UNIVERSAL Valves G1/8 - G1/4

- UNIVERSAL Modular System: possibility to create a lot of different valves with short number of basis elements
- Control: manual, mechanical, pneumatic, electric
- Traditional UNIVER spool system: fluctuating seals of special compound to reduce frinction and prevent sticking
- High flow rate, high cycle life, suitable for vacuum application
- Modular sub-bases

Fluid	50 µm filtered air, with or without lubrication
Ambient temperature	-10 ÷ +50 °C
Fluid temperature	max +50 °C
Commutation system	spool
Ways/Positions	3/2 NC, 3/2 NO, 3/2 NC-NO, 5/2, 5/3
Pressure	max 10 bar
Control	indirect electro-pneumatic, pneumatic, manual, mechanical
Return	pneumatic spring, mechanical spring
Connections	G1/8 G1/4
Nominal Ø mm	6,5 8,5
Nominal flow rate (Nl/min)	890 1480
Valve body	G1/8 = die-cast zamak G1/4 = aluminium
Seals	nitrile rubber
Actuators	technopolymer/aluminium
Spool	aluminium
Sub-base	zamak
Electropilot	AA
Coil	U1
Power consumption	3,5 W (DC) - 5 VA (AC)
Connector	AM 5110
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC
Manual override	impulse screw - 2 positions

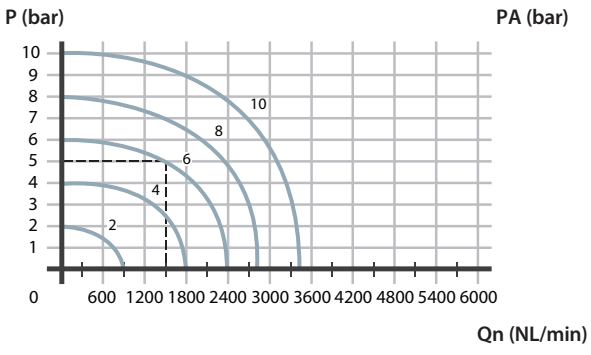
Reference standard

II 2G Ex h IIC T5 Gb

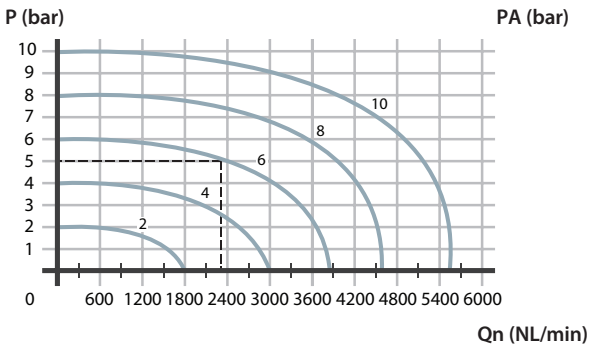
II 2D Ex h IIIC T100°C Db

FLOW RATE CHARACTERISTICS

G1/8



G1/4

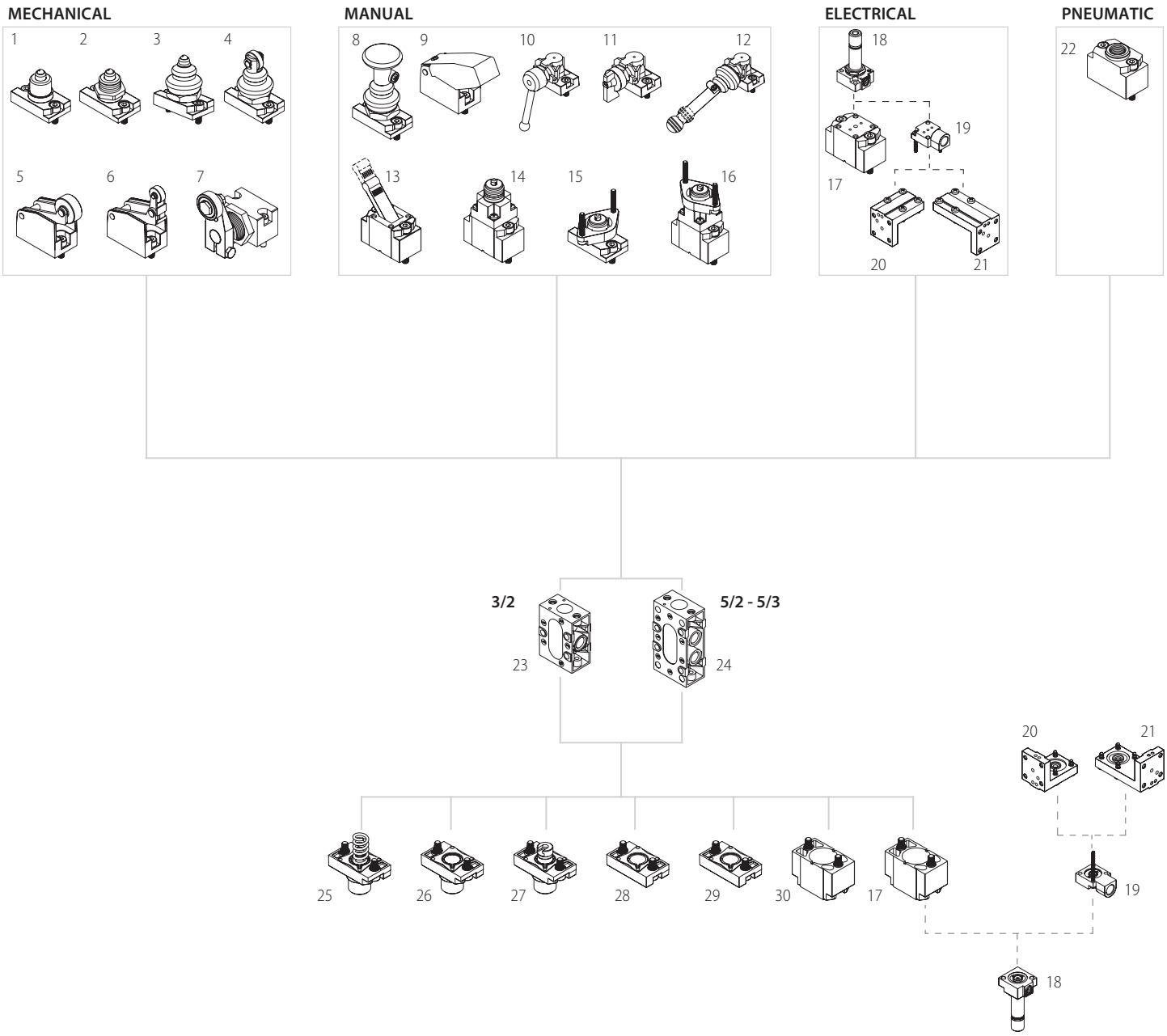


PA (bar) = upply pressure

PA (bar) = upply pressure

Qn (NL/min) = Flow rate

MODULAR SYSTEM UNIVERSAL SERIES



MECHANICAL CONTROL

1. Ball push
2. Ball push for screw panel mounting
3. Ball push with dust protection
4. Roller with dust protection
5. Roller lever
6. One-way roller lever
7. Two-way side roller lever

MANUAL OVERRIDE

8. Push-pull
9. Push button
10. Rotating lever
11. Selector
12. 90° short/Long lever
13. Short/Long lever
14. Threaded indirect oforation
15. Panel direct oforation
16. Panel indirect oforation

ELECTRICAL CONTROL

17. Electrical amplified
18. U1 electropilot
19. Plate for external pilot supply
20. Angle plate for "H" solenoid option
21. Angle plate for "P" solenoid option"

CONTROL PNEUMATIC

22. Pneumatic amplified

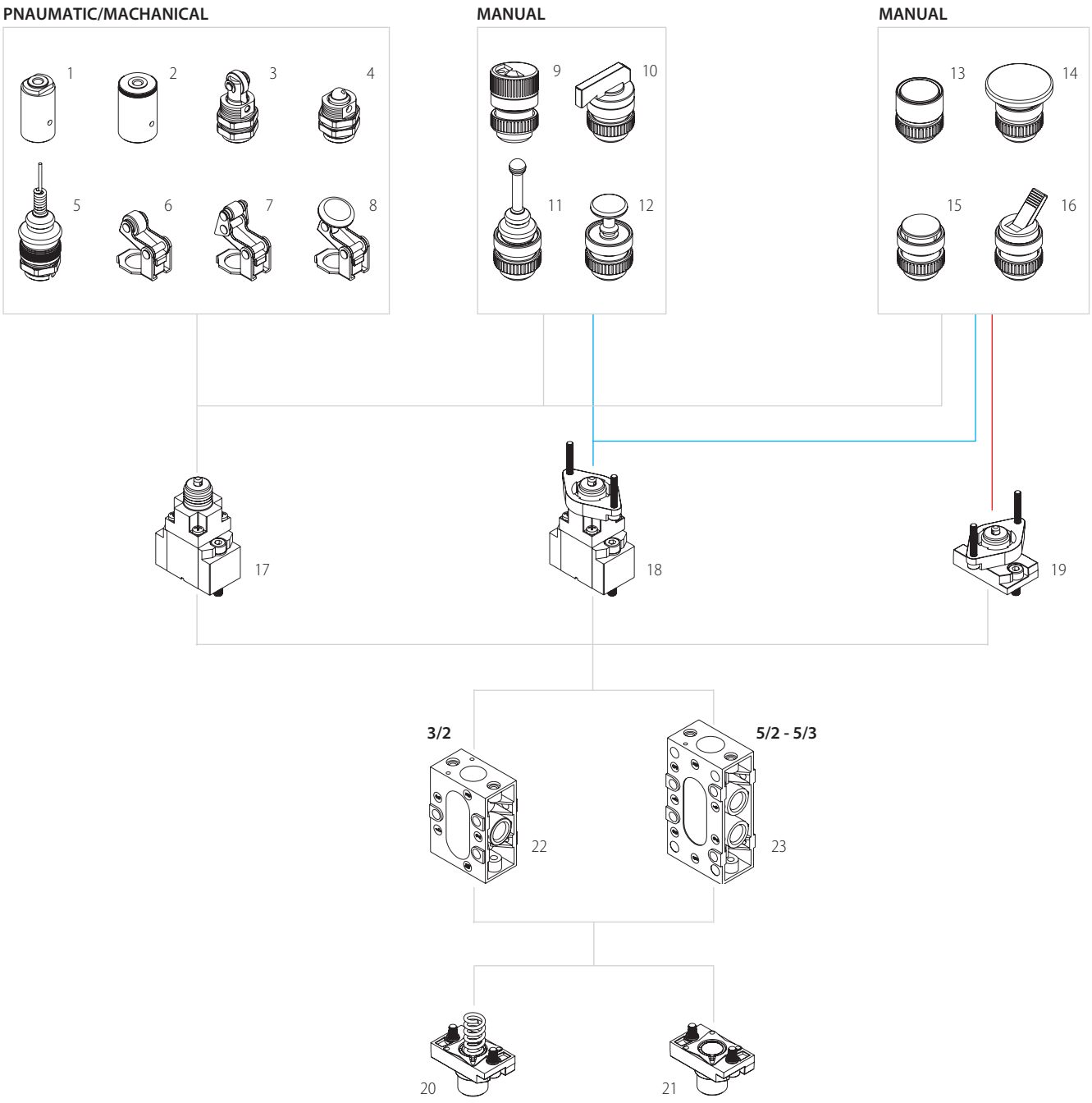
BODY

23. Body 3/2
24. Body 5/2

RETURN

25. Mechanical spring
26. Pneumatic unamplified (differential)
27. Bottom plate - 2/3 positions
28. Bottom plate
29. Pneumatic spring
30. Pneumatic amplified

MODULAR SYSTEM ACTUATORS/BUTTONS



PNAUMATIC/MACHANICAL ACTUATORS

1. Pneumatic actuators
2. Pneumatic actuators amplified
3. Roller operator 1 posiotion
4. Ball operator 1 position
5. Operator with omni-directional antenna 1 position
6. Roller lever operator 1 position
7. Articulated roller lever operator 1 position
8. Key operator 1 position

MANUAL PUSH

9. Rotating selector
10. Rotating lever selector
11. Omni-directional lever
12. Push pull actuators
13. Recessed button
14. Head button
15. Button
16. Lever operator

OVERRIDE

17. Threaded indirect operation
18. Indirect operation for panel mounting
19. Direct operation for panel mounting

RETURN

20. Mechanical spring
21. Pneumatic not amplified

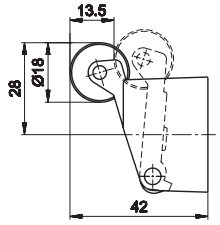
BODY

22. 3/2 Body
23. 5/2 Body

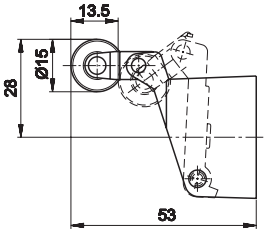
VALVES WITH DIRECT MECHANICAL OPERATION

CONTROL	BODY	RETURN

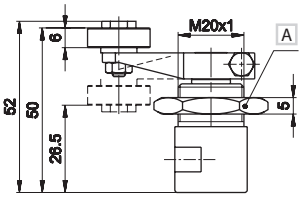
A ROLLER LEVER

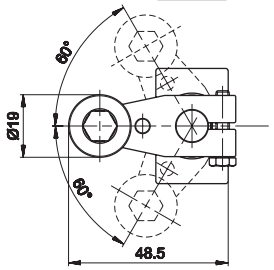


B UNI-DIRECTIONAL ROLLER LEVER



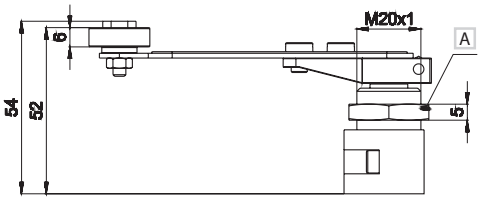
C BIDIRECTIONAL SIDE ROLLER LEVER

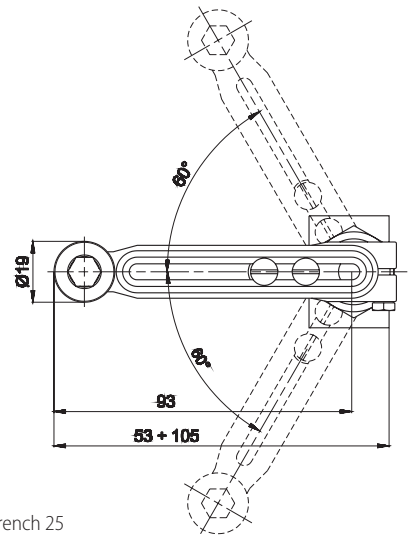




A Chiave 25

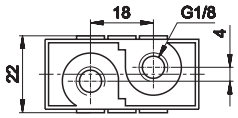
D ADJUSTABLE BIDIRECTIONAL SIDE ROLLER LEVER

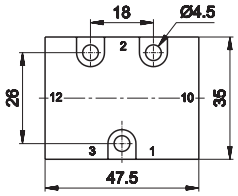




A Wrench 25

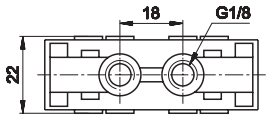
1 3/2 NC-NO

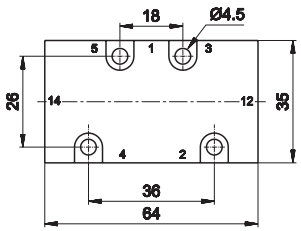




NC	NO
1 = Supply port	1 = Exhaust
2 = Use	2 = Use
3 = Exhaust	3 = Supply port
12= Control	12 = Control
10= Return	10 = Return

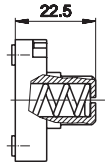
2 5/2



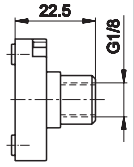


1 = Supply port
2 - 4= Use
3 - 5= Exhaust
14= Control
12= Return

I MECHANICAL SPRING



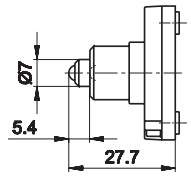
L PNEUMATIC NOT AMPLIFIED



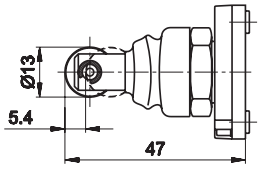
VALVES WITH DIRECT MECHANICAL OPERATION

CONTROL	BODY	RETURN

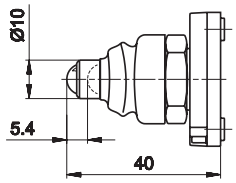
E BALL-PUSH



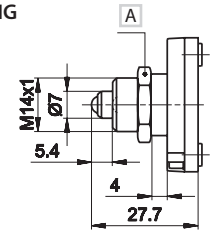
F ROLLER WITH DUST PROTECTION



G BALL-PUSH WITH DUST PROTECTION

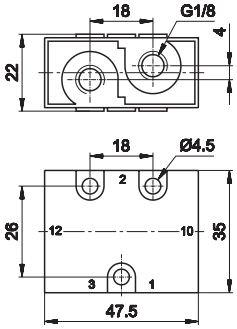


H BALL-PUSH FOR SCREW PANEL MOUNTING



A Wrench 18

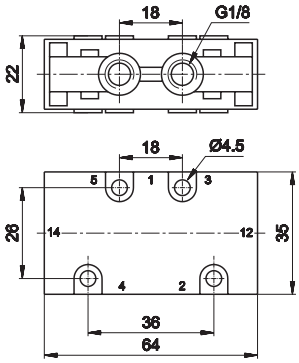
1 3/2 NC-NO



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

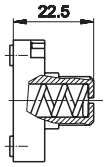
NO
1 = Exhaust
2 = Use
3 = Supply port
12 = Control
10 = Return

2 5/2

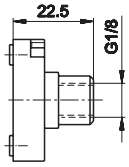


1 = Supply port
2 - 4= Use
3 - 5= Exhaust
14= Control
12= Return

I MECHANICAL SPRING



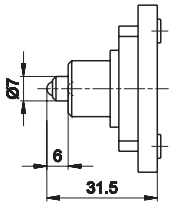
L PNEUMATIC NOT AMPLIFIED



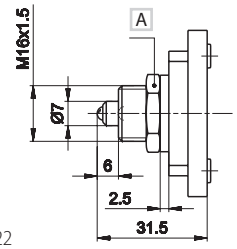
VALVES WITH DIRECT MECHANICAL OPERATION

CONTROL	BODY	RETURN

E BALL VALVE

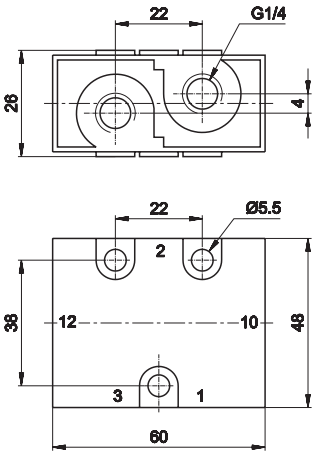


H BALL VALVE WITH FLANGE MOUNTING



A Wrench 22

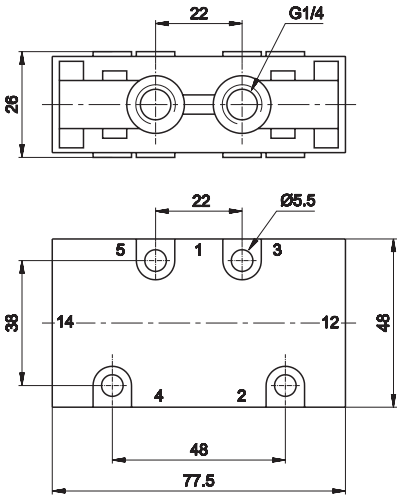
1 3/2 NC-NO



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

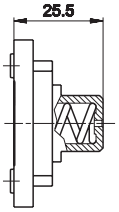
NO
1 = Supply port
2 = Use
3 = Exhaust
12= Control
10= Return

2 5/2

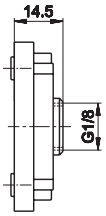


1 = Supply port
2 - 4= Use
3 - 5= Exhaust
14= Control
12= Return

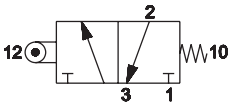
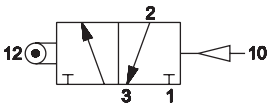
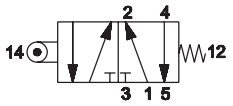
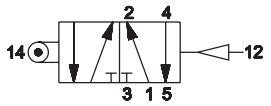
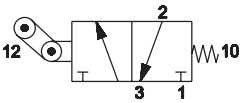
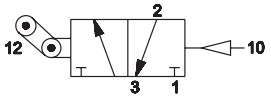
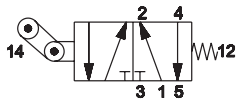
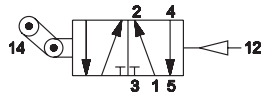
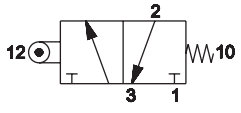
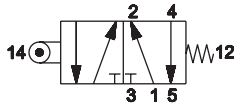
I MECHANICAL SPRING



L NON-AMPLIFIED PNEUMATIC

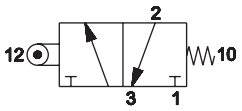
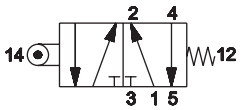
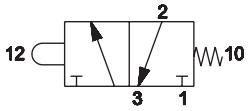
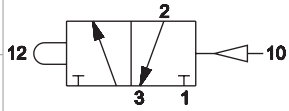
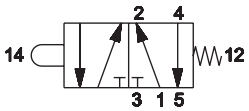
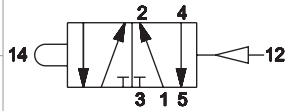
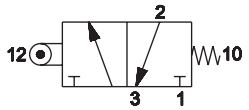
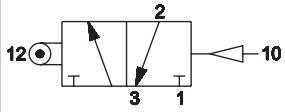
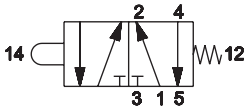
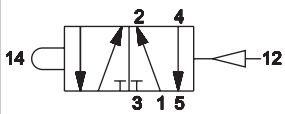


VALVES WITH DIRECT MECHANICAL OPERATION

	Code	Way	Thread	Return	Flow rate (Nl/min)	Ø mm	Weight kg	Force N	Composition Control	Body	Return	tot. L mm	
ROLLER LEVER													
	CL-100A	3/2 NC - NO	G1/8	mechanical spring	890	6,5	0,21	23	A	1	I	112	
	CL-100P	3/2 NC - NO	G1/8	pneumatic not amplified	890	6,5	0,21	6	A	1	L	112	
	CM-400A	5/2	G1/8	mechanical spring	890	6,5	0,25	23	A	2	I	129	
	CM-400P	5/2	G1/8	pneumatic not amplified	890	6,5	0,25	6	A	2	L	129	
ONE-WAY ROLLER LEVER													
	CL-101A	3/2 NC - NO	G1/8	mechanical spring	890	6,5	0,22	18	B	1	I	123	
	CL-101P	3/2 NC - NO	G1/8	pneumatic not amplified	890	6,5	0,22	6	B	1	L	123	
	CM-401A	5/2	G1/8	mechanical spring	890	6,5	0,26	18	B	2	I	139,5	
	CM-401P	5/2	G1/8	pneumatic not amplified	890	6,5	0,26	6	B	2	L	139,5	
TWO-WAY SIDE ROLLER LEVER													
	CL-106A	3/2 NC - NO	G1/8	mechanical spring	890	6,5	0,30	25	C	1	I	118,5	
	CM-406A	5/2	G1/8	mechanical spring	890	6,5	0,34	25	C	2	I	135	

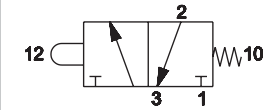
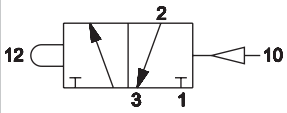
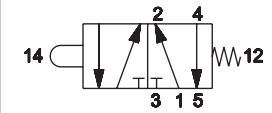
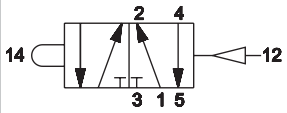
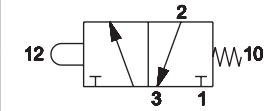
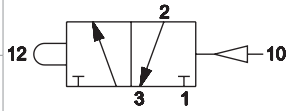
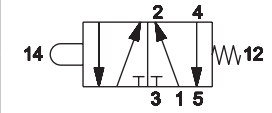
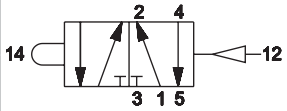
To get 3/2 NO version, supply the valve from port 3

VALVES WITH DIRECT MECHANICAL OPERATION

Code	Way	Thread	Return	Flow rate (Nl/min)	Ø mm	Weight kg	Force N	Composition Control	Composition Body	Composition Return	tot. L mm	
TWO-WAY ADJUSTABLE ROLLER LEVER												
 CL-106AL	3/2 NC - NO	G1/8	mechanical spring	890	6,5	0,30	25	D	1	I	123÷175	
 CM-406AL	5/2	G1/8	mechanical spring	890	6,5	0,34	25	D	2	I	139,5÷191,5	
BALL-PUSH												
 CL-102A	3/2 NC - NO	G1/8	mechanical spring	890	6,5	0,19	64	E	1	I	97,7	
CL-9102A	3/2 NC - NO	G1/4	mechanical spring	1480	8,5	0,26	68	E	1	I	117	
CL-102P	3/2 NC - NO	G1/8	pneumatic not amplifi ed	890	6,5	0,19	25	E	1	L	97,7	
CL-9102P	3/2 NC - NO	G1/4	pneumatic not amplifi ed	1480	8,5	0,26	26	E	1	L	106	
 CM-402A	5/2	G1/8	mechanical spring	890	6,5	0,23	64	E	2	I	114,2	
CM-9402A	5/2	G1/4	mechanical spring	1480	8,5	0,28	68	E	2	I	134,5	
CM-402P	5/2	G1/8	pneumatic not amplifi ed	890	6,5	0,23	25	E	2	L	114,2	
CM-9402P	5/2	G1/4	pneumatic not amplifi ed	1480	8,5	0,28	26	E	2	L	123,5	
WITH ROLLER NEEDLE AND DUST COVER												
 CL-105A	3/2 NC - NO	G1/8	mechanical spring	890	6,5	0,19	64	F	1	I	117	
CL-105P	3/2 NC - NO	G1/8	pneumatic not amplifi ed	890	6,5	0,18	25	F	1	L	117	
 CM-405A	5/2	G1/8	mechanical spring	890	6,5	0,23	68	F	2	I	133,5	
CM-405P	5/2	G1/8	pneumatic not amplifi ed	890	6,5	0,22	26	F	2	L	133,5	

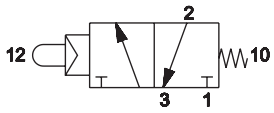
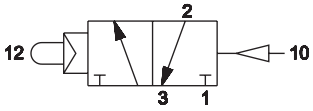
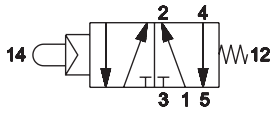
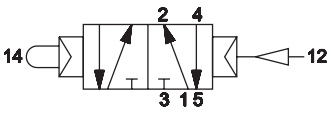
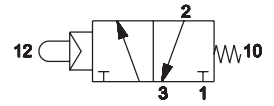
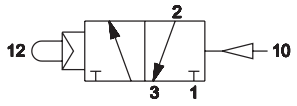
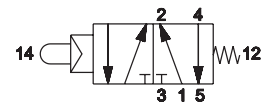
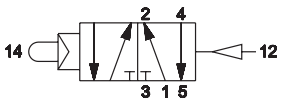
To get 3/2 NO version, supply the valve from port 3

VALVES WITH DIRECT MECHANICAL OPERATION

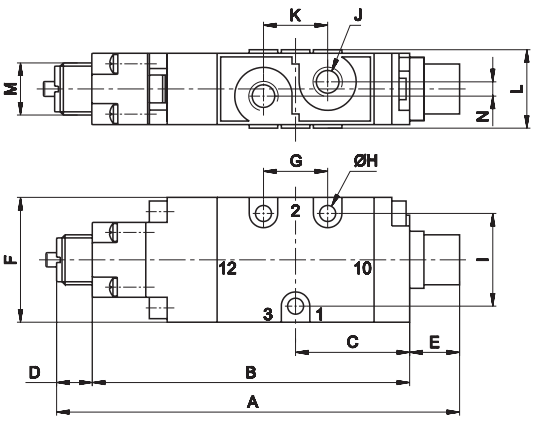
Code	Way	Thread	Return	Flow rate (Nl/min)	Ø mm	Weight kg	Force N	Composition Control	Body	Return	tot. L mm	
ROLLER WITH DUST PROTECTION												
 **CL-104A**	3/2 NC - NO	G1/8	mechanical spring	890	6,5	0,19	64	G	1	I	110	
CL-104P	3/2 NC - NO	G1/8	pneumatic not amplifi ed	890	6,5	0,18	25	G	1	L	110	
 **CM-404A**	5/2	G1/8	mechanical spring	890	6,5	0,23	68	G	2	I	126,5	
CM-404P	5/2	G1/8	pneumatic not amplifi ed	890	6,5	0,22	26	G	2	L	126,5	
BALL-PUSH WITH DUST PROTECTION												
CL-103A	3/2 NC - NO	G1/8	mechanical spring	890	6,5	0,19	64	H	1	I	97,7	
 **CL-9103A**	3/2 NC - NO	G1/4	mechanical spring	1480	8,5	0,26	68	H	1	I	117	
CL-103P	3/2 NC - NO	G1/8	pneumatic not amplifi ed	890	6,5	0,18	25	H	1	L	97,7	
CL-9103P	3/2 NC - NO	G1/4	pneumatic not amplifi ed	1480	8,5	0,24	26	H	1	L	106	
CM-403A	5/2	G1/8	mechanical spring	890	6,5	0,23	68	H	2	I	114,2	
 **CM-9403A**	5/2	G1/4	mechanical spring	1480	8,5	0,28	68	H	2	I	134,5	
CM-403P	5/2	G1/8	pneumatic not amplifi ed	890	6,5	0,22	25	H	2	L	114,2	
CM-9403P	5/2	G1/4	pneumatic not amplifi ed	1480	8,5	0,26	26	H	2	L	123,5	

To get 3/2 NO version, supply the valve from port 3

VALVES WITH INDIRECT MECHANICAL OPERATOR FOR PNEUMATIC AND MECHANICAL ACTUATORS

Code	Way	Thread	Return	Pressure bar	Flow rate (Nl/min)	Ø mm	Weight kg	Force N	
PUNTALE A SFERA									
									
CL-110A	3/2 NC	G 1/8	mechanical spring	2,5÷10	890	6,5	0,19	11	
CL-9110A	3/2 NC	G 1/4	mechanical spring	2÷10	1480	8,5	0,26	11	
CL-110P	3/2 NC	G 1/8	pneumatic not amplified	1÷10	890	6,5	0,18	11	
CL-9110P	3/2 NC	G 1/4	pneumatic not amplified	1÷10	1480	8,5	0,24	11	
									
CM-410A	5/2	G 1/8	mechanical spring	3÷10	890	6.5	0,23	11	
CM-9410A	5/2	G 1/4	mechanical spring	2÷10	1480	8,5	0,28	11	
CM-410P	5/2	G 1/8	pneumatic not amplified	1,2÷10	890	6,5	0,22	11	
CM-9410P	5/2	G 1/4	pneumatic not amplified	1,2÷10	1480	8,5	0,26	11	
PUNTALE A SFERA SENSIBILE									
									
CL-111A	3/2 NC	G 1/8	mechanical spring	2,5÷10	890	6,5	0,19	3	
CL-9111A	3/2 NC	G 1/4	mechanical spring	2÷10	1480	8,5	0,26	3	
CL-111P	3/2 NC	G 1/8	pneumatic not amplified	1÷10	890	6,5	0,18	3	
CL-9111P	3/2 NC	G 1/4	pneumatic not amplified	1÷10	1480	8,5	0,24	3	
									
CM-411A	5/2	G 1/8	mechanical spring	3÷10	890	6.5	0,23	3	
CM-9411A	5/2	G 1/4	mechanical spring	2÷10	1480	8,5	0,28	3	
CL-411P	5/2	G 1/8	pneumatic not amplified	1,2÷10	890	6,5	0,22	3	
CL-9411P	5/2	G 1/4	pneumatic not amplified	1,2÷10	1480	8,5	0,26	3	

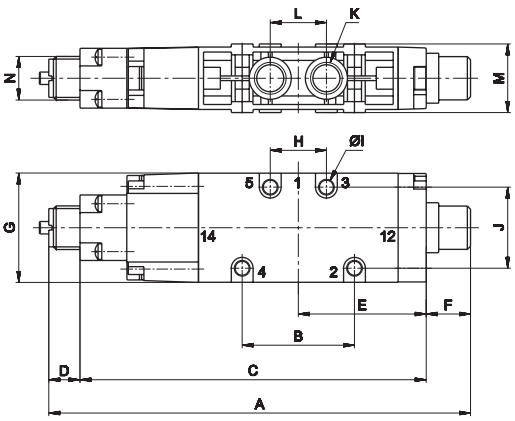
3/2 NC



	A	B	C	D	E	F	G	H	I	J	K	L	M	N
G1/8	116	92	32	10	14	35	18	4,5	26	G1/8	18	22	M14x1	4
G1/4	136,5	112	41	10	14,5	48	22	5,5	38	G1/4	22	26	M14x1	4

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

5/2

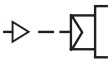


	A	B	C	D	E	F	G	H	I	J	K	L	M	N
G1/8	135	36	111	10	41	14	35	18	4,5	26	G1/8	18	22	M14x1
G1/4	154	48	129,5	10	49,7	14,5	48	22	5,5	38	G1/4	22	26	M14x1

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

VALVES WITH INDIRECT MECHANICAL OPERATOR FOR PNEUMATIC AND MECHANICAL ACTUATORS

PNEUMATIC AND MECHANICAL ACTUATORS

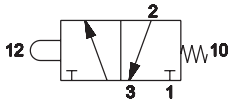
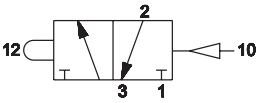
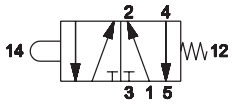
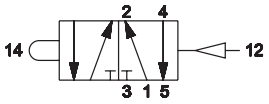
	AI-3550	Pneumatic operator	
	AI-3551	Amplified pneumatic operator	
	AI-3560	Roller operator 1 position	
	AI-3562	Ball-push operator 1 position	
	AI-3563	Operator with omni-directional antenna 1 position	
	AI-3570	Roller lever operator 1 position	
	AI-3571	Articulated roller operator 1 position Complete actuation with stroke 2,5 mm, max stroke 4,7 mm	
	AI-3572	Key operator 1 position	

MANUAL ACTUATORS

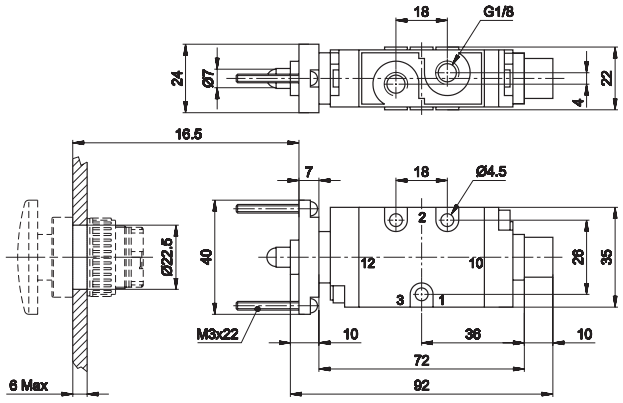
	AI-3511	■ BLACK	Recessed button	
	AI-3512	■ RED		
	AI-3513	■ GREEN		
	AI-3514	■ RED	Head button	
	AI-3516	■ BLACK		
	AI-3514D	■ RED		
	AI-3516D	■ BLACK		
	AI-3515	■ GREEN	Button	
	AI-3517	■ RED		
	AI-3519	■ BLACK		
	AI-3520	■ BLACK	Accident prevention rotating selector	
	AI-3521	■ BLACK		
	AI-3522	■ BLACK	Rotating lever selector	
	AI-3523	■ BLACK		
	AI-3524	■ BLACK	Lever operator	
	AI-3525	■ BLACK	Omni - directional operator	
	AI-3526	■ BLACK	Push-pull operator	

To get 3/2 NO version, supply the valve from port 3

DIRECT-ACTING VALVES FOR PANEL-MOUNTED ACTUATORS

	Code	Way	Thread	Return	Pressure bar	Flow rate (Nl/min)	Ø mm	Weight kg	Force N	
BALL-PUSH										
	CL-112A	3/2 NC - NO	G1/8	mechanical spring	0 ÷10	890	6,5	0,19	64	
	CL-112P	3/2 NC - NO	G1/8	pneumatic not amplified	0 ÷10	890	6,5	0,18	25	
	CM-412A	5/2	G1/8	mechanical spring	0 ÷10	890	6,5	0,23	64	
	CM-412P	5/2	G1/8	pneumatic not amplified	0 ÷10	890	6,5	0,22	25	

3/2 NC-NO



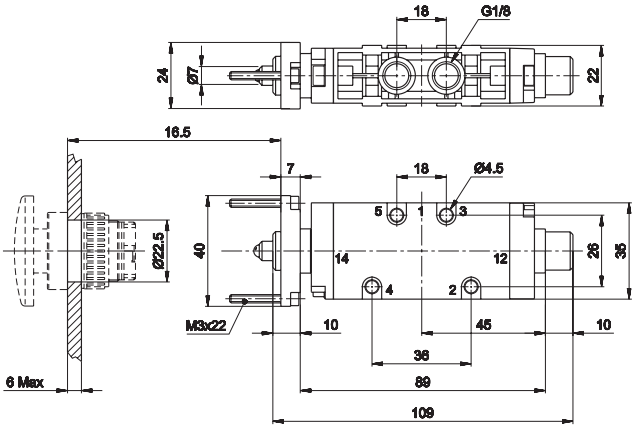
NC

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

NO

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

5/2



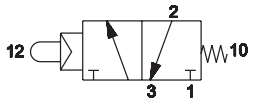
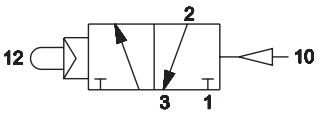
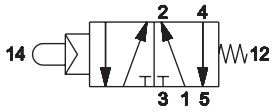
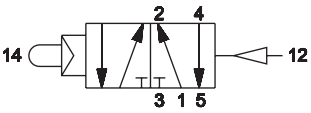
1 = Supply port
2 - 4 = Use
3 - 5 = Exhaust
14 = Control
12 = Return

MANUAL ACTUATORS

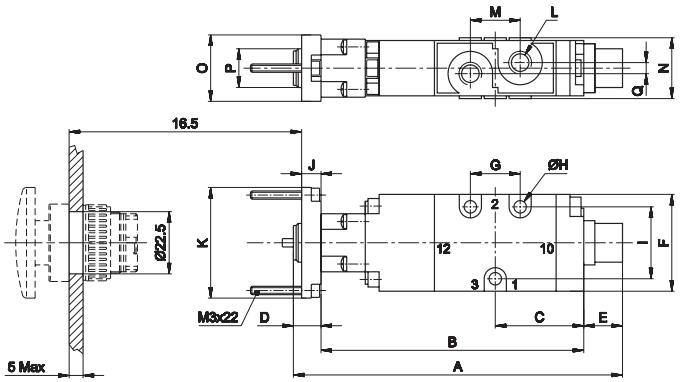
	AI-3511Q	■ BLACK	Recessed button	
	AI-3512Q	■ RED		
	AI-3513Q	■ GREEN		
	AI-3514Q	■ RED	Head button	
	AI-3516Q	■ BLACK		
	AI-3514QD	■ RED		
	AI-3516QD	■ BLACK		
	AI-3515Q	■ GREEN	Button	
	AI-3517Q	■ RED		
	AI-3519Q	■ BLACK		
	AI-3524Q	■ BLACK	Lever operator	

VALVOLE AD AZIONAMENTO INDIRETTO PER ATTUATORI DA QUADRO

PUNTALE A SFERA

	Code	Way	Thread	Return	Pressure bar	Flow rate (Nl/min)	Ø mm	Weight kg	Force N	
	CL-113A	3/2 NC	G 1/8	molla meccanica	2,5÷10	890	6,5	0,20	11	
	CL-9113A	3/2 NC	G 1/4	molla meccanica	2÷10	1480	8,5	0,27	11	
	CL-113P	3/2 NC	G 1/8	pneumatico non amplificato	1÷10	890	6,5	0,19	11	
	CL-9113P	3/2 NC	G 1/4	pneumatico non amplificato	1÷10	1480	8,5	0,26	11	
	CM-413A	5/2	G 1/8	molla meccanica	3÷10	890	6,5	0,24	11	
	CM-9413A	5/2	G 1/4	molla meccanica	2÷10	1480	8,5	0,25	11	
	CL-413P	5/2	G 1/8	pneumatico non amplificato	1,2÷10	890	6,5	0,23	11	
	CL-9413P	5/2	G 1/4	pneumatico non amplificato	1,2÷10	1480	8,5	0,28	11	

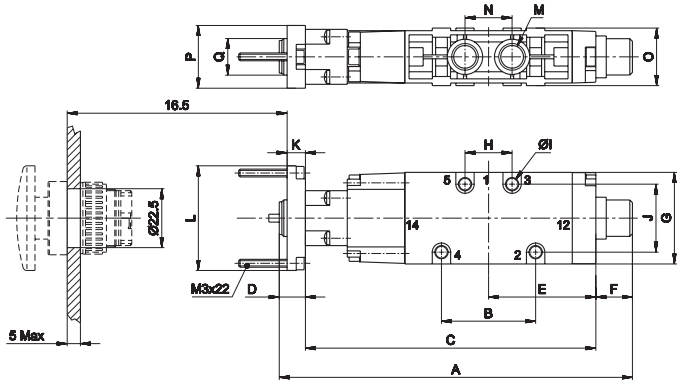
3/2 NC



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
G1/8	116	92	32	10	14	35	18	4,5	26	7	40	G1/8	18	22	24	M14x1	4
G1/4	136,5	112	41	10	14,5	48	22	5,5	38	7	40	G1/4	22	26	24	M14x1	4

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

5/2



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
G1/8	135	36	111	10	41	14	35	18	4,5	22	7	40	G1/8	18	22	24	M14x1
G1/4	154	48	129,5	10	49,7	14,5	48	22	5,5	26	7	40	G1/4	22	26	24	M14x1

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

MANUAL ACTUATORS

	AI-3511Q	■ BLACK	Recessed button	
	AI-3512Q	■ RED		
	AI-3513Q	■ GREEN		
	AI-3514Q	■ RED	Head button	
	AI-3516Q	■ BLACK		
	AI-3514QD	■ RED		
	AI-3516QD	■ BLACK		
	AI-3515Q	■ GREEN	Button	
	AI-3517Q	■ RED		
	AI-3519Q	■ BLACK		
	AI-3520Q	■ BLACK	Accident prevention rotating selector	
	AI-3521Q	■ BLACK		

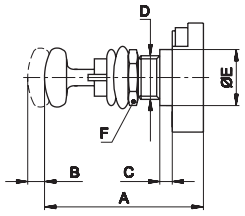
MANUAL ACTUATORS

	AI-3522Q	■ BLACK	Rotating lever selector	
	AI-3523Q	■ BLACK		
	AI-3524Q	■ BLACK	Lever operator	
	AI-3525Q	■ BLACK	Omni - directional operator	
	AI-3526Q	■ BLACK	Push-pull operator	

MANUALLY OPERATED VELVES

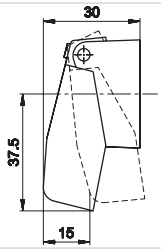
CONTROL | BODY | RETURN

A PUSH-PULL

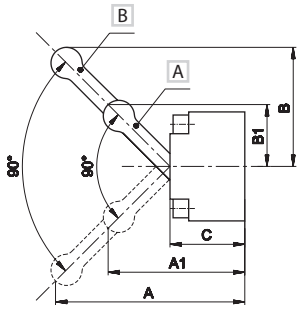


	A	B	C	D	E	F
G1/8	51	5,4	4	M14x1	16	18
G1/4	52,5	6	2,5	M16x1,5	22	22

B BUTTON



C LONG/SHORT LEVER

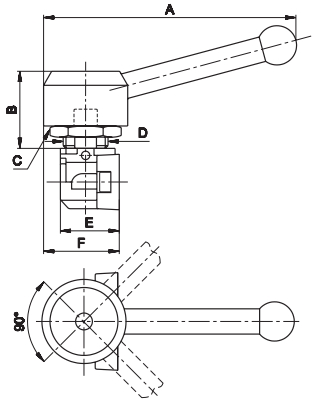


A Short lever
B Long lever

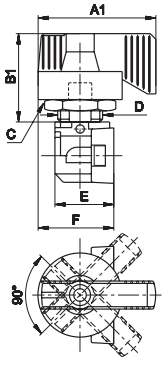
	A	A1	B	B1	C
G1/8	56	42	38,5	24	22,5

	A	B	C
G1/4	58,5	32	26

D ROTATING LEVER

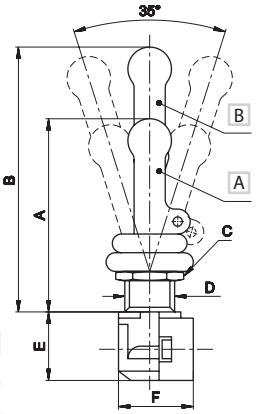


SELECTOR



	A	A1	B	B1	C	D	E	F
G1/8	89	42	32	29	22	M16x1,5	22	27
G1/4	89	42	32	29	24	M18x1,5	25	27,5

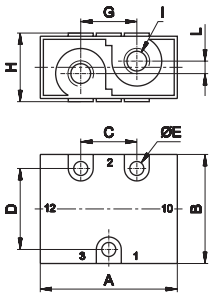
E 90° LEVER



A Leva corta
B Leva lunga

	A	B	C	D	E	F
G1/8	62	85	22	M16x1,5	21,5	22
G1/4	90	110	24	M18x1,5	29	25

1 3/2 NC-NO

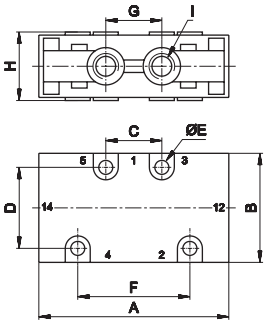


NC
1 = Supply port
2 = Use
3 = Exhaust
12 = Control
10 = Return

NO
1 = Supply port
2 = Use
3 = Exhaust
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

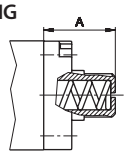
2 5/2 - 5/3



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

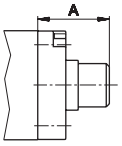
	A	B	C	D	E	F	G	H	I
G1/8	64	35	18	26	4,5	36	18	22	G1/8
G1/4	77,5	48	22	38	5,5	48	22	26	G1/4

F MECHANICAL SPRING



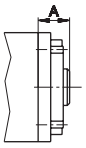
	A
G1/8	22,5
G1/4	25,5

G 2/3 POSITION



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

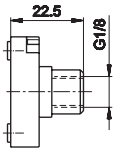
H BOTTOM PLATE WITHOUT SPRING



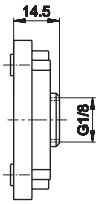
	A
G1/8	22,5
G1/4	25,5

I PNEUMATIC NOT AMPLIFIED

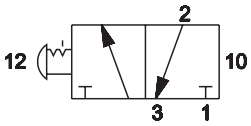
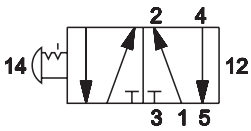
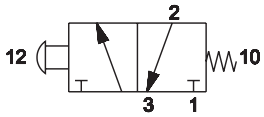
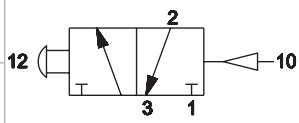
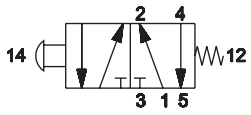
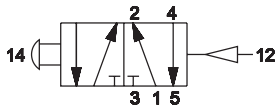
G1/8



G1/4



MANUALLY OPERATED VALVES

	Code	Way	Thread	Return	Flow rate (Nl/min)	Ø mm	Weight kg	Force N	Composition Control	Body	Return	tot. L mm	
PUSH-PULL													
	CL-120	3/2 NC - NO	G1/8	push-pull	890	6,5	0,19	25	A	1	H	108,5	
	CL-9120	3/2 NC - NO	G1/4	push-pull	1480	8,5	0,26	26	A	1	H	127	
	CM-420	5/2	G1/8	push-pull	890	6,5	0,22	25	A	2	H	125	
	CM-9420	5/2	G1/4	push-pull	1480	8,5	0,26	26	A	2	H	144,5	
	CL-120A	3/2 NC - NO	G1/8	mechanical spring	890	6,5	0,19	25	A	1	F	121	
	CL-9120A	3/2 NC - NO	G1/4	mechanical spring	1480	8,5	0,26	26	A	1	F	138	
	CL-120P	3/2 NC - NO	G1/8	pneumatic not amplified	890	6,5	0,18	25	A	1	I	121	
	CL-9120P	3/2 NC - NO	G1/4	pneumatic not amplified	1480	8,5	0,24	26	A	1	I	127	
	CM-420A	5/2	G1/8	mechanical spring	890	6,5	0,22	25	A	2	F	137,5	
	CM-9420A	5/2	G1/4	mechanical spring	1480	8,5	0,26	26	A	2	F	155,5	
	CM-420P	5/2	G1/8	pneumatic not amplified	890	6,5	0,21	25	A	2	I	137,5	
	CM-9420P	5/2	G1/4	pneumatic not amplified	1480	8,5	0,24	26	A	2	I	144,5	

YELLOW CP-911G

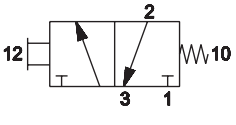
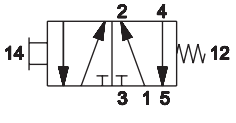
RED CP-911R

BLACK CP-911N

GREEN CP-911V

valves are supplied without operator button

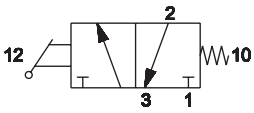
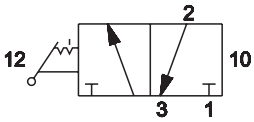
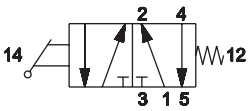
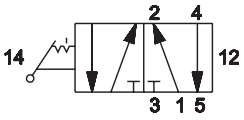
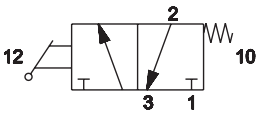
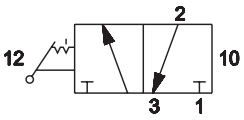
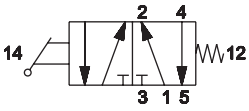
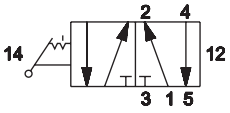
BUTTON

	CL-126A	3/2 NC - NO	G1/8	mechanical spring	890	6,5	0,20	15	B	1	F	100	
	CM-426A	5/2	G1/8	mechanical spring	890	6,5	0,23	15	B	2	F	116,5	

STANDARD ■ ROSSO

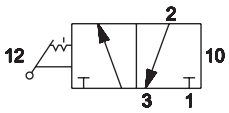
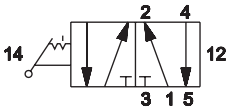
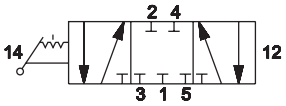
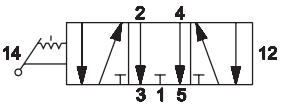
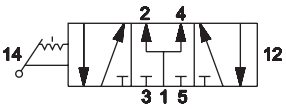
To get 3/2 NO version, supply the valve from port 3

MANUALLY OPERATED VELVES

Code	Way	Thread	Return	Flow rate (Nl/min)	Ø mm	Weight kg	Force N	Composition Control	Body	Return	tot. L mm		
LONG LEVER													
													
CL-118R	3/2 NC - NO	G1/8	mechanical spring	890	6,5	0,17	10	C	1	F	126		LONG LEVER STANDARD ■ RED
CL-9118R	3/2 NC - NO	G1/4	mechanical spring	1480	8,5	0,23	11	C	1	F	144		
CL-121R	3/2 NC - NO	G1/8	lever	890	6,5	0,16	10	C	1	G	126		
CL-9121R	3/2 NC - NO	G1/4	lever	1480	8,5	0,22	11	C	1	G	144		
													
CM-418R	5/2	G1/8	mechanical spring	890	6,5	0,21	10	C	2	F	142,5		LONG LEVER UPON REQUEST ■ YELLOW ■ BLACK
CM-9418R	5/2	G1/4	mechanical spring	1480	8,5	0,25	11	C	2	F	161,5		
CM-421R	5/2	G1/8	lever	890	6,5	0,20	10	C	2	G	142,5		
CM-9421R	5/2	G1/4	lever	1480	8,5	0,24	11	C	2	G	161,5		
SHORT LEVER													
													
CL-119R	3/2 NC - NO	G1/8	mechanical spring	890	6,5	0,17	20	C	1	F	112		SHORT LEVER STANDARD ■ RED
CL-122R	3/2 NC - NO	G1/8	lever	890	6,5	0,16	20	C	1	G	112		
													
CM-419R	5/2	G1/8	mechanical spring	890	6,5	0,21	20	C	2	F	128,5		SHORT LEVER UPON REQUEST ■ YELLOW ■ BLACK ■ GREEN
CM-422R	5/2	G1/8	lever	890	6,5	0,20	20	C	2	G	128,5		

To get 3/2 NO version, supply the valve from port 3

VALVOLE AD AZIONAMENTO MANUALE

Code	Way	Thread	Return	Flow rate (Nl/min)	Ø mm	Weight kg	Force N	Composition Control	Body	Return	tot. L mm	
ROTATING LEVER												
 **CL-130**	3/2 NC - NO	G1/8	rotating lever	890	6,5	0,22	27	D	1	G	97	
CL-9130	3/2 NC - NO	G1/4	rotating lever	1480	8,5	0,25	29	D	1	G	113	
 **CM-430**	5/2	G1/8	rotating lever	890	6,5	0,25	27	D	2	G	113,5	
CM-9430	5/2	G1/4	rotating lever	1480	8,5	0,27	29	D	2	G	130,5	
CM-430E	5/3 **C.C.**	G1/8	rotating lever	890	6,5	0,25	27	D	2	G	113,5	
CM-9430E	5/3 **C.C.**	G1/4	rotating lever	1480	8,5	0,27	29	D	2	G	130,5	
 **CM-435E**	5/3 **O.C**	G1/8	rotating lever	890	6,5	0,24	27	D	2	G	113,5	
CM-9435E	5/3 **O.C**	G1/4	rotating lever	1480	8,5	0,26	29	D	2	G	130,5	
CM-440E	5/3 **P.C.**	G1/8	rotating lever	890	6,5	0,24	27	D	2	G	113,5	
CM-9440E	5/3 **P.C.**	G1/4	rotating lever	1480	8,5	0,26	29	D	2	G	130,5	

■ RED
CP-915R

■ RED
CP-916R

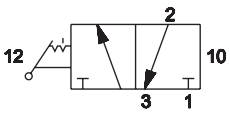
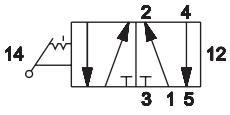
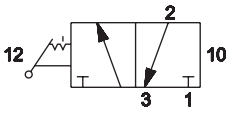
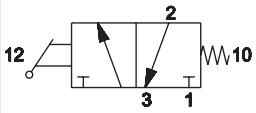
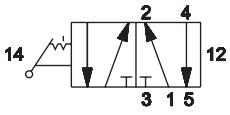
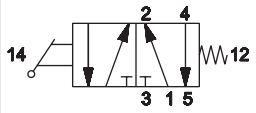
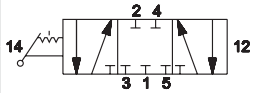
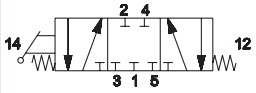
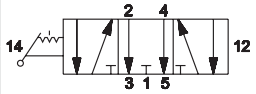
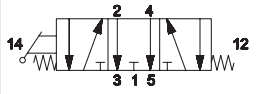
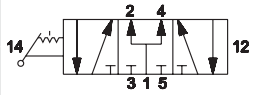
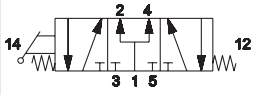
C.C. = open centres **O.C.** = closed centres **P.C.** = pressurized centres

Valves are supplied without operator

To get 3/2 NO version, supply the valve from port 3

MANUALLY OPERATED VELVES

90° LEVER - 3 POSITION

Code	Way	Thread	Return	Flow rate (Nl/min)	Ø mm	Weight kg	Force N	Composition Control	Body	Return	tot. L mm	
												
CL-123	3/2 NC - NO	G1/8	lever	890	6,5	0,17	2,5÷4	E	1	H	79,5	
CL-9123	3/2 NC - NO	G1/4	lever	1480	8,5	0,23	2,7÷4,5	E	1	H	99,5	
												
CM-423	5/2	G1/8	lever	890	6,5	0,23	2,5÷4	E	2	H	96	
CM-9423	5/2	G1/4	lever	1480	8,5	0,28	2,7÷4,5	E	2	H	117,5	
												
CL-123D	3/2 NC - NO	G1/8	lever	890	6,5	0,17	3,5÷5	E	1	G	92	
CL-9123D	3/2 NC - NO	G1/4	lever	1480	8,5	0,23	3,6÷5,2	E	1	G	110,5	
CL-123A	3/2 NC - NO	G1/8	mechanical spring	890	6,5	0,18	9 ÷13	E	1	F	92	
CL-9123A	3/2 NC - NO	G1/4	mechanical spring	1480	8,5	0,24	10÷14	E	1	F	110,5	
												
CM-423D	5/2	G1/8	lever	890	6,5	0,23	3,5÷5	E	2	G	108,5	
CM-9423D	5/2	G1/4	lever	1480	8,5	0,28	3,6÷5,2	E	2	G	128	
CM-423A	5/2	G1/8	mechanical spring	890	6,5	0,23	9 ÷13	E	2	F	108,5	
CM-9423A	5/2	G1/4	mechanical spring	1480	8,5	0,28	10÷14	E	2	F	128	
												
CM-423E	5/3 C.C.	G1/8	lever	890	6,5	0,23	3,5 ÷ 5	E	2	G	108,5	
CM-9423E	5/3 C.C.	G1/4	lever	1480	8,5	0,28	3,6÷5,2	E	2	G	128	
CM-423F	5/3 C.C.	G1/8	lever with spring	890	6,5	0,23	6,5 ÷ 10	E	2	F	108,5	
CM-9423F	5/3 C.C.	G1/4	lever with spring	1480	8,5	0,28	6,7÷11	E	2	G	128	
CM-424E	5/3 O.C.	G1/8	lever	890	6,5	0,23	3,5 ÷ 5	E	2	G	108,5	
CM-9424E	5/3 O.C.	G1/4	lever	1480	8,5	0,28	3,6÷5,2	E	2	G	128	
CM-424F	5/3 O.C.	G1/8	lever with spring	890	6,5	0,23	6,5 ÷ 10	E	2	F	108,5	
CM-9424F	5/3 O.C.	G1/4	lever with spring	1480	8,5	0,28	6,7÷11	E	2	G	128	
CM-425E	5/3 P.C.	G1/8	lever	890	6,5	0,23	3,5 ÷ 5	E	2	G	108,5	
CM-9425E	5/3 P.C.	G1/4	lever	1480	8,5	0,28	3,6÷5,2	E	2	G	128	
CM-425F	5/3 P.C.	G1/8	lever with spring	890	6,5	0,23	6,5 ÷ 10	E	2	F	108,5	
CM-9425F	5/3 P.C.	G1/4	lever with spring	1480	8,50	0,28	6,7÷11	E	2	G	128	

LONG LEVER

RED **CP-913R**

SHORT LEVER

YELLOW **CP-912G**

RED **CP-912R**

BLACK **CP-912N**

C.C. = open centres **O.C.** = closed centres **P.C.** = pressurized centres

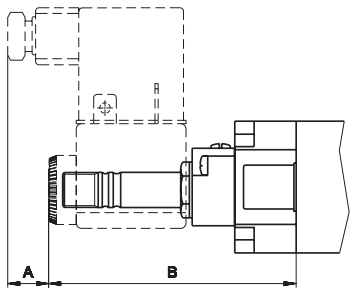
Valves are supplied without operator

To get 3/2 NO version, supply the valve from port 3

VALVES WITH PNEUMATIC / ELECTRIC CONTROL

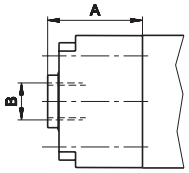
CONTROL | BODY | RETURN

A ELECTRIC/AMPLIFIED



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

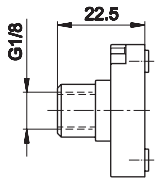
B PNEUMATIC AMPLIFIED



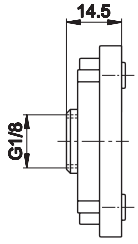
	A	B
G1/8	25	G1/8
G1/4	28,5	G1/8

C PNEUMATIC NOT AMPLIFIED

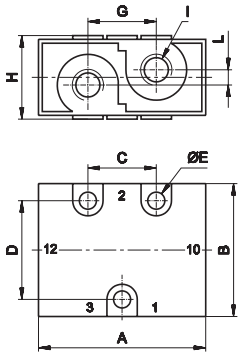
G1/8



G1/4



1 3/2 NC-NO



NC

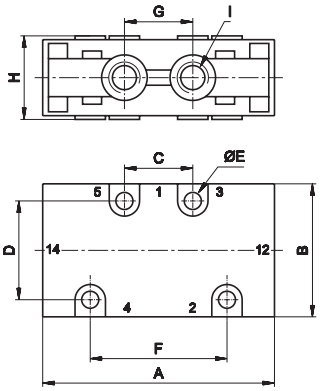
1 = Supply port
2 = Use
3 = Exhaust
12 = Control
10 = Return

NO

1 = Supply port
2 = Use
3 = Exhaust
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

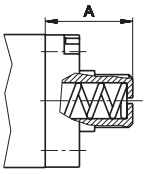
2 5/2



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

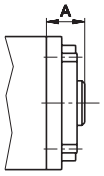
	A	B	C	D	E	F	G	H	I
G1/8	64	35	18	26	4,5	36	18	22	G1/8
G1/4	77,5	48	22	38	5,5	48	22	26	G1/4

D MECHANICAL SPRING



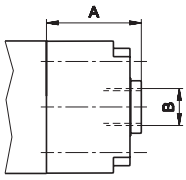
	A
G1/8	22,5
G1/4	25,5

E PNEUMATIC SPRING



	A
G1/8	10
G1/4	14,5

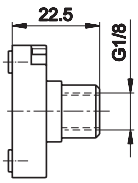
F PNEUMATIC AMPLIFIED



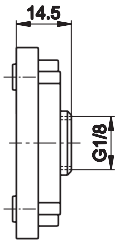
	A	B
G1/8	25	G1/8
G1/4	28,5	G1/8

G PNEUMATIC NOT AMPLIFIED

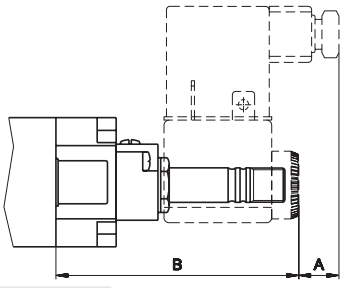
G1/8



G1/4

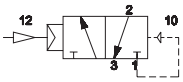
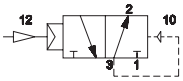
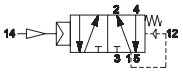
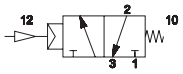
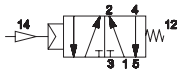


H ELECTRIC AMPLIFIED



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

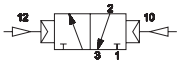
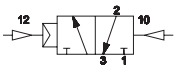
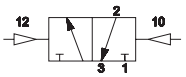
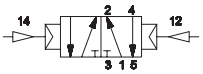
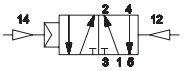
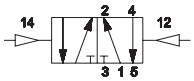
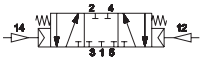
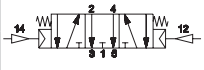
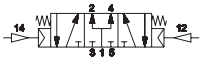
VALVES WITH PNEUMATIC CONTROL

	Code	Way	Thread	Control	Return	Press. bar	Flow rate (Nl/min)	Ø mm	Weight kg	Resp. Time (ms) Ecc.	Resp. Time (ms) Diss.	Composition Control	Composition Body	Composition Return	tot. L mm	
SINGLE IMPULSE																
	**CL-200**	3/2 NC	G1/8	pneumatic amplified,	pneumatic spring	2,3÷10	890	6,5	0,20	11	14	B	1	E	82,5	
	CL-9200	3/2 NC	G1/4	pneumatic amplified,	pneumatic spring	2÷10	1480	8,5	0,23	13	16	B	1	E	103	
	**CL-203**	3/2 NO	G1/8	pneumatic amplified,	pneumatic spring	2,3÷10	890	6,5	0,20	11	14	B	1	E	82,5	
	CL-9203	3/2 NO	G1/4	pneumatic amplified,	pneumatic spring	2÷10	1480	8,5	0,23	13	16	B	1	E	103	
	**CM-500**	5/2	G1/8	pneumatic amplified,	pneumatic spring	2,5÷10	890	6,5	0,20	10	15	B	2	E	99	
	CM-9500	5/2	G1/4	pneumatic amplified,	pneumatic spring	2÷10	1480	8,5	0,26	13	16	B	2	E	120,5	
	**CL-200A**	3/2 NC - NO	G1/8	pneumatic amplified,	pneumatic spring	2,5÷10	890	6,5	0,21	9	17	B	1	D	95	
	CL-9200A	3/2 NC - NO	G1/4	pneumatic amplified,	pneumatic spring	2÷10	1480	8,5	0,24	10	19	B	1	D	114	
	**CM-500A**	5/2	G1/8	pneumatic amplified,	mechanical spring	3÷10	890	6,5	0,19	10	18	B	2	D	111,5	
	CM-9500A	5/2	G1/4	pneumatic amplified,	mechanical spring	2÷10	1480	8,5	0,26	11	20	B	2	D	131,5	

To get 3/2 NO version, supply the valve from port 3

VALVOLE AD AZIONAMENTO PNEUMATICO

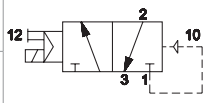
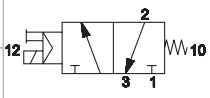
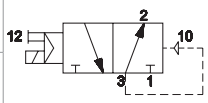
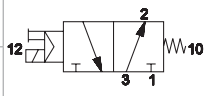
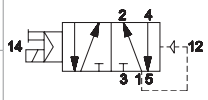
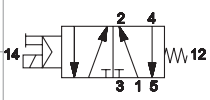
DOUBLE IMPULSE

	Code	Way	Thread	Control	Return	Press. bar	Flow rate (Nl/min)	Ø mm	Weight kg	Resp. Time (ms) Ecc.	Resp. Time (ms) Diss.	Composition Control	Composition Body	Composition Return	tot. L mm	
	CL-220	3/2 NC - NO	G1/8	pneumatic amplified	pneumatic amplified	1÷10	890	6,5	0,16	6	6	B	1	F	97,5	
	CL-9220	3/2 NC - NO	G1/4	pneumatic amplified	pneumatic amplified	1÷10	1480	8,5	0,21	8	8	B	1	F	117	
	CL-221	3/2 NC - NO	G1/8	pneumatic amplified	pneumatic not amplified	1,7÷10	890	6,5	0,15	6	8	B	1	G	95	
	CL-9221	3/2 NC - NO	G1/4	pneumatic amplified	pneumatic not amplified	1,5÷10	1480	8,5	0,22	8	10	B	1	G	103	
	CL-224	3/2 NC - NO	G1/8	pneumatic not amplified	pneumatic not amplified	1,7÷10	890	6,5	0,14	8	8	C	1	G	92,5	
	CL-9224	3/2 NC - NO	G1/4	pneumatic not amplified	pneumatic not amplified	1,5÷10	1480	8,5	0,24	10	10	C	1	G	89	
	CM-520	5/2	G1/8	pneumatic amplified	pneumatic amplified	1,2÷10	890	6,5	0,18	7	7	B	2	F	114	
	CM-9520	5/2	G1/4	pneumatic amplified	pneumatic amplified	1,5÷10	1480	8,5	0,24	9	9	B	2	F	134,5	
	CM-521	5/2	G1/8	pneumatic amplified	pneumatic not amplified	2÷10	890	6,5	0,19	7	9	B	2	G	111,5	
	CM-9521	5/2	G1/4	pneumatic amplified	pneumatic not amplified	1,8÷10	1480	8,5	0,25	9	10	B	2	G	120,5	
	CM-524	5/2	G1/8	pneumatic not amplified	pneumatic not amplified	2÷10	890	6,5	0,20	9	9	C	2	G	109	
	CM-9524	5/2	G1/4	pneumatic not amplified	pneumatic not amplified	1,8÷10	1480	8,5	0,27	10	10	C	2	G	198,5	
	CM-580	5/3 C.C.	G1/8	pneumatic amplified	pneumatic amplified	2,5÷10	890	6,5	0,21	8	12	B	2	F	114	
	CM-9580	5/3 C.C.	G1/4	pneumatic amplified	pneumatic amplified	2,8÷10	1480	8,5	0,30	10	13	B	2	F	134,5	
	CM-585	5/3 O.C.	G1/8	pneumatic amplified	pneumatic amplified	2,5÷10	890	6,5	0,21	8	12	B	2	F	114	
	CM-9585	5/3 O.C.	G1/4	pneumatic amplified	pneumatic amplified	2,8÷10	1480	8,5	0,30	10	13	B	2	F	134,5	
	CM-590	5/3 P.C.	G1/8	pneumatic amplified	pneumatic amplified	2,5÷10	890	6,5	0,21	8	12	B	2	F	114	
	CM-9590	5/3 P.C.	G1/4	pneumatic amplified	pneumatic amplified	2,8÷10	1480	8,5	0,30	10	13	B	2	F	134,5	

C.C. = open centres **O.C.** = closed centres **P.C.** = pressurized centres

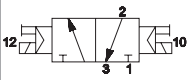
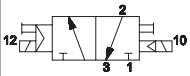
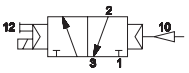
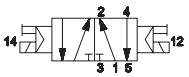
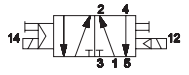
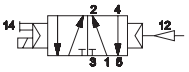
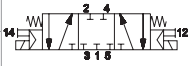
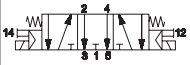
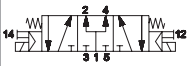
To get 3/2 NO version, supply the valve from port 3

VALVES WITH ELECTRIC CONTROL

Code	Way	Thread	Control	Return	Press. bar	Flow rate (Nl/min)	Ø mm	Weight kg	Resp. Time (ms) Ecc.	Resp. Time (ms) Diss.	Composition Control	Composition Body	Composition Return	tot. L mm	
SINGLE IMPULSE															
 **CL-300**	3/2 NC	G1/8	electrical amplified	pneumatic spring	2,3÷10	890	6,5	0,20	23	19	A	1	E	140,5	
CL-9300	3/2 NC	G1/4	electrical amplified	pneumatic spring	2÷10	1480	8,5	0,27	24	28	A	1	E	161	
 **CL-302A**	3/2 NC	G1/8	electrical amplified	mechanical spring	2,5÷10	890	6,5	0,21	20	24	A	1	D	153	
CL-9302A	3/2 NC	G1/4	electrical amplified	mechanical spring	2÷10	1480	8,5	0,28	22	35	A	1	D	172	
 **CL-301**	3/2 NO	G1/8	electrical amplified	pneumatic spring	2,3÷10	890	6,5	0,20	23	19	A	1	E	140,5	
CL-9301	3/2 NO	G1/4	electrical amplified	pneumatic spring	2÷10	1480	8,5	0,27	24	28	A	1	E	161	
 **CL-303A**	3/2 NO	G1/8	electrical amplified	mechanical spring	2,5÷10	890	6,5	0,21	20	24	A	1	D	153	
CL-9303A	3/2 NO	G1/4	electrical amplified	mechanical spring	2÷10	1480	8,5	0,28	22	35	A	1	D	172	
 **CM-600**	5/2	G1/8	electrical amplified	pneumatic spring	2,5÷10	890	6,5	0,24	24	20	A	2	E	157	
CM-9600	5/2	G1/4	electrical amplified	pneumatic spring	2÷10	1480	8,5	0,30	25	32	A	2	E	178,5	
 **CM-602A**	5/2	G1/8	electrical amplified	mechanical spring	3÷10	890	6,5	0,25	21	25	A	2	D	169,5	
CM-9602A	5/2	G1/4	electrical amplified	mechanical spring	2÷10	1480	8,5	0,31	22	43	A	2	D	189,5	

To get 3/2 NO version, supply the valve from port 3
The solenoid valves are supplied without a coil or connector

VALVES WITH ELECTRIC CONTROL

	Code	Way	Thread	Control	Return	Press. bar	Flow rate (Nl/min)	Ø mm	Weight kg	Resp. Time (ms) Ecc.	Resp. Time (ms) Diss.	Composition Control	Composition Body	Composition Return	tot. L mm	
DOUBLE IMPULSE																
	**CL-320**	3/2 NC - NO	G1/8	electrical amplified	electrical amplified	1÷10	890	6,5	0,24	17	17	A	1	H	213,5	
	CL-9320	3/2 NC - NO	G1/4	electrical amplified	electrical amplified	2÷10	1480	8,5	0,29	18	18	A	1	H	233	
	**CL-321**	3/2 NC - NO	G1/8	electrical amplified	electrical not amplified	1,7÷10	890	6,5	0,24	17	20	A	1	H	213,5	
	CL-9321	3/2 NC - NO	G1/4	electrical amplified	electrical not amplified	1,5÷10	1480	8,5	0,30	18	22	A	1	H	233	
	**CL-322**	3/2 NC - NO	G1/8	electrical amplified	pneumatic amplified	2,5÷10	890	6,5	0,21	20	7	A	1	F	155,5	
	CL-9322	3/2 NC - NO	G1/4	electrical amplified	pneumatic amplified	2÷10	1480	8,5	0,26	22	8	A	1	F	175	
	**CM-620**	5/2	G1/8	electrical amplified	electrical amplified	1,2÷10	890	6,5	0,28	20	20	A	2	H	230	
	CM-9620	5/2	G1/4	electrical amplified	electrical amplified	1,5÷10	1480	8,5	0,32	22	22	A	2	H	250,5	
	**CM-621**	5/2	G1/8	electrical amplified	electrical not amplified	2÷10	890	6,5	0,28	20	23	A	2	H	230	
	CM-9621	5/2	G1/4	electrical amplified	electrical not amplified	1,8÷10	1480	8,5	0,32	22	25	A	2	H	250,5	
	**CM-622**	5/2	G1/8	electrical amplified	pneumatic amplified	1,2÷10	890	6,5	0,24	20	8	A	2	F	172	
	CM-9622	5/2	G1/4	electrical amplified	pneumatic amplified	1,5÷10	1480	8,5	0,29	22	10	A	2	F	192,5	
	CM-680	5/3 **C.C.**	G1/8	electrical amplified	electrical amplified	2,5÷10	890	6,5	0,21	18	24	A	2	H	230	
	CM-9680	5/3 **C.C.**	G1/4	electrical amplified	electrical amplified	2,8÷10	1480	8,5	0,30	20	35	A	2	H	250,5	
	CM-685	5/3 **O.C.**	G1/8	electrical amplified	electrical amplified	2,5÷10	890	6,5	0,21	18	24	A	2	H	230	
	**CM-9685**	5/3 **O.C.**	G1/4	electrical amplified	electrical amplified	2,8÷10	1480	8,5	0,30	20	35	A	2	H	250,5	
	CM-690	5/3 **P.C.**	G1/8	electrical amplified	electrical amplified	2,5÷10	890	6,5	0,21	18	24	A	2	H	230	
	CM-9690	5/3 **P.C.**	G1/4	electrical amplified	electrical amplified	2,8÷10	1480	8,5	0,30	20	35	A	2	H	250,5	

C.C. = open centres **O.C.** = closed centres **P.C.** = pressurized centres

To get 3/2 NO version, supply the valve from port 3
The solenoid valves are supplied without a coil or connector

COILS

CSA/UL

Possibility of replacement without intervention in the pneumatic circuit

Other voltages available upon request

360° rotation on the pilot. Coil winding: H class

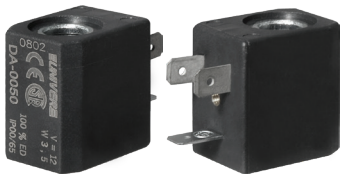
Ambient temperature: -10 ÷ +45 °C. Fluid temperature: -10 ÷ +95 °C.

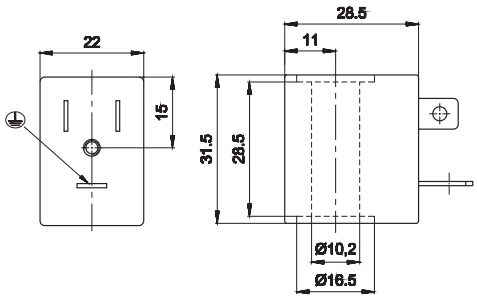
The solenoid valves functioning with 100V-230V must be incorporated (EN60204-1)

Under continuous service a maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated.

Protection class IP65, if used with connector.

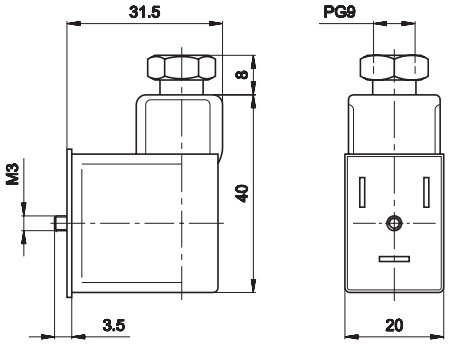
U1 22 MM COIL





Code	Duty cycle ED (a) %	Power consumption W		Tolerance tension %	Rated voltage	Weight Kg
		Hold	Inrush			
DA-0050	100	3,5	3,5	±10	12 V DC	0,06
DA-0051	100	3,5	3,5	±10	24 V DC	0,06
DA-0106	100	5,4 VA (Max)	7,8 VA (Max)	±10	24 V AC/50-60 HZ	0,06
DA-0108	100	5,4 VA (Max)	7,8 VA (Max)	±10	110 V AC/50-60 HZ	0,06
DA-0124	100	5,4 VA (Max)	7,8 VA (Max)	±10	230 V AC/50-60 HZ	0,06

CONNECTOR FOR COIL U1



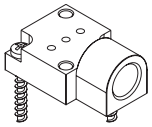
Code	Series coils	Protection rating	Cable connection	Guidance
AM-5110	U1	IP65	PG9	180°

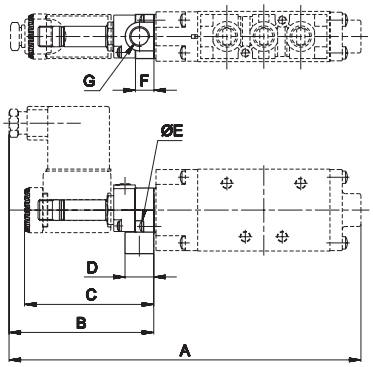
LED available upon request.

(a) = 110V - 230V solenoid valves must be built-in (EN-60204-1)

Under continuous service a maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated

LATE FOR EXTERNAL PILOT



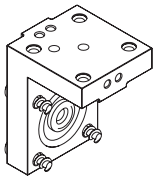


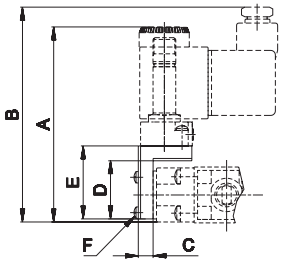
AM-5148

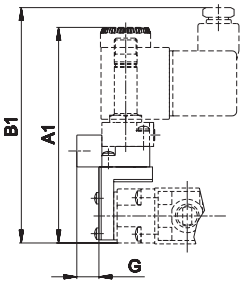
Plate for external servoassisted pilot weight: 0,03 Kg

	A	B	C	D	E	F	G
G1/8	171,5	70,5	63	14	2,9X10	9	G1/8
G1/4	186	70,5	63	14	2,9X10	9	G1/8

ANGLE PLATE FOR "H"





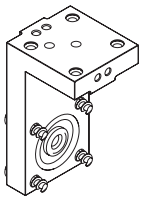


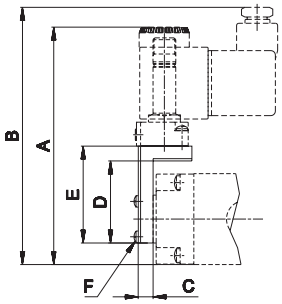
AM-5151 + **AM-5148**

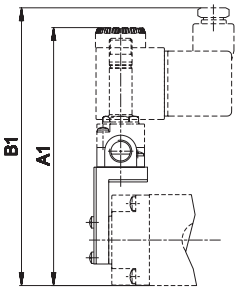
"H" option solenoid square weight: 0,035 Kg

	A	A1	B	B1	C	D	E	F	G
G1/8	87,7	96,7	95,5	104,5	6,5	25,5	32	2,9X10	9,7
G1/4	88,7	97,7	96,5	105,5	6,5	25,5	32	2,9X10	9,7

ANGLE PLATE FOR "P"





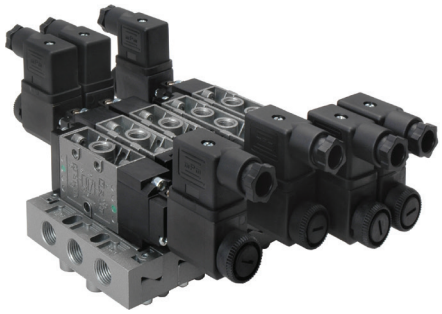


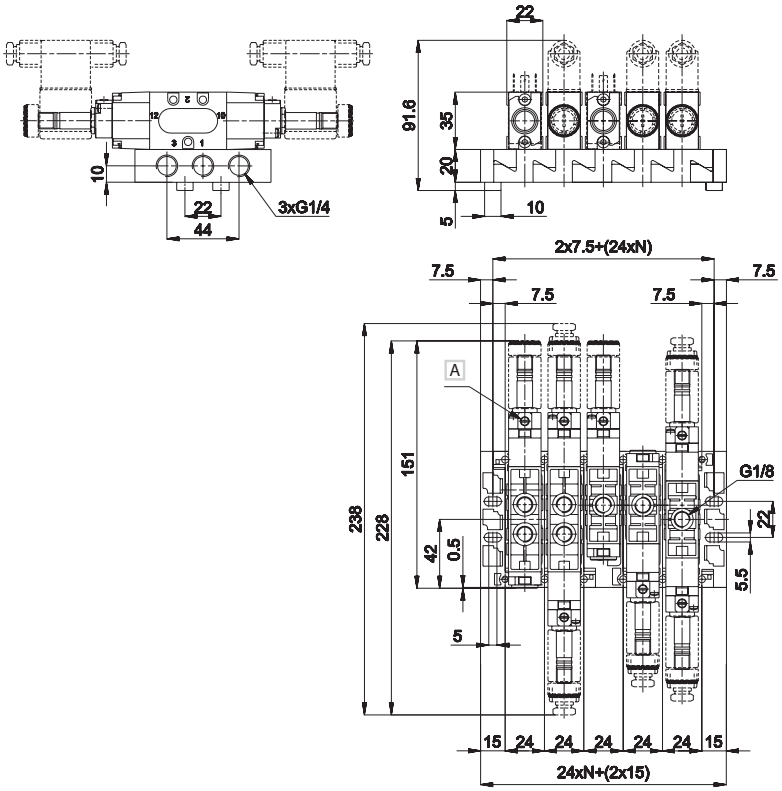
AM-5152 + **AM-5148**

"P" option solenoid square weight: 0,05 Kg

	A	A1	B	B1	C	D	E	F
G1/8	106	115	113,5	122,5	6,5	36	42,5	2,9X10
G1/4	111	120	118,5	127,5	6,5	36	42,5	2,9X10

G1/8 MODULAR SUBBASE "CLIPS"





A Manual override

NC

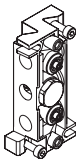
1 = Supply port
2 = Use
3 = Exhaust
12 = Control
10 = Return

NO

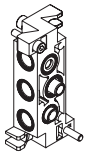
1 = Exhaust
2 = Use
3 = Supply port
12 = Control
10 = Return

N = Number of valve places

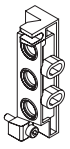
When assembling the manifold put the sub-base on a flat surface and tighten the special screw supplied. This will give perfect alignment.



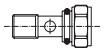
CP-100 — modular sub-base with regulated and conveyed exhausts connections: G1/8 material: zamak weight: 0,136 Kg — standard supplied: screws, seals, exhausts regulator and fixing coupling



CP-101 — modular sub-base without exhaust regulator connections: G1/8 material: zamak weight: 0,136 Kg — standard supplied: screws, seals and fixing coupling of valve



CP-105 — inlet plate side connections connections: G1/4 material: zamak weight: 0,086 Kg — standard supplied: screws and seals



CP-110 — coupling connections: G1/8 material: brass weight: 0,028 Kg

CP-111 — pressure separator connections: G1/8 material: aluminium weight: 0,013 Kg

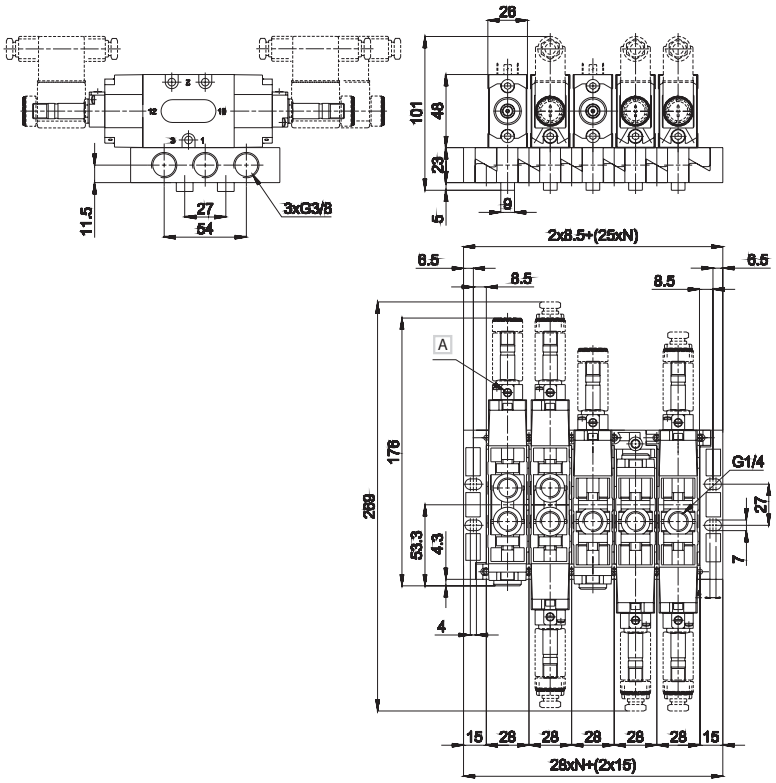
For each additional pressure, one coupling and two separators must be ordered.

CP-112 — cap for 3/2 valve mounting connections: G1/8 material: aluminium weight: 0,010 Kg

CP-113 — adjustment screw connections: G1/8 material: brass weight: 0,006 Kg

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 crimped head.

G1/4 MODULAR SUBBASE "CLIPS"



A Manual override

NC

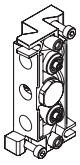
1 = Supply port
2 = Use
3 = Exhaust
12 = Control
10 = Return

NO

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

N = Number of valve places

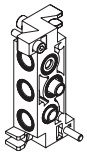
When assembling the manifold put the sub-base on a flat surface and tighten the special screw supplied. This will give perfect alignment.



CP-9100

modular sub-base
regulated and conveyed exhausts
connections: G1/4
material: zamak
weight: 0,210 Kg

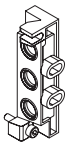
standard supplied: screws, seals, exhaust regulator and fixing coupling



CP-9101

modular sub-base
without exhaust regulator
connections: G1/4
material: zamak
weight: 0,210 Kg

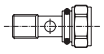
standard supplied: screws, seals and fixing coupling of valve



CP-9105

inlet plate
side connections
connections: G3/8
material: zamak
weight: 0,120 Kg

standard supplied: screws and seals



CP-9110

coupling
connections: G1/4
material: brass
weight: 0,028 Kg

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

CP-9111

pressure separator
connections: G1/4
material: aluminium
weight: 0,013 Kg

CP-9112

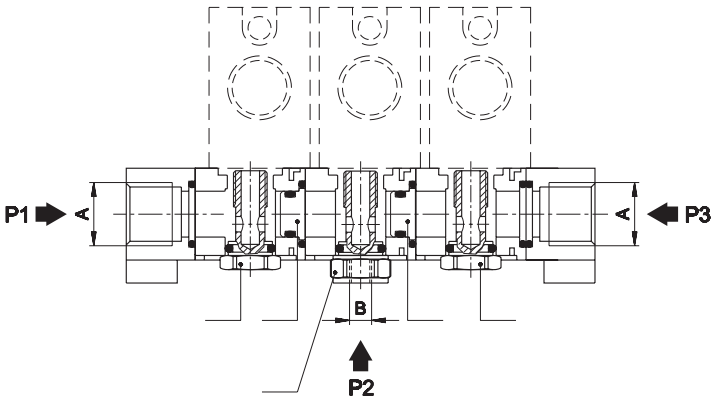
cap for 3/2 valve mounting
connections: G1/4
material: aluminium
weight: 0,010 Kg

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 crimped head.

CP-9113

adjustment screw
connections: G1/4
material: ottone
weight: 0,006 Kg

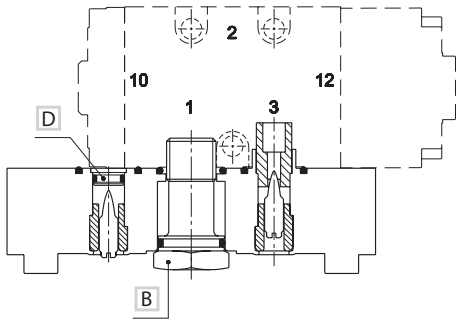
ASSEMBLY EXAMPLES MANIFOLD 3 PRESSURES



1 Separator of differential pressures **CP-111/CP-9111**
2 Fixing coupling for valve inside the sub-base
3 Coupling **CP-110/CP-9110**

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

MOUNTING OF 3/2 NC VALVE



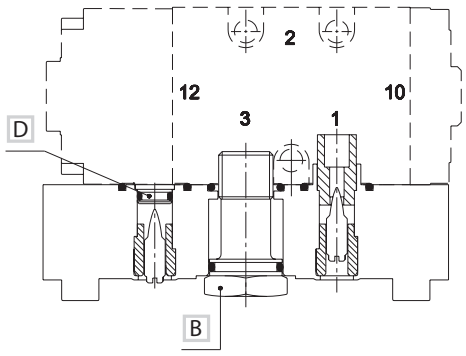
NC

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

B Fixing coupling for valve inside the sub-base

D Cap for valve mounting **CP-112/CP-9112**

MOUNTING OF 3/2 NO VALVE



NO

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

B Fixing coupling for valve inside the sub-base

D Cap for valve mounting **CP-112/CP-9112**

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.