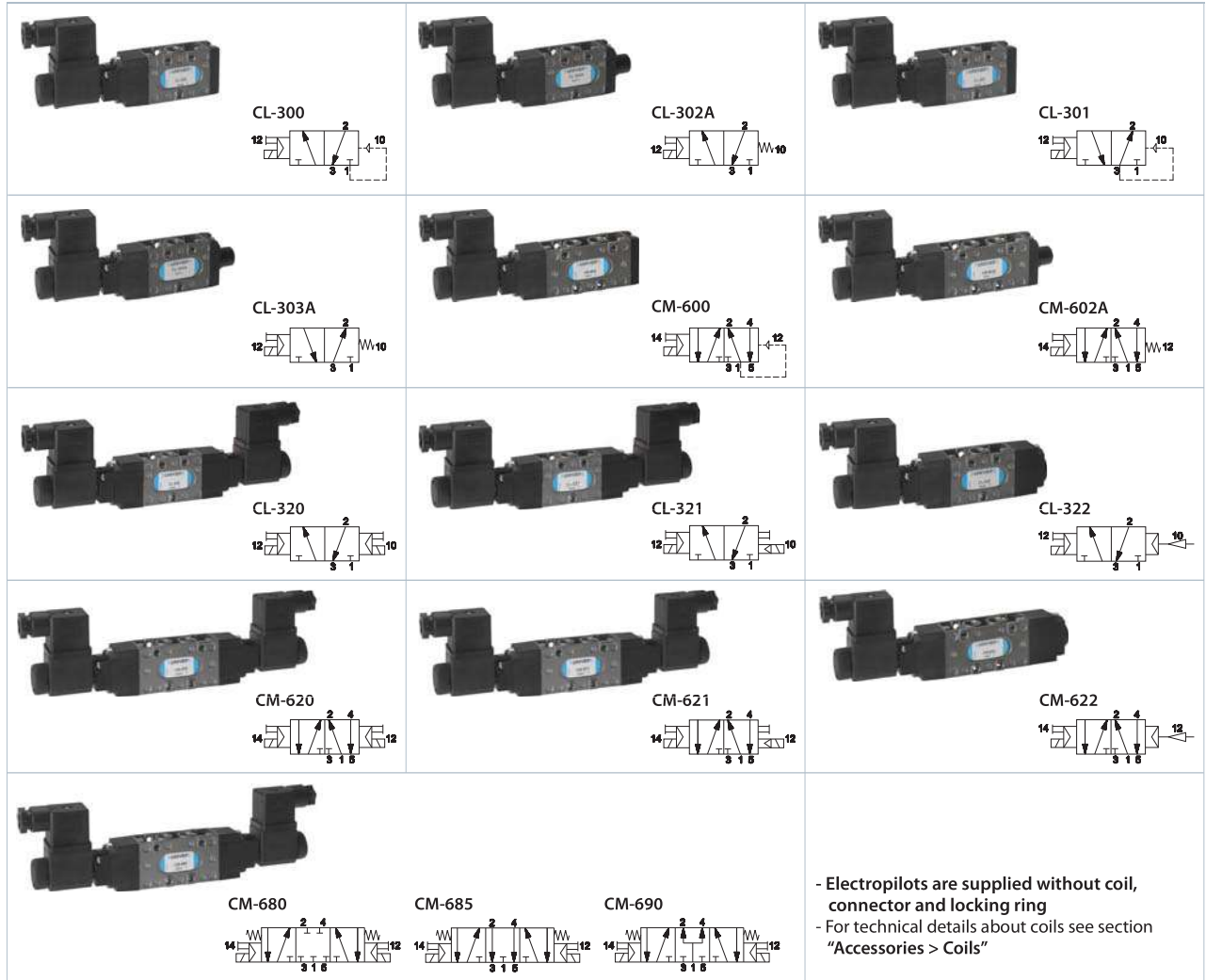


G1/8 Valves with electric control



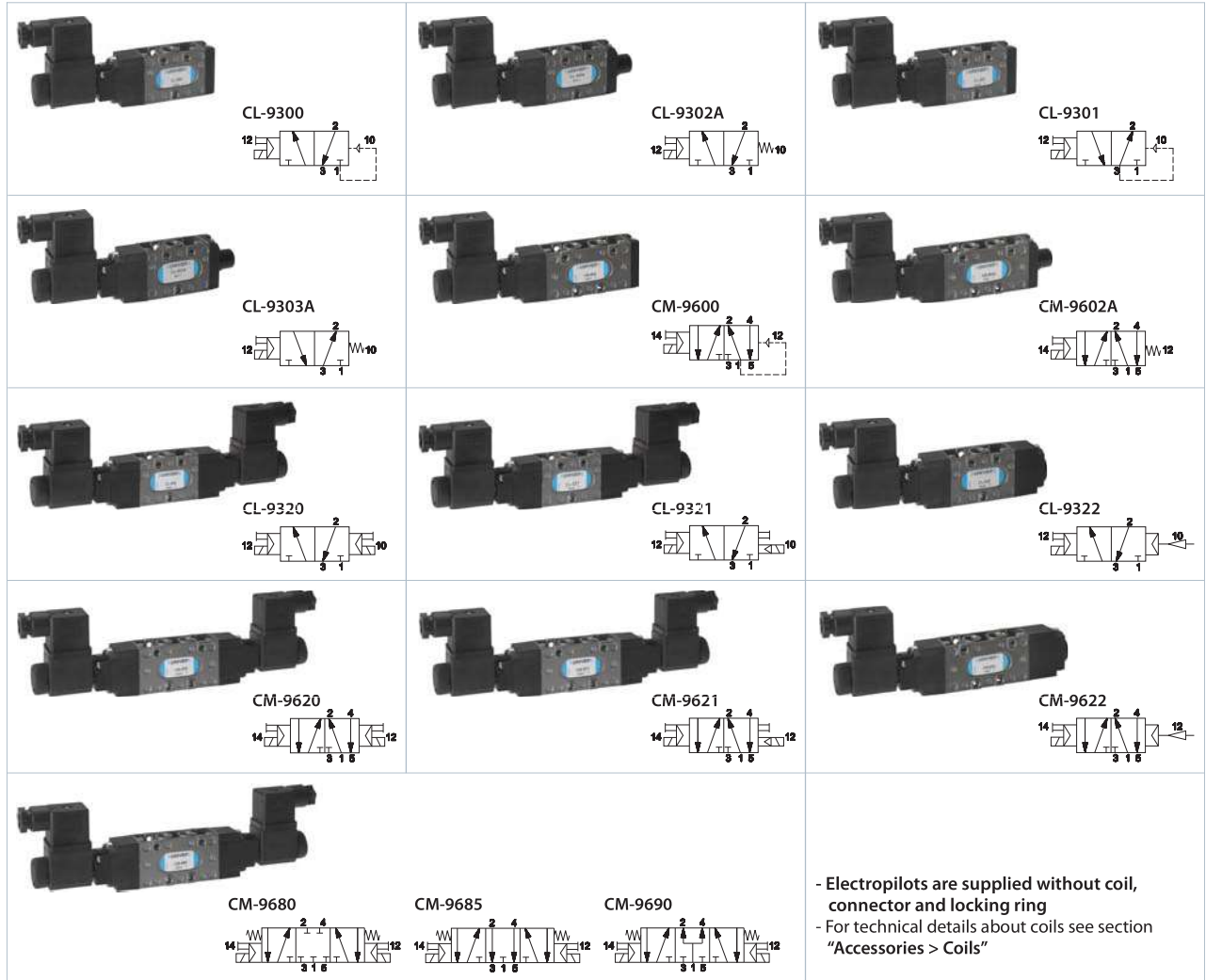
- Electropilots are supplied without coil, connector and locking ring  
 - For technical details about coils see section "Accessories > Coils"

	Control	Return	Pressure bar	Flow rate (Nl/min)	Ø mm	Weight Kg	Times (ms)		Part no.	Composition (a)			Tot L. mm
							En.	De-en.		Control	Body	Return	
<b>SINGLE IMPULSE</b>													
3/2 NC	electrical amplified	pneumatic spring	2,3÷10	890	6,5	0,20	23	19	<b>CL-300</b>	A	1	E	140,5
	electrical amplified	mechanical spring	2,5÷10	890	6,5	0,21	20	24	<b>CL-302A</b>	A	1	D	153
3/2 NO	electrical amplified	pneumatic spring	2,3÷10	890	6,5	0,20	23	19	<b>CL-301</b>	A	1	E	140,5
	electrical amplified	mechanical spring	2,5÷10	890	6,5	0,21	20	24	<b>CL-303A</b>	A	1	D	153
5/2	electrical amplified	pneumatic spring	2,5÷10	890	6,5	0,24	24	20	<b>CM-600</b>	A	2	E	157
	electrical amplified	mechanical spring	3÷10	890	6,5	0,25	21	25	<b>CM-602A</b>	A	2	D	169,5
<b>DOUBLE IMPULSE</b>													
3/2 NC-NO	electrical amplified	electrical amplified	1÷10	890	6,5	0,24	17	17	<b>CL-320</b>	A	1	H	213,5
	electrical amplified	electrical not amplified	1,7÷10	890	6,5	0,24	17	20	<b>CL-321</b>	A	1	H	213,5
	electrical amplified	pneumatic amplified	2,5÷10	890	6,5	0,21	20	7	<b>CL-322</b>	A	1	F	155,5
5/2	electrical amplified	electrical amplified	1,2÷10	890	6,5	0,28	20	20	<b>CM-620</b>	A	2	H	230
	electrical amplified	electrical not amplified	2÷10	890	6,5	0,28	20	23	<b>CM-621</b>	A	2	H	230
	electrical amplified	pneumatic amplified	1,2÷10	890	6,5	0,24	20	8	<b>CM-622</b>	A	2	F	172
5/3 c.c.	electrical amplified	electrical amplified	2,5÷10	890	6,5	0,21	18	24	<b>CM-680</b>	A	2	H	230
5/3 o.c.	electrical amplified	electrical amplified	2,5÷10	890	6,5	0,21	18	24	<b>CM-685</b>	A	2	H	230
5/3 p.c.	electrical amplified	electrical amplified	2,5÷10	890	6,5	0,21	18	24	<b>CM-690</b>	A	2	H	230

o.c. = open centres c.c. = closed centres p.c. = pressurized centres  
 To get 3/2 NO version, supply the valve from port 3

(a) = see page 3\_23

G1/4 Valves with electric control



	Control	Return	Pressione bar	Portata (NI/min)	Ø mm	Weight Kg	Times (ms)		Part no.	Composition (a)			Tot L. mm
							En.	De-en.		Control	Body	Return	
<b>SINGLE IMPULSE</b>													
3/2 NC	electrical amplified	pneumatic spring	2÷10	1480	8,5	0,27	24	28	<b>CL-9300</b>	A	1	E	161
	electrical amplified	mechanical spring	2÷10	1480	8,5	0,28	22	35	<b>CL-9302A</b>	A	1	D	172
3/2 NO	electrical amplified	pneumatic spring	2÷10	1480	8,5	0,27	24	28	<b>CL-9301</b>	A	1	E	161
	electrical amplified	mechanical spring	2÷10	1480	8,5	0,28	22	35	<b>CL-9303A</b>	A	1	D	172
5/2	electrical amplified	pneumatic spring	2÷10	1480	8,5	0,30	25	32	<b>CM-9600</b>	A	2	E	178,5
	electrical amplified	mechanical spring	2÷10	1480	8,5	0,31	22	43	<b>CM-9602A</b>	A	2	D	189,5
<b>DOUBLE IMPULSE</b>													
3/2 NC_NO	electrical amplified	electrical amplified	2÷10	1480	8,5	0,29	18	18	<b>CL-9320</b>	A	1	H	233
	electrical amplified	elettrico not amplified	1,5÷10	1480	8,5	0,30	18	22	<b>CL-9321</b>	A	1	H	233
	electrical amplified	pneumatic amplified	2÷10	1480	8,5	0,26	22	8	<b>CL-9322</b>	A	1	F	175
5/2	electrical amplified	electrical amplified	1,5÷10	1480	8,5	0,32	22	22	<b>CM-9620</b>	A	2	H	250,5
	electrical amplified	elettrico not amplified	1,8÷10	1480	8,5	0,32	22	25	<b>CM-9621</b>	A	2	H	250,5
	electrical amplified	pneumatic amplified	1,5÷10	1480	8,5	0,29	22	10	<b>CM-9622</b>	A	2	F	192,5
5/3 c.c.	electrical amplified	electrical amplified	2,8÷10	1480	6,5	0,30	20	35	<b>CM-9680</b>	A	2	H	250,5
5/3 o.c.	electrical amplified	electrical amplified	2,8÷10	1480	6,5	0,30	20	35	<b>CM-9685</b>	A	2	H	250,5
5/3 p.c.	electrical amplified	electrical amplified	2,8÷10	1480	6,5	0,30	20	35	<b>CM-9690</b>	A	2	H	250,5

o.c. = open centres c.c. = closed centres p.c. = pressurized centres  
To get 3/2 NO version, supply the valve from port 3

(a) = see pages 3\_23

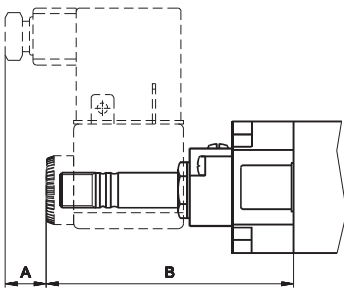
Composition

Control

Body

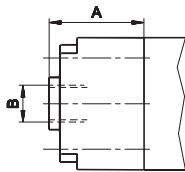
Return

**A** G1/8 - G1/4 ELECTRIC/AMPLIFIED



	A	B
G1/8	10	77
G1/4	10	80

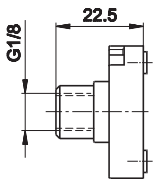
**B** G1/8 - G1/4 PNEUMATIC AMPLIFIED



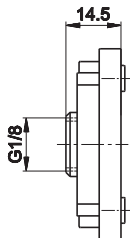
	A	B
G1/8	25	G1/8
G1/4	28,5	G1/8

**C** G1/8 - G1/4 PNEUMATIC NOT AMPLIFIED

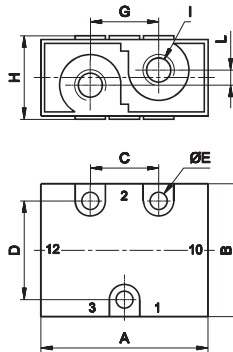
>> G1/8



>> G1/4



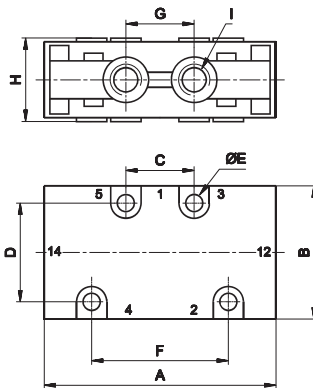
**1** 3/2 NC-NO G1/8 - G1/4



- >> NC
  - 1 = Supply port
  - 2 = Use
  - 3 = Exhaust
  - 12 = Control
  - 10 = Return
- >> NO
  - 1 = Exhaust
  - 2 = Use
  - 3 = Supply port
  - 12 = Control
  - 10 = Return

	A	B	C	D	E	G	H	I	L
G1/8	47,5	35	18	26	4,5	18	22	G1/8	4
G1/4	60	48	22	38	5,5	22	26	G1/4	4

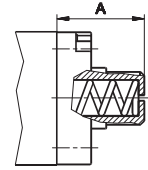
**2** 5/2 G1/8 - G1/4



- 1 = Supply port
- 2 - 4 = Use
- 3 - 5 = Exhaust
- 14 = Control
- 12 = Return

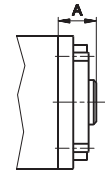
	A	B	C	D	E	F	G	H	I
G1/8	64	35	18	26	4,5	36	18	22	G1/8
G1/4	77,5	48	22	38	5,5	48	22	26	G1/4

**D** G1/8 - G1/4 MECHANICAL SPRING



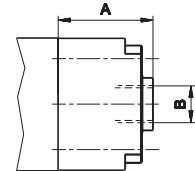
	A
G1/8	22,5
G1/4	25,5

**E** G1/8 - G1/4 PNEUMATIC SPRING



	A
G1/8	10
G1/4	14,5

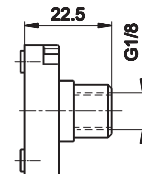
**F** G1/8 - G1/4 PNEUMATIC AMPLIFIED



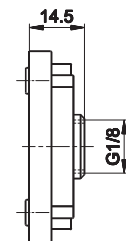
	A	B
G1/8	25	G1/8
G1/4	28,5	G1/8

**G** G1/8 - G1/4 PNEUMATIC NOT AMPLIFIED

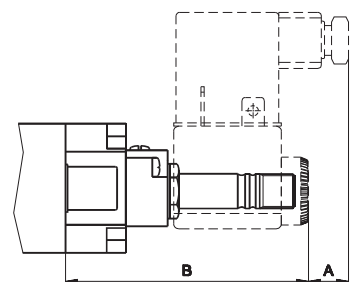
>> G1/8



>> G1/4

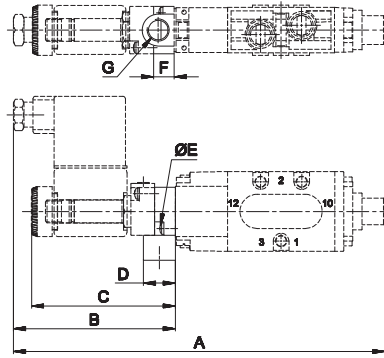
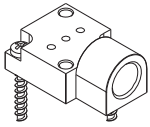


**H** G1/8 - G1/4 ELECTRIC AMPLIFIED



	A	B
G1/8	10	73
G1/4	10	76,5

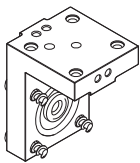
**AM-5148**



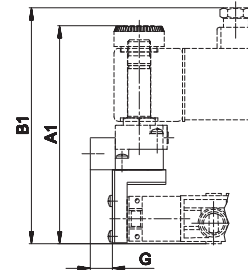
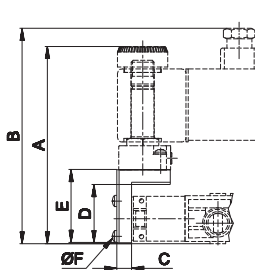
	G1/8	G1/4
A	163	175,5
B	71	71
C	63	63
D	14	14
E	2,9x10	2,9x10
F	9	9
G	G1/8	G1/8

Plate for external servoassistance  
weight: 0,03 Kg

**AM-5151**



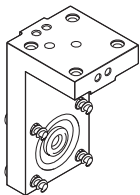
■ AM-5151 + AM-5148



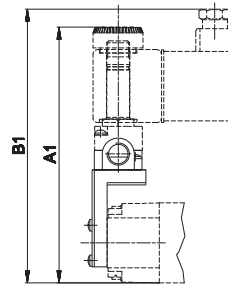
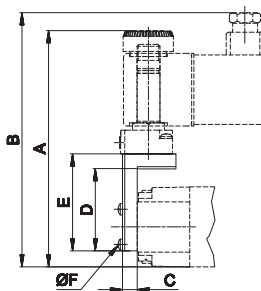
	G1/8	G1/4
A	86,7	88,7
A1	95,7	97,7
B	94,5	96,5
B1	103,5	105,5
C	6,5	6,5
D	25,5	25,5
E	32	32
F	2,9x10	2,9x10
G	9,7	9,7

"H" option angle plate  
weight: 0,035 Kg

**AM-5152**



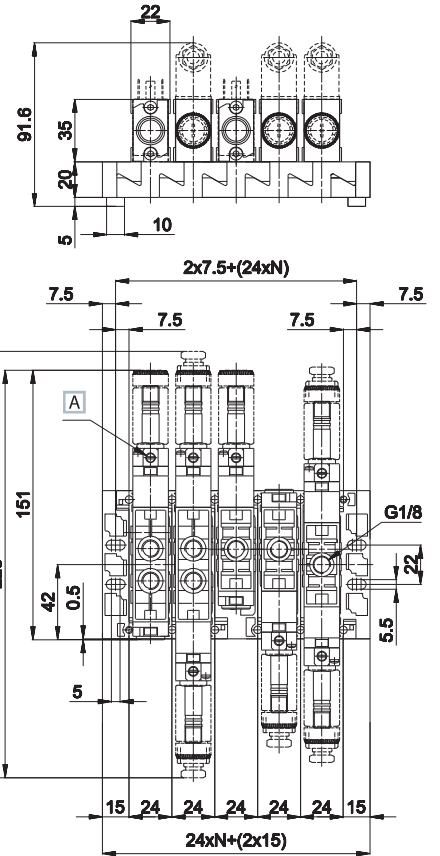
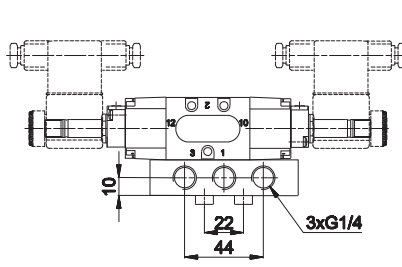
■ AM-5152 + AM-5148



	G1/8	G1/4
A	103,5	110
A1	112,2	118,7
B	111,5	118
B1	120	126,5
C	6,5	6,5
D	36	36
E	42,5	42,5
F	2,9x10	2,9x10

"P" option angle plate  
weight: 0,05 Kg

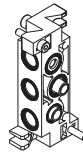
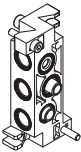
G1/8 Modular subbase "CLIPS" for 3/2 - 5/2 - 5/3 valves



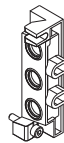
- >> NC
  - 1 = Supply port
  - 2 = Use
  - 3 = Exhaust
  - 12 = Control
  - 10 = Return
- >> NO
  - 1 = Exhaust
  - 2 = Use
  - 3 = Supply port
  - 12 = Control
  - 10 = Return
- N = Number of valve places
- A** Manual override

When assembling the manifold put the sub-base on a flat surface and tighten the special screw supplied. This will give perfect alignment.

CP-100 CP-101 CP-105



**N E W**



modular sub-base with regulated and conveyed exhausts  
connections: G1/8  
material: zamak  
weight: 0,136 Kg

modular sub-base **without exhaust regulator**  
connections: G1/8  
material: zamak  
weight: 0,136 Kg

inlet plate side connections  
connections: G1/4  
material: zamak  
weight: 0,086 Kg

standard supplied: screws, seals, exhausts regulator and fixing coupling

standard supplied: screws, seals and fixing coupling of valve

standard supplied: screws and seals

CP-110 CP-111 CP-112 CP-113



coupling  
connections: G1/8  
material: brass  
weight: 0,028 Kg

separatore pressioni differenziali  
connessione: G1/8  
materiale: alluminio  
peso: 0,013 Kg

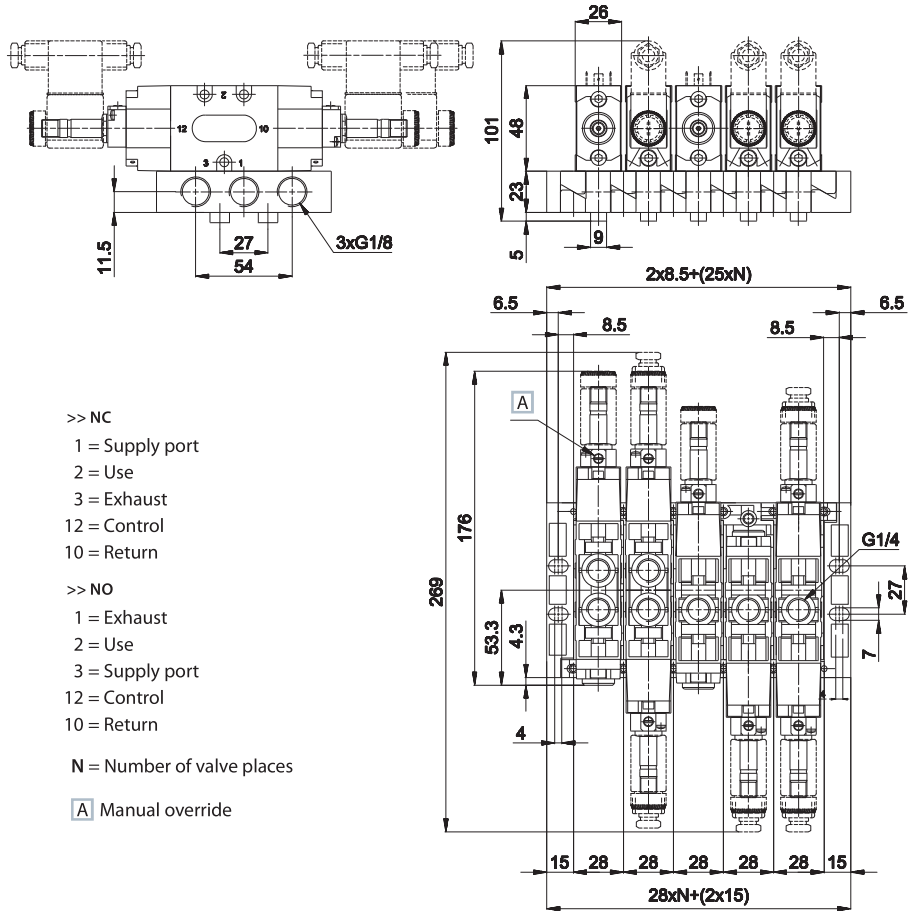
cap for 3/2 valve mounting  
connections: G1/8  
material: alluminio  
weight: 0,010 Kg

adjustment screw  
connections: G1/8  
material: brass  
weight: 0,006 Kg

For each additional pressure, one coupling and two separators must be ordered.

Cap for mounting of 3/2 NC-NO valves on "CLIPS" sub-base to close non-used way. Standard sub-base with adjustment screw. The screw head has a slot for screwdrivers. Upon request: adjustment screw with

G1/4 Modular subbase "CLIPS" for 3/2 - 5/2 - 5/3 valves



- >> NC
  - 1 = Supply port
  - 2 = Use
  - 3 = Exhaust
  - 12 = Control
  - 10 = Return
- >> NO
  - 1 = Exhaust
  - 2 = Use
  - 3 = Supply port
  - 12 = Control
  - 10 = Return
- N = Number of valve places
- A** Manual override

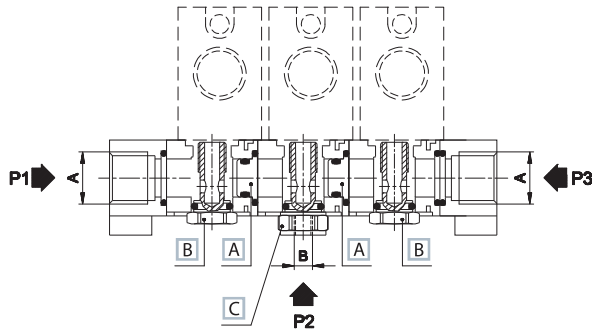
When assembling the manifold put the sub-base on a flat surface and tighten the special screw supplied. This will give perfect alignment.

CP-9100	CP-9101	CP-9105
	<b>NEW</b>	
modular sub-base regulated and conveyed exhausts connections: G1/4 material: zamak weight: 0,210 Kg	modular sub-base <b>without exhaust regulator</b> connections: G1/4 material: zamak weight: 0,210 Kg	inlet plate side connections connections: G3/8 material: zamak weight: 0,120 Kg
standard supplied: screws, seals, exhaust regulator and fixing coupling	standard supplied: screws, seals and fixing coupling of valve	standard supplied: screws and seals

CP-9110	CP-9111	CP-9112	CP-9113
coupling connections: G1/4 material: brass weight: 0,028 Kg	separator of differential pressure connections: G1/4 material: aluminium weight: 0,013 Kg	cap for 3/2 valve mounting connections: G1/4 material: aluminium weight: 0,010 Kg	adjustment screw connections: G1/4 material: ottone weight: 0,006 Kg
For each additional pressure, one coupling and two separators must be ordered.		Cap for mounting of 3/2 NC-NO valves on "CLIPS" sub-base to close non-used way. Standard sub-base with adjustment screw. The screw head has a slot for screwdrivers. Upon request: adjustment screw with	

Assembly examples

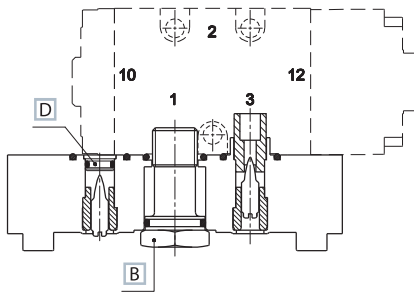
Manifold 3 pressures



	A	B
G1/8	G1/4	G1/8
G1/4	G3/8	G1/4

- A Separator of differential pressures CP-111/CP-9111
- B Fixing coupling for valve inside the sub-base
- C Coupling CP-110/CP-9110

Mounting of 3/2 NC valve



- B Fixing coupling for valve inside the sub-base
- D Cap for valve mounting CP-112/CP-9112

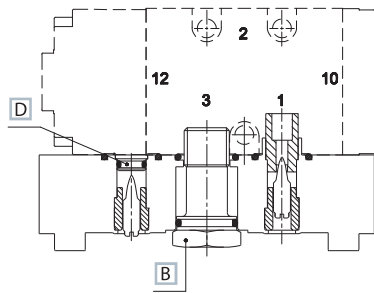
>> NC

- 1 = Supply port
- 2 = Use
- 3 = Exhaust
- 12 = Control
- 10 = Return

>> NO

- 1 = Exhaust
- 2 = Use
- 3 = Supply port
- 12 = Control
- 10 = Return

Mounting of 3/2 NO valve



In case there should be no need to regulate exhaust, plastic insert has to be removed whilst the adjustment screw must remain in its place.