

Series E valves and solenoid valves

5/2-way monostable/bistable - 5/3 CC, CO, CP With outlets on the body - For individual or manifold assembly Size 10,5 mm



Series E valves have been designed to allow high flows with small overall dimensions. These valves are manufactured in three different sizes and are suitable for individual use or for mounting on manifolds. The manifolds allow a common inlet as well as the two exhausts and the pilot exhaust in common.

GENERAL DATA

Construction spool-type Valve functions 5/2, 5/3 CC CO CP Materials zamak body, aluminium spool and sub-bases; technopolymer end-covers, joints NBR Ports valve = M5; manifold = M5 - tube Ø4; sub-base = G1/8 Temperature 0°C min + 50°C max Fluid filtered air (5 µm or lower), without lubricant; if lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should never be interrupted. Solenoid voltage see coding Voltage tolerance ±10% Power consumption Class of insulation class F Protection class



CODING EXAMPLE

SERIES Ε

FUNCTION: 5

5 = 5/2 6 = 5/3 Centres Closed 7 = 5/3 Centres Open 8 = 5/3 Centres in Pressure

SIZE: 2

2 = 10,5 mm

BODY TYPE: 1 = body with threaded plate 1

ACTUATION: 11

11 = electro-pneumatic, bistable 16 = electro-pneumatic, monostable 33 = pneumatic bistable - tube 3

36 = pneumatic monostable - tube 4 C33 = pneumatic bistable - tube 4

C36 = pneumatic monostable - tube 4

INTERFACE: 10

TYPE OF SOLENOID:

K

SOLENOID DIMENSION: 1 = 10x10 1

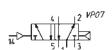
SOLENOID VOLTAGE: 1 = 6V DC 2 = 12V DC 3 = 24V DC 3

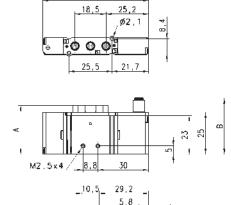
Pneumatically actuated valve, monostable - size 10,5

5/2-way



Note: the pilot pressure should never be lower than the operating pressure.





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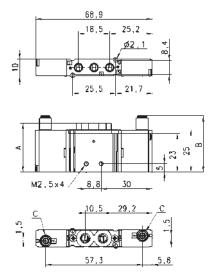
Mod.	Α	В	С	Ports 1-3-5	Ports 2-4	Min pilot pressure (bar)	Working pressure (bar)	Flow rate (Nl/min)
E521-36	29	33,4	Ø3	M5	M5	2,5	2,5 ÷ 7	200
E521-C36	29	39,1	Ø 4	M5	M5	2,5	2,5 ÷ 7	200

Pneumatically actuated valve, bistable - size 10,5

5/2-way







Mod.	А	В	С	Ports 1-3-5	Ports 2-4	Min pilot pressure (bar)	Working pressure (bar)	Flow rate (Nl/min)
E521-33	29	33,4	Ø 3	M5	M5	1	-09 ÷ 7	200
F521-C33	29	39 1	ØΔ	M5	M5	1	-09 ÷ 7	200

Pneumatically actuated valve - size 10,5

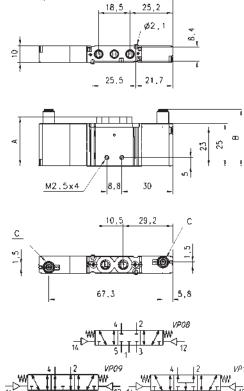
5/3-way

CC = Centres closed

CO = Centres open

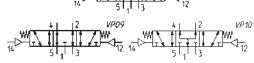
CP = Pressure centres





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Mod.	Α	В	С	Ports 1-3-5	Ports 2-4	Min pilot pressure (bar)	Working pressure (bar)	Flow rate NL/min	Symbol
E621-33	29	33.4	Ø3	M5	M5	2	-0.9 ÷ 7	200	VP08
E621-C33	29	39.1	Ø4	M5	M5	2	-0.9 ÷ 7	200	VP08
E721-33	29	33.4	Ø3	M5	M5	2	-0.9 ÷ 7	200	VP09
E721-C33	29	39.1	Ø 4	M5	М5	2	-0.9 ÷ 7	200	VP09
E821-33	29	33.4	Ø3	M5	M5	2	-0.9 ÷ 7	200	VP10
E821-C33	29	39.1	Ø 4	M5	М5	2	-0.9 ÷ 7	200	VP10



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SERIES: Ε

FUNCTION: 5

5 = 5/2 6 = 5/3 Centres Closed 7 = 5/3 Centres Open 8 = 5/3 Centres in Pressure

SIZE: 2 2 = 10,5 mm

11

BODY TYPE: 0 = body for sub-base 0

ACTUATION:

11 = electropneumatic bistable 16 = electropneumatic monostable 33 = pneumatic bistable - tube Ø 3

36 = pneumatic monostable - tube Ø 3 C33 = pneumatic bistable - tube Ø 4

C36 = pneumatic monostable - tube Ø 4

INTERFACE: 10

TYPE OF SOLENOID: K

SOLENOID DIMENSIONS: 1 = 10x10 1

3

SOLENOID VOLTAGE: 1 = 6V DC 2 = 12V DC 3 = 24V DC

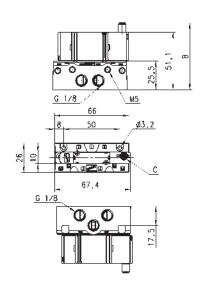
Pneumatically actuated valve, monostable - size 10,5



5/2-way

The single base is ordered separately from the valve. The pilot pressure should never be lower than the operating pressure.





DIMENSIONS					
Mod.	В	С	min. pil P. (bar)	working P. bar	Flow rate (Nl/min)
E520-36	59,5	Ø3	2,5	2,5 ÷ 7	280
E520-C36	65,2	Ø4	2,5	2,5 ÷ 7	280

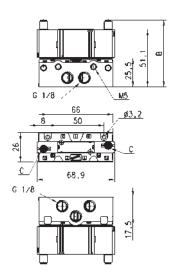
Pneumatically actuated valve, bistable - size 10,5

5/2-way



The single base is ordered separately from the valve.





DIMENSIONS					
Mod.	В	С	min. pil P. (bar)	working P. (bar)	Flow rate (Nl/min)
E520-33	59,5	Ø3	1	-0,9 ÷ 7	280
E520-C33	65.2	Ø4	1	-0.9 ÷ 7	280

Pneumatically actuated valve - size 10,5



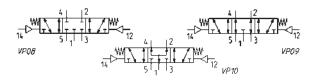
5/3-way

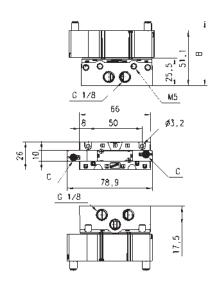
CC = Centres Closed

CO = Centres Open

CP = Centres in Pressure

The single base is ordered separately from the valve.





DIMENSIONS						
Mod.	В	С	min. pil P. (bar)	working P. (bar)	Flow rate (Nl/min)	Symbol
E620-33	59,5	Ø3	2	-0,9 ÷ 7	280	VP08
E620-C33	65,5	Ø4	2	-0,9 ÷ 7	280	VP08
E720-33	59,5	Ø3	2	-0,9 ÷ 7	280	VP09
E720-C33	65,5	Ø4	2	-0,9 ÷ 7	280	VP09
E820-33	59,5	Ø3	2	-0;9 ÷ 7	280	VP10
E820-C33	65,5	Ø4	2	-0,9 ÷ 7	280	VP10



Torque for securing screws on manifolds and single sub-base

Mod.	Size (mm)	Torque (Nm)
E52	10,5	0,3 ÷ 0,35

CODING EXAMPLE

	E5	2 1) (-	1	0	02
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E5	SERIES
2	SIZE: 2 = size 10,5
1	BODY TYPE: 0 = body for sub-base assembly 1 = body with threads or tube port
1	TYPE OF SUB-BASE: 0 = single sub-base with side outlets 1 = manifold for threaded valve 2 = manifold for body mounted valve
0	PORTS: 0 = for valves with outlets on the body 1 = threaded C = tube 4
02	N° OF POSITIONS: 01 = single 03, 04, 06, 08, 10, 12 = multiple

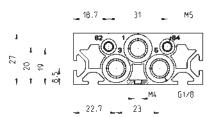
NOTE: When constructing manifolds with 10 or more stations, it is recommended, in order to reduce the risk of pressure drop within the assembly, that pressure is supplied to port 1 at each end of the block. The exhaust ports 3 and 5 at each end should also be utilized (size 10,5 and 16 mm). The same provision should be made for 5 station manifolds of the 19 mm valves. Manifolds complete with ports for external pilot supply are available on request.

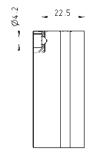


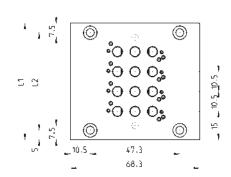
Manifolds for valves with outlets on the body Size 10,5



The manifolds have been manufactured with common inlet and exhausts 3 and 5. There are also common exhausts for pilots 82 and 84.







Note: the manifolds are supplied complete with the seals and the valves, fixing screws.

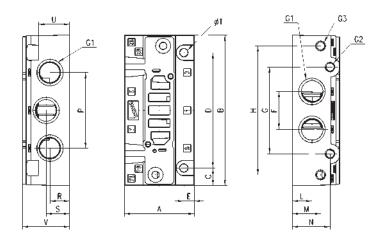
DIMENSIONS													
Mod.	Size	Nr positions	02	03	04	05	06	07	08	09	10	11	12
E521-10	10.5	L1	40.5	51	61.5	72	82.5	93	103.5	114	124.5	135	145.5
E521-10	10.5	L2	30.5	41	51.5	62	72.5	83	93.5	104	114.5	125	135.5

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Single sub-base for base mounted valves - size 10,5



Note: The valve and its single sub-base are available on request.



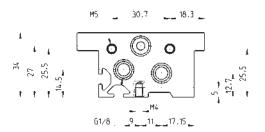
DIMENSIONS	;																				
Mod.	Size	G1	G2	G3	Α	В	С	D	Е	F	G	Н	L	М	N	Р	R	S	T	U	V
E520-0101	10,5	G1/8	M5	M5	26	66	8	50	4	15	37,3	57,3	8,2	17	18	24,5	8,2	17,2	32	17,5	25,5

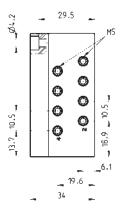


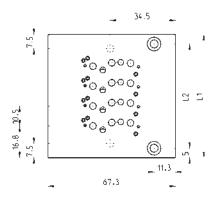
Manifolds for base mounted valves size 10,5



The manifolds have been manufactured with common inlet 1 and exhaust 3 and 5. There are also common exhausts for pilots 82 and 84.







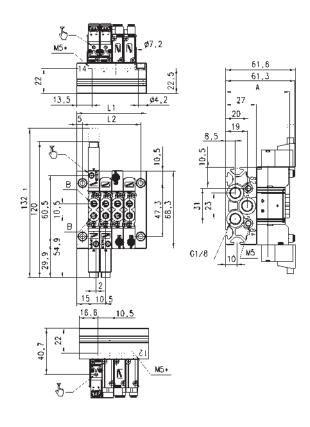
DIMENSIONS													
Mod.	Size	Nr positions	02	03	04	05	06	07	80	09	10	11	12
E520-21	10.5	L1	44	54.5	65	75.5	86	96.5	107	117.5	128	138.5	149
E520-21	10.5	L2	34	44.5	55	65.5	76	86.5	97	107.5	118	128.5	139
E520-2C	10.5	L1	44	54.5	65	75.5	86	96.5	107	117.5	128	138.5	149
E520-2C	10.5	L2	34	44.5	55	65.5	76	86.5	97	107.5	118	128.5	139

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Manifolds with valves with outlets on the body - size 10.5

5/2 and 5/3, ports M5





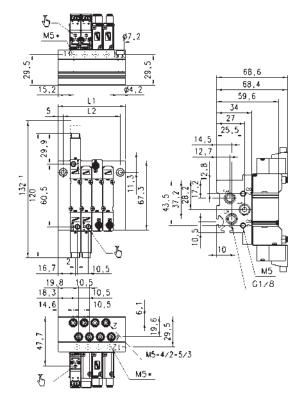
DIMENSIONS										
Mod.	А	В	L1 - L2 N° 1 Position	L1 - L2 N° 2 Positions	Fixed quote for position					
E521	56,6	M5	40,5 - 30,5	51 - 41	10,5					
E52C	65.1	4/2	40.5 - 30.5	51 - 41	10.5					

Size referred to 5/3 valve M5* Separate pilot supply on request.

Manifolds with valves for subbase - size 10.5

5/2 and 5/3





DIMENSION	DIMENSIONS										
N° Positions	2	3	4	5	6	7	8	9	10	11	12
L1	44	54,5	65	75,5	86	96,5	107	117,5	128	138,5	149
L2	34	44,5	55	65,5	76	86,5	97	107,5	118	128,5	139

(1) Size referred to 5/3 valve M5* Separate pilot supply on request.

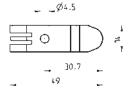
Mounting brackets for DIN rail



DIN EN 50022 (7,5mm x 35mm - width 1) Suitable for all manifolds.

Supplied with: 2x plates 2x screws M4x6 UNI 5931



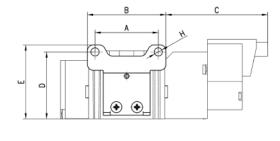


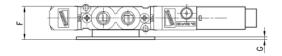
Mod.

Horizontal mounting foot bracket for valves with outlets on the body



The following is supplied: 1x foot bracket 2x screws.



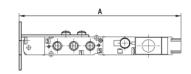


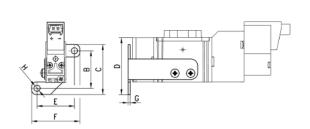
DIMENSIONS										
Mod.	Size	Α	В	С	D	Е	F	G	Н	
B1-E521	10,5	27	33,5	43,4	28,5	31,5	14,2	1,2	3,5	

Vertical mounting foot bracket for valves with outlets on the body



The following is supplied: 1x foot bracket 2x screws Monostable valves only.





DIMENSION	NS								
Mod.	Size	Α	В	С	D	E	F	G	Н
B2-E521	10,5	90,8	21	28	31,9	21	27	1,2	3.5

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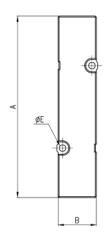
Blanking plate for manifolds - valves with outlets on the body

The following is supplied: 1x blanking plate



1x seal.







DIMENSIONS	5				
Mod.	Size	Α	В	D	_ø E
TP-E521	10,5	66	10	3,5	2,1

Blanking plate for manifolds - base mounted valves

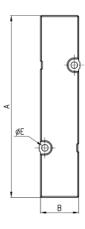
The following is supplied:

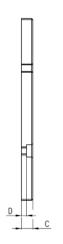
1x blanking plate

2x screws

1x seal.







DIMENSION	S					
Mod.	Size	Α	В	С	D	øΕ
TP-E520	10.5	66	10	6	3.5	2.1

Intermediate plate for valves to provide a separate supply in 1

Base mounted valves. The following is supplied:

1x plate

2x screws

1x interface seal

2x O-Ring.

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DIMENSIONS						
Mod.	Size	А	В	С	D	E
PCP-E521	10.5	72.5	10	10	5	M5

Intermediate plate for valves to provide a separate supply in 1



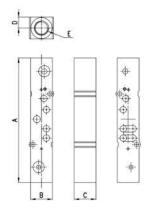
Base mounted valves. The following is supplied:

1x plate

2x screws

1x interface seal

2x OR.



DIMENSIONS						
Mod.	Size	Α	В	С	D	E
PCP-E520	10,5	72,5	10	10	5	M5

Intermediate plate for valves to provide separate supply in 3 and 5



Kits for valves with outlets on the body

Mod. E2*1-**.

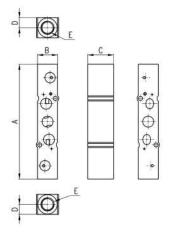
The following is supplied:

1x plate

2x screws

1x interface seal

2x OR.



DIMENSIONS						
Mod.	Size	Α	В	С	D	E
PCS-E521	10,5	76	10	10	5	M5

Intermediate plate for valves to provide separate supply in 3 and 5



Kits for valves mounted on sub-base Mod. E2*0-**.

The following is supplied:

1x plate

2x screws

1x interface seal

2x OR.

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DIMENSIONS						
Mod.	Size	Α	В	С	D	E
PCS-E520	10,5	76	10	10	5	M5