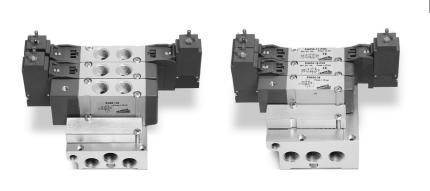
Valves and Solenoid valves Series EN

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 body, spool, bases = AL Materials 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

IP65 with connector DIN 40050 Protection class



EN	5	3	1	_	11	_	PN3
----	---	---	---	---	----	---	-----

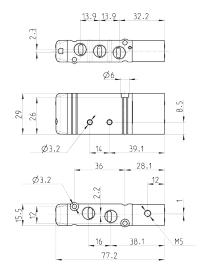
EN	SERIES
5	FUNCTION: 5 = 5/2 6 = 5/3 Centre Closed 7 = 5/3 Centre Open 8 = 5/3 Pressure Centre
3	SIZE: 3 = size 16 5 = size 19
1	BODY TYPE: 1 = body with threaded plate
11	ACTUATION: 11 = electro-pneumatic, bistable 16 = electro-pneumatic, monostable 33 = pneumatic bistable 36 = pneumatic monostable E11 = electro-pneumatic, bistable with external servo-pilot supply E16 = electro-pneumatic, monostable with external servo-pilot supply
PN3	TYPE OF SOLENOID: PN3 = 24V DC - 1W PN4 = 48V DC - 2W PN6 = 110V DC - 2W PN7 = 230V - 2W P13 = 24V DC - 1W P54 = 48V DC - 2W P56 = 110V DC - 2W W53 = 24V DC - 2W W53 = 24V DC - 2W W54 = 48V DC - 2W

Pneumatically actuated valve, monostable - size 16

5/2-way

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





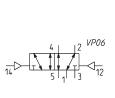
	4	2	VP07
14	5	1 3	⊴

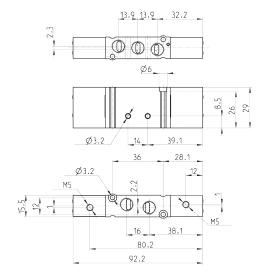
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)
EN531-36	G1/8	M5	2,5 ÷ 10	-0.9 ÷ 10	550

Pneumatically actuated valve, bistable - size 16

5/2-way







Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)
EN531-33	G1/8	M5	2 ÷ 10	-0.9 ÷ 10	550

Pneumatically actuated valve - size 16

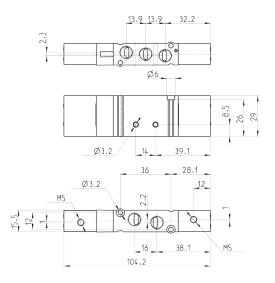
5/3-way

CC = Centres closed

CO = Centres open

CP = Pressure Centres





	4 2	4 2
14 VWV T	12 12	14 T T T T T T T T T T T T T T T T T T T
VP08	- W - 11 12	71W VP09
	14 17 11 13	√ ₁ 12 VP10

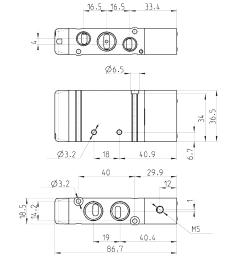
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)	Symbol
EN631-33	G1/8	M5	3 ÷ 10	-0.9 ÷ 10	550	VP08
EN731-33	G1/8	M5	3 ÷ 10	-0.9 ÷ 10	550	VP09
EN831-33	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	550	VP10

Pneumatically actuated valve, monostable - size 19

5/2-way

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





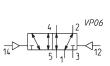
	4	1	2	VP07
14		,	<u> </u>	=
14	5	1	3	

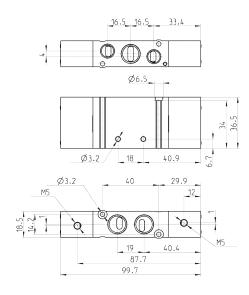
Mod.	Ports 1-2-4	Ports 3-5	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)
EN551-36	G1/4	G1/8	M5	2.5 ÷ 10	-0.9 ÷ 10	920

Pneumatically actuated valve, bistable - size 19

5/2-way







Mod.	Ports 1-2-4	Ports 3-5	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)
EN551-33	G1/4	G1/8	M5	2 ÷ 10	-0,9 ÷ 10	920

Pneumatically actuated valve - size 19

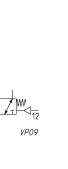
5/3-way

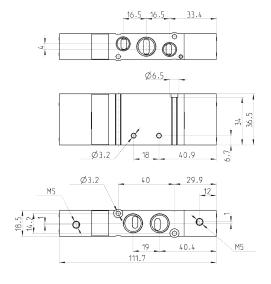
CC = Centres closed

CO = Centres open

CP = Pressure Centres







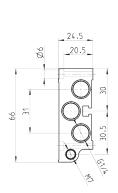
Mod.	Ports 1-2-4	Ports 3-5	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (NI/min)	Symbol
EN651-33	G1/4	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	920	VP08
EN751-33	G1/4	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	920	VP09
EN851-33	G1/4	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	920	VP10

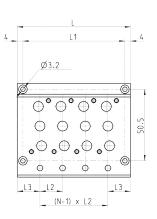
VP08



Manifold for valves size 16 and 19 (outlets on the body valve)





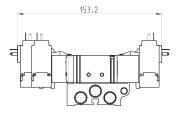


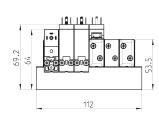
Mod.	Nr of valve positions	L	L1	L2	L3
EN531-1002	2	48	40	16	16
EN531-1003	3	64	56	16	16
EN531-1004	4	80	72	16	16
EN531-1005	5	96	88	16	16
EN531-1006	6	112	104	16	16
EN531-1008	8	144	136	16	16
EN531-1010	10	176	168	16	16
EN531-1012	12	208	200	16	16
EN551-1002	2	53	45	19	17
EN551-1003	3	72	64	19	17
EN551-1004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

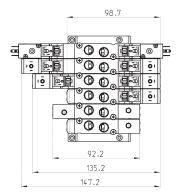


Manifolds complete with valves with outlets on the body - size 16 ports G1/8





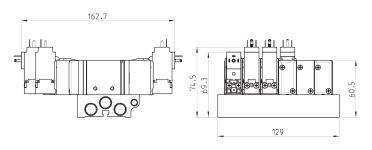


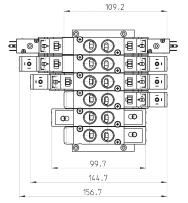


Manifolds complete with valves with outlets on the body - size 19

ports G1/4







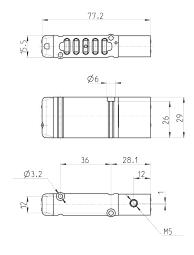


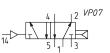
	U	0	0			1 140
EN	SERIES					
5	FUNCTION: 5 = 5/2 6 = 5/3 Centre Clo 7 = 5/3 Centre Op 8 = 5/3 Pressure O	en				
3	SIZE: 3 = size 16 5 = size 19					
0	BODY TYPE: 0 = body for sub-b	pase				
11	33 = pneumatic bit 36 = pneumatic m E11 = electro-pne	matic, monostable stable onostable umatic, bistable with e	external servo-pilot suppl ith external servo-pilot su			
PN3	TYPE OF SOLEN PN3 = 24V DC - 1 PN4 = 48V DC - 2 PN6 = 110V DC - 2 PN7 = 230V - 2W P13 = 24V DC - 1 P54 = 48V DC - 2 W53 = 24V DC - 2 W54 = 48V DC - 2	W W 2W W W W 2W				
	In case of applicat	tions with alternate cu	rrent, use a bridge rectifi	er connector (see pag	. 2/2.07.40)	



Monostable pneumatic valve with outlets on sub-base - size 16 5/2-way





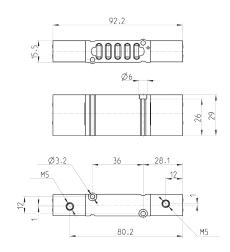


Mod.	Pilot supply	min. pilot Pressure (bar)	Working pressure (bar)	Flow rate (NI/min)
EN530-36	M5	2,5	2,5 ÷ 10	610

Bistable pneumatic valve with outlets on sub-base - size 16

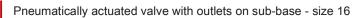
5/2-way





	4	12	VP06
14	5	1 13	-<1 <u>12</u>

Mod.	Pilot supply	min. pilot pressure (bar)	Working pressure (bar)	Flow rate (NI/min)
EN530-33	M5	2	-0,9 ÷ 10	610

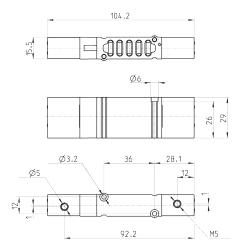


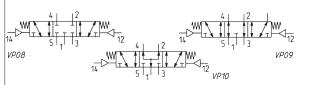
5/3-way

CC = Centres Closed CO = Centres Open

CP = Centres in Pressure





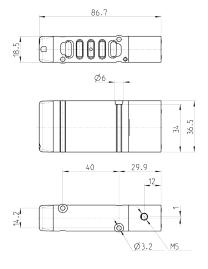


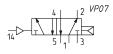
Mod.	Pilot supply	min. pilot pressure (bar)	Working pressure (bar)	Flow rate (NI/min)	Symbol
EN630-33	M5	3	-0,9 ÷ 10	610	VP08
EN730-33	M5	3	-0,9 ÷ 10	610	VP09
EN830-33	M5	3	-0,9 ÷ 10	610	VP10

Pneumatic valve, monostable with outlets on sub-base - size 19

5/2-way





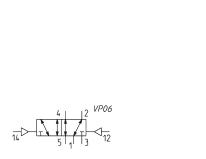


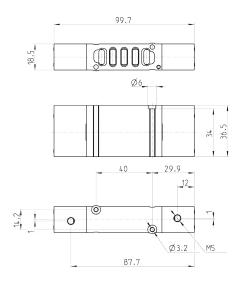
Mod.	Pilot supply	min. pilot pressure (bar)	working P. (bar)	Flow rate (NI/min)
EN550-36	M5	2,5	2 ÷ 10	1000

Pneumatic valve, bistable with outlets on sub-base - size 19

5/2-way







Mod.	Pilot supply	min. pilot pressure (bar)	Working pressure (bar)	Flow rate NI/min
EN550-33	M5	2	-0,9 ÷ 10	1000

Pneumatically actuated valve with outlets on sub-base - size 19

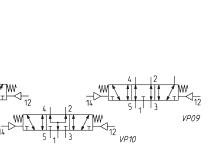
5/3-way

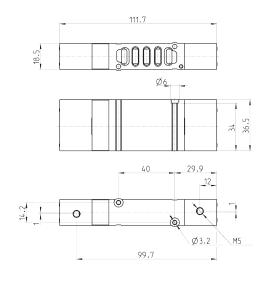
CC = Centres Closed

CO = Centres Open

CP = Centres in Pressure







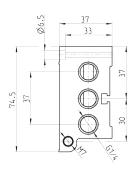
Mod.	Pilot supply	min. pilot pressure (bar)	working P. bar	Flow rate NI/min	Symbol
EN650-33	M5	3	-0,9 ÷ 10	1000	VP08
EN750-33	M5	3	-0,9 ÷ 10	1000	VP09
EN850-33	M5	3	-0,9 ÷ 10	1000	VP10

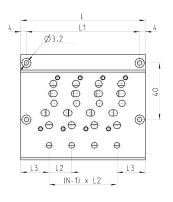
VP08

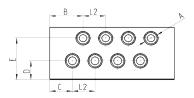


Sub-base for valves size 16 and 19 (outlets on manifolds)







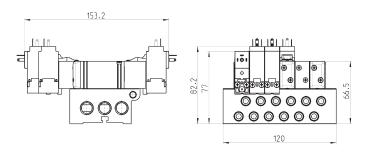


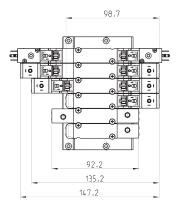
Mod.	Nr of valve positions	Α	В	С	D	Е	L	L1	L2	L3
EN530-2102	2	G1/8	23,5	16	12,8	29	56	48	16	20
EN530-2103	3	G1/8	23,5	16	12,8	29	72	64	16	20
EN530-2104	4	G1/8	23,5	16	12,8	29	88	80	16	20
EN530-2105	5	G1/8	23,5	16	12,8	29	104	96	16	20
EN530-2106	6	G1/8	23,5	16	12,8	29	120	112	16	20
EN530-2108	8	G1/8	23,5	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

CONTROL > Sen

Manifolds complete with base moutend valves - size 16

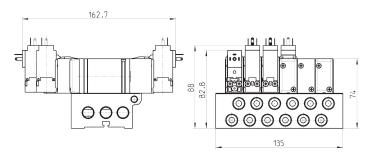


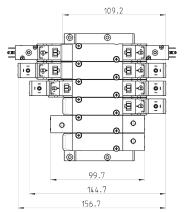




Manifolds complete with base moutend valves - size 19











Blanking plate for manifolds - valves with outlets on the body

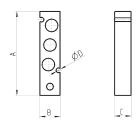
The following is supplied:

1x blanking plate

2x screws

1x seal





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



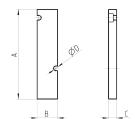
Blanking plate for manifolds - base mounted valves

The following is supplied:

1x blanking plate

2x screws

1x seal

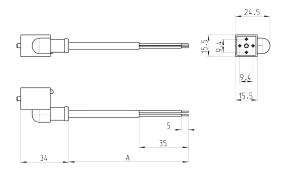


Mod.	Size	Α	В	С	ØD
TP-EN530	16	64	14,7	6	3,2
TP-EN550	19	64	17	6	3,2



Connectors 24DC PN with led for solenoids P and PN

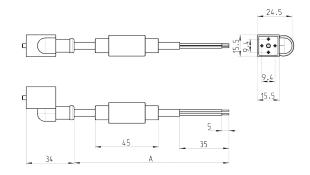




Mod.	A	
125-503-2	2 m	
125-503-5	5 m	

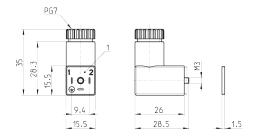
Line connectors V-AC PN with bridge rectifier for solenoids P-PN





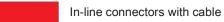
Mod.	A	
125-903-2	2 m	
125-903-5	5 m	

Connectors DIN 43650

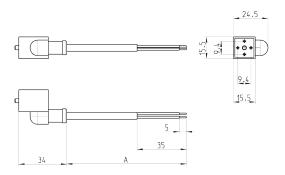


Mod.	Solenoid type	A
125-800	Р	9,4
126-800	W	8









Mod.	A
125-553-2	2 m
125-553-5	5 m

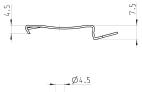


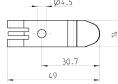
Mounting brackets for DIN rail

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.

PCF-EN531