FESTO (1 800 993 3786)
Fax: 1 800 96 FESTO (1 800 963 3786)
Email: customer.service@us.festo.com

Technical Support:
Tel: 1 866 GO FESTO (1 866 463 3786)
Fax: 1 800 96 FESTO (1 800 963 3786)
Email: product.support@us.festo.com