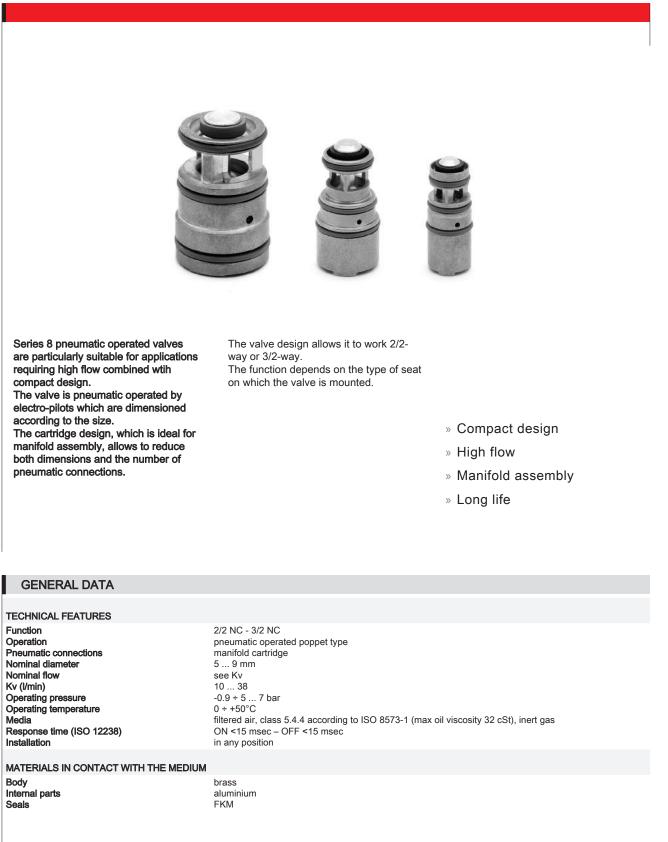
## New

# Series 8 pneumatic operated cartridge valves

2/2-way - 3/2-way, Normally Closed (NC)



2

CONTROL > Series 8 cartridge valves

COD	DING EXAMPLE
8	10 C5 1 00 - F1 3 2
8	SERIES
10	SIZE: 10 = Size 1 20 = Size 2 30 = Size 3
C5	BODY DESIGN: C5 = cartridge
1	NUMBER OF WAYS - FUNCTIONS: 1 = 2/2-way NC or 3/2-way NC NOTE: The function depends on the seat used (for further details see the following pages)
00	PNEUMATIC CONNECTIONS: 00 = cartridge
F1	NOMINAL DIAMETER: F1 = Ø 5.0 mm (size 1 only) G7 = Ø 6.6 mm (size 2 only) K1 = Ø 9.0 mm (size 3 only)
3	SEAL MATERIAL: 3 = FKM
2	BODY MATERIAL: 2 = brass

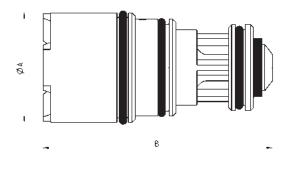
# CONTROL

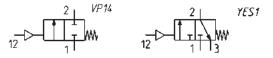
2

#### Pneumatic cartridge valve 2/2-way and 3/2-way NC



For 2/2-way (pneumatic symbol VP14) or 3/2-way (pneumatic symbol YES1) function, see the seat dimensioning in the next pages.

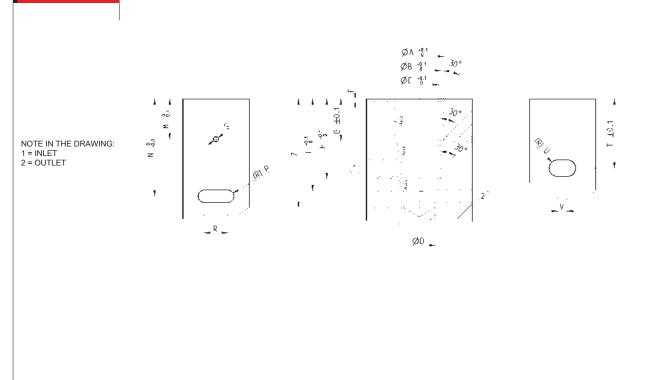




Mod.	ØA	В	Nominal diameter Ø (mm)	Kv (l/min)	Min/max pressure (bar)	Min/max pilot pressure (bar)
810C5100-F132	10	26.7	5.0	10	-0.9 ÷ 7	2 ÷ 7
820C5100-G732	14.5	30.3	6.6	19	-0.9 ÷ 7	2 ÷ 7
830C5100-K132	22	34.8	9.0	38	-0.9 ÷ 7	2 ÷ 7

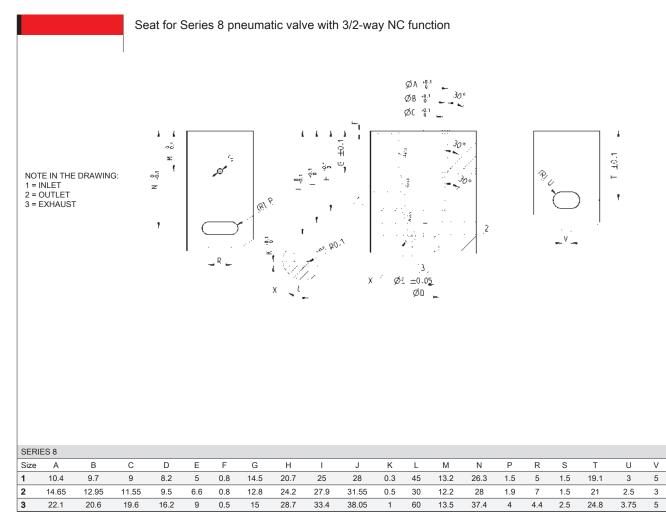


CONTROL > Series 8 cartridge valves



SERIES 8	

SERIES 0																	
Size A	A	В	С	D	F	G	Н	I	М	Ν	Р	R	S	Т	U	V	Z
<b>1</b> 10	0.4	9.7	9	8.2	0.8	14.5	20.7	25	13.2	26.3	1.5	5	1.5	19.1	3	5	30
<b>2</b> 14	.65	12.95	11.55	9.5	0.8	12.8	24.2	27.9	12.2	28	1.9	7	1.5	21	2.5	3	33
<b>3</b> 22	2.1	20.6	19.6	16.2	0.5	15	28.7	33.4	13.5	37.4	4	4.4	2.5	24.8	3.75	5	41



2

# 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.

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	1W
Class of insulation	class F
Protection class	IP50



CONTROL

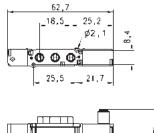
COL	DING EXAMPLE
E	5 2 1 - 11 - 10 - K 1 3
Ε	SERIES
5	FUNCTION: 5 = 5/2 6 = 5/3 Centres Closed 7 = 5/3 Centres Open 8 = 5/3 Centres in Pressure
2	SIZE: 2 = 10,5 mm
1	BODY TYPE: 1 = body with threaded plate
11	ACTUATION: 11 = electro-pneumatic, bistable 16 = electro-pneumatic, monostable 33 = pneumatic bistable - tube 3 36 = pneumatic monostable - tube 4 C36 = pneumatic monostable - tube 4
10	INTERFACE: 10
Κ	TYPE OF SOLENOID: K
1	SOLENOID DIMENSION: 1 = 10x10
3	SOLENOID VOLTAGE: 1 = 6V DC 2 = 12V DC 3 = 24V DC

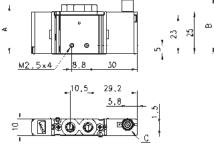


Pneumatically actuated valve, monostable - size 10,5

5/2-way

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





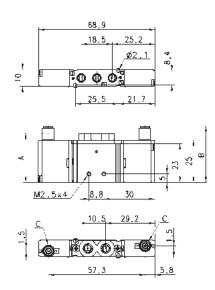
DIMENSIONS	DIMENSIONS												
Mod.	А	В	С	Ports 1-3-5	Ports 2-4	min. pil P. (bar)	working P. (bar)	Flow rate (NI/min)					
E521-36	29	33,4	Ø 3	M5	M5	2,5	2,5 ÷ 7	200					
E521-C36	29	39,1	Ø 4	M5	M5	2,5	2,5 ÷ 7	200					

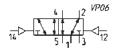
CONTROL

### Pneumatically actuated valve, bistable - size 10,5

5/2-way





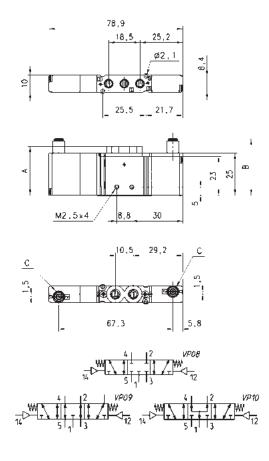


DIMENSIONS								
Mod.	А	В	С	Ports 1-3-5	Ports 2-4	min. pil P. (bar)	working P. (bar)	Flow rate (NI/min)
E521-33	29	33,4	Ø 3	M5	M5	1	-09 ÷ 7	200
E521-C33	29	39,1	Ø 4	M5	M5	1	-09 ÷ 7	200



#### Pneumatically actuated valve - size 10,5

5/3-way CC = Centres closed CO = Centres open CP = Pressure centres

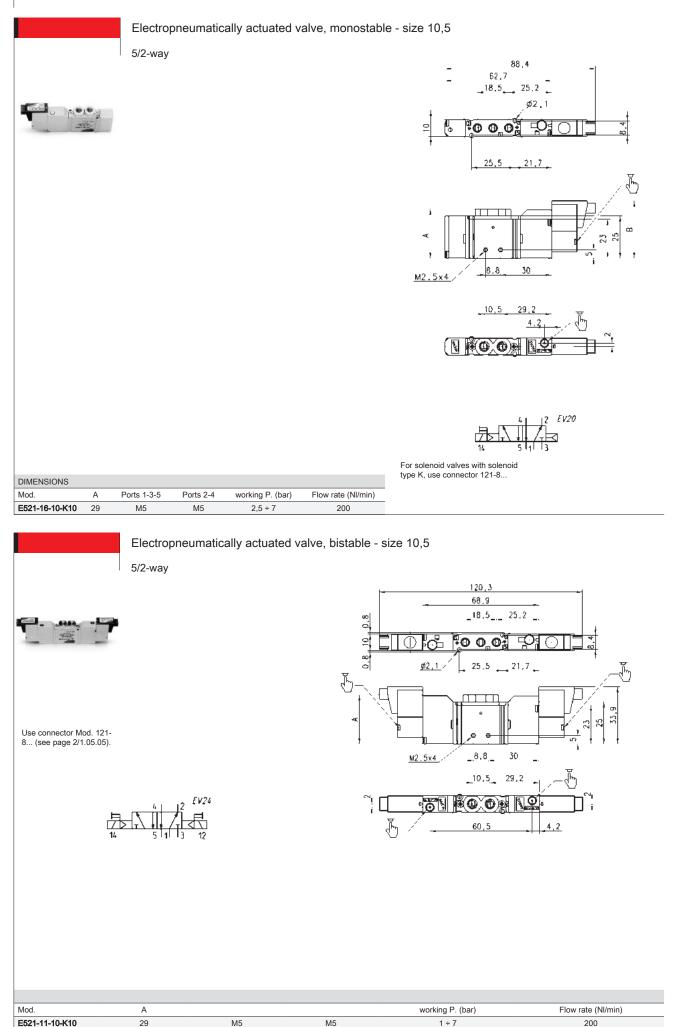


DIMENSIC	NS								
Mod.	А	В	С	Ports 1-3-5	Ports 2-4 r	nin. pil P. (ba	r) working P. (bar) Fl	ow rate NL/m	nin Symbol
E621-33	29	33,4	Ø 3	M5	M5	1	-0,9 ÷ 7	200	VP08
E621-C33	29	39,1	Ø 4	M5	M5	1	-0,9 ÷ 7	200	VP08
E721-33	29	33,4	Ø 3	M5	M5	1	-0,9 ÷ 7	200	VP09
E721-C33	29	39,1	Ø 4	M5	M5	1	-0,9 ÷ 7	200	VP09
E821-33	29	33,4	Ø3	M5	M5	1	-0,9 ÷ 7	200	VP10
E821-C33	29	39,1	Ø 4	M5	M5	1	-0,9 ÷ 7	200	VP10

Products designed for industrial a	pplications.
General terms and conditions for sale are available on www.ca	mozzi.com.



CONTROL



29

M5

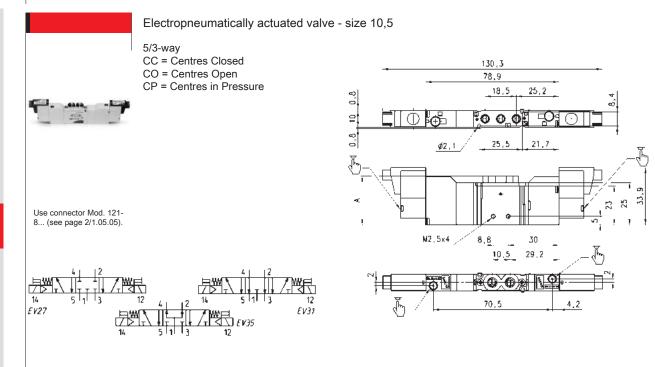
M5

1 ÷ 7

200



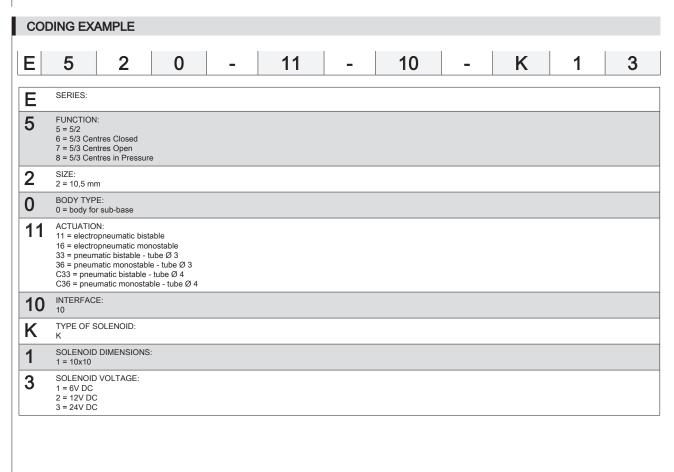
CONTROL

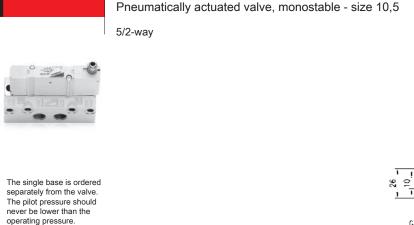


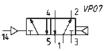
Mod.	A	Ports 1-3-5	Ports 2-4	working P. (bar)	Flow rate (NI/min)	Symbol
E621-11-10-K10	29	M5	M5	2 ÷ 7	200	EV27
E721-11-10-K10	29	M5	M5	2 ÷ 7	200	EV31
E821-11-10-k10	29	M5	M5	2 ÷ 7	200	EV35

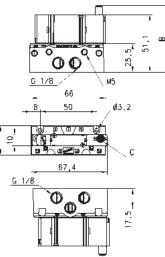


CONTROL









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

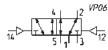


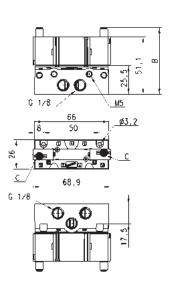
#### Pneumatically actuated valve, bistable - size 10,5

#### 5/2-way



The single base is ordered separately from the valve.





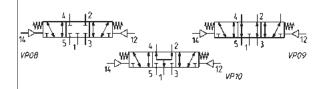
DIMENSIONS					
Mod.	В	С	min. pil P. (bar)	working P. (bar)	Flow rate (NI/min)
E520-33	59,5	Ø3	1	-0,9 ÷ 7	280
E520-C33	65,2	Ø4	1	-0,9 ÷ 7	280

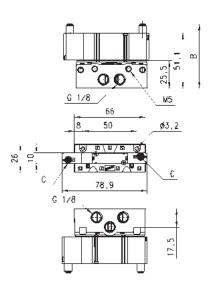


#### Pneumatically actuated valve - size 10,5

5/3-way CC = Centres Closed CO = Centres Open CP = Centres in Pressure

The single base is ordered separately from the valve.



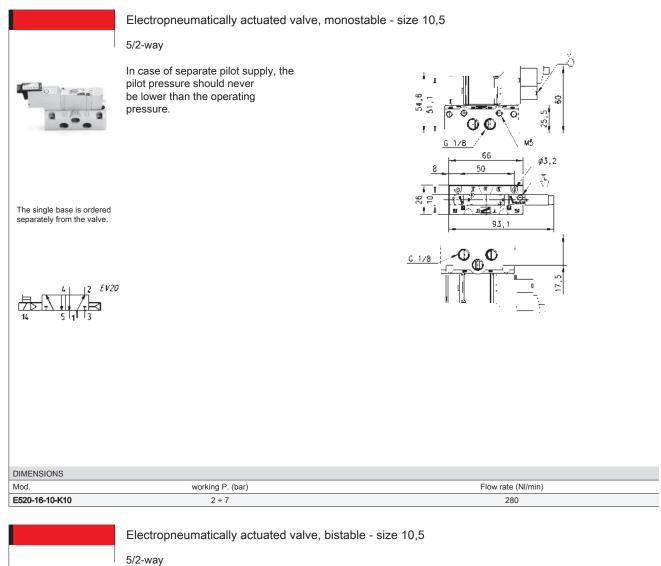


DIMENSIONS						
Mod.	В	С	min. pil P. (bar)	working P. (bar)	Flow rate (NI/min)	Symbol
E620-33	59,5	Ø3	2	-0,9 ÷ 7	280	VP08
E620-C33	65,5	Ø4	2	-0,9 ÷ 7	280	VP08
E720-33	59,5	Ø3	2	-0,9 ÷ 7	280	VP09
E720-C33	65,5	Ø4	2	-0,9 ÷ 7	280	VP09
E820-33	59,5	Ø3	2	-0;9 ÷ 7	280	VP10
E820-C33	65,5	Ø4	2	-0,9 ÷ 7	280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

CATALOGUE > Release 8.7



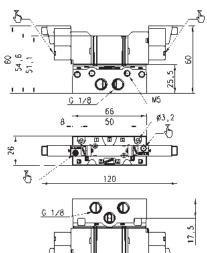
CONTROL





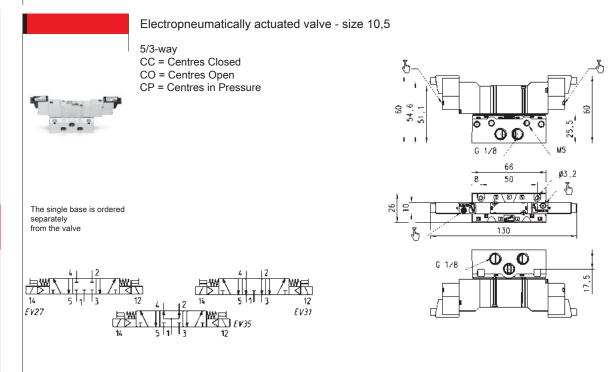
The single base is ordered separately from the valve.





Mod.	working P. bar	Flow rate NI/min
E520-11-10-K10	2 ÷ 7	280





Mod.	working P. bar	Flow rate NI/min	Symbol
E620-11-10-K10	2 ÷ 7	280	EV27
E720-11-10-K10	2 ÷ 7	280	EV31
E820-11-10-K10	2 ÷ 7	280	EV35

2

CONTROL

#### Torque for securing screws on manifolds and single sub-base

M	od.	Size (mm)	Torque (Nm)
E	52	10,5	0,3 ÷ 0,35

COD	ING EXAMPLE	CODING EXAMPLE													
E5	2	1		-		1		0	02						
E5	SERIES														
2	SIZE: 2 = size 10,5														
1	BODY TYPE: 0 = body for sub-base asse 1 = body with threads or tu														
1	TYPE OF SUB-BASE: 0 = single sub-base with si 1 = manifold for threaded v 2 = manifold for body mour	valve													
0	PORTS: 0 = for valves with outlets of 1 = threaded C = tube 4	on the body													
02	N° OF POSITIONS: 01 = single 03, 04, 06, 08, 10, 12 = mu	ultiple													

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.

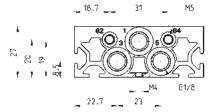


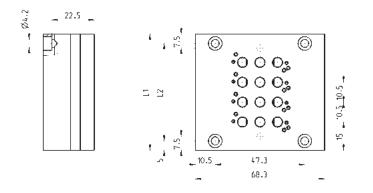
### Manifolds for valves with outlets on the body Size 10,5



common inlet and exhausts 3 and 5 (size G1). There are also common exhausts for pilots 82 and 84 (size G2). Manifolds with G3 ports are also supplied on request for external pilot supply.

The manifolds have been manufactured with





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

DIMENSIONS

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



CONTROL

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

Note: The v its single su available or	ıb-base a	re							<u>G1</u>					I			-	3G2			
DIMENSION	IS																				
Mod.	Size	G1	G2	G3	А	В	С	D	Е	F	G	Н	L	М	Ν	Р	R	S	Т	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



common inlet 1 and exhaust 3 and 5 (see size G2). There are also common exhausts for pilots 82 and 84 (size G3). Manifolds with G4 ports are also supplied on request for external pilot supply.

The manifolds have been manufactured with

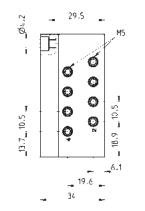
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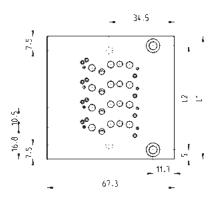
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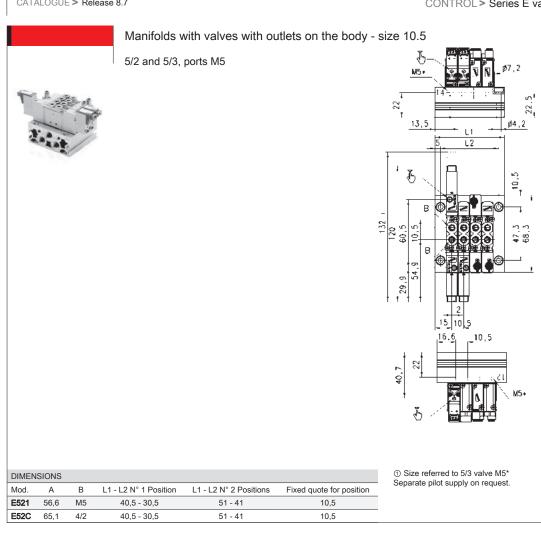


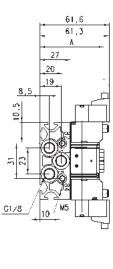


DIMENSIONS

DIVIENSION	0												
Mod.	Size	Nr positions	02	03	04	05	06	07	08	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







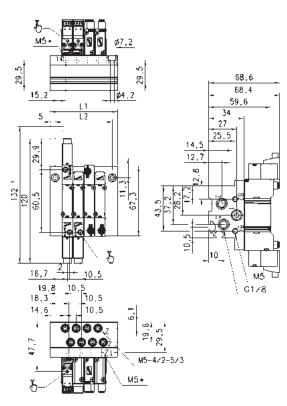
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CONTROL

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Manifolds with valves for subbase - size 10.5

5/2 and 5/3

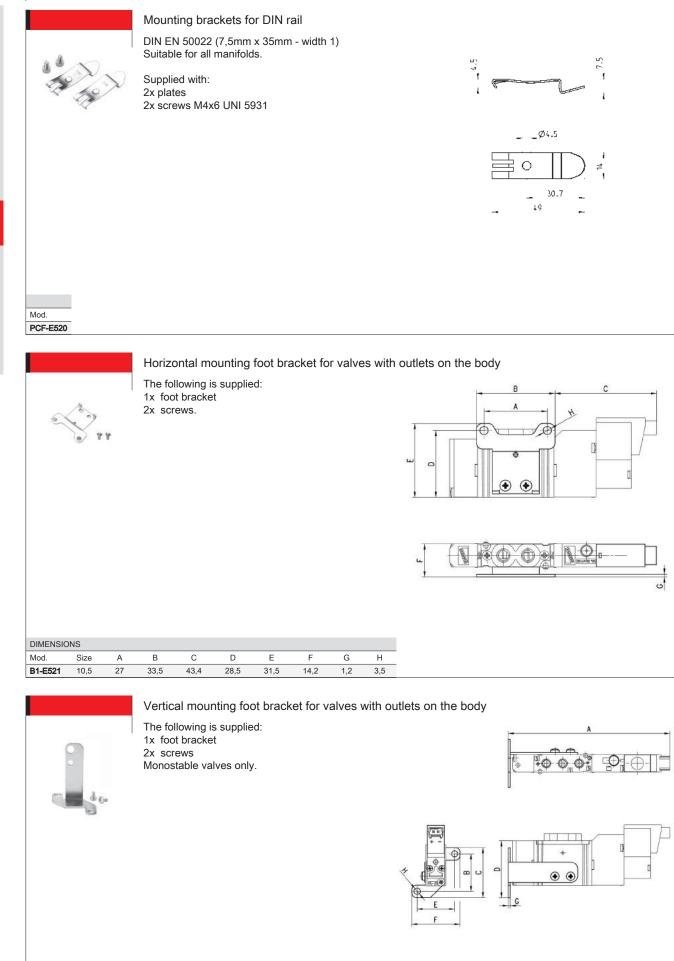


DIMENSION	DIMENSIONS												
N° Positions	2	3	4	5	6	7	8	9	10	11	12		
L1	44	54,5	65	75,5	86	96,5	107	117,5	128	138,5	149		
L2	34	44,5	55	65,5	76	86,5	97	107,5	118	128,5	139		

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



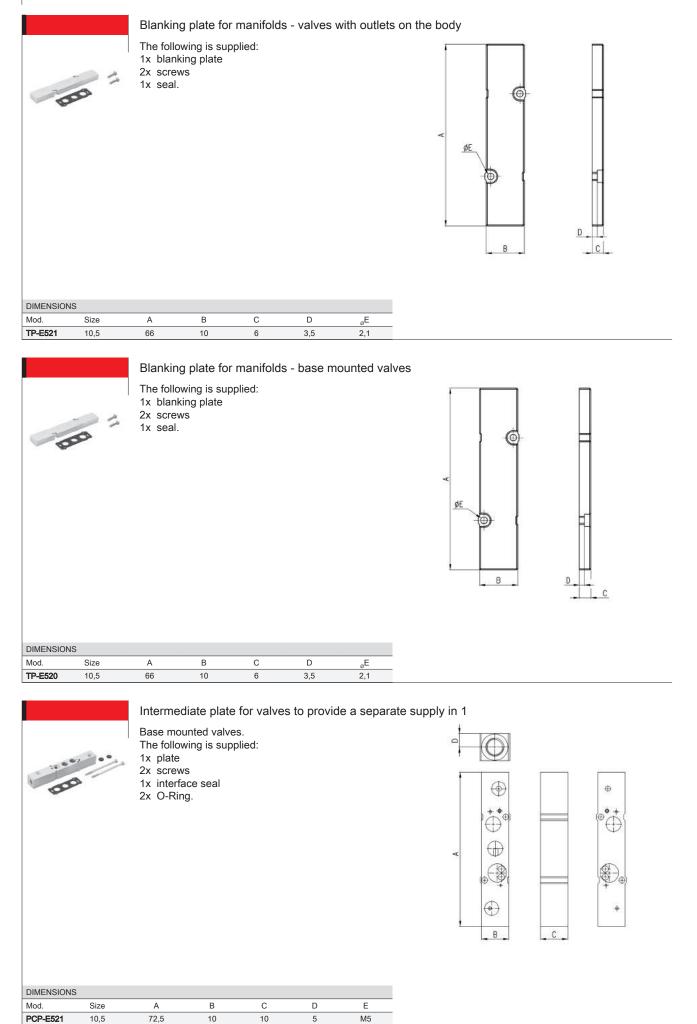
CONTROL



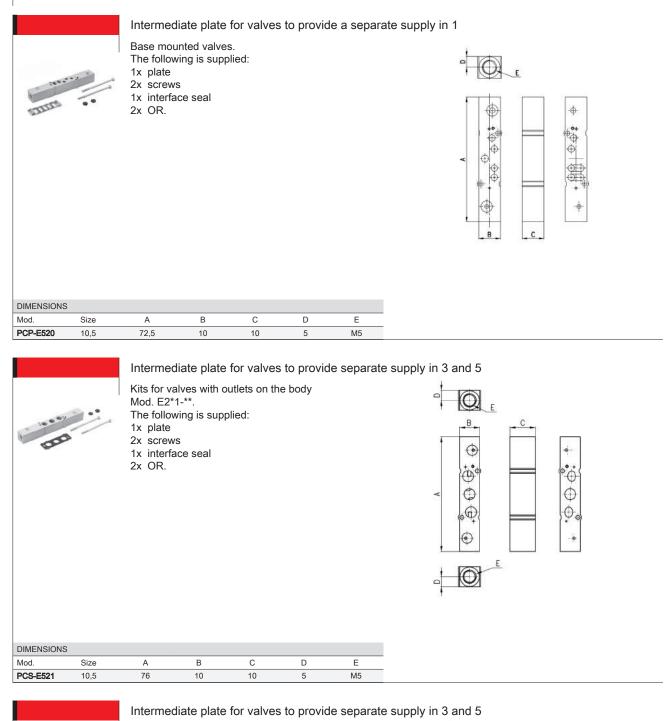
DIMENSIONS									
Mod.	Size	А	В	С	D	E	F	G	Н
B2-E521	10,5	90,8	21	28	31,9	21	27	1,2	3.5



CONTROL

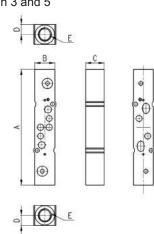








Kits for valves mounted on sub-base Mod. E2*0-**. The following is supplied: 1x plate 2x screws 1x interface seal 2x OR.



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

Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com.

CONTROL



## Series EN valves and solenoid valves

5/2-way, 5/3-way CC - CO - CP With outlets on the body - For individual or manifold assembly Size 16 - 19 mm



- » Mounting on any flat surface
- » Reduced dimensions
- » Aluminium body and endcovers in technopolymer
- » Space saving

Camozzi has developed a new series of valves to be used in applications requiring a reduced space of installation and in situations where the valves need to be located as near as possible to the operating elements. The single valves can be mounted on any flat surface, allowing compact machine design, which is also enhanced by the reduced dimensions of the valve itself. Thanks to their robust aluminium bodies, the valves Series EN offer the highest reliability.

This new generation of solenoid valves is the evolution of the previous Series E, size 16 - 19 mm valve with ports threaded into the body. As this valve is completely interchangeable with Series E, part of the code is maintained though the valve has a completely new shape and new components.

### **GENERAL DATA**

Construction	spool-type
Valve functions	5/2 - 5/3 CC - 5/3 CO - 5/3 CP
Materials	body, spool, bases = AL end-covers = tecnnopolymer joints = NBR PU
Ports	G1/8 - G1/4
Temperature	0°C min. + 50° C max
Fluid	filtered air without lubricant. If lubricated air is used, it is recommended to use ISOVG32 oil and to never interrupt lubrication.
Voltage	see coding
Voltage tolerance	± 10%
Power consumption	2W, 1W
Class of insulation	class F
Protection class	IP65 with connector DIN 40050

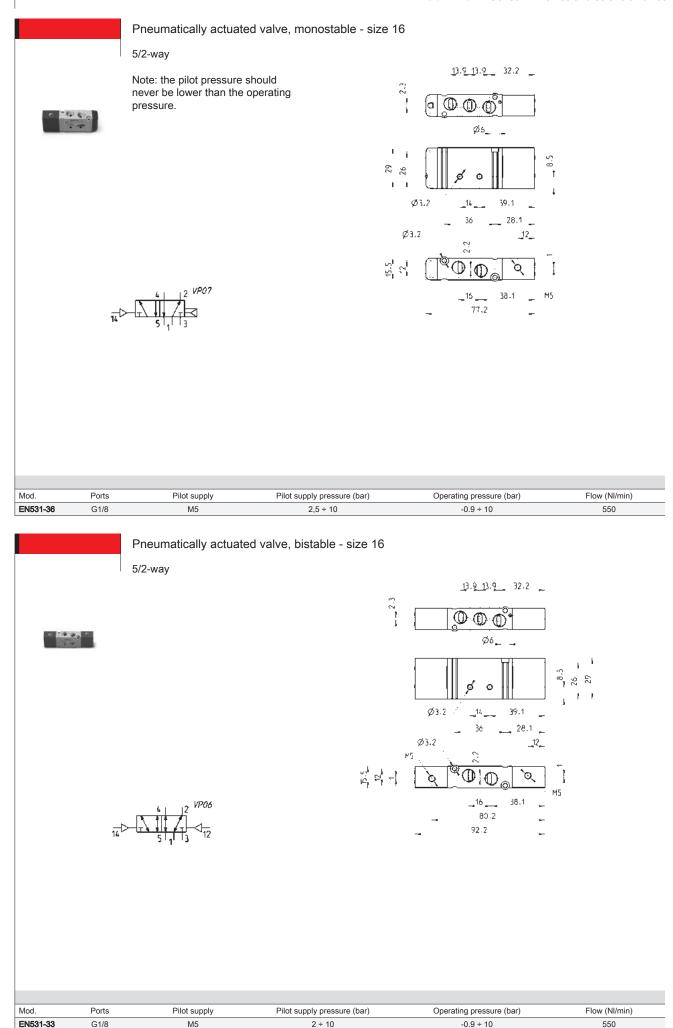
EN	5	3	1	-	11		-	PN3
EN	SERIES							
5	FUNCTION: 5 = 5/2 6 = 5/3 Centre Clo 7 = 5/3 Centre Op 8 = 5/3 Pressure 0	en						
3	SIZE: 3 = size 16 5 = size 19							
1	BODY TYPE: 1 = body with thre	aded plate						
11	ACTUATION: 11 = electro-pneumatic, bistable 16 = electro-pneumatic, monostable 33 = pneumatic bistable 36 = pneumatic monostable E11 = electro-pneumatic, bistable with external servo-pilot supply E16 = electro-pneumatic, monostable with external servo-pilot supply							
PN3								
		ions with alternate cur						

#### CATALOGUE > Release 8.7

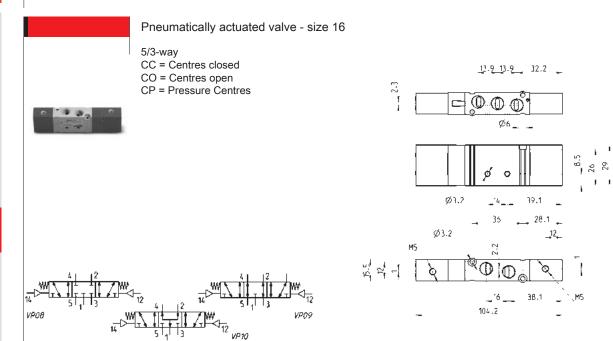


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CONTROL



CONTROL



Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)	Symbol
EN631-33	G1/8	M5	3 ÷ 10	-0.9 ÷ 10	550	VP08
EN731-33	G1/8	M5	3 ÷ 10	-0.9 ÷ 10	550	VP09
EN831-33	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	550	VP10

<b>F</b> (0
5/2-wa
Note:
never

-

Pneumatically actuated valve, monostable - size 19

ay

the pilot pressure should be lower than the operating pressure.

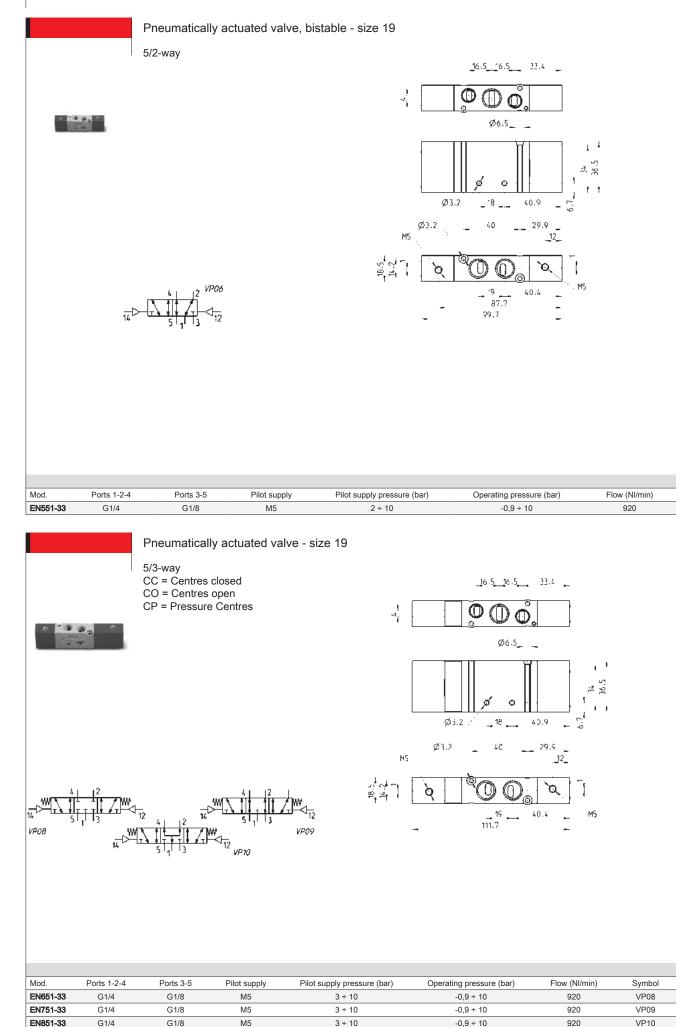
<u>16.5\_15.5\_</u>33.4\_\_ 4  $\odot$  $(\square)$ ά Ø6.5\_ .....  $1^{-\frac{1}{2}}$ 34. 36.5 d ī ø 1 1 ÷-, \_ 18 \_.\_ 40.9 Ø3.2 \_ 40 Ø3.2 \_12\_ 86.5 2,54 ļ Ò, (1)0 ଜ M5 40.4 -66.7

	4	2	VP07
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14	51	1 [3	

Mod.	Ports 1-2-4	Ports 3-5	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)
EN551-36	G1/4	G1/8	M5	2.5 ÷ 10	-0.9 ÷ 10	920



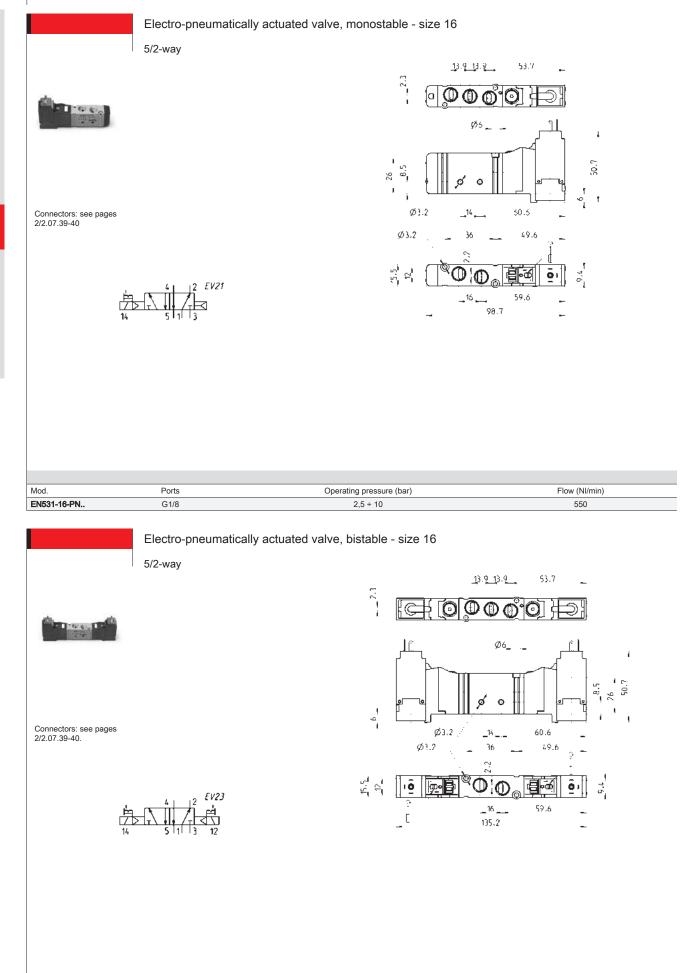
CONTROL



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2/2.07.05

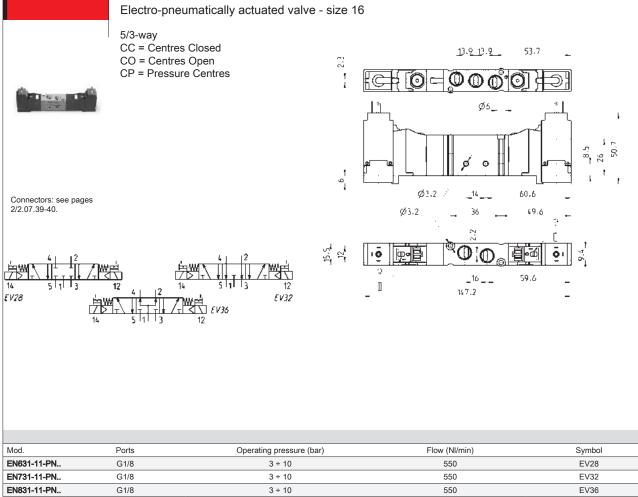
CONTROL



Mod.	Ports	Operating pressure (bar)	Flow (NI/min)
EN531-11-PN	G1/8	2 ÷ 10	550



CONTROL



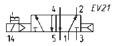
Mod.	Ports	Operating pressure (bar)	Flow (NI/min)	Symbol
EN631-11-PN	G1/8	3 ÷ 10	550	EV28
EN731-11-PN	G1/8	3 ÷ 10	550	EV32
EN831-11-PN	G1/8	3 ÷ 10	550	EV36

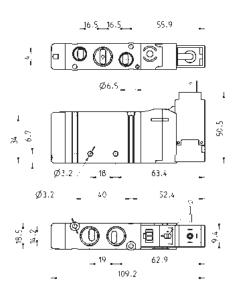


Electro-pneumatically actuated valve, monostable - size 19

5/2-way

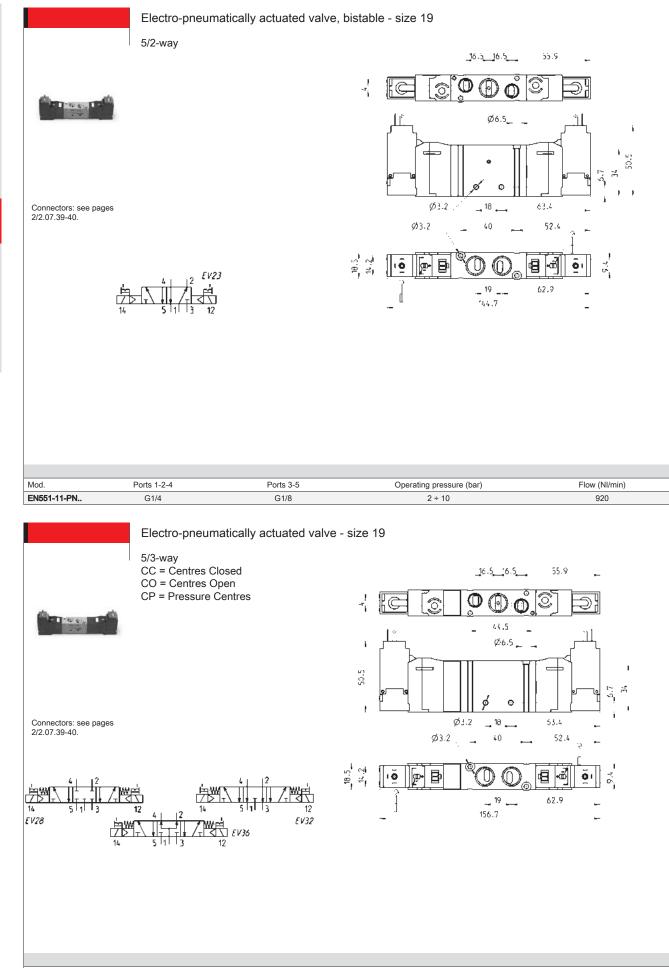
Connectors: see pages 2/2.07.39-40.





Mod.	Ports 1-2-4	Ports 3-5	Operating pressure (bar)	Flow (NI/min)
EN551-16-PN	G1/4	G1/8	2,5 ÷ 10	920

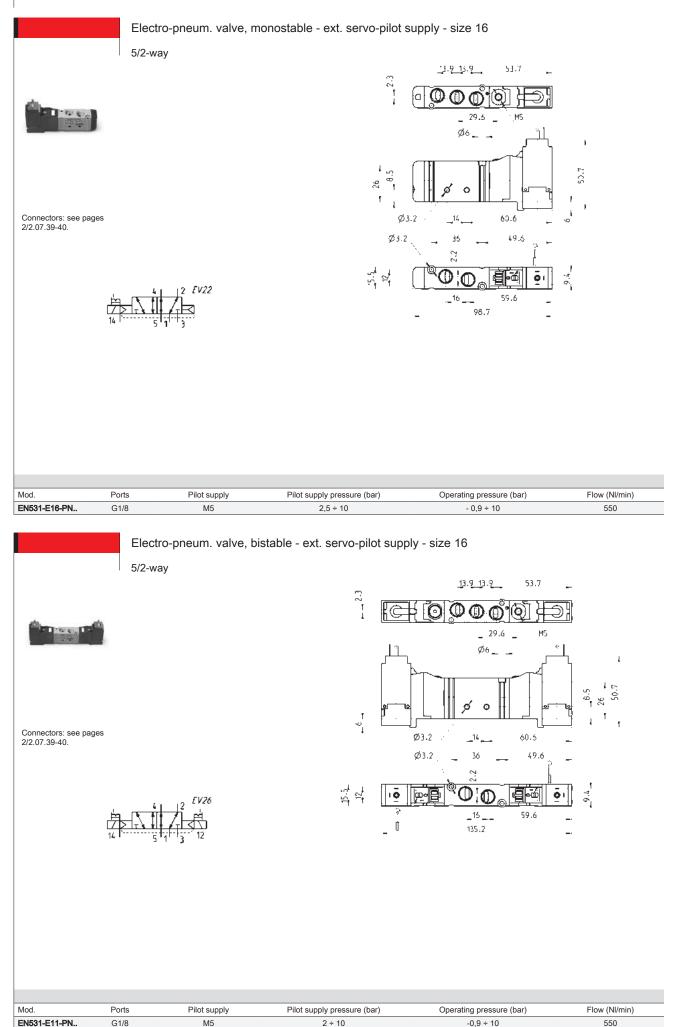
CONTROL

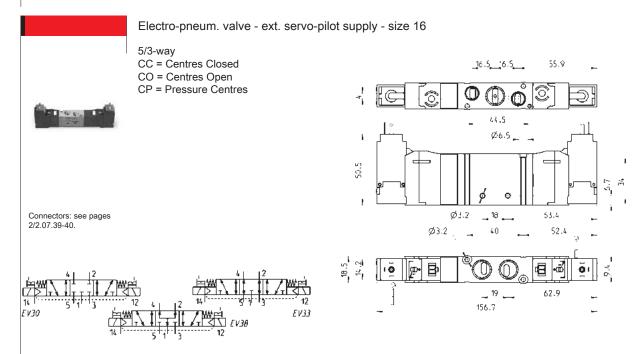


Mod.	Ports 1-2-4	Ports 3-5	Operating pressure (bar)	Flow (NI/min)	Symbol
EN651-11-PN	G1/4	G1/8	3 ÷ 10	920	EV28
EN751-11-PN	G1/4	G1/8	3 ÷ 10	920	EV32
EN851-11-PN	G1/4	G1/8	3 ÷ 10	920	EV36



CONTROL





Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)	Symbol
EN631-E11-PN	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV30
EN731-E11-PN	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV33
EN831-E11-PN	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV38

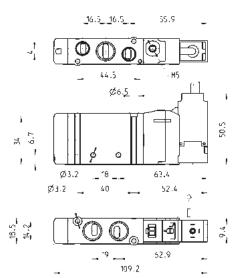
Electro-pneum. valve, monostable - ext. servo-pilot supply - size 19



Connectors see pages 2/2.07.39-40.

2 EV22

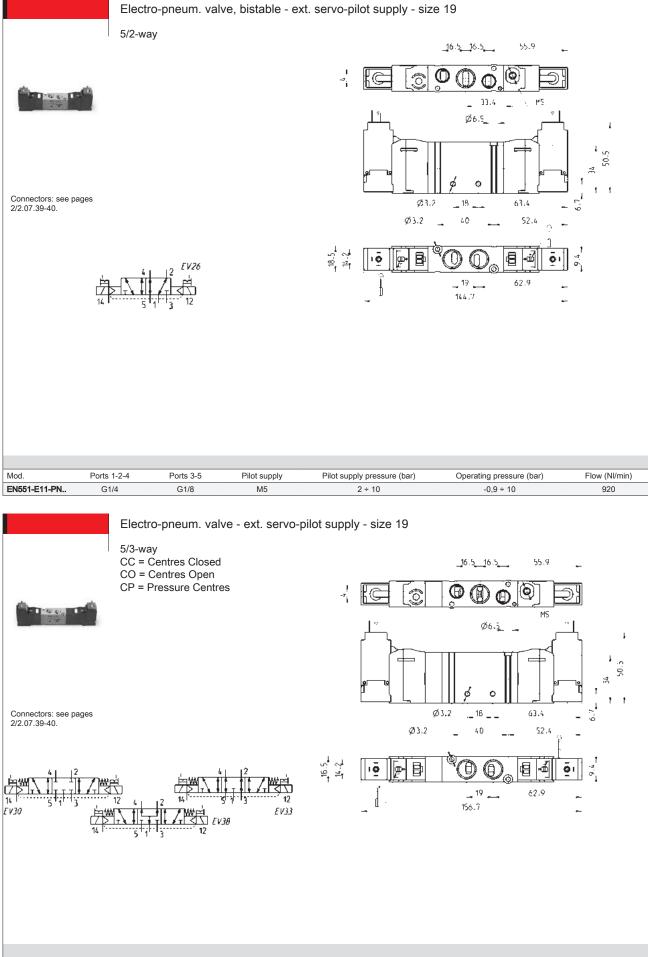
5/2-way



Mod.	Ports 1-2-4	Ports 3-5	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)



CONTROL



Mod.	Ports 1-2-4	Ports 3-5	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)	Symbol
EN651-E11-PN	G1/4	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	920	EV30
EN751-E11-PN	G1/4	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	920	EV33
EN851-E11-PN	G1/4	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	920	EV38

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#### Electro-pneum. valve, monostable, solenoid P, W - size 16

5/2-way

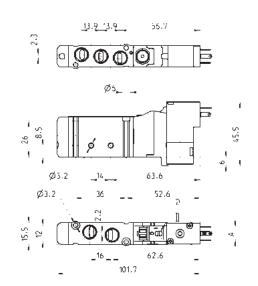


Connectors: see pages 2/2.07.39-40.

2



5/2-way



Mod.	Ports	А	Operating pressure (bar)	Flow (NI/min)
EN531-16-P13	G1/8	9,4	2,5 ÷ 10	550
EN531-16-P54	G1/8	9,4	2,5 ÷ 10	550
EN531-16-P56	G1/8	9,4	2,5 ÷ 10	550
EN531-16-W53	G1/8	8	2,5 ÷ 10	550
EN531-16-W54	G1/8	8	2,5 ÷ 10	550

Electro-pneum. valve, bistable, solenoid P, W - size 16

	<u>1</u> 3. <u>2</u> 13. <u>2</u> 56.7
	Ø6
	Ø 5.2 _14 6 3.5 Ø 3.2 36 5 2.6
EV23	
E V Z 3	1 14 45 4

	Ø6	
- 45.5 - 6 -		• 07
	Ø3.2 _14 63.5	
٩ ا	Ø3.2 _ 36 52.6	
- 15.5 - 10		
	II · I↓1.2	

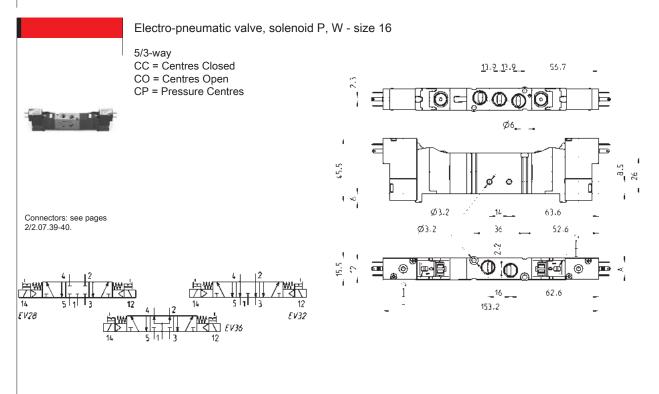
-

E

Mod.	Ports	A	Operating pressure (bar)	Flow (NI/min)
EN531-11-P13	G1/8	9,4	2 ÷ 10	550
EN531-11-P54	G1/8	9,4	2 ÷ 10	550
EN531-11-P56	G1/8	9,4	2 ÷ 10	550
EN531-11-W53	G1/8	8	2 ÷ 10	550
EN531-11-W54	G1/8	8	2 ÷ 10	550

Connectors: see pages 2/2.07.39-40.





Mod.	Ports	А	Operating pressure (bar)	Flow (NI/min)	Symbol
EN631-11-P	G1/8	9,4	3 ÷ 10	550	EV28
EN731-11-P	G1/8	9,4	3 ÷ 10	550	EV32
EN831-11-P	G1/8	9,4	3 ÷ 10	550	EV36
EN631-11-W	G1/8	8	3 ÷ 10	550	EV28
EN731-11-W	G1/8	8	3 ÷ 10	550	EV32
EN831-11-W	G1/8	8	3 ÷ 10	550	EV36



5/2-way



Connectors: see pages 2/2.07.39-40.



16.5\_16.5\_ 58.9 0 ్ల Ē α  $\odot$ Ø6.5\_ \_ 1 Ţ 45.3 6.7 ÷ 1 ø ø t 1 Ø3.2 \_ 18 66.4 ----Ø3.2 40 55.4 \_ 3<sup>월</sup> 2<sup>4</sup> €  $(\mathbf{0})$ (٢ 4 ര \_ 19 65.9 -\_ 12.2 ~ \_

Mod.	Ports 1-2-4	Ports 3-5	А	Operating pressure (bar)	Flow (NI/min)
EN551-16-P13	G1/4	G1/8	9,4	2,5 ÷ 10	920
EN551-16-P54	G1/4	G1/8	9,4	2,5 ÷ 10	920
EN551-16-P56	G1/4	G1/8	9,4	2,5 ÷ 10	920
EN551-16-W53	G1/4	G1/8	8	2,5 ÷ 10	920
EN551-16-W54	G1/4	G1/8	8	2,5 ÷ 10	920

2

#### Electro-pneum. valve, bistable, solenoid P, W - size 19

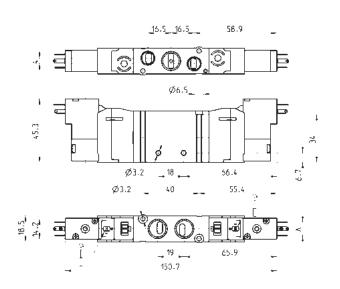
#### 5/2-way



Connectors: see pages 2/2.07.39-40.

2





Mod.	Ports 1-2-4	Ports 3-5	А	Operating pressure (bar)	Flow (NI/min)
EN551-11-P13	G1/4	G1/8	9,4	2 ÷ 10	920
EN551-11-P54	G1/4	G1/8	9,4	2 ÷ 10	920
EN551-11-P56	G1/4	G1/8	9,4	2 ÷ 10	920
EN551-11-W53	G1/4	G1/8	8	2 ÷ 10	920
EN551-11-W54	G1/4	G1/8	8	2 ÷ 10	920

Electro-pneumatic valve, solenoid P, W - size 19 5/3-way CC = Centres Closed 56.9 15.5\_16.5\_ \_ CO = Centres Open CP = Pressure Centres 4 0 0 Ī F 0 Ø6.5 ł 6 i 5 ã ė, h Π ø Θ 1 1 Т Ø3.2 \_ 18 \_.\_ 66.4 Connectors: see pages 2/2.07.39-40. Ø3.2 40 55.4 \_ 가 아 음, 목,  $\bigcirc$ æ ۲ <u>|</u>₽| 8  $\bigcirc$ ₫ -6 0 ••• < ര 1 12 EV32 14 E V28 ₩Ŕ \_ <sup>19</sup> \_\_\_ 65.9 • Ø 12 162.7 --**ΖΨΕ** εν36 Ė₩G 

12

Mod.	Ports 1-2-4	Ports 3-5	А	Operating pressure (bar)	Flow (NI/min)	Symbol
EN651-11-P	G1/4	G1/8	9,4	3 ÷ 10	920	EV28
EN751-11-P	G1/4	G1/8	9,4	3 ÷ 10	920	EV32
EN851-11-P	G1/4	G1/8	9,4	3 ÷ 10	920	EV36
EN651-11-W	G1/4	G1/8	8	3 ÷ 10	920	EV28
EN751-11-W	G1/4	G1/8	8	3 ÷ 10	920	EV32
EN851-11-W	G1/4	G1/8	8	3 ÷ 10	920	EV36

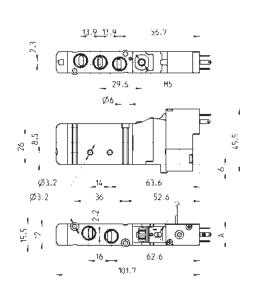


#### Electro-pneum. valve, monost. ext. servo-pilot sup., sol. P/W - size 16

5/2-way

Connectors: see pages 2/2.07.39-40.





Mod.	Ports	А	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)
EN531-E16-P	G1/8	9,4	M5	2,5 ÷ 10	-0,9 ÷ 10	550
EN531-E16-W	G1/8	8	M5	2,5 ÷ 10	-0,9 ÷ 10	550

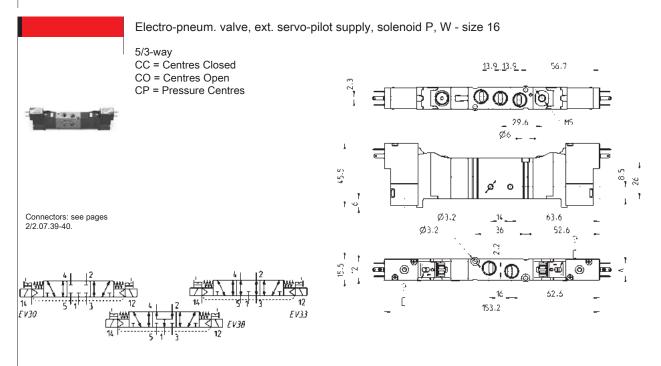
Electro-pneum. valve, bistable ext. servo-pilot sup., sol. P/W - size 16

5/2-way 13.5\_13.9\_\_\_ 56.7 • --2.3 000 ¥ (O 2 0 È Ē 29.6 Μ5 -Ø6\_ t 45.5 36 ø Ø 1.0 61.5 Connectors: see pages 2/2.07.39-40. Ø3.2 14 52.6 Ø3.2 36 2.2 ١ ®00 <u>p</u> 5.5 .... <u>6</u>-0 • 0 0 • -4 1 i EV26 \_ 15 \_ 62.6 •--5 141.2 • 

Mod.	Ports	A	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)
EN531-E11-P	G1/8	9,4	M5	2 ÷ 10	-0,9 ÷ 10	550
EN531-E11-W	G1/8	8	M5	2 ÷ 10	-0,9 ÷ 10	550

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CONTROL



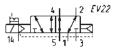
Mod.	Ports	А	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)	Symbol
EN631-E11-P	G1/8	9,4	M5	3 ÷ 10	-0,9 ÷ 10	550	EV30
EN731-E11-P	G1/8	9,4	M5	3 ÷ 10	-0,9 ÷ 10	550	EV33
EN831-E11-P	G1/8	9,4	M5	3 ÷ 10	-0,9 ÷ 10	550	EV38
EN631-E11-W	G1/8	8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV30
EN731-E11-W	G1/8	8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV33
EN831-E11-W	G1/8	8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV38

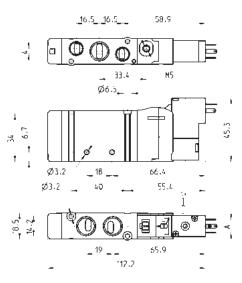
Electro-pneum. valve, monost. ext. servo-pilot sup., sol. P/W - size 19

5/2-way



Connectors: see pages 2/2.07.39-40.





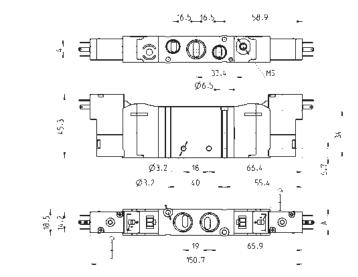
Mod.	Ports 1-2-4	Ports 3-5	A	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)
EN551-E16-P	G1/4	G1/8	9,4	M5	2,5 ÷ 10	-0,9 ÷ 10	920
EN551-E16-W	G1/4	G1/8	8	M5	2,5 ÷ 10	-0,9 ÷ 10	920

**2**/2.07.16



#### Electro-pneum. valve, bistable ext. servo-pilot sup., sol. P/W - size 19

#### 5/2-way

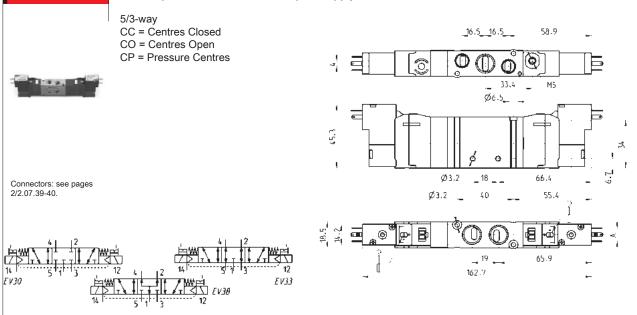


Connectors: see pages 2/2.07.39-40.



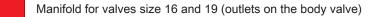
Mod.	Ports 1-2-4	Ports 3-5	А	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)
EN551-E11-P	G1/4	G1/8	9,4	M5	2 ÷ 10	-0,9 ÷ 10	920
EN551-E11-W	G1/4	G1/8	8	M5	2 ÷ 10	-0,9 ÷ 10	920

Electro-pneum. valve, ext. servo-pilot supply, solenoid P, W - size 19

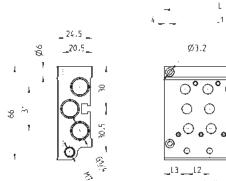


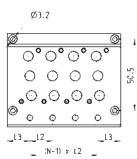
Mod.	Ports 1-2-4	Ports 3-5	Α	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)	Symbol
EN651-E11-P	G1/4	G1/8	9,4	M5	3 ÷ 10	-0,9 ÷ 10	920	EV30
EN751-E11-P	G1/4	G1/8	9,4	M5	3 ÷ 10	-0,9 ÷ 10	920	EV33
EN851-E11-P	G1/4	G1/8	9,4	M5	3 ÷ 10	-0,9 ÷ 10	920	EV38
EN651-E11-W	G1/4	G1/8	8	M5	3 ÷ 10	-0,9 ÷ 10	920	EV30
EN751-E11-W	G1/4	G1/8	8	M5	3 ÷ 10	-0,9 ÷ 10	920	EV33
EN851-E11-W	G1/4	G1/8	8	M5	3 ÷ 10	-0,9 ÷ 10	920	EV38











---- 4

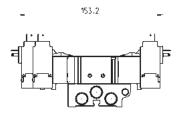
Mod.	Nr of valve positions	L	L1	L2	L3
EN531-1002	2	48	40	16	16
EN531-1003	3	64	56	16	16
EN531-1004	4	80	72	16	16
EN531-1005	5	96	88	16	16
EN531-1006	6	112	104	16	16
EN531-1008	8	144	136	16	16
EN531-1010	10	176	168	16	16
EN531-1012	12	208	200	16	16
EN551-1002	2	53	45	19	17
EN551-1003	3	72	64	19	17
EN551-1004	4	91	83	19	17
EN551-1005	5	110	102	19	17
EN551-1006	6	129	121	19	17
EN551-1008	8	167	159	19	17
EN551-1010	10	205	197	19	17
EN551-1012	12	243	235	19	17

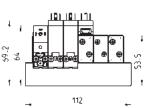


#### Manifolds complete with valves with outlets on the body - size 16

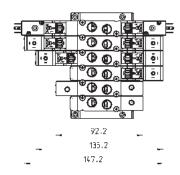
ports G1/8







98.7

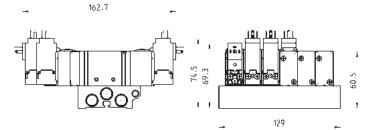


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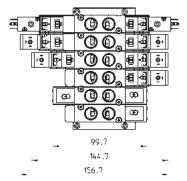


Manifolds complete with valves with outlets on the body - size 19

ports G1/4



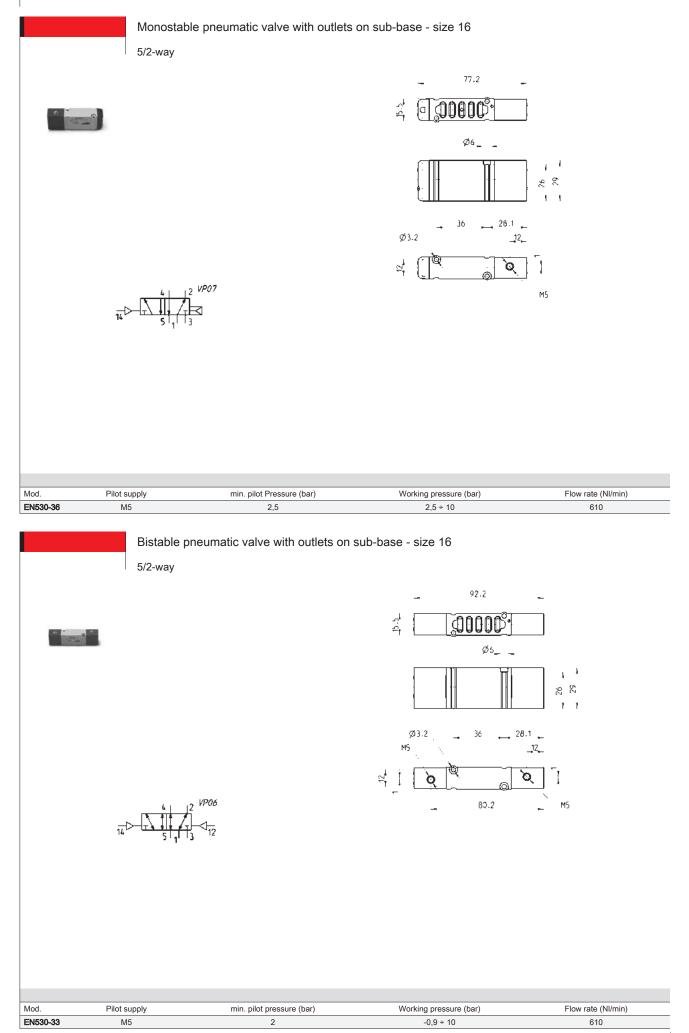
\_\_\_\_\_109.2



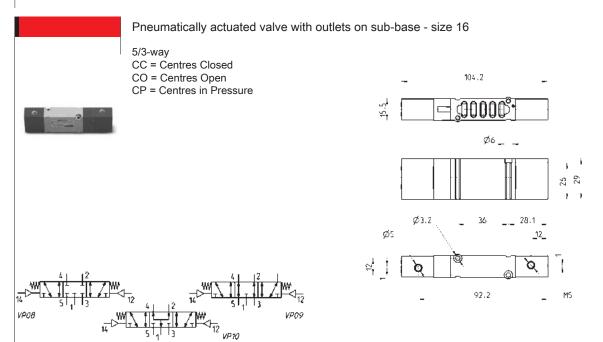
EN	5	3	0	-	11		-	PN3
EN	SERIES							
5	FUNCTION: 5 = 5/2 6 = 5/3 Centre Clo 7 = 5/3 Centre Op 8 = 5/3 Pressure C	en						
3	SIZE: 3 = size 16 5 = size 19							
0	BODY TYPE: 0 = body for sub-b	ase						
11		natic, monostable stable onostable umatic, bistable with e	xternal servo-pilot suppl th external servo-pilot s					
PN3	PN3 = 24V DC - 1 PN4 = 48V DC - 2 PN6 = 110V DC - PN7 = 230V - 2W P13 = 24V DC - 1V P54 = 48V DC - 2V P56 = 110V DC - 2 W53 = 24V DC - 2	E16 = electro-pneumatic, monostable with external servo-pilot supply TYPE OF SOLENOID: N3 = 24V DC - 1W PN4 = 48V DC - 2W N6 = 110V DC - 2W PN7 = 230V - 2W P13 = 24V DC - 1W P54 = 48V DC - 2W P56 = 110V DC - 2W N53 = 24V DC - 2W N53 = 24V DC - 2W						



CONTROL



CONTROL



Mod.	Pilot supply	min. pilot pressure (bar)	Working pressure (bar)	Flow rate (NI/min)	Symbol
EN630-33	M5	3	-0,9 ÷ 10	610	VP08
EN730-33	M5	3	-0,9 ÷ 10	610	VP09
EN830-33	M5	3	-0,9 ÷ 10	610	VP10

	Pneumatic valve, monostable v	with outlets on sub-ba	se - size 19	
	5/2-way			
			<b>_</b> в	6.7 -
		1 36 1 1	- 000	<b>00</b> .
14		i Sh		_12_   

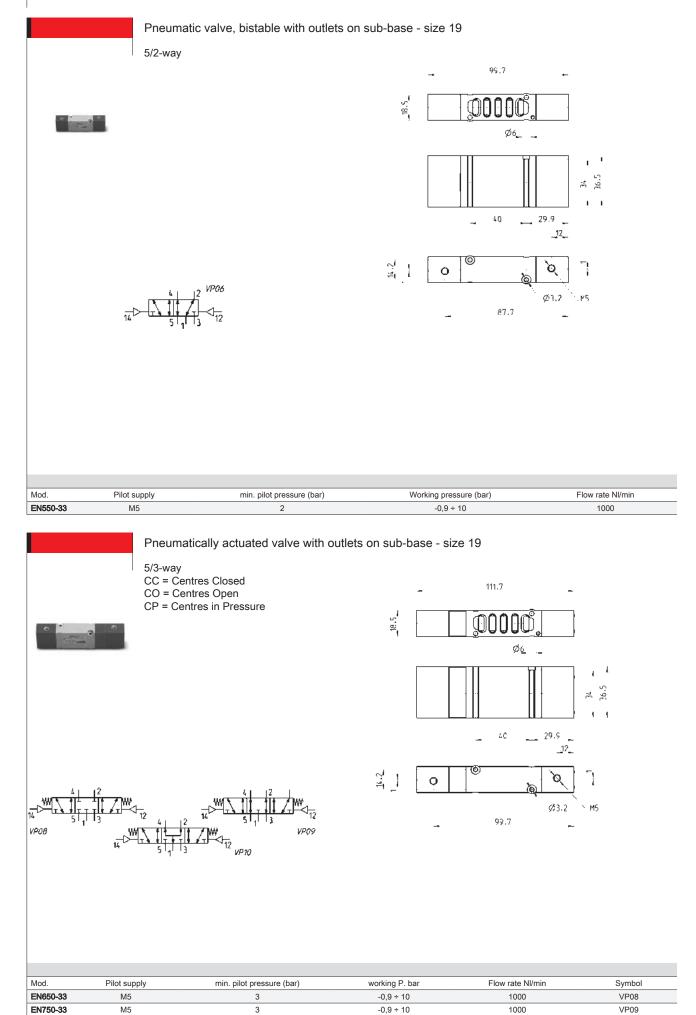
valve monostable with outlets on sub-base - size 10 П atia

Mod.	Pilot supply	min. pilot pressure (bar)	working P. (bar)	Flow rate (NI/min)
EN550-36	M5	2,5	2 ÷ 10	1000

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CONTROL



-0,9 ÷ 10

1000

Products	designed	for	industrial	applications.	

EN850-33

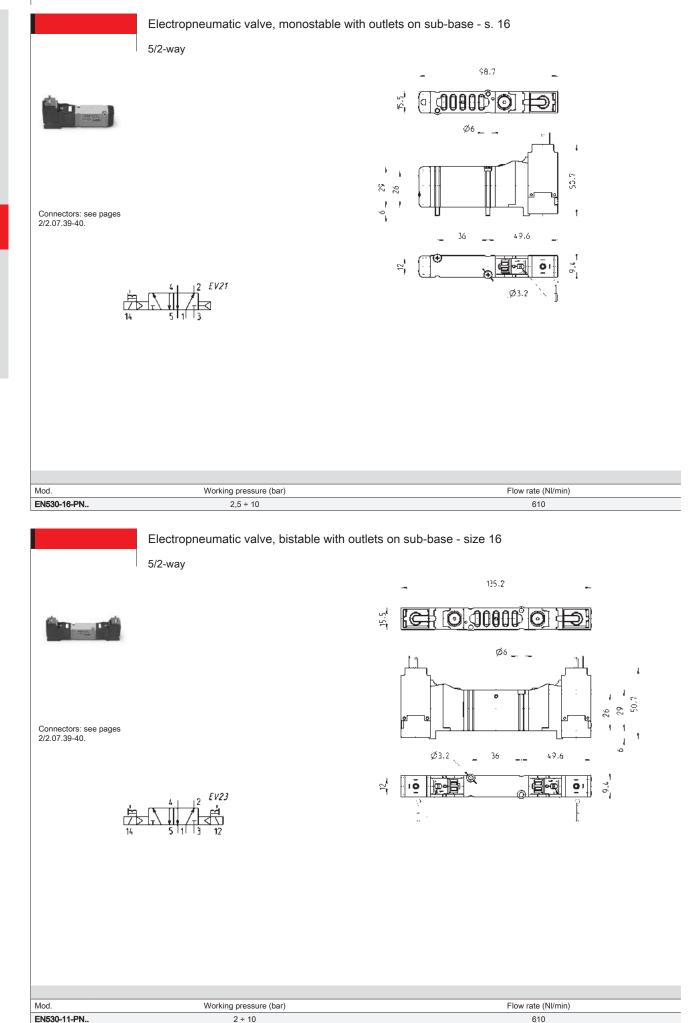
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3

M5

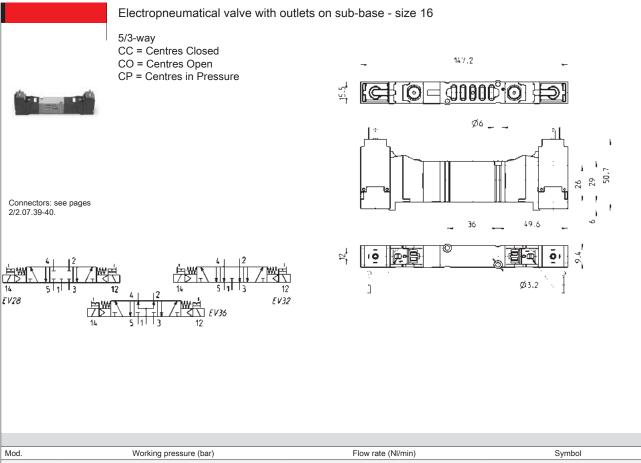
VP10

CONTROL



2/2.07.24





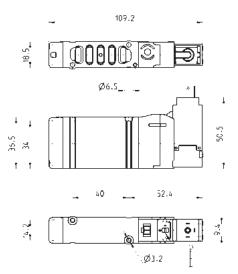
Mod.	Working pressure (bar)	Flow rate (NI/min)	Symbol
EN630-11-PN	3 ÷ 10	610	EV28
EN730-11-PN	3 ÷ 10	610	EV32
EN830-11-PN	3 ÷ 10	610	EV36

Electropneumatic valve, monostable with outlets on sub-base - s. 19

5/2-way

Connectors: see pages 2/2.07.39-40.

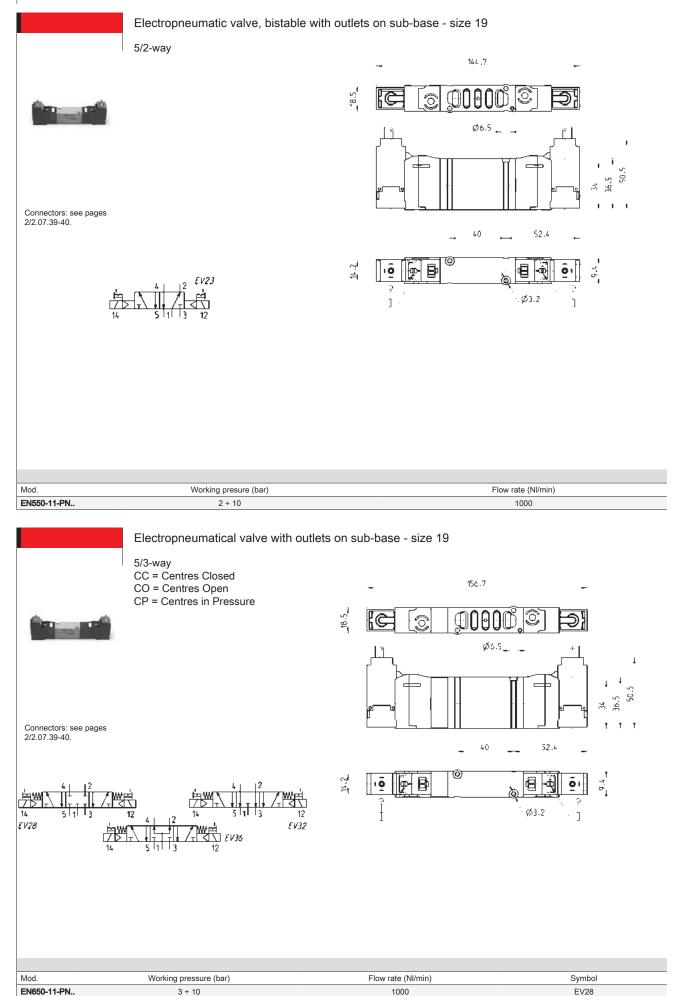




Mod.	Working pressure (bar)	Flow rate (NI/min)
EN550-16-PN	2,5 ÷ 10	1000

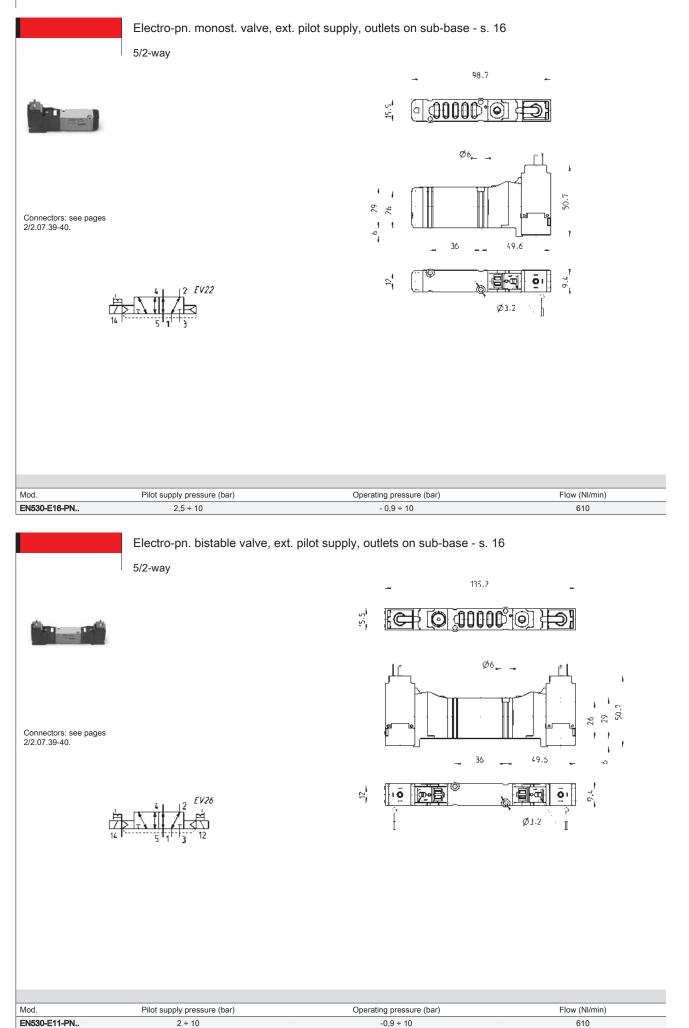
\_ CONTROL

CONTROL

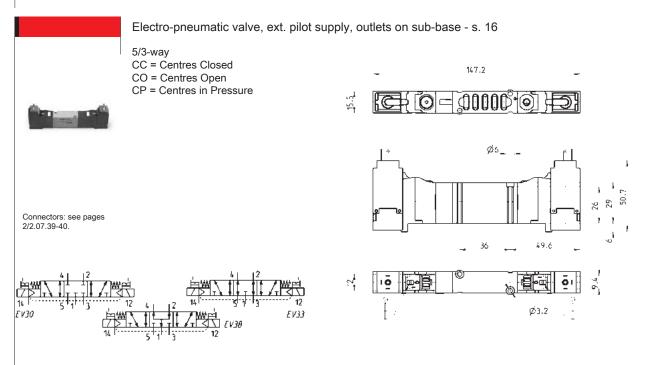




CONTROL



CONTROL



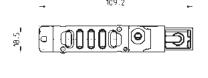
Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)	Symbol
EN630-E11-PN	3 ÷ 10	-0,9 ÷ 10	610	EV30
EN730-E11-PN	3 ÷ 10	-0,9 ÷ 10	610	EV33
EN830-E11-PN	3 ÷ 10	-0,9 ÷ 10	610	EV38

Connectors: see pages 2/2.07.39-40.

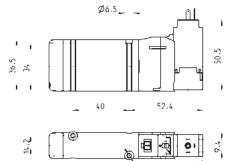


5/2-way

Electro-pn. monost. valve, ext. pilot supply, outlets on sub-base - s. 19



109.2

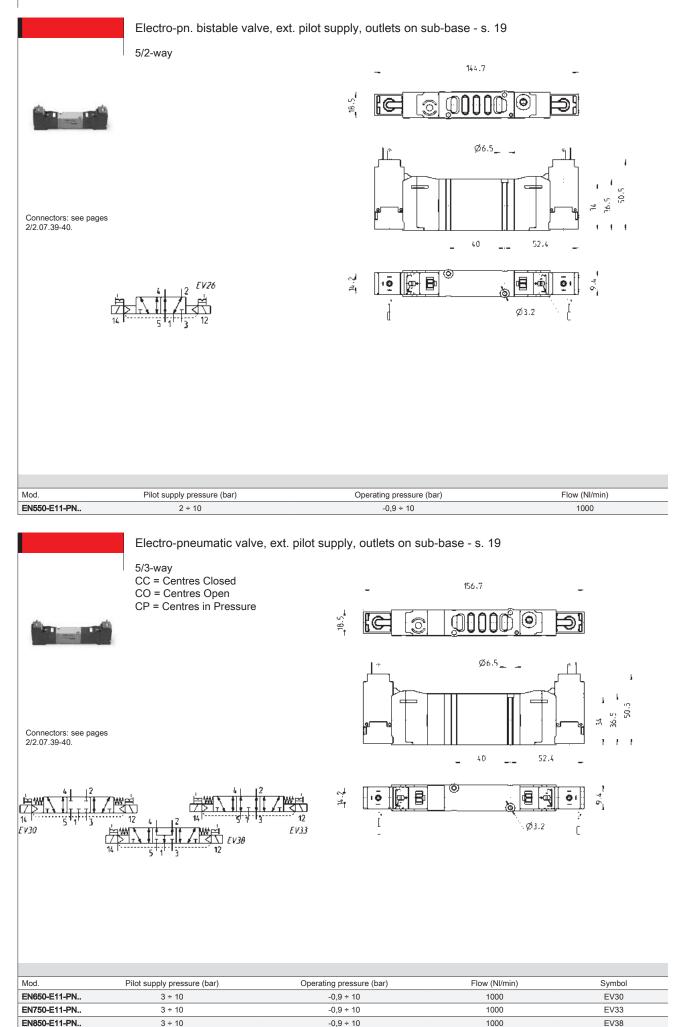


Ø3.2

Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)
EN550-E16-PN	2,5 ÷ 10	- 0,9 ÷ 10	1000



CONTROL



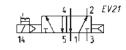
#### Electro-pn. monostable valve, sol. P / W, outlets on sub-base - s. 16

#### 5/2-way

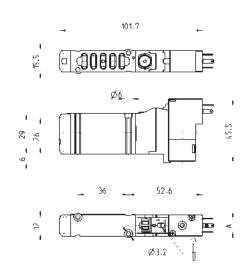


Connectors: see pages 2/2.07.39-40.

2



5/2-way



Mod.	A	Operating pressure (bar)	Flow (NI/min)
EN530-16-P13	9,4	2,5 ÷ 10	610
EN530-16-P54	9,4	2,5 ÷ 10	610
EN530-16-P56	9,4	2,5 ÷ 10	610
EN530-16-W53	8	2,5 ÷ 10	610
EN530-16-W54	8	2,5 ÷ 10	610

Electro-pn. bistable valve, sol. P / W, outlets on sub-base - size 16



Connectors: see pages 2/2.07.39-40.

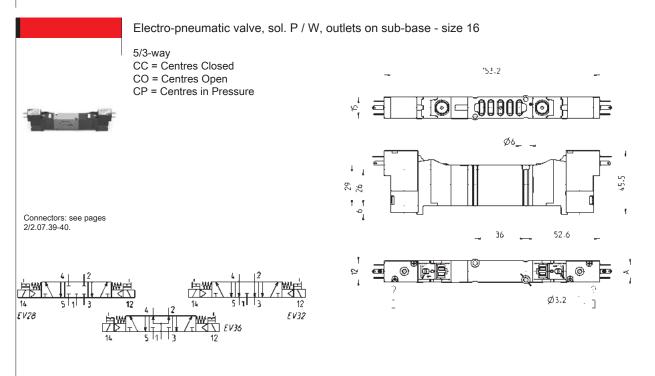


141.2 ן לי <u>0.0000</u>° 9 Ŕ O Þ Ø6\_ ţ 6 I i. £5.5 29 26 ĩ 35 52.6 ī © <u>,</u> ١ 9-6 Ś 잍 ٢ ••• Œ 1 ĺ Ø3.2

Mod.	A	Operating pressure (bar)	Flow (NI/min)
EN530-11-P13	9,4	2 ÷ 10	610
EN530-11-P54	9,4	2 ÷ 10	610
EN530-11-P56	9,4	2 ÷ 10	610
EN530-11-W53	8	2 ÷ 10	610
EN530-11-W54	8	2 ÷ 10	610



CONTROL

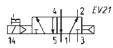


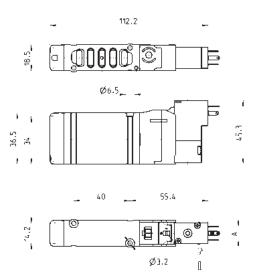
Mod.	A	Operating pressure (bar)	Flow (NI/min)	Symbol
EN630-11-P	9,4	3 ÷ 10	610	EV28
EN730-11-P	9,4	3 ÷ 10	610	EV32
EN830-11-P	9,4	3 ÷ 10	610	EV36
EN630-11-W	8	3 ÷ 10	610	EV28
EN730-11-W	8	3 ÷ 10	610	EV32
EN830-11-W	8	3 ÷ 10	610	EV36

Electro-pn. monostable valve, sol. P / W, outlets on sub-base - s. 19

5/2-way

Connectors: see pages 2/2.07.39-40.



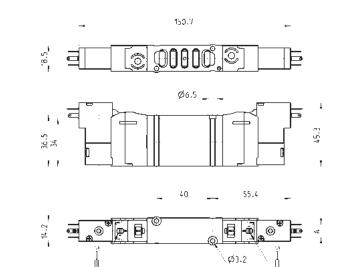


Mod.	Operating pressure (bar)	Flow (NI/min)
EN550-16-P13	2,5 ÷ 10	1000
EN550-16-P54	2,5 ÷ 10	1000
EN550-16-P56	2,5 ÷ 10	1000
EN550-16-W53	2,5 ÷ 10	1000
EN550-16-W54	2,5 ÷ 10	1000

#### Electro-pn. bistable valve, sol. P / W, outlets on sub-base - size 19

#### 5/2-way

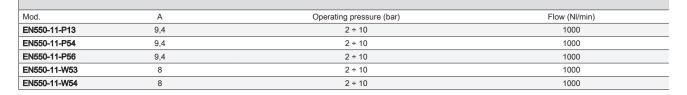




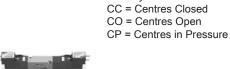
Connectors: see pages 2/2.07.39-40.



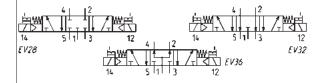
5/3-way

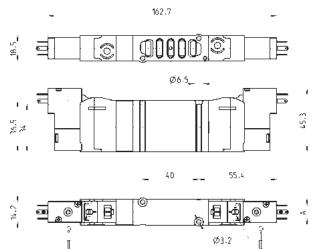


Electro-pneumatic valve, sol. P / W, outlets on sub-base - size 19



Connectors: see pages 2/2.07.39-40.





Mod.	A	Operating pressure (bar)	Flow (NI/min)	Symbol
EN650-11-P	9,4	3 ÷ 10	1000	EV28
EN750-11-P	9,4	3 ÷ 10	1000	EV32
EN850-11-P	9,4	3 ÷ 10	1000	EV36
EN650-11-W	8	3 ÷ 10	1000	EV28
EN750-11-W	8	3 ÷ 10	1000	EV32
EN850-11-W	8	3 ÷ 10	1000	EV36

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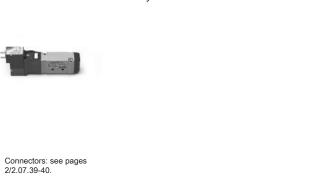


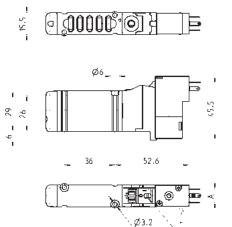
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CONTROL

Electro-pn. mono. valve, pilot sup. sol. P / W, outlets on base - s. 16

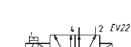
5/2-way



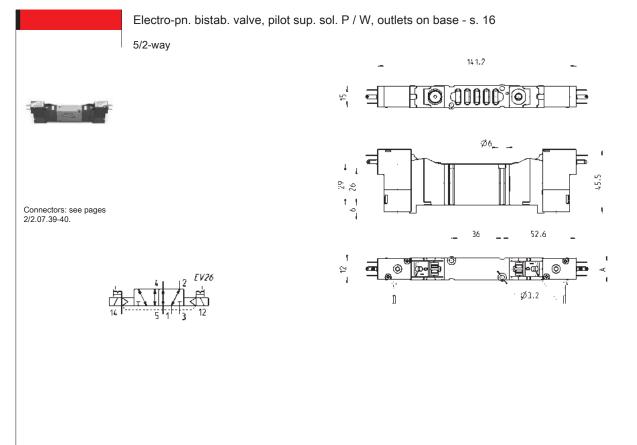


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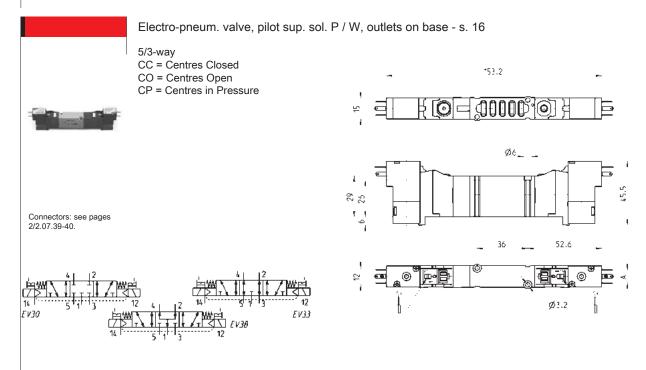


Mod.	A	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)
EN530-E16-P	9,4	2,5 ÷ 10	-0,9 ÷ 10	610
EN530-E16-W	8	2,5 ÷ 10	-0,9 ÷ 10	610



Mod.	А	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)
EN530-E11-P	9,4	2 ÷ 10	-0,9 ÷ 10	610
EN530-E11-W	8	2 ÷ 10	-0,9 ÷ 10	610

CONTROL



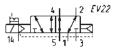
Mod.	A	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)	Symbol
EN630-E11-P	9,4	3 ÷ 10	-0,9 ÷ 10	610	EV30
EN730-E11-P	9,4	3 ÷ 10	-0,9 ÷ 10	610	EV33
EN830-E11-P	9,4	3 ÷ 10	-0,9 ÷ 10	610	EV38
EN630-E11-W	8	3 ÷ 10	-0,9 ÷ 10	610	EV30
EN730-E11-W	8	3 ÷ 10	-0,9 ÷ 10	610	EV33
EN830-E11-W	8	3 ÷ 10	-0,9 ÷ 10	610	EV38

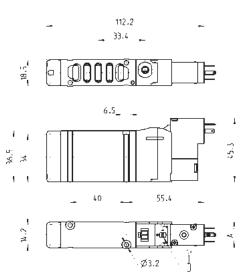
#### Electro-pn. mono. valve, pilot sup. sol. P / W, outlets on base - s. 19

5/2-way



Connectors: see pages 2/2.07.39-40.



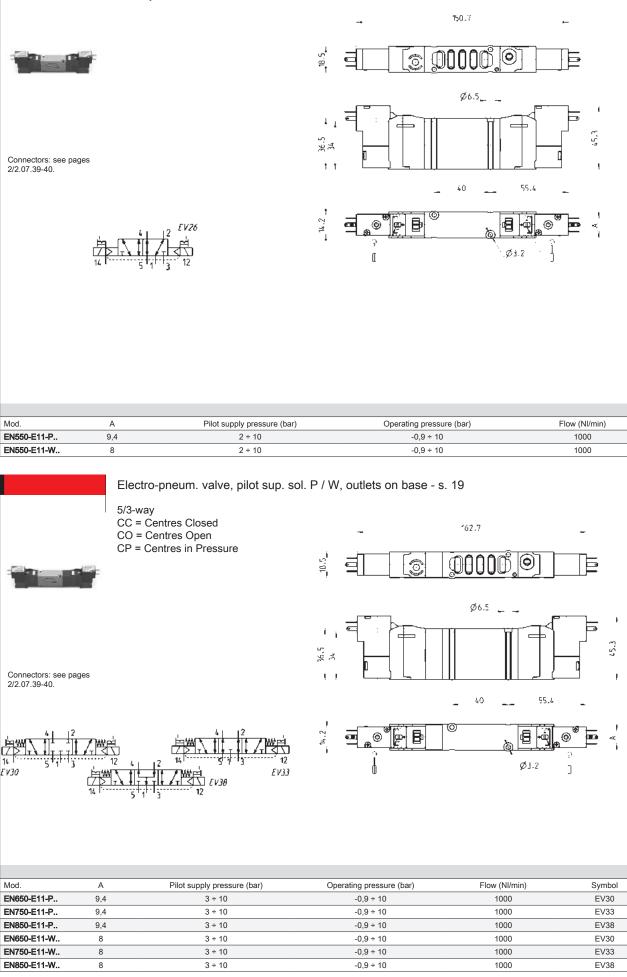


Mod.	A	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)
EN550-E16-P	9,4	2,5 ÷ 10	-0,9 ÷ 10	1000
EN550-E16-W	8	2,5 ÷ 10	-0,9 ÷ 10	1000



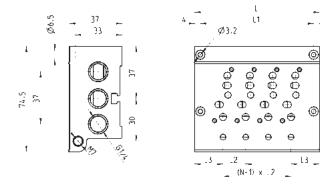
### Electro-pn. bistab. valve, pilot sup. sol. P / W, outlets on base - s. 19

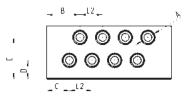
5/2-way



Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com. CONTROL







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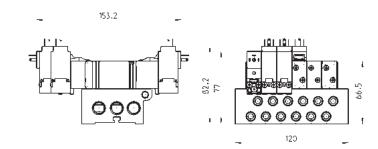
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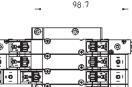
Mod.	Nr of valve positions	A	В	С	D	E	L	L1	L2	L3
EN530-2102	2	G1/8	23,5	16	12,8	29	56	48	16	20
EN530-2103	3	G1/8	23,5	16	12,8	29	72	64	16	20
EN530-2104	4	G1/8	23,5	16	12,8	29	88	80	16	20
EN530-2105	5	G1/8	23,5	16	12,8	29	104	96	16	20
EN530-2106	6	G1/8	23,5	16	12,8	29	120	112	16	20
EN530-2108	8	G1/8	23,5	16	12,8	29	152	144	16	20
EN530-2110	10	G1/8	23,5	16	12,8	29	184	176	16	20
EN530-2112	12	G1/8	23,5	16	12,8	29	216	208	16	20
EN550-2102	2	G1/4	23	15,5	10,5	28,2	59	51	19	20
EN550-2103	3	G1/4	23	15,5	10,5	28,2	78	70	19	20
EN550-2104	4	G1/4	23	15,5	10,5	28,2	97	89	19	20
EN550-2105	5	G1/4	23	15,5	10,5	28,2	116	108	19	20
EN550-2106	6	G1/4	23	15,5	10,5	28,2	135	127	19	20
EN550-2108	8	G1/4	23	15,5	10,5	28,2	173	165	19	20
EN550-2110	10	G1/4	23	15,5	10,5	28,2	211	203	19	20
EN550-2112	12	G1/4	23	15,5	10,5	28,2	249	241	19	20



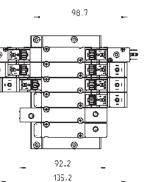
#### Manifolds complete with base moutend valves - size 16







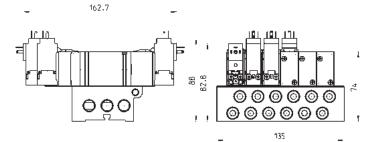
147.2



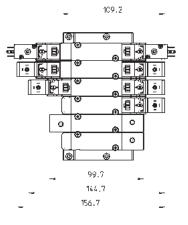
2 CONTROL

Manifolds complete with base moutend valves - size 19





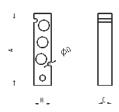
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#### CONTROL > Series EN valves and solenoid valves

#### Blanking plate for manifolds - valves with outlets on the body

- 1000 T
- The following is supplied: 1x blanking plate 2x screws 1x seal

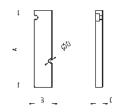


Mod.	Size	A	В	С	ØD
TP-EN531	16	60	14,5	12	3,2
TP-EN551	19	62	17,3	12	3,2



#### Blanking plate for manifolds - base mounted valves

The following is supplied: 1x blanking plate 2x screws 1x seal



Mod.	Size	A	В	С	ØD
TP-EN530	16	64	14,7	6	3,2
TP-EN550	19	64	17	6	3,2

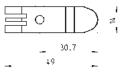


#### Mounting brackets for DIN rail

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

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





Mod.

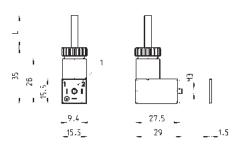


	Conn	ector Mo	d. 125 D	IN 43650	pitch 9.4 mm		
							27.5 29 29 21.5
Mod.	description	colour	working voltage	cable holding	tightening torque		
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm		
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm	1 = 90° adjustable connector	
125-800	connector, without electronics	black	-	PG7	0.3 Nm		

#### Connector Mod. 125-... DIN 43650 pitch 9.4 mm with cable



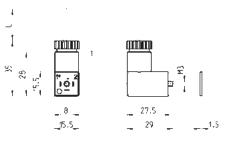
The internal rectifier circuit of the connector Mod. 125-900 allows to use solenoid valves with different AC voltage, even if the voltage indicated on the solenoid valve is DC.



Mod.	description	colour	working voltage	cable length [ L ]	cable holding	tightening torque
125-501-2	moulded cable with diode + Led	black	10/50 V DC	2000 mm	-	0.3 Nm
125-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm
125-601-2	pre-wired cable, diode + Led	transparent	10/50 V DC	2000 mm	PG7	0.3 Nm
125-571-3	moulded cable, varistor + Led	black	24 V AC/DC	3000 mm	-	0.3 Nm
125-900	pre-wired cable with voltage rectifier	black	6 V - 110 V AC/DC	2000 mm	PG7	0.3 Nm

#### Connector Mod. 126-... DIN 43650 pitch 8 mm

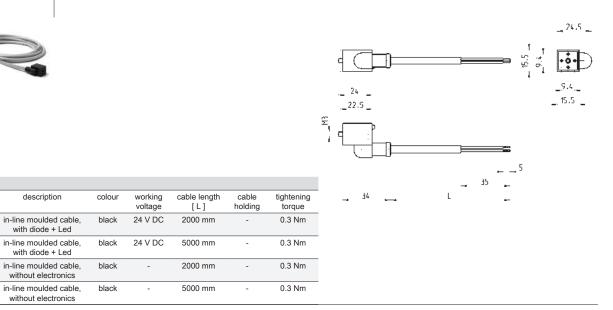
Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
126-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm
126-800	connector, without electronics	black	-	-	PG7	0.3 Nm
126-701	connector, varistor + Led	transparent	24 V AC/ DC	-	PG7	0.3 Nm



1 = 90° adjustable connector

1 = 90° adjustable connector

#### In-line connectors with cable



Mod.

125-503-2

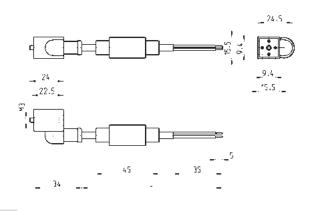
125-503-5

125-553-2

125-553-5

#### In-line connectors with bridge rectifier





Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
125-903-2	in-line moulded cable with voltage rectifier	black	6 V - 230 V AC/DC	2000 mm	-	0.3 Nm
125-903-5	in-line moulded cable with voltage rectifier	black	6 V - 230 V AC/DC	5000 mm	-	0.3 Nm



# Series 3 valves and solenoid valves

2x3/2, 3/2, 5/2 and 5/3-way CC CO CP Ports G1/8 and G1/4

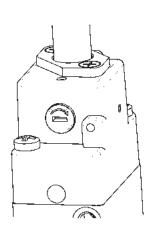


GENERAL DAT	ΓΑ
Construction	spool - type
Valve group	2x3/2 - 3/2 - 5/2 - 5/3-way CC CO CP
Materials	AL body, stainless steel spool, NBR seals
Ports	G1/8 - G1/4
Installation	in any position
Operating temperature	0 ÷ 60°C (with dry air at -20°C)
Operating pressure	see tables
Fluid	filtered air, without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should never be interrupted.

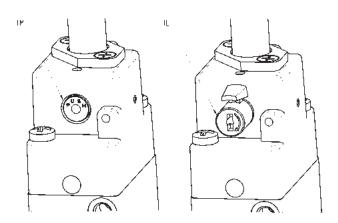
CONTROL

CODI	NG EXA	MPLE									
3	3	8	D	_	015	-	02	-	U7	7	
3	SERIES										
3	3 = 3/2 N 4 = 3/2 N 5 = 5/2 6 = 5/3 C 7 = 5/3 C 8 = 5/3 C	0 C 0									
8	PORTS: 8 = G1/8 4 = G1/4										
D		ard le valve 2x3/2	y (only for solend	oid valves 3/2	with G1/8 ports)						
015	015 = sing 016 = sing E11 = doi E15 = sin 033 = pre	uble solenoid gle solenoid, sp gle solenoid, pr uble solenoid e:	neumatic spring r xternal servo-cor xternal servo-con	nmand							
22		ID INTERFACE h. sol. 22 x 22	2:								
U7	A8 = PPS G7 = PA G8 = PA G9 = PA	5 / 30 x 30 / 22 x 22 / 30 x 30 (24 V / 22 x 58 6 V0 / 30 x 30	ERIAL / SOLENG	DID DIMENSI	ONS:						
7		ID VOLTAGE: plenoids section	n from page 2.2.3	35.01							
	= bista IL = bista		ERRIDE: (available on der ble on demand)	mand)							

TYPES OF MANUAL OVERRIDE



Example of solenoid valve with a bistable standard manual override.



Example of solenoid monostable valve (IM) and bistable valve with a lever type manual override (IL). Both versions are available on demand. To order them it is necessary to add IM or IL at the end of the code. Code ex.: 454-015-22-U77IL.

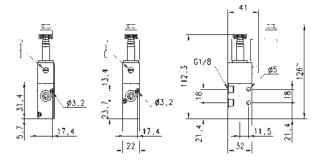


CONTROL

#### 3/2-way solenoid valve, G1/8, monostable - Mod. 338..., Mod 348...



These solenoid valves, which have electropneumatic actuation and spring return, are available in the NC (closed) or NO (open) version.







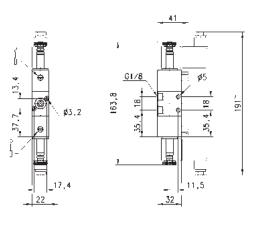
Mod.	Mounting	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
338-015-02	in-line	3/2 NC	700	2,5 ÷ 10	EV10
338L-015-02	on manifold	3/2 NC	700	2,5 ÷ 10	EV10
348-015-02	in-line	3/2 NO	700	2,5 ÷ 10	EV12
348L-015-02	on manifold	3/2 NO	700	2,5 ÷ 10	EV12

3/2-way solenoid valve, G1/8, bistable - Mod. 338...



These solenoid valves, which have electropneumatic actuation and return, assume the NC (closed) or NO (open) position depending on the last pulse received.

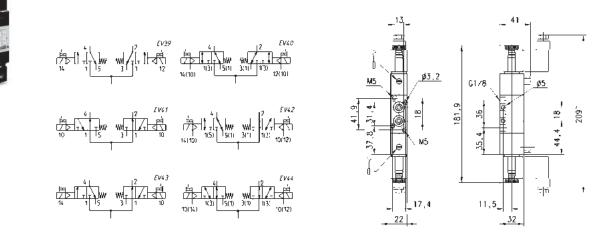
EV 14



Mod.	Mounting	Function	Flow rate (NI/min)	Operating pressure (bar)
338-011-02	in-line	3/2	700	1,5 ÷ 10
338L-011-02	on manifold	3/2	700	1,5 ÷ 10

2 x 3/2-way solenoid valve, G1/8 - Mod. 338D..., 348D... e 398D...

These solenoid valves are available in versions with 2 x 3/2 valves in the same valve.

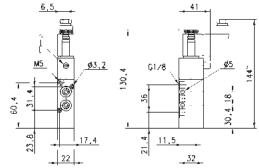


338D-015-02         2 x 3/2 NC         700         2,5 ÷ 10         -         EV39           348D-015-02         2 x 3/2 NO         700         2,5 ÷ 10         -         EV41           338D-E15-02         2 x 3/2 NC         700         -0,9 ÷ 10         2,5 ÷ 10         EV40           348D-E15-02         2 x 3/2 NC         700         -0,9 ÷ 10         2,5 ÷ 10         EV40           348D-E15-02         2 x 3/2 NO         700         -0,9 ÷ 10         2,5 ÷ 10         EV44						
348D-015-02         2 x 3/2 NO         700         2,5 + 10         -         EV41           338D-E15-02         2 x 3/2 NC         700         -0,9 + 10         2,5 + 10         EV40           348D-E15-02         2 x 3/2 NO         700         -0,9 + 10         2,5 + 10         EV40           348D-E15-02         2 x 3/2 NO         700         -0,9 + 10         2,5 + 10         EV44	Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
338D-E15-02         2 x 3/2 NC         700         -0,9 ÷ 10         2,5 ÷ 10         EV40           348D-E15-02         2 x 3/2 NO         700         -0,9 ÷ 10         2,5 ÷ 10         EV44	338D-015-02	2 x 3/2 NC	700	2,5 ÷ 10	-	EV39
348D-E15-02         2 x 3/2 NO         700         -0,9 ÷ 10         2,5 ÷ 10         EV44	348D-015-02	2 x 3/2 NO	700	2,5 ÷ 10	-	EV41
	338D-E15-02	2 x 3/2 NC	700	-0,9 ÷ 10	2,5 ÷ 10	EV40
2000 045 02 4 x 2/2 NO 700 700 25 x 40 EV/42	348D-E15-02	2 x 3/2 NO	700	-0,9 ÷ 10	2,5 ÷ 10	EV44
<b>3900-013-02</b> 1 X 3/2 NG + 1 X 3/2 NG 700 2,5 ÷ 10 - EV43	398D-015-02	1 x 3/2 NC + 1 x 3/2 NO	700	2,5 ÷ 10	-	EV43
398D-E15-02         1 x 3/2 NC + 1 x 3/2 NO         700         -0,9 + 10         2,5 + 10         EV42	398D-E15-02	1 x 3/2 NC + 1 x 3/2 NO	700	-0,9 ÷ 10	2,5 ÷ 10	EV42

5/2-way solenoid valve, G1/8, monostable - Mod. 358...

These solenoid valves, which have electropneumatic actuation and spring return, are suitable for operating double-acting cylinders.





Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
358-015-02	5/2	700	2,5 ÷ 10	-	EV18
358-E15-02	5/2	700	-0,9 ÷ 10	2,5 ÷ 10	EV19
358-016-02	5/2	700	2,5 ÷ 10	-	EV21

2



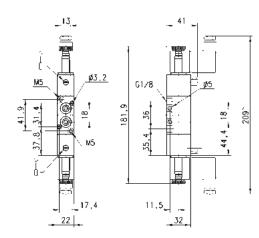
#### 5/2-way solenoid valve, G1/8, bistable - Mod. 358...

These solenoid valves, which have electropneumatic actuation and spring return, are suitable for operating double-acting cylinders.



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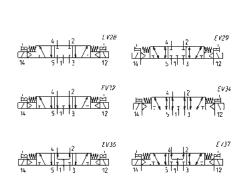
EV25

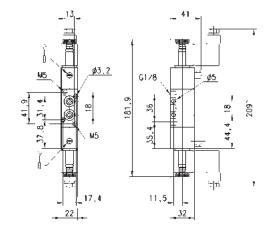


Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
358-011-02	5/2	700	1,5 ÷ 10	-	EV23
358-E11-02	5/2	700	-0,9 ÷ 10	1,5 ÷ 10	EV25

5/3-way solenoid valve, G1/8, - Mod. 368... Mod. 378... Mod. 388...

CC = Centres Closed CO = Centres Open CP = Pressure Centres





Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
368-011-02	5/3 CC	700	2 ÷ 10	-	EV28
368-E11-02	5/3 CC	700	-0,9 ÷ 10	2 ÷ 10	EV29
378-011-02	5/3 CO	700	2-10	-	EV32
378-E11-02	5/3 CO	700	-0,9 ÷ 10	2 ÷ 10	EV34
388-011-02	5/3 CP	700	2 ÷ 10	-	EV36
388-E11-02	5/3 CP	700	-0,9 ÷ 10	2 ÷ 10	EV37

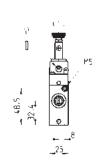


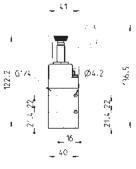
#### 3/2-way solenoid valve, G1/4, monostable - Mod. 334... Mod 344...

These solenoid valves, which have electropneumatic actuation and spring return, are available in the NC (closed) or NO (open) version.









CONTROL

2

Mod.	Mounting	Function	Flow rate (NI/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
334-015-02	in-line	3/2 NC	1300	2.5 ÷ 10	-	EV10
334-E15-02	in-line	3/2 NC	1300	-0.9 ÷ 10	2.5 ÷ 10	EV11
344-015-02	in-line	3/2 NO	1300	2.5 ÷ 10	-	EV12
344-E15-02	in-line	3/2 NO	1300	-0.9 ÷10	2.5 ÷ 10	EV13

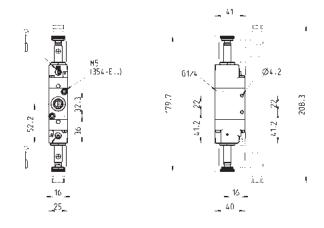
3/2-way solenoid valve, G1/4, bistable - Mod. 334...



These solenoid valves, which have electropneumatic actuation and return assume the NC (closed) or NO (open) position depending on ther last pulse received.





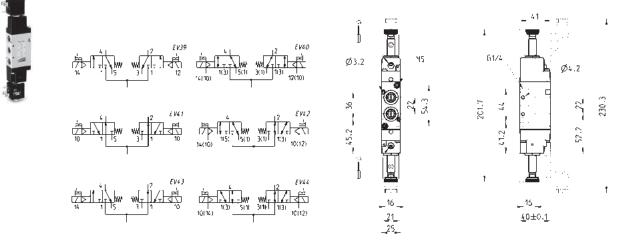


Mod.	Mounting	Function	Flow rate (NI/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
334-011-02	in-line	3/2	1300	1.5 ÷ 10	-	EV14
334-E11-02	in-line	3/2	1300	-0.9 ÷ 10	2.5 ÷ 10	EV15



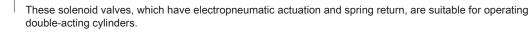
2 x 3/2-way solenoid valve, G1/4 Mod. 334D... 344D... and 394D...

These solenoid valves are available in versions with 2 x 3/2 valves in the same valve.

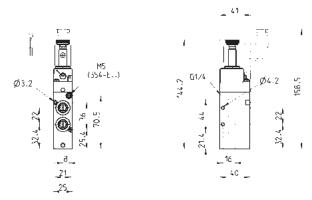


Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
334D-015-02	2 x 3/2 NC	1200	2,5 ÷ 10	-	EV39
344D-015-02	2 x 3/2 NO	1050	2,5 ÷ 10	-	EV41
334D-E15-02	2 x 3/2 NC	1200	-0,9 ÷ 10	2,5 ÷ 10	EV40
344D-E15-02	2 x 3/2 NO	1050	-0,9 ÷ 10	2,5 ÷ 10	EV44
394D-015-02	1 x 3/2 NC + 1 x 3/2 NO	1050	2 ÷ 10	-	EV43
394D-E15-02	1 x 3/2 NC + 1 x 3/2 NO	1050	-0,9 ÷ 10	2,5 ÷ 10	EV42

5/2-way solenoid valve, G1/4, monostable - Mod. 354...







Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
354-015-02	5/2	1300	2,5 ÷ 10	-	EV18
354-E15-02	5/2	1300	-0,9 ÷ 10	2,5 ÷ 10	EV19

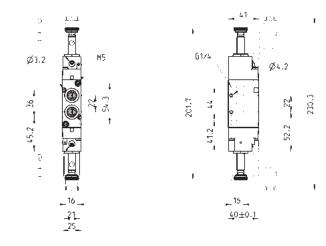
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These solenoid valves, which have electropneumatic actuation and spring return, are suitable for operating double-acting cylinders.



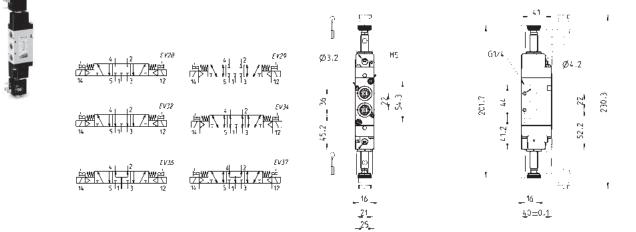
EV23 E 125 Æ



Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
354-011-02	5/2	1300	1,5 ÷ 10	-	EV23
354-E11-02	5/2	1300	-0,9 ÷ 10	2,5 ÷ 10	EV25

5/3-way solenoid valve, G1/4, - Mod. 364... Mod. 374... Mod. 384...

CC = Centres Closed CO = Centres Open CP = Pressure Centres



Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
364-011-02	5/3 CC	1200	2,5 ÷ 10	-	EV28
364-E11-02	5/3 CC	1200	-0,9 ÷ 10	2,5 ÷ 10	EV29
374-011-02	5/3 CO	1200	2,5 ÷ 10	-	EV32
374-E11-02	5/3 CO	1200	-0,9 ÷ 10	2,5 ÷ 10	EV34
384-011-02	5/3 CP	1200	2,5 ÷ 10	-	EV36
384-E11-02	5/3 CP	1200	-0,9 ÷ 10	2,5 ÷ 10	EV37

2

CONTROL

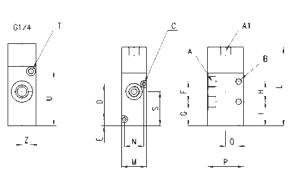
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CATALOGUE > Release 8.7



#### 3/2-way valve, G1/8 or G1/4, monostable





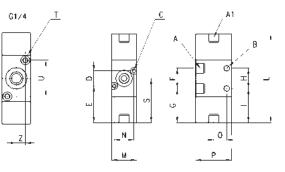


Mod.	Mounting	Function	Flow rate (NI/min) N	/lin. pilot pressure (bar) W	orking pressure (bar)	А	A1	В	С	D	Е	F	G	Н	I	L	М	Ν	0	Ρ	S	Т	U	Ζ
338-035	in-line	3/2 NC	700	2.5	-0.9 ÷ 10	G1/8	G1/8	5	3.2	-	5.7	18 2	1.4 <i>°</i>	18 2	1.4	69.8	22	-	11.5	32	30.4	-	-	-
338L-035	on manifold	3/2 NC	700	2.5	-0.9 ÷ 10	G1/8	G1/8	-	3.2 3	31.4	5.7	18 2	1.4	- 2	1.4	69.8	22	17.4	11.5	32	30.4	-	-	-
334-035	in-line	3/2 NC	1300	3	-0.9 ÷ 10	G1/4	-	4.1	-	-	-	22 2	1.4 2	22 2	1.4	73	25	-	16	40	32.4	M5	48.5	8



3/2-way valve, G1/8 or G1/4, bistable

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																							_
DIMENSIC	ONS																						
Mod.	Mounting	Function	Flow rate (NI/min) Min	n. pilot pressure (bar)	) Working pressure (bar)	А	A1	В	С	D	Е	F	G	Н	Ι	L	М	Ν	0	Ρ	S	тι	JΖ
338-033	in-line	3/2	700	1.5	-0.9 ÷ 10	G1/8	G1/8	5	-	-	-	18 3	30.4	18 3	30.4	78.8	22	-	11.5	32 4	1.7		
338L-033	on manifold	3/2	700	1.5	-0.9 ÷ 10	G1/8	G1/8	5 3	3.2	13.4	32.7	18 3	30.4	- 3	30.4	78.8	22 1	17.4	-	32 4	1.7		
334-033	in-line	3/2	1300	2.5	-0.9 ÷ 10	G1/4	-	4.1	-	-	-	22 2	29.7	22 2	29.7	81.3	25	-	16	40 4	0.7	M5 ·	

12(10)

#### 5/2-way valve, G1/8 or G1/4, monostable

In-line or manifold mounting



G1/4 C A1 i []в ۲ đ æ Δ т Ó e Ś N. 0 <u>р</u> \_ M \_



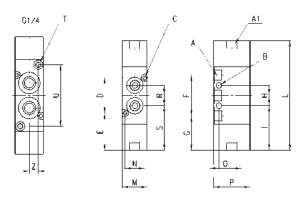
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DIMENS	IONS																						
Mod.	Function	Flow rate (NI/min)	min pilot pressure (bar)	Working pressure (bar)	А	A1	В	С	D	Е	F	G	Н	Ι	L	М	Ν	0	Ρ	S	Т	U	Ζ
358-035	5/2	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	23,8	36	21,4	18	30,4	87,8	22	17,4	11,5	32	30,4	-	-	-
354-035	5/2	1300	3	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	25,4	44	21,4	22	30,4	95	25	21	16	40	32,4	M5	70,5	; 8



In-line or manifold mounting

5/2-way valve, G1/8 or G1/4, bistable

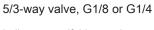




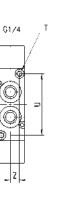
DIMENS	IONS																						
Mod.	Function	Flow rate (NI/min)	min. pilot pressure (bar)	Working pressure (bar)	А	A1	В	С	D	Е	F	G	Н	Ι	L	М	Ν	0	Ρ	S	Т	U	Z
358-033	5/2	700	1,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	-
354-033	5/2	1300	2,5	-0,9 ÷ 10	G1/4		4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	38

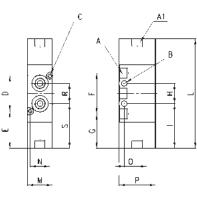


CONTROL



In-line or manifold mounting





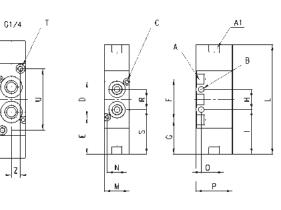


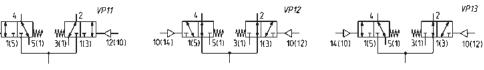
#### DIMENSIONS

Mod.	Function	Flow rate (NI/min)	Min. pilot press. (bar)	Working pressure (bar)	Α	A1	В	С	D	E	F	G	Н	I	L	М	Ν	0	Ρ	S	Т	U	ZS	Symbol
368-033	5/3 CC	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	-	VP08
364-033	5/3 CC	1200	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	8	VP08
378-033	5/3 CO	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	-	VP09
374-033	5/3 CO	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	8	VP09
388-033	5/3 CP	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	-	VP10
384-033	5/3 CP	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	8	VP10

#### 2 x 3/2-way valve, G1/8 or G1/4

In-line or manifold mounting





DIMENSIONS
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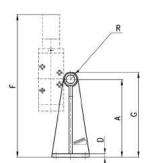
Dimentore																						
Mod.	Function	Flow rate (NI/min) r	nin. pilot press. (ba	r) Working pressure (bar)	А	A1	В	С	D	Е	F	G	нι	L	М	Ν	0	Ρ	S	Т	υź	Z Symbo
338D-035	2x3/2 NC	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2 3	31,4	32,8	36 3	0,4 <sup>-</sup>	18 39,4	96,8	22	17,4	11,5	32	39,4	-		- VP11
334D-035	2x3/2 NC	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44 2	9,7 2	22 40,7	103,3	3 25	21	16	40	40,7	M5	54,3 8	8 VP11
348D-035	2x3/2 NO	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36 3	80,4 <sup>-</sup>	18 39,4	96,8	22	17,4	11,5	32	39,4	-		- VP12
344D-035	2x3/2 NO	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44 2	9,7 2	22 40,7	103,3	3 25	21	16	40	40,7	M5	54,3 8	3 VP12
398D-035	2x3/2 NC/NC	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36 3	0,4 <sup>-</sup>	18 39,4	96,8	22	17,4	11,5	32	39,4	-		- VP13
394D-035	2x3/2 NC/NC	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44 2	9,7 2	22 40,7	103,3	3 25	21	16	40	40,7	M5	54,3 8	8 VP13

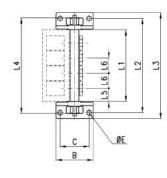
14(10)



### Manifold bars with separate exhausts (low version)

- The following is supplied:
- 2x feet 1x manifold
- 1x inlet fitting
- 1x plug
- 4x washers





DIMENSIONS																
Mod.	Nr of valves	А	В	С	D	ØE	F	G	R	L1	L2	L3	L4	L5	L6	Suitable for Series
CNV-318-2	2	73	56	44	5	7	178	83	G1/4	63	97	115	99	20	23	3 - G1/8
CNV-318-3	3	73	56	44	5	7	178	83	G1/4	86	120	138	119	20	23	3 - G1/8
CNV-318-4	4	73	56	44	5	7	178	83	G1/4	109	143	161	142	20	23	3 - G1/8
CNV-318-5	5	73	56	44	5	7	178	83	G1/4	132	166	184	165	20	23	3 - G1/8
CNV-318-6	6	73	56	44	5	7	178	83	G1/4	155	189	207	188	20	23	3 - G1/8

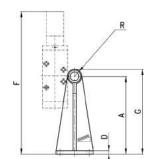
The fixing screws of the valves mod. 1635-01 and the washers mod. 2661 must be ordered separately.

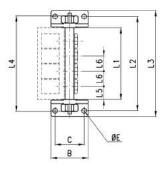


#### Manifold bars with separate exhausts (high version)

The following is supplied: 2x feet 1x manifold

- 1x inlet fitting
- 1x plug 4x washers





DIMENSIONS																
Mod.	Nr of valves	А	В	С	D	ØE	F	G	R	L1	L2	L3	L4	L5	L6	Suitable for Series
CNV-328-2	2	118	56	44	5	7	223	128	G1/4	63	97	115	99	20	23	3 - G1/8
CNV-328-3	3	118	56	44	5	7	223	128	G1/4	86	120	138	119	20	23	3 - G1/8
CNV-328-4	4	118	56	44	5	7	223	128	G1/4	109	143	161	142	20	23	3 - G1/8
CNV-328-5	5	118	56	44	5	7	223	128	G1/4	132	166	184	165	20	23	3 - G1/8
CNV-328-6	6	118	56	44	5	7	223	128	G1/4	155	189	207	188	20	23	3 - G1/8

The fixing screws of the valves mod. 1635-01 and the washers mod. 2661 must be ordered separately.

2

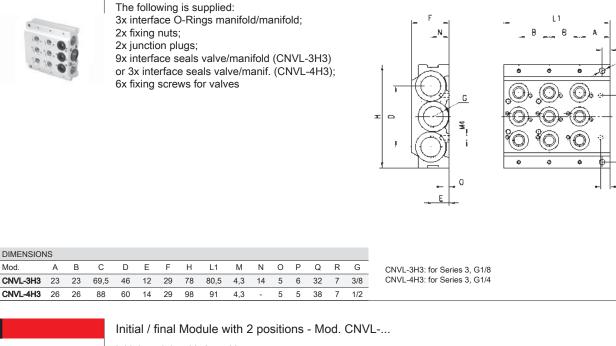
#### CATALOGUE > Release 8.7



CONTROL

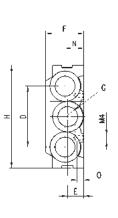
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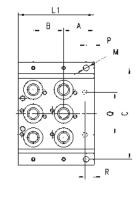
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Initial / final Module with three positions - Mod. CNVL-...

Initial module with 2 positions The following is supplied: 3x interface O-Rings manifold/manifold; 2x fixing nuts; 2x junction plugs; 6x interface seals valve/manifold (CNVL-3H2) or 2x interface seals valve/manif. (CNVL-4H2); 4x fixing screws for valves





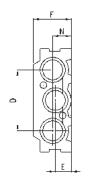
DIMENSION	IS															
Mod.	А	В	С	D	Е	F	Н	L1	М	Ν	0	Ρ	Q	R	G	- Cl
CNVL-3H2	23	23	69,5	46	12	29	78	57,5	4,3	14	5	6	32	7	3/8	С
CNVL-4H2	26	26	88	60	14	29	98	65	4,3	-	5	5	38	7	1/2	

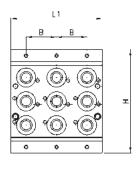
NVL-3H2: for Series 3, G1/8 NVL-4H2: for Series 3, G1/4



Intermediate module with 3 positions - Mod. CNVL-...

The following is supplied: 3x interface O-Rings manifold/manifold; 2x fixing nuts; 2x junction plugs; 9x interface seals valve/manifold (CNVL-3I3) or 3x interface seals valve/manif. (CNVL-4I3); 6x fixing screws for valves



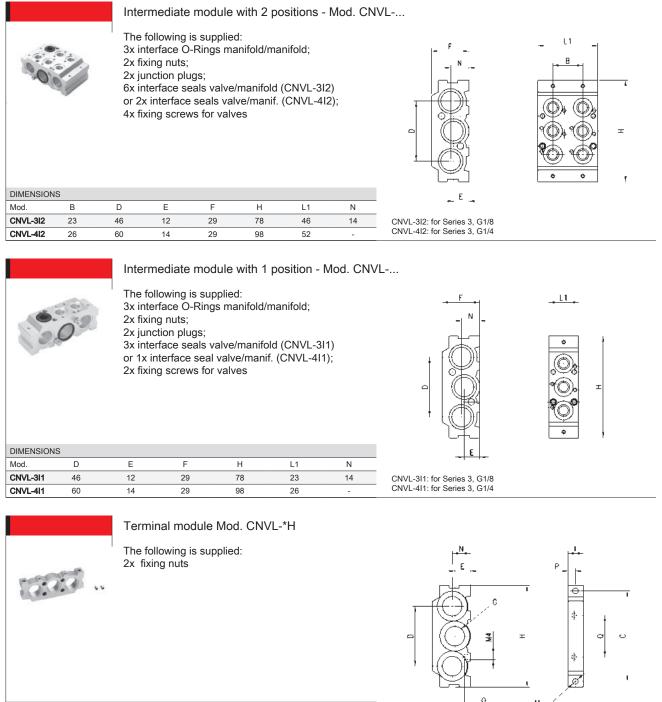


DIMENSION	S						
Mod.	В	D	E	F	Н	L1	N
CNVL-3I3	23	46	12	29	78	69	14
CNVL-4I3	26	60	14	29	98	78	-

CNVL-3I3: for Series 3, G1/8 CNVL-4I3: for Series 3, G1/4

Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com

CONTROL

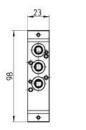


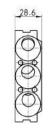
DIMENSIO	NS												
Mod.	С	D	Е	F	Н	I	М	Ν	0	Р	Q	G	· F
CNVL-3H	69,5	46	12	29	78	11,5	4,3	14	5	6	32	3/8	CNVL-3H: for Series 3, G1/8
CNVL-4H	88	60	14	29	98	13	4,3	-	5	8	29	1/2	CNVL-4H: for Series 3, G1/4
				-			-		5	8	-		

#### Interface module manifold between Series 3 G1/8 and G1/4



The following is supplied: 3x interface seal 2x screws 2x pins 4x plugs 6x O-Rings



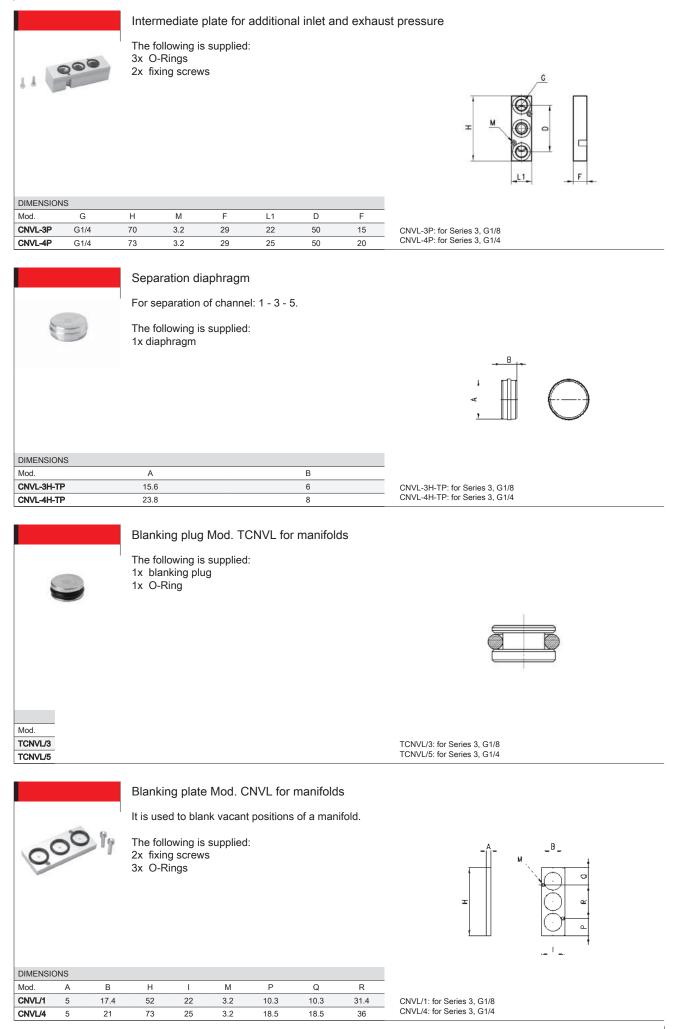


It is possible to seat 1 valve, series 3 with G1/8 port.

Mod.



CONTROL



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# Series 4 valves and solenoid valves

3/2, 5/2 and 5/3-way CC CO CP Ports G1/8 - G1/4 - G1/2



Series 4 solenoid valves have been designed in the 3/2, 5/2, 5/3 versions and with the following two devices of actuation:

- electropneumatically actuated with mechanical spring return

- electropneumatically actuated and

return with external and internal air pressure supply



Series 4 valves are equipped with a manual override which allows a stable operation and they are particularly suitable for mounting in arduous conditions.

All these valves can be operated by solenoids Series U, G A8 and H8. Moreover, valves with ports G1/2 only can be supplied with solenoids Series A6 (32x32).

Pneumatically actuated valves 3/2 NC become NO when the supply is on connection 3.

### **GENERAL DATA**

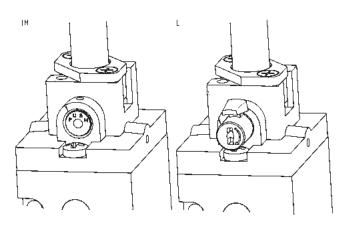
Construction	balanced spool type
Valve functions	3/2 - 5/2 - 5/3-way CC CO CP
Materials	AL body, spool and bases, technopolymer end cover, NBR PU seals
Ports	G1/8 - G1/4 - G1/2
Installation	in any position
Operating temperature	0 ÷ 60°C (with dry air at -20°C)
Operating pressure	see table
Fluid	filtered air, without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should never be interrupted.



4	5 4 - 015 - 22 - U7 7
4	SERIES
5	NUMBER OF WAYS - POSITIONS: 3 = 3/2 NC 4 = 3/2 NO 5 = 5/2 6 = 5/3 CC 7 = 5/3 CO
4	PORTS: 8 = G1/8 4 = G1/4 2C = G1/2
015	ACTUATION: 011 = double solenoid (horizontal solenoids) V11 = double solenoid (vertical solenoids) for G1/4 port only 015 = single solenoid, spring return (horizontal solenoid) for G1/4 port only 016 = single solenoid, pneumatic spring return (vertical solenoid) for G1/4 port only 016 = single solenoid, pneumatic spring return (vertical solenoid) for G1/4 port only 33 = pneumatic pneumatic 34 = pneumatic differential 35 = pneumatic spring
22	SOLENOID INTERFACE:: 22 = mech. sol. 22 x 22 50 = mech. sol. 32 x 32 (G1/2 only)
U7	ENCAPSULATING MATERIAL / SOLENOID DIMENSIONS: A6 = PPS / 32 x 32 (G1/2 only) A8 = PPS / 30 x 30 G7 = PA / 22 x 22 G8 = PA / 30 x 30 (24 V DC only) G9 = PA / 22 x 58 H8 = PA 6 V0 / 30 x 30 U7 = PET / 22 x 22
7	SOLENOID VOLTAGE: see solenoids section on page 2.2.35.01
	TYPE OF MANUAL OVERRIDE: = bistable, standard IL = bistable, lever type (available on demand) IM = monostable (available on demand)

TYPES OF MANUAL OVERRIDE

Example of solenoid valve with a bistable standard manual override.



Example of solenoid monostable valve (IM) and bistable valve with a lever type manual override (IL). Both versions are available on demand. To order them it is necessary to add IM or IL at the end of the code. Code ex.: 454-015-22-U77IL.

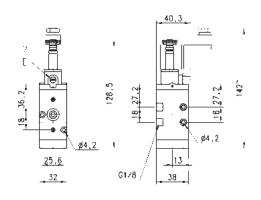
CONTROL



#### 3/2-way solenoid valve G1/8, monostable - Mod. 438... and 448...



These solenoid valves, which have electropneumatic actuation and spring return, are available in the NC (closed) or NO (open) version.

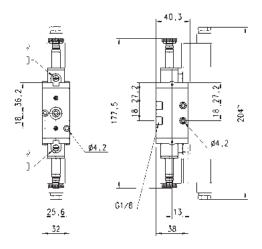




Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
438-015-22	3/2 NC	650	2,5 ÷ 10	EV10
438-016-22	3/2 NC	650	2,5 ÷ 10	EV16
448-015-22	3/2 NO	650	2,5 ÷ 10	EV12
448-016-22	3/2 NO	650	2,5 ÷ 10	EV17

3/2-way solenoid valve G1/8, bistable - Mod. 438-011...

These solenoid valves, which have electropneumatic actuation and return, assume the NC (closed) or NO (open) operating status depending on the last pulse received.



Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	
438-011-22	3/2	650	2 ÷ 10	

EV 14

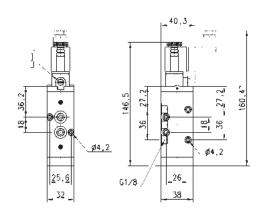
**2**/2.15.03

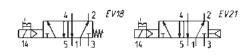


CONTROL

## 5/2-way solenoid valves, G1/8, monostable - Mod 458...

These solenoid valves, which have electropneumatic actuation and spring return, are suitable for operating double-acting cylinders.



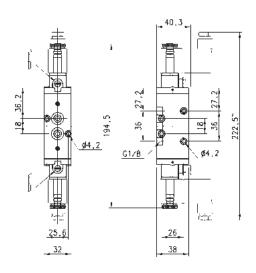


Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
458-015-22	5/2	650	2,5 ÷ 10	EV18
458-016-22	5/2	650	2,5 ÷ 10	EV21

5/2-way solenoid valves, G1/8, bistable - Mod 458-011...

These solenoid valves, with electropneumatic actuation and return, are suitable for operating double-acting cylinders.

EV23

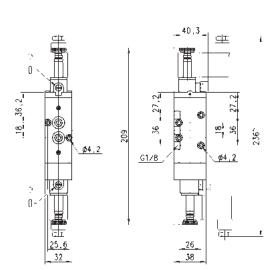


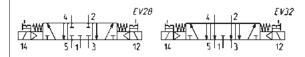
Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)
458-011-22	5/2	650	2 ÷ 10

CC = Centres Closed CO = Centres Open

#### 5/3-way solenoid valve, G1/8 - Mod. 468-011... and 478-011...

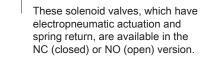


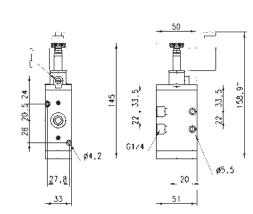


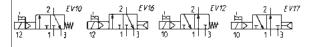


Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
468-011-22	5/3 CC	600	2 ÷ 10	EV28
478-011-22	5/3 CO	600	2 ÷ 10	EV32

#### 3/2-way solenoid valve, G1/4, monostable Mod. 434 and Mod. 444





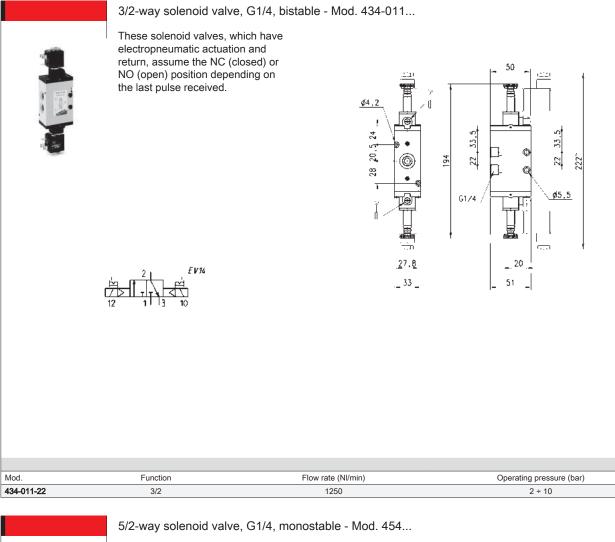


Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
434-015-22	3/2 NC	1250	2 ÷ 10	EV10
434-016-22	3/2 NC	1250	2 ÷ 10	EV16
444-015-22	3/2 NO	1250	2 ÷ 10	EV12
444-016-22	3/2 NO	1250	2 ÷ 10	EV17

2



CONTROL



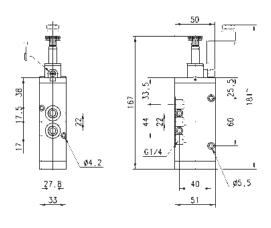


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These solenoid valves, which have electropneumatic actuation

EV21

and spring return, are suitable for operating double-acting cylinders.



Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
Mod. 454-015-22	Function 5/2	Flow rate (NI/min) 1250	Operating pressure (bar) 2,5 ÷ 10	Symbol EV18

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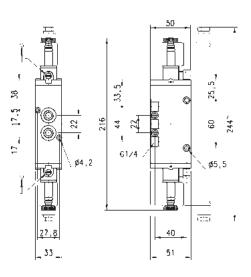
<u>J</u>w



CONTROL

5/2-way solenoid valve, G1/4, bistable - Mod. 454-011...

These solenoid valves, which have electropneumatic actuation and return, are suitable for operating double-acting cylinders.

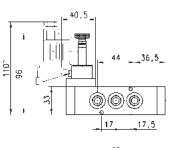


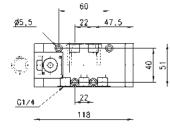
	41 12 EV23
Æ.∖	
14	5 1 1 3 12

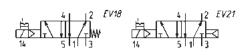
Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)
454-011-22	5/2	1250	2 ÷ 10

5/2-way solenoid valve, G1/4, monostable - Mod. 454-V...

These solenoid valves, which have electropneumatic actuation and spring or pneumatic spring return are suitable for operating double-acting cylinders.



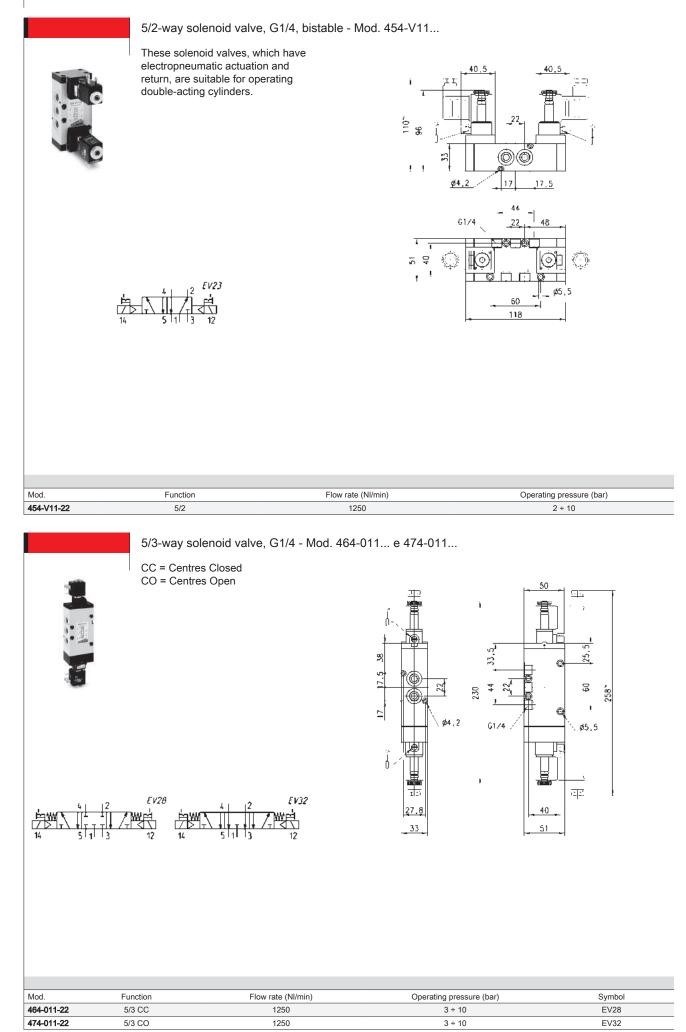




Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
454-V15-22	5/2	1250	2,5 ÷ 10	EV18
454-V16-22	5/2	1250	2,5 ÷ 10	EV21



CONTROL

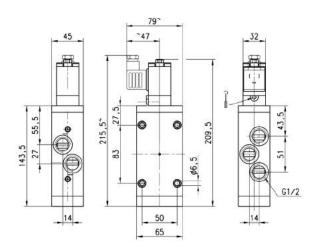


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CONTROL

5/2-way solenoid valve, G1/2, monostable - Mod. 452C...

These solenoid valves, which have electropneumatic actuation and spring or pneumatic spring return are suitable for operating doubleacting cylinders.



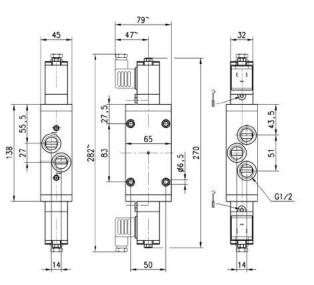


Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)	Symbol
452C-015-50-A6*	5/2	2500	2,5 ÷ 10	EV18
452C-016-50-A6*	5/2	2500	2,5 ÷ 10	EV21

5/2-way solenoid valve, G1/2, bistable - Mod. 452C-011...



These solenoid valves, which have electropneumatic actuation and return, are suitable for operating double-acting cylinders.



	4	I	2	EV23
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14	5	1	3	12

Mod.	Function	Flow rate (NI/min)	Operating pressure (bar)
452C-011-50-A6*	5/2	2500	2 ÷ 10

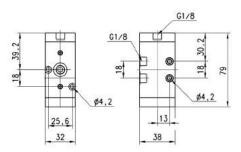
CATALOGUE > Release 8.7

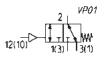


CONTROL

## 3/2-way valve, G1/8 port, monostable



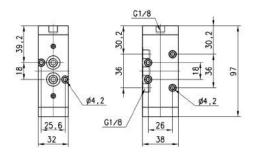




Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)
438-35	in-line/on manifold	3/2 NC	700	2.5	-0.9 ÷ 10



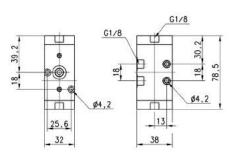
#### 5/2-way valve, G1/8 port, monostable

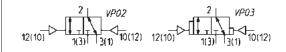


		2 <i>VP04</i>			
Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)
	in-line/manifold	5/2	700	2.5	-0.9 ÷ 10

### 3/2-way valve, G1/8 port, bistable

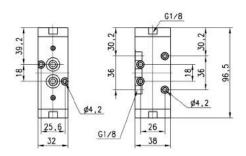


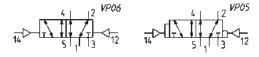




Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
438-33	in-line/on manifold	3/2	700	2	-0.9 ÷ 10	VP02
438-34	in-line/on manifold	3/2	700	2	-0.9 ÷ 10	VP03

## 5/2-way valve, G1/8 port, bistable





Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
458-33	in-line/on manifold	5/2	700	2	-0.9 ÷ 10	VP06
458-34	in-line/on manifold	5/2	700	2	-0.9 ÷ 10	VP05

2

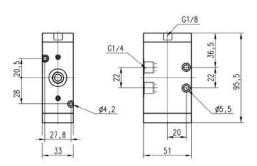
CATALOGUE > Release 8.7

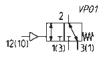


CONTROL

## 3/2-way valve, G1/4 port, monostable





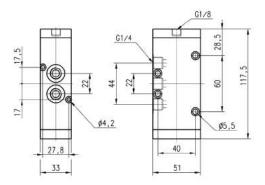


Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)
434-35	in-line/on manifold	3/2 NC	1250	2.5	-0.9 ÷ 10



#### 5/2-way valve, G1/4 port, monostable

VP04



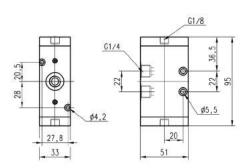
Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)

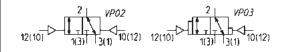
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CONTROL

### 3/2-way valve, G1/4 port, bistable



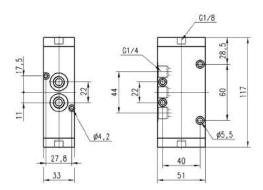




Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
434-33	in-line/on manifold	3/2 NC	1250	2	-0.9 ÷ 10	VP02
434-34	in-line/on manifold	3/2 NC	1250	2	-0.9 ÷ 10	VP03



#### 5/2-way valve, G1/4 port, bistable



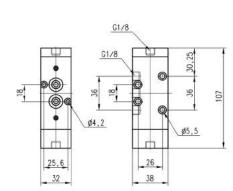
4     2 VP06	4   2 VP05

Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
454-33	in-line/on manifold	5/2	1250	2	-0.9 ÷ 10	VP06
454-34	in-line/on manifold	5/2	1250	2	-0.9 ÷ 10	VP05



## 5/3-way C.C. valve, G1/8, monostable, with central stable position

CC = Centres Closed





Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)
468-33	in-line/on manifold	5/3 CC	700	2.5	-0.9 ÷ 10

#### 5/3-way CC CO valve, G1/4, monostable, central stable position

VP09

\$<u>−</u>12

W



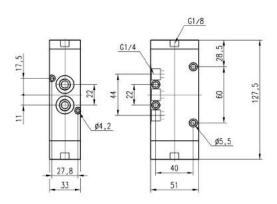
14 W

CC = Centres Closed CO = Centres Open

VP08

12

**7W** 

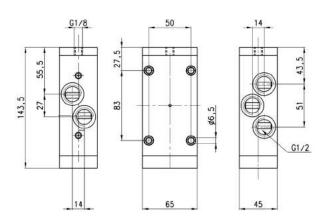


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Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
464-33	in-line/on manifold	5/3 CC	1250	2.5	-0.9 ÷ 10	VP08

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## 5/2-way valve, G1/2 port, monostable

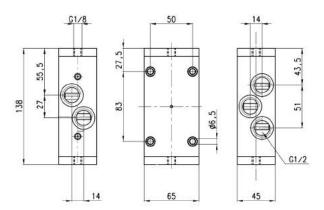






Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)
452C-35	in-line 5/2		2500	2.5	-0.9 ÷ 10

5/2-way valve, G1/2 port, bistable



4    2 VP06	4     2 VP05

Mod.	Mounting	Function	Flow rate (NI/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
452C-33	in-line	5/2	2500	2	-0.9 ÷ 10	VP06
452C-34	in-line	5/2	2500	2	-0.9 ÷ 10	VP05

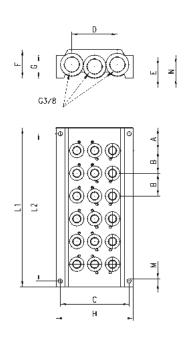


CONTROL

## Manifold base with common exhausts

For valves Series 4, G1/8 (3/2, 5/2 or 5/3-way) The following is supplied with:

- 1x manifold
- 1x pair of fixing screws for valve position
- 1x interface seal for valve positions
- 2x guides for valve position



DIMENSIONS												
Mod.	А	В	С	D	Е	F	G	Н	L1	L2	М	Ν
CNVL-42	28	33	69,5	46	12	29	23,5	78	89	77	4,3	14
CNVL-43	28	33	69,5	46	12	29	23,5	78	122	110	4,3	14
CNVL-44	28	33	69,5	46	12	29	23,5	78	155	143	4,3	14
CNVL-45	28	33	69,5	46	12	29	23,5	78	188	176	4,3	14
CNVL-46	28	33	69,5	46	12	29	23,5	78	221	209	4,3	14

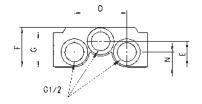


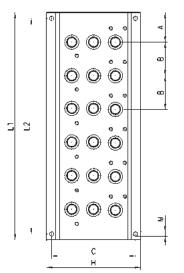
#### Manifold base with common exhausts

For valves Series 4, G1/4 (3/2, 5/2 or 5/3-way) The following is supplied :

1x manifold

- 1x pair of fixing screws for valve position
- 1x interface seal for valve positions
- 2x guides for valve position





DIMENSIC	NS											
Mod.	А	В	С	D	Е	F	G	Н	L1	L2	М	N
CNVL-52	30	34	84,5	53	26	40	35	95	94	82	4,3	15
CNVL-53	30	34	84,5	53	26	40	35	95	128	116	4,3	15
CNVL-54	30	34	84,5	53	26	40	35	95	162	150	4,3	15
CNVL-55	30	34	84,5	53	26	40	35	95	196	184	4,3	15
CNVL-56	30	34	84.5	53	26	40	35	95	230	218	4.3	15

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### Blanking plug Mod. TCNVL for manifolds



The following is supplied: 1x blanking plug 1x O-Ring

TCNVL/3: for Series 4, G1/8 TCNVL/5: for Series 4, G1/4

CNVL/2: for Series 4, G1/8 CNVL/3: for Series 4, G1/4

Mod.

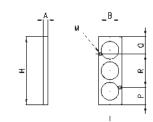
TCNVL/3 TCNVL/5

#### Blanking plate Mod. CNVL for manifolds

It is used to blank vacant positions of a manifold.



The following is supplied: 2x fixing screws 3x O-Rings



DIMENSIO	DIMENSIONS											
Mod.	А	В	Н	I	М	Р	Q	R				
CNVL/2	5	25.6	52	32	4.2	17	17	18				
CNVL/3	5	27.8	70	32.5	4.2	7.5	3.5	59				



# Series 9 valves and solenoid valves

5/2 and 5/3-way CC CO Sizes 1 - 2 - 3 According to the standard ISO 5599/1



Series 9 electropneumatically or pneumatically operated valves have been designed with sizes 1, 2 and 3, as recommended by the ISO Standards. The ease of pneumatic and electrical wiring makes these valves extremely flexible.

GENERAL DATA	
Operating pressure	max. press. 10 bar (for minimum pressures see descriptions)
Nominal pressure	6 bar
Nominal flow	ISO 1 = 900 NI/min ISO 2 = 1610 NI/min ISO 3 = 4350 NI/min
Operating temperature	0 ÷ 60°C (with dry air at -20°C)
Fluid	filtered air, without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil and to never interrupt the lubrication.
Electropneumatic interface	according CNOMO Standards

2

CONTROL

9 5	5 1 - 000 - P16 - 23 - U7 7											
9	SERIES											
5	NUMBER OF WAYS - POSITIONS: 5 = 5/2 6 = 5/3 CC 7 = 5/3 CO											
1	SIZE: 1 = size 1 2 = size 2 3 = size 3											
000	BODY DESIGN: 000 = valve body											
P 16												
23	SOLENOID INTERFACE: 23 = A531 - BC2 (Cnomo norm)											
U7	SOLENOID MATERIAL / SOLENOID DIMENSIONS: A8 = PPS / 30 x 30 G7 = PA / 22 x 22 G8 = PA / 30 x 30 (24 V DC only) G9 = PA / 22 x 58 H8 = PA 6 V0 / 30 x 30 U7 = PET / 22 x 22											
7	SOLENOID VOLTAGE: see the solenoids section on page 2.2.35.01											

CONTROL

2/2.20.02



#### 5/2-way solenoid valves, monostable - ISO 1, ISO 2, ISO 3

EV20

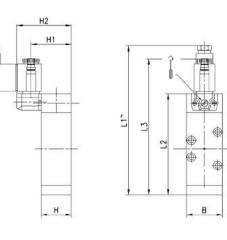
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Available with electropneumatic actuation and spring return, they are suitable for mounting on a sub-base.

The following is supplied: 1x interface seal 4x fixing screws

EV18





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DIMENSIONS
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DIMENSION										
Mod.	Size ISO	В	L1	L2	L3	Н	H1	H2	Min. operating pressure	Symbol
951-000-P15-23	1	38	153	108	146	32	43	58	2,5	EV18
952-000-P15-23	2	51	173	128	166	33	44	59	2,5	EV18
953-000-P15-23	3	65	218	173	211	45	56	71	2,5	EV18
951-000-P16-23	1	38	153	108	146	32	43	58	2,5	EV20
952-000-P16-23	2	51	173	128	166	33	44	59	2,5	EV20
953-000-P16-23	3	65	218	173	211	45	56	71	2,5	EV20

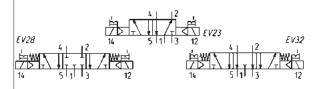
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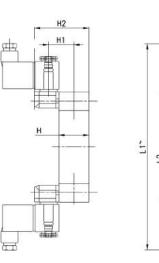
5/2-way, 5/3-way valves, bistable - ISO 1, ISO 2, ISO 3

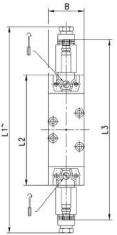


Available with electropneumatic actuation and return, they are suitable for mounting on a subbase.

The following is supplied: 1x interface seal 4x fixing screws







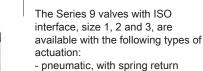
## DIMENSIONS

DIVIENSIONS										
Mod.	Size ISO	В	L1	L2	L3	Н	H1	H2	Min. operating pressure	Symbol
951-000-P11-23	1	38	208	118	194	32	43	58	2,5	EV23
952-000-P11-23	2	51	228	138	214	33	44	59	2,5	EV23
953-000-P11-23	3	65	273	183	259	45	56	71	2,5	EV23
961-000-P11-23	1	38	208	118	194	32	43	58	2,5	EV28
962-000-P11-23	2	51	228	138	214	33	44	59	2,5	EV28
963-000-P11-23	3	65	273	183	259	45	56	71	2,5	EV28
971-000-P11-23	1	38	208	118	194	32	43	58	2,5	EV32
972-000-P11-23	2	51	228	138	214	33	44	59	2,5	EV32
973-000-P11-23	3	65	273	183	259	45	56	71	2,5	EV32

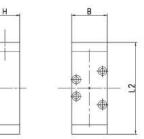
Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com.



#### 5/2 -way valves, monostable, bistable - ISO 1, ISO 2, ISO 3



- pneumatic actuation and
- differential return
- pneumatic actuation and return



The following is supplied: 1x interface seal 4x fixing screws

2



#### DIMENSIONS

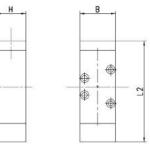
DIVIENDICINO						
Mod.	Size ISO	В	L2	Н	Min. operating pressure	Symbol
951-000-35	1	38	98	32	2,5	VP04
952-000-35	2	51	118	33	2,5	VP04
953-000-35	3	65	163	45	2,5	VP04
951-000-34	1	38	98	32	2	VP05
952-000-34	2	51	118	33	2	VP05
953-000-34	3	65	163	45	2	VP05
951-000-33	1	38	98	32	2	VP06
952-000-33	2	51	118	33	2	VP06
953-000-33	3	65	163	45	2	VP06

5/3-way valve, monostable, with stable central position - ISO 1, 2, 3

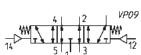


The Series 9 valves with ISO interface, size I, 2 and 3, are available with pneumatic actuation and central resetting by a spring. There are two types of function: - with closed centres - with open centres

The following is supplied: 1x interface seal 4x fixing screws



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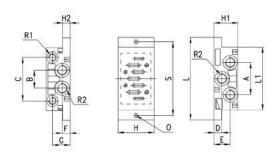
DIMENS	

DIVIENSIONS						
Mod.	Size ISO	В	L2	Н	Min. operating pressure	Symbol
961-000-33	1	38	108	32	2,5	VP08
962-000-33	2	51	128	33	2,5	VP08
963-000-33	3	65	173	45	2,5	VP08
971-000-33	1	38	108	32	2,5	VP09
972-000-33	2	51	128	33	2,5	VP09
973-000-33	3	65	173	45	2,5	VP09



#### Single sub-base side outlets (VDMA 24345)



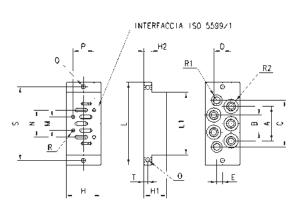


#### DIMENSIONS

Mod.	Size	А	В	С	D	Е	F	G	Н	H1	H2	L	L1	0	R1	R2	S
901-F1A	1	43	24	58	10.5	21.5	10.5	23.5	48	32	10	110	84	5.5	G1/8	G1/4	98
902-F2A	2	56	30	74	14	26	14	30	57	40	13	124	95	6.5	G1/8	G3/8	112
903-F3A	3	68	32	90	17	17	17	22	71	32	18	149	119	6.5	G1/8	G1/2	136



Single sub-base with rear outlets (VDMA 24345)



## DIMENSIONS

Mod.	Size	А	В	С	D	Е	Н	H1	H2	L	L1	М	Ν	0	Ρ	R	R1	R2	S	Т
901-G1A	1	46	23	61	23	7.5	46	30	10	110	84	18	36	5.5	28	M5	G1/8	G1/4	98	5
902-G2A	2	56	28	72	28	8	56	35	13	124	95	24	48	6.5	38	M6	G1/8	G3/8	112	6.5
903-G3A	3	68	34	90	34	10	71	32	18	149	119	32	64	6.5	48	M8	G1/8	G1/2	136	9



Manifold sub-base with com. exhausts and inlet (VDMA 24345)

The following is supplied: 2x fixing screws 3x O-ring

V2 H V2	D
	<u>R2</u>
	P3  P1

#### DIMENSIONS Size B C H H1 L L1 O P1 P2 P3 P4 R1 V V1 V2 Mod. R2 R3 S 901-C1A 1 26 8.5 43 44 110 85 5.5 1.5 3 7.5 71 G1/8 G1/4 M5 95 8 8 6 902-C2A 30 9 56 45 135 100 6.5 5 3 6 86 G1/8 G3/8 M6 115 11 11 8 2 903-C3A 3 38 10 71 54 190 140 9 6 3 8 130 G1/8 G1/2 M8 168 13 13 8

Note: complete with fixing screws and O-ring.

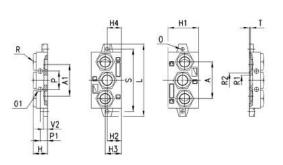
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2

## End block for manifold sub-base (VDMA 24345)



The following is supplied: 2x end blocks (1 pair) 2x fixing screws 3x OR



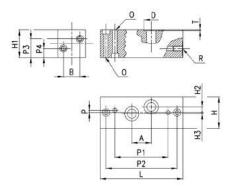
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DIMENS	SIONS																		
Mod.	Size	А	A1	Н	H1	H2	H3	H4	L	0	01	Ρ	P1	R	ØR1	ØR2	S	Т	V2
901-H1	1	56	48	22	46	22	25	22	110	5,5	7	28	11	G3/8	15	22,1	95	2	6
902-H2	2	68	63	26	47	23	25	24	135	6,5	9	35	13	G1/2	18,5	28,7	115	2	8
903-H3	3	104	94	30	56	22	25	25	190	9	12	52	15	G1	28	38	168	2,7	8

#### Interface with front outlets (VDMA 24345)



The following is supplied: 2x fixing screws 2x OR

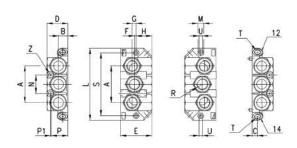


DIMENS	SIONS																
Mod.	Size	А	В	D	Н	H1	H2	H3	L	0	Ρ	P1	P2	P3	P4	R	Т
901-N1	1	26	22	19	42	37	7.5	1.5	110	5.5	3	71	95	25	12	G1/4	1.4
902-N2	2	30	29	23	55	40	6	5	135	6.5	3	86	115	26	14	G3/8	1.4
903-N3	3	38	36	27	70	45	8	6	190	9	3	130	168	29	17	G1/2	1.4



#### End blocks for manifold bases with front outlets

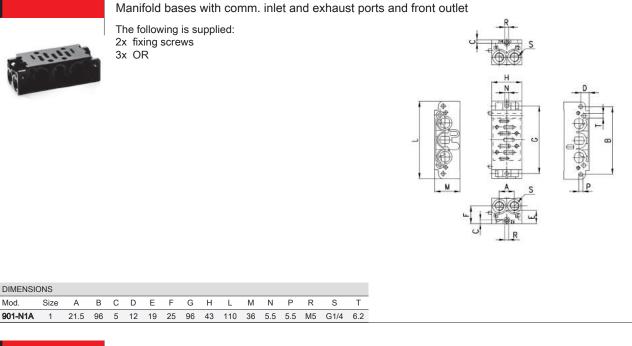
The following is supplied: 2x end blocks (1 pair) 2x fixing screws 3x OR



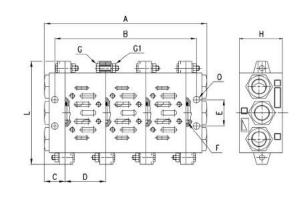
DIMENSI	ONS																		
Mod.	Size	Α	В	С	D	Е	F	G	Н	L	М	Ν	Р	P1	R	S	Т	U	Z
901-HN1	1	56	14.5	8	32	48	2.5	6	24	110	9	28	25.5	1	3/8"	96	G1/8	5,5	3,5



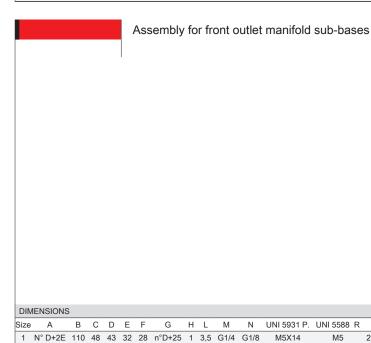
CONTROL

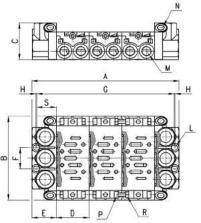


Assembly of manifold sub-base (VDMA 24345)



DIM	ENSIONS										
Size	А	В	С	D	Е	F OR	UNI 5739 G	UNI 57588 G1	Н	L	0
1	n°D+2C	n°D+C	22	43	28	3068	M5X20	M5	46	110	7
2	n°D+2C	n°D+C	26	56	35	3093	M6X25	M6	47	135	9
3	n°D+2C	n°D+C	30	71	52	4125	M8X25	M8	56	190	12





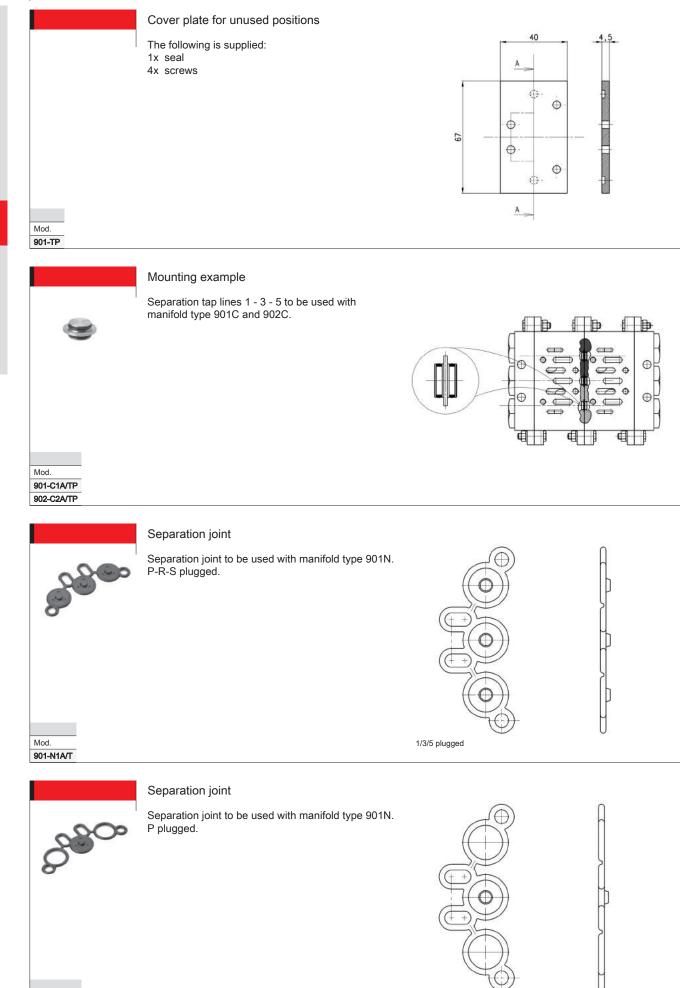
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M5

CONTROL



Mod.

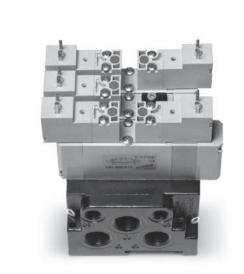
1 plugged



# Series 7 valves and solenoid valves

VDMA 24563 (ISO 15407-1) 5/2 - 5/3-way CC CO CP





Size 26 mm (VDMA 24563-01) Size 18 mm (VDMA 24563-02)

### **GENERAL DATA**

Construction       balanced spool type         Valve functions       5/2 - 5/3-way CC CO CP         Materials       AL body, spool base, polyamide endcovers, NBR seals         Mounting       by means of screws on the base         Ports       on sub-base         Operating temperature       0° C min. +50° C max         Fluid       filtered air (5 micron or less), without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should never be interrupted.         Size       26 mm 18 mm         Installation       in any position
Materials       AL body, spool base, polyamide endcovers, NBR seals         Mounting       by means of screws on the base         Ports       on sub-base         Operating temperature       0° C min. +50° C max         Fluid       filtered air (5 micron or less), without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should never be interrupted.         Size       26 mm 18 mm
Mounting       by means of screws on the base         Ports       on sub-base         Operating temperature       0° C min. +50° C max         Fluid       filtered air (5 micron or less), without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should never be interrupted.         Size       26 mm 18 mm
Ports       on sub-base         Operating temperature       0° C min. +50° C max         Fluid       filtered air (5 micron or less), without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should never be interrupted.         Size       26 mm 18 mm
Operating temperature       0° C min. +50° C max         Fluid       filtered air (5 micron or less), without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should never be interrupted.         Size       26 mm 18 mm
Fluid       filtered air (5 micron or less), without lubrication.         If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should never be interrupted.         Size       26 mm         18 mm       18 mm
If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should never be interrupted.         Size       26 mm 18 mm
18 mm
Installation in any position
Operating pressure P. max 7 bar
Nominal pressure 6 bar
Nominal flow Qn Size 26 mm = 900 NI/min Qn Size 18 mm = 450 NI/min
Voltage see coding
Voltage tolerance ± 10%
Power consumption 2W
Class of insulation class F
Protection IP54 (IP65 with connector DIN 40050)

CONTROL

7 5	5 1 - N 1 A - P16 - 15 - W 2 3
7	SERIES:
5	NUMBER OF WAYS - POSITIONS: 5 = 5/2 6 = 5/3 CC 7 = 5/3 CO 8 = 5/3 CP
1	SIZES: 1 = size 26 mm 2 = size 18 mm
Ν	SUBBASE: N = sub-base with front outlets
1	PORTS: 1 = G1/4 (Size 26 mm) 2 = G1/8 (Size 18 mm)
A	NUMBER OF SUBBASES: $A = 1^*$ $B = 2^*$ $C = 3^*$ $D = 4^*$ $E = 5^*$ $F = 6^*$ $G = 7^*$ $H = 8^*$ $K = 9^*$ $L = 10^*$ $M = 11^*$ $N = 12^*$ $P = 13^*$ $R = 14^*$ $S = 15^*$
P16	ACTUATION: 33 = pneumatic, bistable 36 = pneumatic, monostable P11 = electro-pneumatic, bistable P16 = electro-pneumatic, monostable
15	SOLENOID INTERFACE: 15 = 15x15
W	SOLENOID TYPES: W = Series W (24V - 48V DC only) P = Series P **
2	CONNECTION: 1 = wire 300 mm (Series W, 24V DC only) ** 2 = 2 pins (Series W, 24V - 48V DC) 5 = 2 pins+earth (Series P) **
3	SOLENOID VOLTAGE: 3 = 24V DC 4 = 48V DC ** 6 = 110V DC (with Series P solenoids only) ** B = 24V 50/60 Hz (with Series P solenoids only) ** C = 48V 50/60 Hz (with Series P solenoids only) ** D = 110V 50/60 Hz (with Series P solenoids only) **
	NOTES: * complete with the two end blocks ** on request



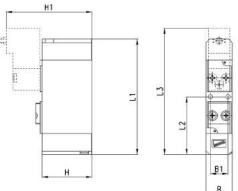
#### 5/2



5/2-way solenoid valve, ISO 26 mm - 18 mm monostable

The Series 7 solenoid valves with interface ISO 26 mm and 18 mm which have electropneumatic actuation and spring return are suitable for mounting on a subbase. For electrical actuation, 2 types of solenoid, Series W and Series P (available with a wide range of voltages, on request). Connector Mod. 126-800.

#### The following is supplied: 1x interface seal 2x fixing screws



#### DIMENSIONS

DIMENSIONS									
Mod.	Size ISO	В	B1	L1	L2	L3	Н	H1	Min. operating pressure
751-000-P16-15-W20	26 mm	26,5	19	99,7	49,85	98,8	39	64,3	3 bar
752-000-P16-15-W20	18 mm	18,5	12,5	82,2	41,1	90	35,2	60,5	3 bar

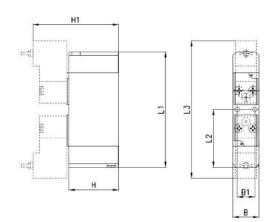
## 5/2-way solenoid valves, ISO 26 mm - 18 mm, bistable



The Series 7 solenoid valves with ISO 26 mm and 18 mm interface which have electropneumatic actuation and return are suitable for mounting on a sub-base. For electrical actuation, 2 types of solenoid Series W and Series P (available with a wide range of voltages, on request). Connector Mod. 126-800.

The following is supplied: 1x interface seal 2x fixing screws





DIMENSIONS									
Mod.	Size ISO	В	B1	L1	L2	L3	Н	H1	Min. operating pressure
751-000-P11-15-W20	26 mm	26,5	19	99,7	49,85	98,8	39	64,3	2 bar
752-000-P11-15-W20	18 mm	18,5	12,5	82,2	41,1	97,8	35,2	60,5	2 bar

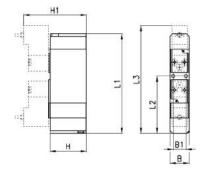


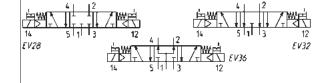
#### 5/3-way solenoid valves, ISO 26 mm - 18 mm



The Series 7 solenoid valves with ISO 26 mm - 18 mm interface which have electropneumatic actuation and spring return are suitable for mounting on a subbase. For electrical actuation, two types of solenoid Series W and Series P (are available with a large range of voltages, on request). Connector Mod. 126-800.

The following is supplied: 1x interface seal 2x fixing screws





DIMENSIONS										
Mod.	Size ISO	В	B1	L1	L2	L3	Н	H1	Min. operating pressure	Symbol
761-000-P11-15-W20	26 mm	26,5	19	111,7	61,85	110,8	39	64,3	3 bar	EV28
762-000-P11-15-W20	18 mm	18,5	12,5	96,7	55,6	104,5	35,2	60,5	3 bar	EV28
771-000-P11-15-W20	26 mm	26,5	19	111,7	61,85	110,8	39	64,3	3 bar	EV32
772-000-P11-15-W20	18 mm	18,5	12,5	96,7	55,6	104,5	35,2	60,5	3 bar	EV32
781-000-P11-15-W20	26 mm	26,5	19	111,7	61,85	110,8	39	64,3	3 bar	EV36
782-000-P11-15-W20	18 mm	18,5	12,5	96,7	55,6	104,5	35,2	60,5	3 bar	EV36

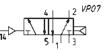
#### 5/2-way solenoid valves ISO 26 mm - 18 mm, monostable

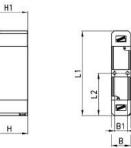


The Series 7 solenoid valves with ISO 26 mm and 18 mm interface which have pneumatic actuation and pneumatic spring return are suitable for mounting on a subbase.

For the correct use of the valve, the pilot pressure must be the same or higher than the operating pressure.

The following is supplied: 1x interface seal 2x fixing screws





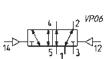
DIMENSIONS								
Mod.	Size ISO	В	B1	L1	L2	Н	H1	Min. operating pressure
751-000-36	26 mm	26,5	19	99,7	49,85	39	40,5	3 bar
752-000-36	18 mm	18,5	12,5	82,2	41,1	35,2	36,7	3 bar



## 5/2-way solenoid valves ISO 26 mm - 18 mm, bistable

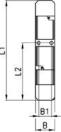
The Series 7 solenoid valves with ISO 26 mm and 18 mm interface which have pneumatic actuation and return are suitable for mounting on a sub-base.

The following is supplied: 1x interface seal 2x fixing screws





H1



CONTROL

2

#### DIMENSIONS

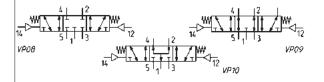
DIMENSIONS								
Mod.	Size ISO	В	B1	L1	L2	н	H1	Min. operating pressure
751-000-33	26 mm	26,5	19	99,7	49,85	39	40,5	2 bar
752-000-33	18 mm	18,5	12,5	82,2	41,1	35,2	36,7	2 bar

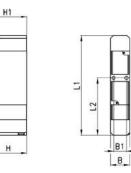


5/3-way solenoid valves, ISO 26 mm - 18 mm

The Series 7 solenoid valves with ISO 26 mm and 18 mm interface which have pneumatic actuation and mechanical spring return are suitable for mounting on a subbase.

The following is supplied: 1x interface seal 2x fixing screws





DIMENSIONS									
Mod.	Size ISO	В	B1	L1	L2	н	H1	Min. operating pressure	Symbol
761-000-33	26 mm	26,5	19	117,7	61,85	39	40,5	3 bar	VP08
762-000-33	18 mm	18,5	12,5	96,7	55,6	35,2	36,7	3 bar	VP08
771-000-33	26 mm	26,5	19	117,7	61,85	39	40,5	3 bar	VP09
772-000-33	18 mm	18,5	12,5	96,7	55,6	35,2	36,7	3 bar	VP09
781-000-33	26 mm	26,5	19	117,7	61,85	39	40,5	3 bar	VP10
782-000-33	18 mm	18,5	12,5	96,7	55,6	35,2	36,7	3 bar	VP10

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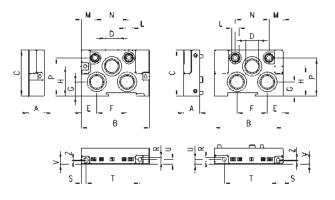
CONTROL

End blocks for subbase

End blocks for subbase with conveyed inlets and exhausts and front outlets.



The following is supplied: 1x seal 2x fixing screws



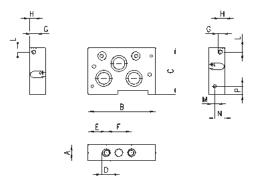
DIMENSIONS																			
Mod.	Size ISO	А	В	С	D	E	F	G	Н	L	М	Ν	Р	R	S	Т	U	V	Z
701C-HN1	26 mm	27	107	65	G1/2	23	60	24,5	43	G1/8	21,5	58	55,5	4,5	7,5	61,5	6	6,2	4
702C-HN2	18 mm	19	81	55	G3/8	18,5	36	17	35,5	G1/8	16,5	40	45,5	4,5	4,65	63,85	5,5	4,,35	1,3



Intermediate supply module

Intermediate supply module for manifold bases with conveyed inlets and exhausts and front outlets.

The following is supplied: 1x seal 2x fixing screws



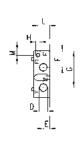
DIMENSION	S												
Mod.	Size ISO	А	В	С	D	E	F	G	Н	L	М	N	Р
701C-N1N	26 mm	27	100	65	G1/4	29	42	M5	6,5	10	M4	10	10
702C-N2N	18 mm	19	81	55	G1/8	22,5	28	M5	5	5	M4	11,5	9,5

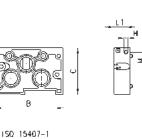




Subbase for manifolds

Manifold subbase with conveyed inlets and exhausts and front outlets.



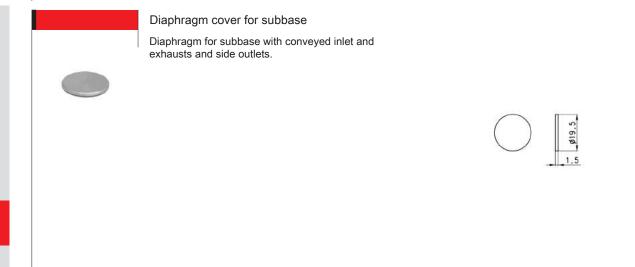




The following is supplied: 1x seal 2x fixing screws

DIMENSIONS Mod. Size ISO В С D Е F G L1 Μ А Н L 701C-N1A for separated pilots 26 mm 27 107 65 G1/4 11 23 53 M5 20,7 20,7 6,5 702C-N2A 19 55 G1/8 7,5 19,5 44,5 M5 6 7 for separated pilots 18 mm 81 13 701C-N1C 26 mm 27 107 65 G1/4 11 23 53 M5 20,7 20,7 6,5 702C-N2C 18 mm 19 81 55 G1/8 7,5 19,5 44,5 M5 13 6 7





#### Mod. 701C-N1A-TP 702C-N2A-TP



Excluder tap for subbase The following is supplied: 1x seal

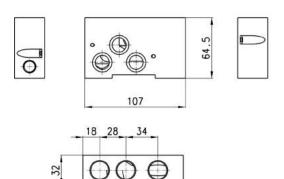
2x screws

DIMENSIO	NS				
Mod.	Size ISO	A	В	С	D
701-TP	26 mm	26,5	61,7	10	4,2
702-TP	18 mm	18,5	52,2	10	3.2



## Interface between ISO 01 and ISO 02

The following is supplied: 1x tap S2610 3/8 5x OR 2x screws



Mod. 701C-702C-A

2/2.25.08



# Series NA valves and solenoid valves

3/2 - 5/2 - 5/3-way CC CO CP with holes configured according NAMUR standards



The pneumatic interface connection complies with NAMUR standards. These solenoid valves can be equipped with solenoids that are in compliance with UL or ATEX standards.

# **GENERAL DATA**

Construction	spool type (servo-pilot operated)
Valve functions	3/2-way NC, NO - 5/2-way - 5/3-way CC, CO, CP
Materials	AL body - stainless steel spool - NBR seals
Mounting	through 2 Ø5 holes in the valve body
Ports	2 - 4 = NAMUR 1 - 3 - 5 = G1/4
Installation	directly on a Namur Interface
Operating temperature	$0 \div 60^{\circ}$ C (using dry air -20°C)
Operating pressure	1,5 - 10 bar double solenoid 2,5 - 10 bar single solenoid
Nominal pressure	6 bar
Nominal flow	Qn = 1000 NI/min
Nominal diameter	8 mm
Fluid	filtered air without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil, and to never interrupt the lubrication.

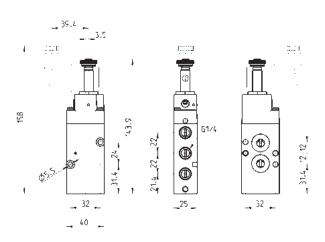
NA	5	4N	-	15	-	02	-	U7	7
NA	SERIES NAMUR								
5	NUMBER OF W 3 = 3/2 NC 4 = 3/2 NO 5 = 5/2 6 = 5/3 CC 7 = 5/3 CO 8 = 5/3 CP	/AYS - POSITIONS:							
4N	PORTS: 4N = G1/4 supp ports according	ly NAMUR standards							
15	ACTUATION: 11 = double solenoid 15 = single solenoid, spring return 33 = pneumatic pneumatic 35 = pneumatic, spring								
02	SOLENOID INT 02 = mech. sol.								
U7	SOLENOID MATERIAL / SOLENOID DIMENSIONS: A8 = PPS / 30 x 30 G7 = PA / 22 x 22 G8 = PA / 30 x 30 (24 V DC only) G9 = PA / 22 x 58 H8 = Self-extinguishing PA, Explosion-proof / 30 x 30 U7 = PET / 22 x 22								
0	SOLENOID VO	LTAGE: ection on page 2.2.35	. 01						



CONTROL

## 3/2-way solenoid valve NC and NO





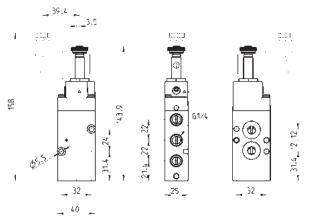




Mod.	Symbol	
NA34N-15-02	EV10	
NA44N-15-02	EV12	



5/2-way solenoid valve, monostable

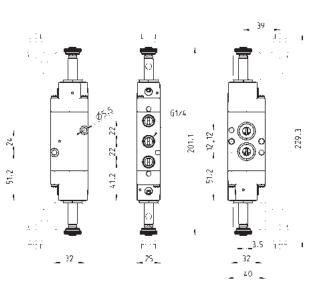


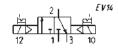
#### Mod. NA54N-15-02

Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com.

# 3/2-way solenoid valve, bistable









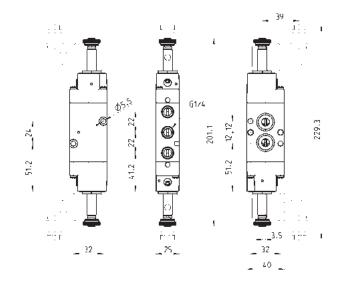
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# Mod.



5/2-way, solenoid valve, bistable

EV24

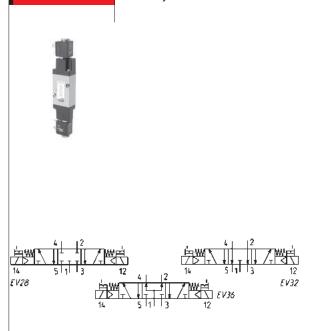


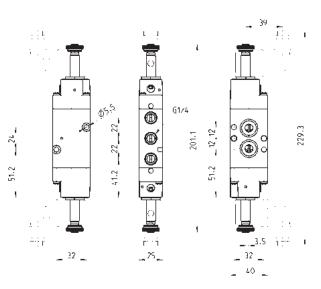




CONTROL

5/3-way solenoid valve CC CO CP

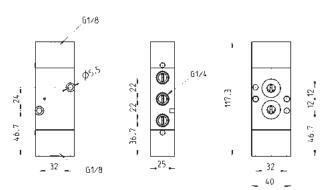


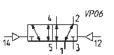


Mod.	Symbol	
NA64N-11-02	EV28	
NA74N-11-02	EV32	
NA84N-11-02	EV36	



5/2-way pneumatic valve, bistable

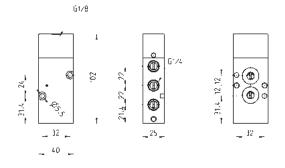




Mod. NA54N-33

# 5/2-way pneumatic valve, monostable



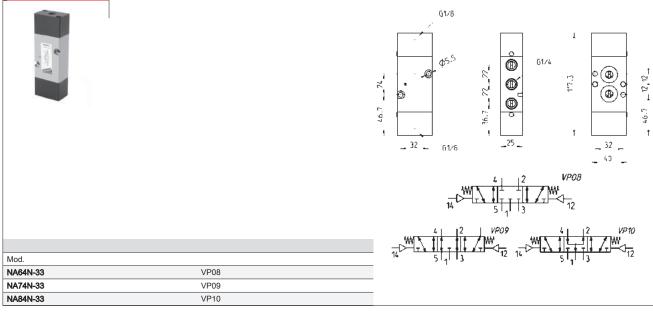




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# Mod. NA54N-35

# 5/3-way pneumatic valve CC CO CP

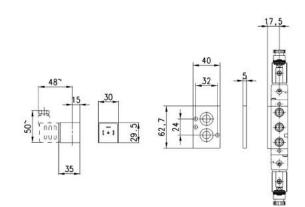




# Single subbase Mod. NA54-PC

Distance plate for the mounting of Series H8 solenoids

Supplied with: 2x screws 2x O-rings



Mod. NA54-PC

# Solenoids U7\* - U7\*EX - G7\* - A8\* G93 - B\* - H8\* and GP\*

Version A and B Connection according to DIN 43650 and DIN 40050 standards



# **GENERAL DATA**

Wire insulation	U7 / G7 / G93 = class F (155° C) A8 = class H (180° C) B / H8 = class H (200° C)
Protection class	U7 / G7 / G93 = IP54 - DIN 40050 IP65 (with connector Mod. 122-800 and Mod. 122-800EX) A8 / B = IP54 - DIN 40050 IP65 (with connector Mod. 124-800) H8 = IP64
Operation	ED 100%
Tolerance VAC	Mod. A and U: -15% / +10% Mod. B: ±10%
Tolerance V DC	Mod. A and U: ±10% Mod. B: ±5%



2/2.35.01

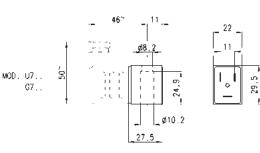
CONTROL



Solenoids Mod. U7... / U7\*EX and Mod. G7...

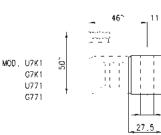
Connections: Bipolar plus earth DIN 43650 (vers. B) Solenoid material: U7\* = PET: G7\* = PA

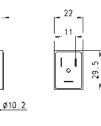
To order the ATEX version of Mod. U7 (not available for Mod. U7F and U7K1 with voltage 125V 50/60Hz) it is necessary to add EX at the end of the code. Mod. U7\*EX marked: II 3G Ex nA IIC T4 Gc X IP65 II 3D Ex tc IIIC 130°C Dc X



11.**\_** 

Mod.	Sol. volt. (1)	Pow. abs. (1)	Sol. volt. (2)	Pow. abs. (2)	Sol. volt. (3)	Pow. abs. (3)	
U7H	12 V DC	3.1 W	24V - 50/60 Hz	3.5 VA			
G7H	12 V DC	3.1 W	24V - 50/60Hz	3.5 VA			
U7K	110V - 50/60Hz	3.8 VA	125V - 50/60Hz	5.5 VA	72 V DC	4.8 W	
U7K1	110V - 50/60Hz	5.8 VA	125V - 50/60Hz	8.3 VA	72 V DC	5.6 W	
G7K	110V - 50/60Hz	3.8 VA	125V - 50/60Hz	5.5 VA	72 V DC	4.8 W	
G7K1	110V - 50/60Hz	5.8 VA	125V - 50/60Hz	8.3 VA	72 V DC	5.6 W	h
U7J	230V - 50/60Hz	3.5 VA	240V - 50/60Hz	4 VA			
G7J	230V - 50/60Hz	3.5 VA	240V - 50/60Hz	4 VA			
U79	48 V DC	3.1 W					
G79	48 V DC	3.1 W					
U710	110 V DC	3.2 W					
G710	110 V DC	3.2 W					
U77	24 V DC	3.1 W	48V - 50/60Hz	3.5 VA			
U771	24 V DC	3.1 W	48V - 50/60Hz	3.5 VA			
G77	24 V DC	3.1 W	48V - 50/60Hz	3.5 VA			
G771	24 V DC	3.1 W	48V - 50/60Hz	3.5 VA			
U7F	380V - 50/60Hz	7 VA					
U72	12 V DC	5 W					
G72	12 V DC	5 W					
U73	24 V DC	5 W					
G73	24 V DC	5 W					





Notes to the table: Sol. volt. = Solenoid voltage Pow. abs. = Power absorption Mod. U7K1, G7K1, U771 and G771 are to be used only with sol. valves series A, NO in line.

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Mod.

A8B

A8D

#### Solenoids Mod. A8...

Connections: Bipolar plus earth DIN 43650 (version A)

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A8E 220V -	220V - 50/60Hz		
<b>A83</b> 24	/ DC		
	Solenoids Mod.		
64 A	Voltage tolerance Pulsed operation:		

Solenoid voltage

24V - 50/60Hz

110V - 50/60Hz

# G93 (with memory)

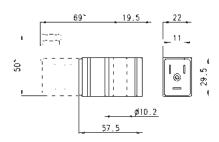
Power absorption

5VA

5VA

5VA 4W

E: DC and AC ±10% see explanation



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Mod.	Voltage	Minimum inpulse latch/release	Consumption latch/release
G93	24 V DC	18 ms - 10 ms	168 mA - 80 mA

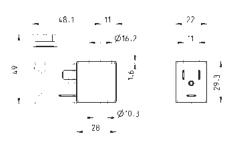


CONTROL

# Solenoids Mod. B7...

Connections: Bipolar plus earth DIN 43650 (vers. B)

Solenoid material: PA-MXD6



Mod.	Solenoid voltage	Power absorption
B7B	24 V - 50/60 Hz	9 VA
B7D	110 V - 50/60 Hz	9 VA
B7E	230 V - 50/60 Hz	9 VA
B72	12 V - DC	10 W
B73	24 V - DC	10 W

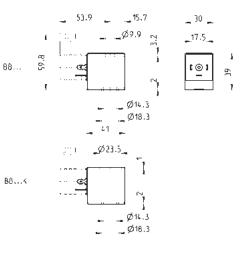


# Solenoids Mod. B8...

Connections: Bipolar plus earth DIN 43650 (vers. A) Solenoid material: PA-MXD6

The B8\*K models can be used only with some solenoid valves Series CFB (Mod. CFB-D1..., 2/2 NO). For further information see the table on page 2/1.30.03.

Mod.	Solenoid voltage	Power absorption
B8B	24 V - 50 Hz	15 VA
B8BK	24 V - 50 Hz	15 VA
B8D	110 V - 50/60 Hz	15 VA
B8DK	110 V - 50/60 Hz	15 VA
B8E	230 V - 50/60 Hz	15 VA
B8EK	230 V - 50/60 Hz	15 VA
B82	12 V - DC	19 W
B82K	12 V - DC	19 W
B83	24 V - DC	19 W
B83K	24 V - DC	19 W





### Solenoids Mod. B9...

Connections: Bipolar plus earth DIN 43650 (vers. A) Solenoid material: PA-MXD6

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• 59.3		
	Ø14.3 Ø17 47.5	

Mod.	Solenoid voltage	Power absorption
B9B	24 V - 50 Hz	29 VA
B9D	110 V - 50/60 Hz	29 VA
B9E	230 V - 50 Hz	29 VA
B93	24 V - DC	30 W

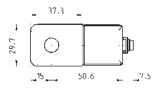
# CONTROL > Solenoids

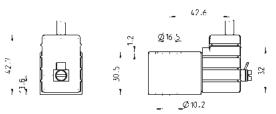
## Solenoid Mod. H8.. for potentially explosive ambients (ATEX)



Class F according to the standard VDE0580 Operating temperature: -20°C + 40°C Connections: tripolar cable 3 mt (standard) Conformity certificate to the standard CEI 31-8 (EN 50014) and CEI 31-13 (EN50028) marked EEx m IIT4.

Incapsulating: self-extinguishing PA.





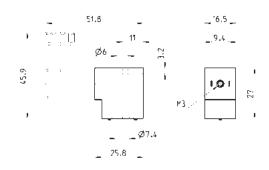
Mod.	Solenoid voltage	Power absorption
H83	24 V - DC	5,4 W
H8B	24 V - 50/60 Hz	5,3 VA
H8C	48 V - 50/60 Hz	5,3 VA
H8D	110 V - 50/60 Hz	5,3 VA
H8E	230 V - 50/60 Hz	5,3 VA

For Series NA use plate mod. NA54-PC.



# Solenoids Mod. GP - size 16 mm

Electrical connection: Bipolar (DIN EN 175301-803-C) Solenoid material: PA



Mod.	Solenoid voltage	Power absorption
GPH	12 V DC	3 W
GP7	24 V DC	3 W

2

G90

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### Solenoids for solenoid valves Series A, 3, 4, 9 and NA

All solenoids presented can be mounted on the following solenoid valves: Series A - 3 - 4 - 9 - NA

#### NB:

For the tightening of the solenoids' nut we recommend to do it manually, avoiding the use of any equipment.







J7C / U7EX / C7O

CONTROL

2

# Solenoids Mod. G9...

Solenoids Mod. G9... can be replaced on all other Series A solenoid valves or pilots allowing to change the valve functioning from:

- unstable functioning system (spring return)

- stable functioning system (memory)
- The stable functioning has the following advantages:
- with an impulse of about 20 ms after which the valve always remains in the controlled position.

- the valve remains in the controlled position (opened or closed) even if there is no power.

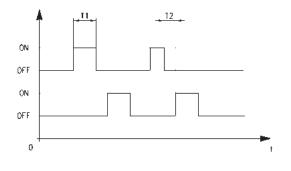
- when normally opened valves should be used, it is not necessary to use valves with special mechanical parts as a NC valve becomes a NO valve just by changing the control impulse sequence.

- The impulse control system facilitates the utilization with electronic circuits. The minimum required impulse for the function is 20 ms; if, for circuit reasons, the impulse last for a longer period, there is no danger of heating.

magnet attraction command = Actuation SW1
 magnet release command = Actuation SW2

If the solenoids are mounted in batteries, a magnetic scheme

type G90/L should be used. To facilitate the cabling a special connector is available, which contains a circuit which realises the inversion of the power supply to the solenoid, indispensable for the PLC command, 122-892 P with common positive or 122-893 N with common negative.





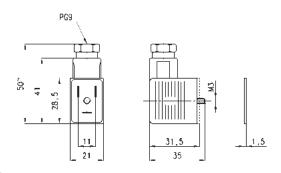
Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com

# CONTROL > Solenoids

Connectors Mod. 122-... DIN 43650

For solenoids Mod. U7/U7\*EX, G7 and B7

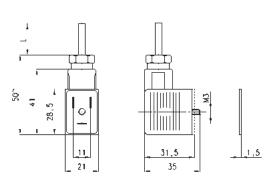
#### Mod. 122-800EX: for ATEX certified solenoids mod. U7\*EX, with antiscrewing off screw mod. TORX.



Mod.	description	colour	working voltage	cable holding	tightening torque
122-601	connector, diode + Led	transparent	10/50 V DC	PG9	0.5 Nm
122-701	connector, varistor + Led	transparent	24 V AC/DC	PG9	0.5 Nm
122-702	connector, varistor + Led	transparent	110 V AC/DC	PG9	0.5 Nm
122-703	connector, varistor + Led	transparent	230 V AC/DC	PG9	0.5 Nm
122-800	connector, without electronics	black	-	PG9	0.5 Nm
122-800EX	connector, without electronics	black	-	PG9	0.5 Nm

Connectors Mod. 122-5... DIN 43650 with cable

For solenoids Mod. U7/U7\*EX, G7 and B7



Mod.	description	colour	working voltage	cable length [ L ]	cable holding	tightening torque
122-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.5 Nm
122-550-5	moulded cable, without electronics	black	-	5000 mm	-	0.5 Nm
122-571-3	moulded cable, varistor + Led	black	-	3000 mm	-	0.5 Nm

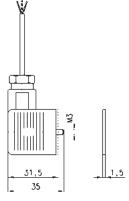


Connectors Mod. 122-89\*C

For solenoids Mod. G9

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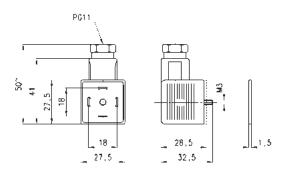


Mod.	description	colour	working voltage	cable length [ L ]	cable holding	tightening torque
122-892C	pre-wired connector, positive common	transparent	12/24V DC	2000 mm	PG9	0.5 Nm
122-893C	pre-wired connector, negative common	transparent	12/24V DC	2000 mm	PG9	0.5 Nm



Connector Mod. 124-... DIN 43650 For solenoids Mod. A8 and Mod. B8/B9

Protection class IP65



Mod.	description	colour	working voltage	cable holding	tightening torque
124-800	connector, without electronics	black	-	PG9/PG11	0.5 Nm
124-702	connector, varistor + Led	black	110 V AC/DC	PG9/PG11	0.5 Nm
124-701	connector, varistor + Led	black	24 V AC/DC	PG9/PG11	0.5 Nm
124-703	connector, varistor + Led	black	230 V AC/DC	PG9/PG11	0.5 Nm

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