

Valve terminals CPV, Compact Performance

FESTO

Technical data

-  - Flow rate up to
CPV10: 400 l/min
CPV14: 800 l/min
CPV18: 1600 l/min

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

-  - Voltage
24 V DC



General technical data				
		CPV10	CPV14	CPV18
Design		Electromagnetically actuated piston spool valve		
Lubrication		Life-time lubrication, PWIS-free (free of paint-wetting impairment substances)		
Type of mounting		Via pneumatic multiple connector plate		
		Via backwall		
		On H-rail		
Mounting position		Any		
Lap		Overlap		
Manual override		Non-detenting/detenting/blocked		
Width	[mm]	10	14	18
Nominal size	[mm]	4	6	8
Nominal flow rate without fitting	[l/min]	400	800	1600 1400 ³⁾
b value		0.4	0.42 0.37 ²⁾	0.38 0.41 ²⁾ 0.40 ³⁾
c value	[l/sbar]	1.6	3.2	6.3 5.66 ³⁾
Pneumatic connections ¹⁾				
Pneumatic connection		Via end plate or pneumatic multiple connector plate		
Supply port	1/11	G1/8	G1/4	G3/8
Exhaust port	3/5	G3/8 (G1/4)	G1/2 (G3/8)	G1/2
Working ports	2/4	M7	G1/8	G1/4
Pilot air supply port	12/14	M5 (M7)	G1/4	G1/4
Pilot exhaust air port	82/84	M5 (M7)	G1/8	G1/4

1) Connection dimensions in brackets for pneumatic multiple connector plate

2) Values for 2x 2/2-way valve

3) Values for 5/3-way valve with mechanical spring return

Safety characteristics				
		CPV10	CPV14	CPV18
Proven component		Yes		
Max. positive test pulse with 0 signal	[μs]	1400	1400	1900
Max. negative test pulse with 1 signal	[μs]	700	400	1700
Shock resistance		Shock test with severity level 2, to EN 60068-2-27		
Vibration resistance		Transport application test with severity level 2, to EN 60068-2-6		