AIGNEP

Valves Series

Solenoid Valves



01V

Pg. 18.3

Inox Solenoid Valves



X1V

Pg. 18.42

Solenoid Valves



07V

Pg. 18.50

Namur Solenoid Valves



08V

Pg. 18.53

Miniature Electropilots U1



AA

Pg. 18.60

Universal Valves G1/8 - G1/4



CL - CM

Pg. 18.67

Rotary Hand Lever Valves



12V

Pg. 18.96

Micro Valves



AI JET

Pg. 18.99

Micro Valves



AI JET2

Pg. 18.104

16mm Valves - Mechanical and Manual Operators



CH

Pg. 18.107

Pedal Valves



AM

Pg. 18.110

FIELDBUS Valves Series

Fieldbus Electropneumatic Valves



16V

Pg. 18.114

Fieldbus Electropneumatic Valves



17V

Pg. 18.121

ISO Valves Series

Valves ISO 5599/1 - Sizes 1 - 2 - 3 - 4



BE

Pg. 18.156

COILS & CONNECTORS Series

Solenoids and Connectors



Coils & Connectors

Pg. 18.169

Click here to view the Valves Series on our Website

AIGNEP

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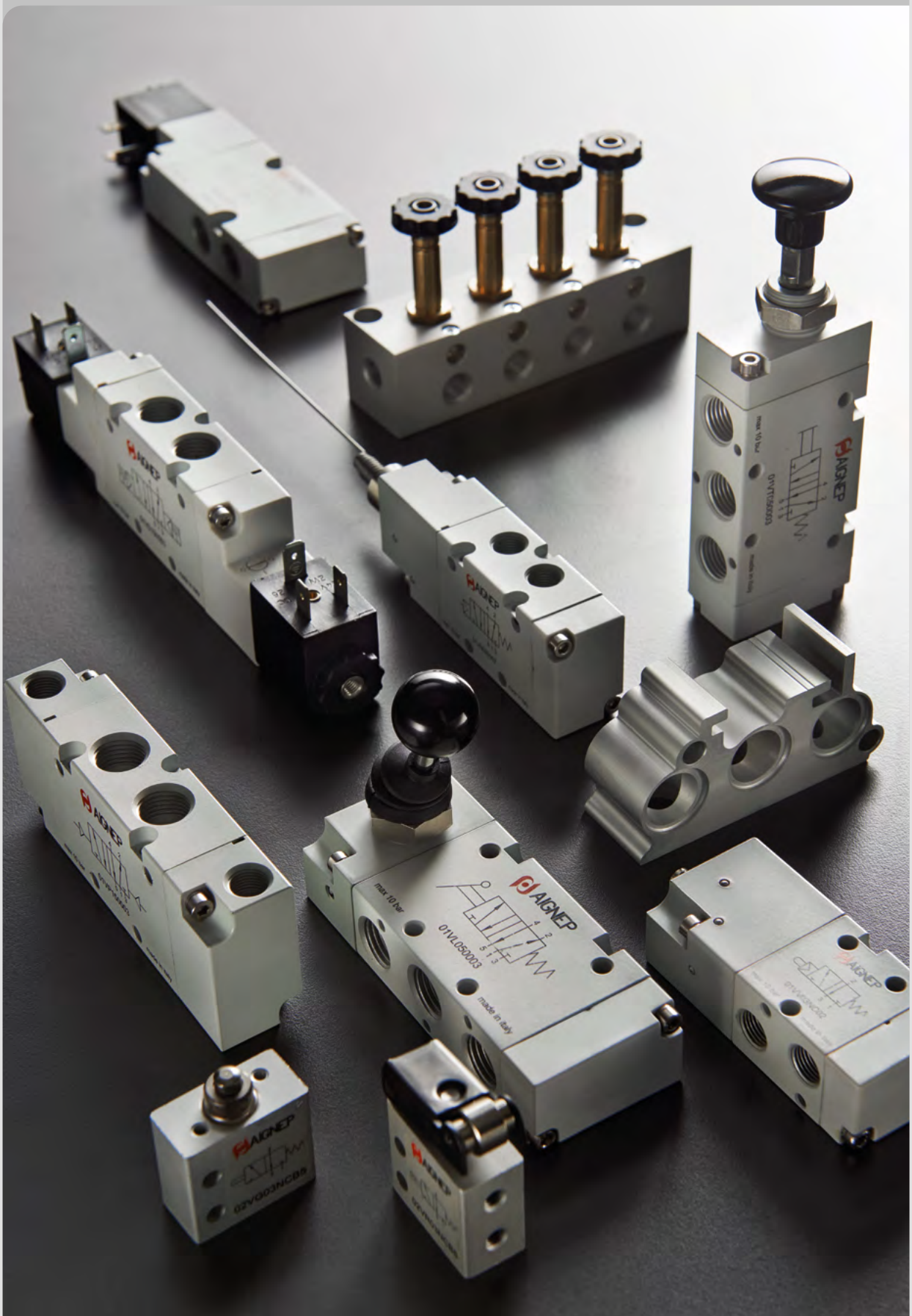
MANUAL, PNEUMATIC, SOLENOID PILOT, FIELDBUS, AND ISO VALVES



Valves Series

CL/CM UNIVERSAL VALVES

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 friction and prevent sticking
- High flow rate, high cycle life, suitable for vacuum applications
- Modular sub-bases

Fluid	50 µm filtered air, with or without lubrication	
Ambient temperature	14 ÷ 122 °F (-10 ÷ 50 °C)	
Fluid temperature	Max 122 °F (50 °C)	
Commutation system	spool	
Ways/Positions	3/2 NC, 3/2 NO, 3/2 NC-NO, 5/2, 5/3	
Pressure	Max 145 psi (10 bar)	
Control	indirect electro-pneumatic, pneumatic, manual, mechanical	
Return	pneumatic spring, mechanical spring	
Connections	G1/8	G1/4
Nominal Ø inch (mm)	.256 (6.5)	.335 (8.5)
Nominal flow rate (Nl/min)	890	1480
Valve body	G1/8 = die-cast zamak G1/4 = aluminum	
Seals	nitrile rubber	
Actuators	technopolymer/aluminum	
Spool	aluminum	
Sub-base	zamak	
Electropilot	AA	
Coil	U1	
Power consumption	3,5 W (DC) - 5 VA (AC)	
Connector	CONU 1	
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

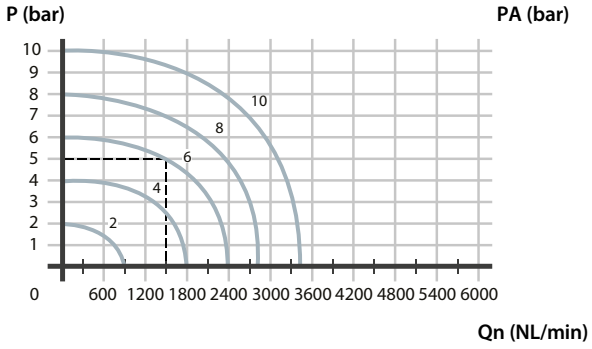
II 2D Ex h IIIC T100°C Db



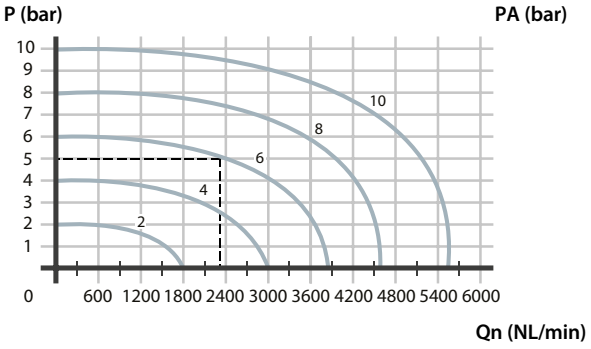


FLOW RATE CHARACTERISTICS

G1/8



G1/4



PA (bar) = supply pressure

PA (bar) = supply pressure

Qn (NL/min) = Flow rate

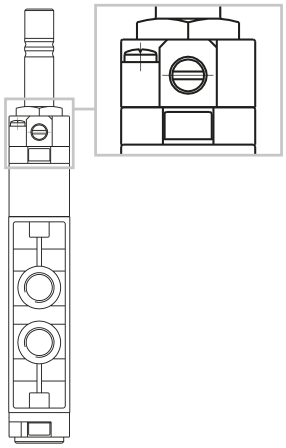
Key

Screwdriver adjustment

Manual adjustment

MANUAL CONTROL STANDARD

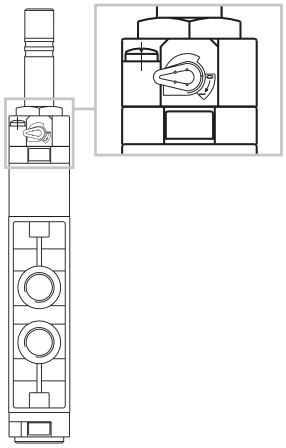
2-POSITION SCREWDRIVER



MANUAL CONTROLS ON REQUEST

LEVER

LETTER TO BE ADDED AT THE END OF THE ELECTROPILOT CODE



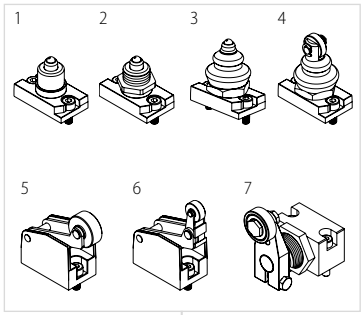
R

EXAMPLE::
UCM 622R

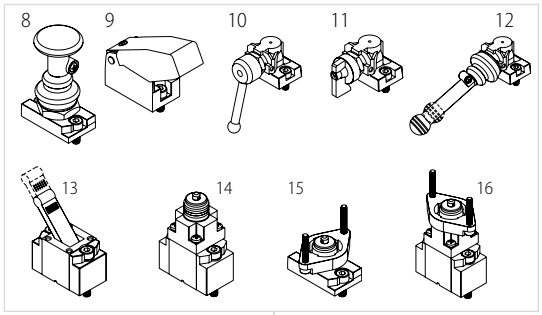
Red technopolymer

MODULAR SYSTEM UNIVERSAL SERIES

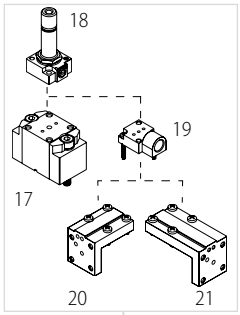
MECHANICAL



MANUAL

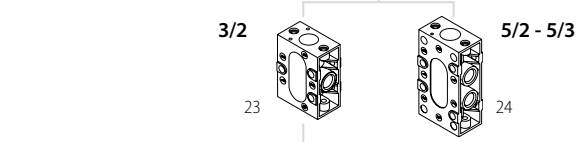


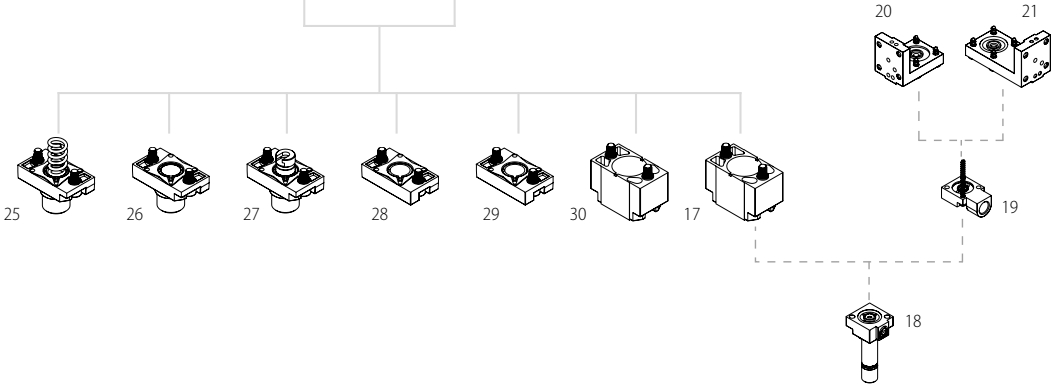
ELECTRICAL



PNEUMATIC







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

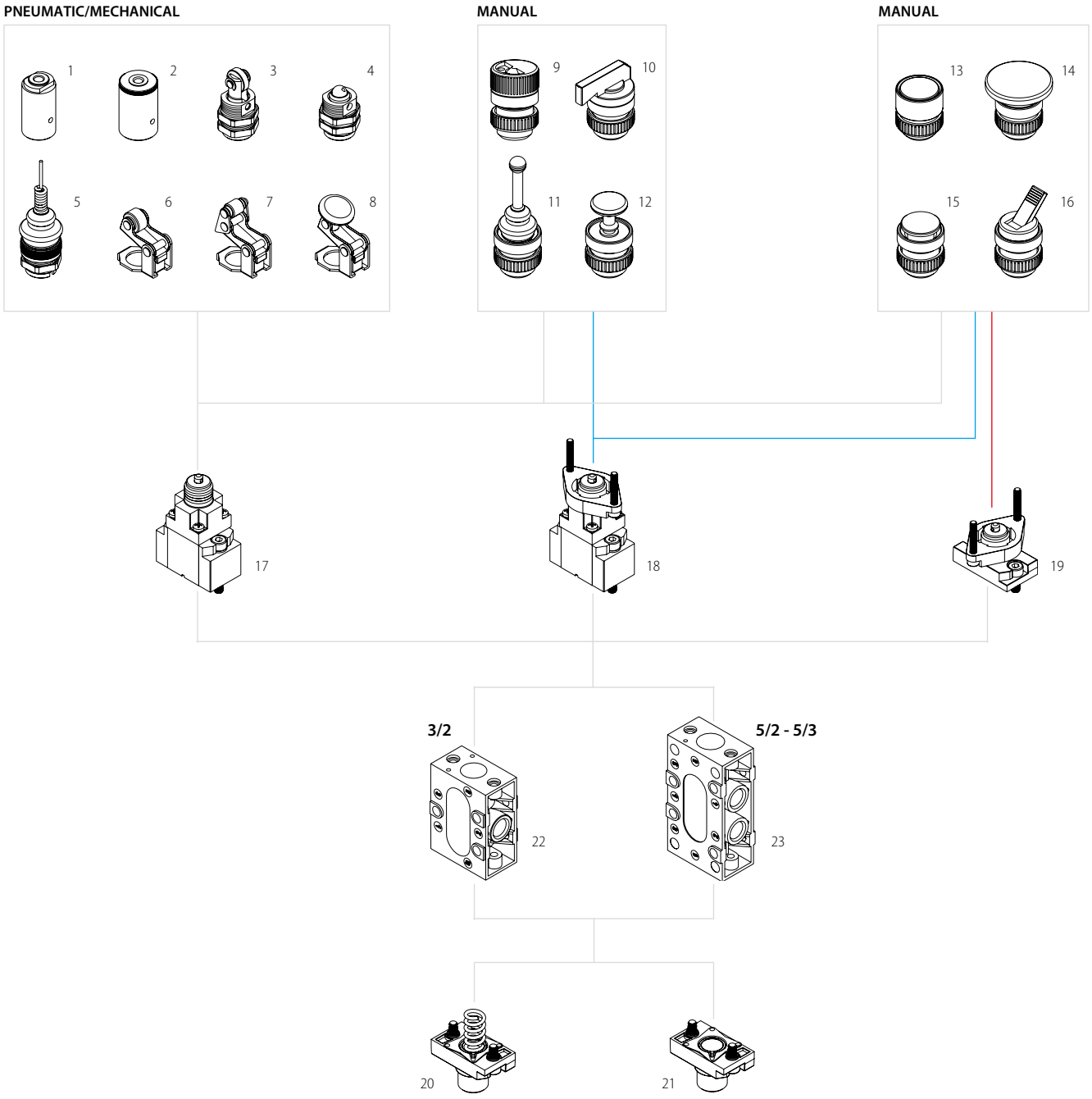
BODY

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



PNEUMATIC/MECHANICAL ACTUATORS

1. Pneumatic actuators
2. Pneumatic actuators amplified
3. Roller operator 1 position
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

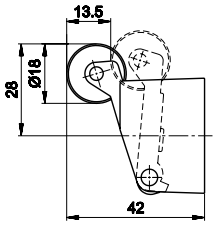
22. 3/2 Body
23. 5/2 Body

VALVES WITH DIRECT MECHANICAL OPERATION

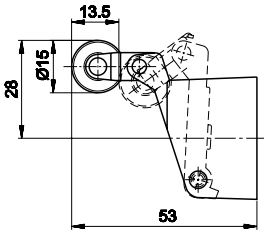
CONTROL	BODY	RETURN

1/8

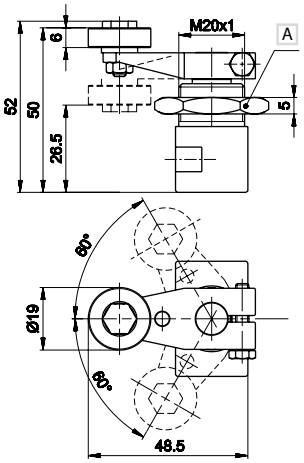
A ROLLER LEVER



B UNI-DIRECTIONAL ROLLER LEVER

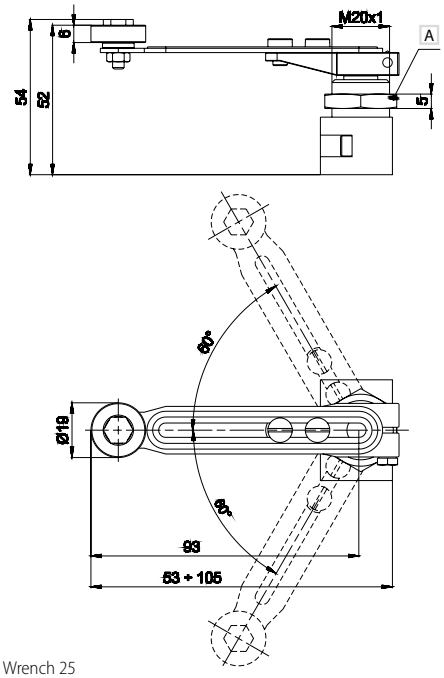


C BIDIRECTIONAL SIDE ROLLER LEVER



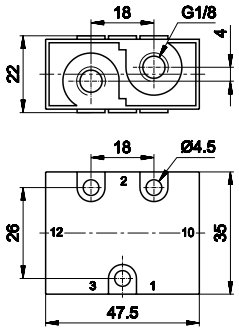
A Chiave 25

D ADJUSTABLE BIDIRECTIONAL SIDE ROLLER LEVER



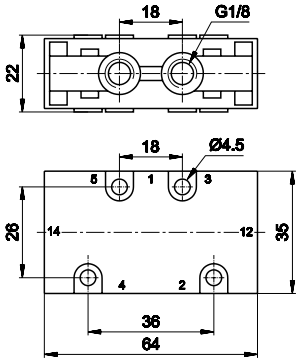
A Wrench 25

1 3/2 NC-NO



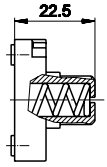
NC	NO
1 = Supply port	1 = Exhaust
2 = Use	2 = Use
3 = Exhaust	3 = Supply port
12= Control	12 = Control
10= Return	10 = Return

2 5/2

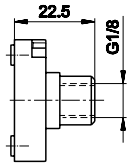


1 = Supply port
2 - 4= Use
3 - 5= Exhaust
14= Control
12= Return

I MECHANICAL SPRING



L PNEUMATIC NOT AMPLIFIED

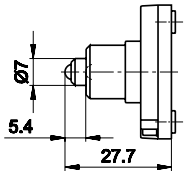


VALVES WITH DIRECT MECHANICAL OPERATION

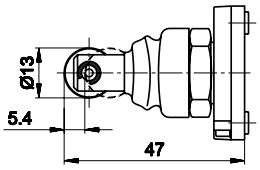
CONTROL	BODY	RETURN

1/8

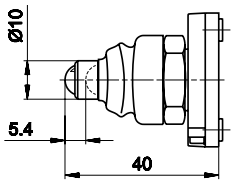
E BALL-PUSH



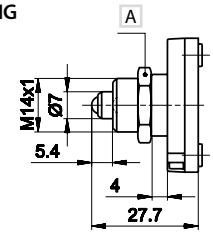
F ROLLER WITH DUST PROTECTION



G BALL-PUSH WITH DUST PROTECTION

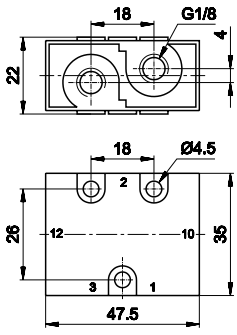


H BALL-PUSH FOR SCREW PANEL MOUNTING



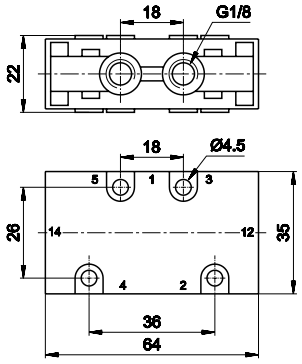
A Wrench 18

1 3/2 NC-NO



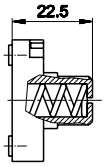
NC	NO
1 = Supply port	1 = Exhaust
2 = Use	2 = Use
3 = Exhaust	3 = Supply port
12= Control	12 = Control
10= Return	10 = Return

2 5/2

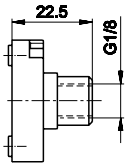


1 = Supply port
2 - 4= Use
3 - 5= Exhaust
14= Control
12= Return

I MECHANICAL SPRING



L PNEUMATIC NOT AMPLIFIED

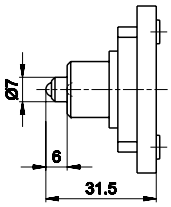


VALVES WITH DIRECT MECHANICAL OPERATION

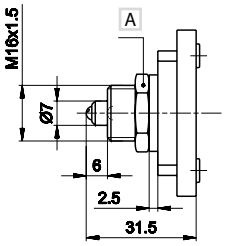
CONTROL	BODY	RETURN

1/4

E BALL VALVE

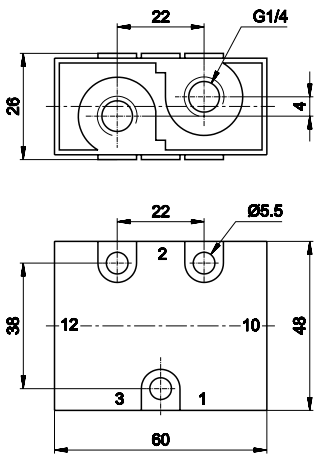


H BALL VALVE WITH FLANGE MOUNTING



A Wrench 22

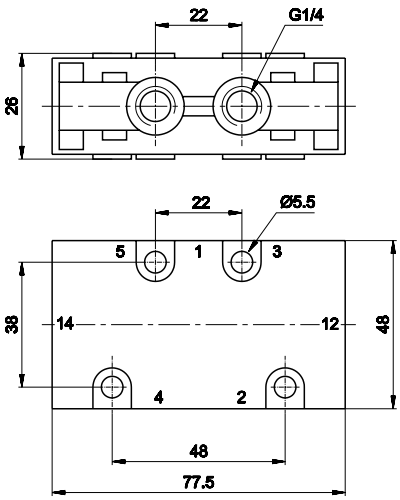
1 3/2 NC-NO



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

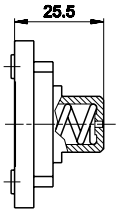
NO
1 = Supply port
2 = Use
3 = Exhaust
12= Control
10= Return

2 5/2

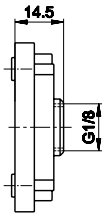


1 = Supply port
2 - 4= Use
3 - 5= Exhaust
14= Control
12= Return

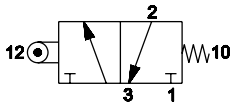
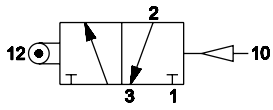
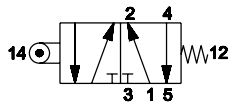
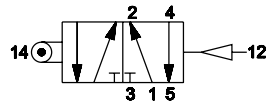
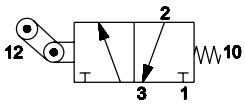
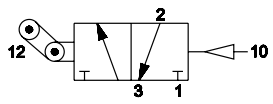
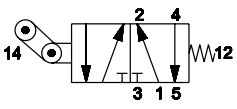
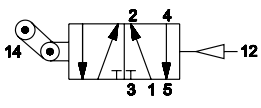
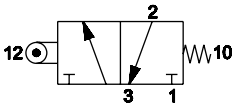
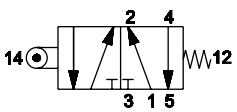
I MECHANICAL SPRING



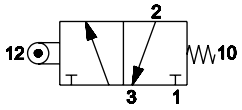
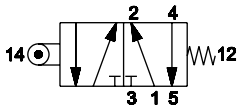
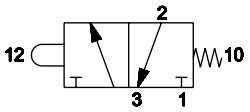
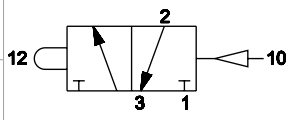
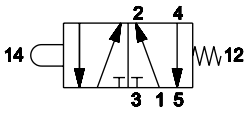
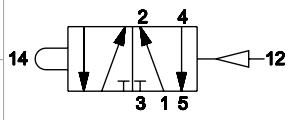
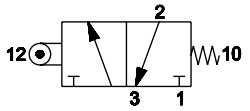
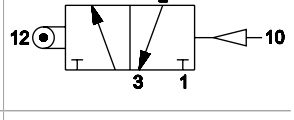
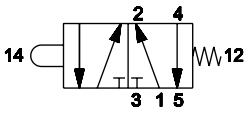
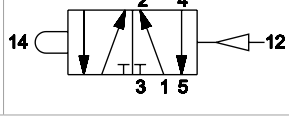
L NON-AMPLIFIED PNEUMATIC



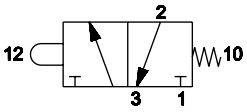
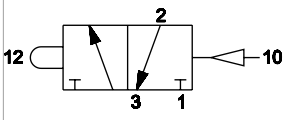
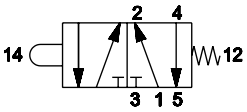
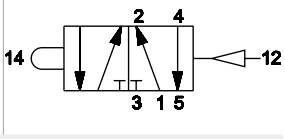
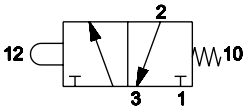
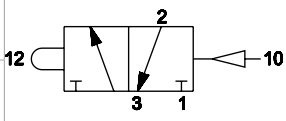
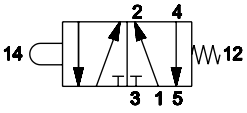
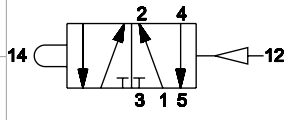
VALVES WITH DIRECT MECHANICAL OPERATION

	Code	Way	Thread	Return	Flow rate (Nl/min)	Ø inch (mm)	Weight lb (kg)	Force N	Composition Control	Body	Return	tot. L inch (mm)	
ROLLER LEVER													
	UCL 100A	3/2 NC - NO	G1/8	mechanical spring	890	.256 (6.5)	0.46 (0.21)	23	A	1	I	4.409 (112)	
	UCL 100P	3/2 NC - NO	G1/8	pneumatic not amplified	890	.256 (6.5)	0.46 (0.21)	6	A	1	L	4.409 (112)	
	UCM 400A	5/2	G1/8	mechanical spring	890	.256 (6.5)	0.55 (0.25)	23	A	2	I	5.079 (129)	
	UCM 400P	5/2	G1/8	pneumatic not amplified	890	.256 (6.5)	0.55 (0.25)	6	A	2	L	5.079 (129)	
ONE-WAY ROLLER LEVER													
	UCL 101A	3/2 NC - NO	G1/8	mechanical spring	890	.256 (6.5)	0.49 (0.22)	18	B	1	I	4.843 (123)	
	UCL 101P	3/2 NC - NO	G1/8	pneumatic not amplified	890	.256 (6.5)	0.49 (0.22)	6	B	1	L	4.843 (123)	
	UCM 401A	5/2	G1/8	mechanical spring	890	.256 (6.5)	0.57 (0.26)	18	B	2	I	5.492 (139.5)	
	UCM 401P	5/2	G1/8	pneumatic not amplified	890	.256 (6.5)	0.57 (0.26)	6	B	2	L	5.492 (139.5)	
TWO-WAY SIDE ROLLER LEVER													
	UCL 106A	3/2 NC - NO	G1/8	mechanical spring	890	.256 (6.5)	0.66 (0.30)	25	C	1	I	4.665 (118.5)	
	UCM 406A	5/2	G1/8	mechanical spring	890	.256 (6.5)	0.75 (0.34)	25	C	2	I	5.315 (135)	

VALVES WITH DIRECT MECHANICAL OPERATION

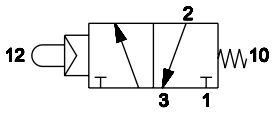
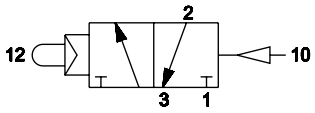
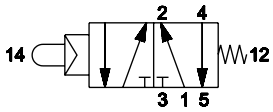
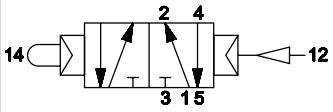
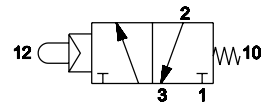
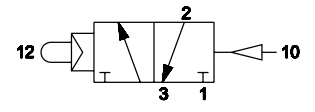
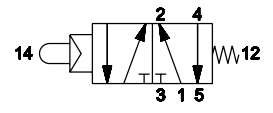
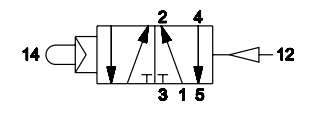
	Code	Way	Thread	Return	Flow rate (Nl/min)	Ø inch (mm)	Weight lb (kg)	Force N	Composition Control	Composition Body	Composition Return	tot. L inch (mm)	
TWO-WAY ADJUSTABLE ROLLER LEVER													
	UCL 106AL	3/2 NC - NO	G1/8	mechanical spring	890	.256 (6.5)	0.66 (0.30)	25	D	1	I	4.843 ÷ 6.890 (123 ÷ 175)	
	UCM 406AL	5/2	G1/8	mechanical spring	890	.256 (6.5)	0.75 (0.34)	25	D	2	I	5.492 ÷ 7.539 (139.5 ÷ 191.5)	
BALL-PUSH													
	UCL 102A	3/2 NC - NO	G1/8	mechanical spring	890	.256 (6.5)	0.42 (0.19)	64	E	1	I	3.846 (97.7)	
	UCL 9102A	3/2 NC - NO	G1/4	mechanical spring	1480	.335 (8.5)	0.57 (0.26)	68	E	1	I	4.606 (117)	
	UCL 102P	3/2 NC - NO	G1/8	pneumatic not amplified	890	.256 (6.5)	0.42 (0.19)	25	E	1	L	3.846 (97.7)	
	UCL 9102P	3/2 NC - NO	G1/4	pneumatic not amplified	1480	.335 (8.5)	0.57 (0.26)	26	E	1	L	4.173 (106)	
	UCM 402A	5/2	G1/8	mechanical spring	890	.256 (6.5)	0.51 (0.23)	64	E	2	I	4.496 (114.2)	
	UCM 9402A	5/2	G1/4	mechanical spring	1480	.335 (8.5)	0.62 (0.28)	68	E	2	I	5.295 (134.5)	
	UCM 402P	5/2	G1/8	pneumatic not amplified	890	.256 (6.5)	0.51 (0.23)	25	E	2	L	4.496 (114.2)	
	UCM 9402P	5/2	G1/4	pneumatic not amplified	1480	.335 (8.5)	0.62 (0.28)	26	E	2	L	4.862 (123.5)	
WITH ROLLER NEEDLE AND DUST COVER													
	UCL 105A	3/2 NC - NO	G1/8	mechanical spring	890	.256 (6.5)	0.42 (0.19)	64	F	1	I	4.606 (117)	
	UCL 105P	3/2 NC - NO	G1/8	pneumatic not amplified	890	.256 (6.5)	0.40 (0.18)	25	F	1	L	4.606 (117)	
	UCM 405A	5/2	G1/8	mechanical spring	890	.256 (6.5)	0.51 (0.23)	68	F	2	I	5.256 (133.5)	
	UCM 405P	5/2	G1/8	pneumatic not amplified	890	.256 (6.5)	0.49 (0.22)	26	F	2	L	5.256 (133.5)	

VALVES WITH DIRECT MECHANICAL OPERATION

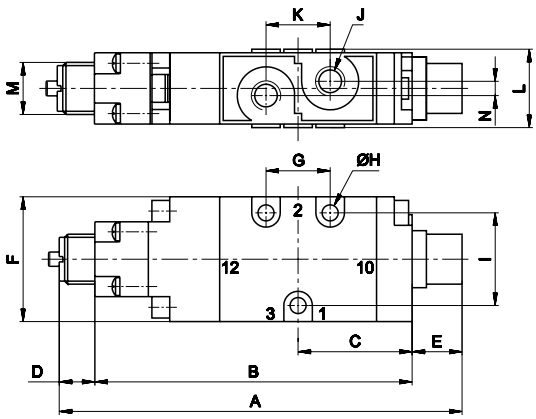
	Code	Way	Thread	Return	Flow rate (Nl/min)	Ø inch (mm)	Weight lb (kg)	Force N	Composition Control	Composition Body	Composition Return	tot. L inch (mm)	
ROLLER WITH DUST PROTECTION													
	**UCL 104A**	3/2 NC - NO	G1/8	mechanical spring	890	.256 (6.5)	0.42 (0.19)	64	G	1	I	4.331 (110)	
	UCL 104P	3/2 NC - NO	G1/8	pneumatic not amplified	890	.256 (6.5)	0.40 (0.18)	25	G	1	L	4.331 (110)	
	**UCM 404A**	5/2	G1/8	mechanical spring	890	.256 (6.5)	0.51 (0.23)	68	G	2	I	4.980 (126.5)	
	UCM 404P	5/2	G1/8	pneumatic not amplified	890	.256 (6.5)	0.49 (0.22)	26	G	2	L	4.980 (126.5)	
BALL-PUSH WITH DUST PROTECTION													
	UCL 103A	3/2 NC - NO	G1/8	mechanical spring	890	.256 (6.5)	0.42 (0.19)	64	H	1	I	3.846 (97.7)	
	**UCL 9103A**	3/2 NC - NO	G1/4	mechanical spring	1480	.335 (8.5)	0.57 (0.26)	68	H	1	I	4.606 (117)	
	UCL 103P	3/2 NC - NO	G1/8	pneumatic not amplified	890	.256 (6.5)	0.40 (0.18)	25	H	1	L	3.846 (97.7)	
	UCL 9103P	3/2 NC - NO	G1/4	pneumatic not amplified	1480	.335 (8.5)	0.53 (0.24)	26	H	1	L	4.173 (106)	
	UCM 403A	5/2	G1/8	mechanical spring	890	.256 (6.5)	0.51 (0.23)	68	H	2	I	4.496 (114.2)	
	**UCM 9403A**	5/2	G1/4	mechanical spring	1480	.335 (8.5)	0.62 (0.28)	68	H	2	I	5.295 (134.5)	
	UCM 403P	5/2	G1/8	pneumatic not amplified	890	.256 (6.5)	0.49 (0.22)	25	H	2	L	4.496 (114.2)	
	UCM 9403P	5/2	G1/4	pneumatic not amplified	1480	.335 (8.5)	0.57 (0.26)	26	H	2	L	4.862 (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 psi (bar)	Flow rate (Nl/min)	Ø inch (mm)	Weight lb (kg)	Force N	
BALL ACTUATOR										
	UCL 110A	3/2 NC	G 1/8	mechanical spring	36 ÷ 145 (2.5 ÷ 10)	890	.256 (6.5)	0.42 (0.19)	11	
	UCL 9110A	3/2 NC	G 1/4	mechanical spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.57 (0.26)	11	
	UCL 110P	3/2 NC	G 1/8	pneumatic not amplified	15 ÷ 145 (1 ÷ 10)	890	.256 (6.5)	0.40 (0.18)	11	
	UCL 9110P	3/2 NC	G 1/4	pneumatic not amplified	15 ÷ 145 (1 ÷ 10)	1480	.335 (8.5)	0.53 (0.24)	11	
	UCM 410A	5/2	G 1/8	mechanical spring	44 ÷ 145 (3 ÷ 10)	890	.256 (6.5)	0.51 (0.23)	11	
	UCM 9410A	5/2	G 1/4	mechanical spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.62 (0.28)	11	
	UCM 410P	5/2	G 1/8	pneumatic not amplified	17 ÷ 145 (1.2 ÷ 10)	890	.256 (6.5)	0.49 (0.22)	11	
	UCM 9410P	5/2	G 1/4	pneumatic not amplified	17 ÷ 145 (1.2 ÷ 10)	1480	.335 (8.5)	0.57 (0.26)	11	
SENSITIVE BALL ACTUATOR										
	UCL 111A	3/2 NC	G 1/8	mechanical spring	36 ÷ 145 (2.5 ÷ 10)	890	.256 (6.5)	0.42 (0.19)	3	
	UCL 9111A	3/2 NC	G 1/4	mechanical spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.57 (0.26)	3	
	UCL 111P	3/2 NC	G 1/8	pneumatic not amplified	15 ÷ 145 (1 ÷ 10)	890	.256 (6.5)	0.40 (0.18)	3	
	UCL 9111P	3/2 NC	G 1/4	pneumatic not amplified	15 ÷ 145 (1 ÷ 10)	1480	.335 (8.5)	0.53 (0.24)	3	
	UCM 411A	5/2	G 1/8	mechanical spring	44 ÷ 145 (3 ÷ 10)	890	.256 (6.5)	0.51 (0.23)	3	
	UCM 9411A	5/2	G 1/4	mechanical spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.62 (0.28)	3	
	UCL 411P	5/2	G 1/8	pneumatic not amplified	17 ÷ 145 (1.2 ÷ 10)	890	.256 (6.5)	0.49 (0.22)	3	
	UCL 9411P	5/2	G 1/4	pneumatic not amplified	17 ÷ 145 (1.2 ÷ 10)	1480	.335 (8.5)	0.57 (0.26)	3	

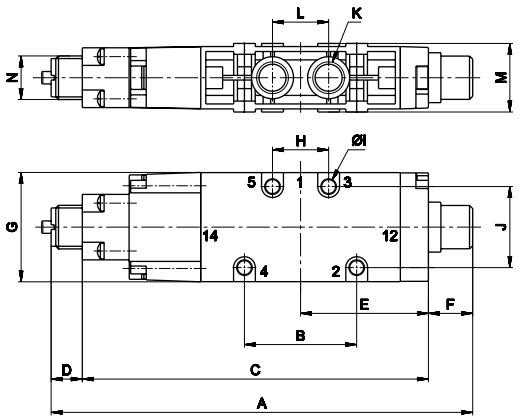
3/2 NC



	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

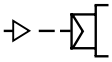


	A	B	C	D	E	F	G	H	I	J	K	L	M	N
G1/8	135	36	111	10	41	14	35	18	4,5	26	G1/8	18	22	M14x1
G1/4	154	48	129,5	10	49,7	14,5	48	22	5,5	38	G1/4	22	26	M14x1

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

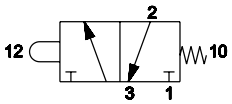
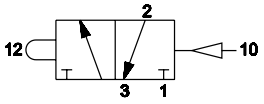
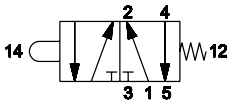
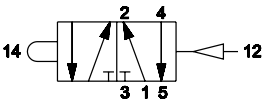
	UAI 3550	Pneumatic operator	
	UAI 3551	Amplified pneumatic operator	
	UAI 3560	Roller operator 1 position	
	UAI 3562	Ball-push operator 1 position	
	UAI 3563	Operator with omni-directional antenna 1 position	
	UAI 3570	Roller lever operator 1 position	
	UAI 3571	Articulated roller operator 1 position Complete actuation with stroke .098 (2.5 mm), max stroke .185 (4.7 mm)	
	UAI 3572	Key operator 1 position	

MANUAL ACTUATORS

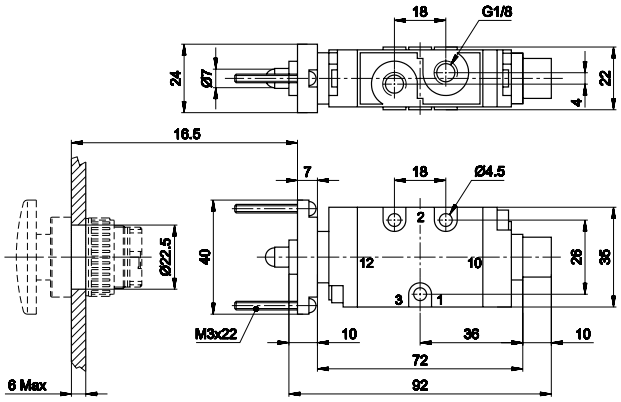
	UAI 3511	■ BLACK	Recessed button	
	UAI 3512	■ RED		
	UAI 3513	■ GREEN		
	UAI 3514	■ RED	Head button	
	UAI 3516	■ BLACK		
	UAI 3514D	■ RED		
	UAI 3516D	■ BLACK		
	UAI 3515	■ GREEN	Button	
	UAI 3517	■ RED		
	UAI 3519	■ BLACK		
	UAI 3520	■ BLACK	Accident prevention rotating selector	
	UAI 3521	■ BLACK		
	UAI 3522	■ BLACK	Rotating lever selector	
	UAI 3523	■ BLACK		
	UAI 3524	■ BLACK	Lever operator	
	UAI 3525	■ BLACK	Omni - directional operator	
	UAI 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 psi (bar)	Flow rate (Nl/min)	Ø inch (mm)	Weight lb (kg)	Force N	
BALL-PUSH										
	UCL 112A	3/2 NC - NO	G1/8	mechanical spring	0 ÷ 145 (0 ÷ 10)	890	.256 (6.5)	0.42 (0.19)	64	
	UCL 112P	3/2 NC - NO	G1/8	pneumatic not amplified	0 ÷ 145 (0 ÷ 10)	890	.256 (6.5)	0.40 (0.18)	25	
	UCM 412A	5/2	G1/8	mechanical spring	0 ÷ 145 (0 ÷ 10)	890	.256 (6.5)	0.51 (0.23)	64	
	UCM 412P	5/2	G1/8	pneumatic not amplified	0 ÷ 145 (0 ÷ 10)	890	.256 (6.5)	0.49 (0.22)	25	

3/2 NC-NO



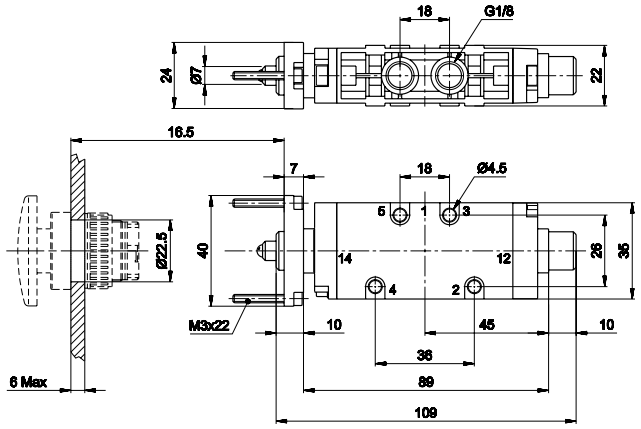
NC

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

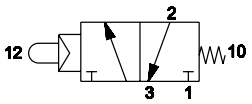
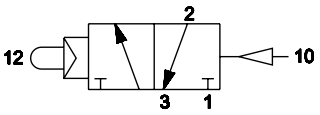
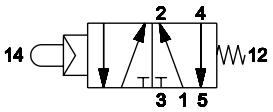
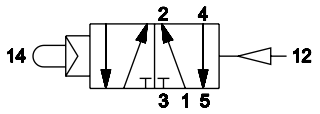


1 = Supply port
2 - 4 = Use
3 - 5 = Exhaust
14 = Control
12 = Return

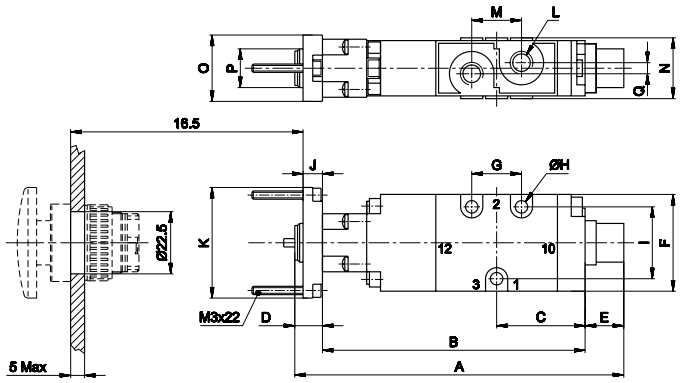
MANUAL ACTUATORS

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

INDIRECT-ACTING VALVES FOR PANEL-MOUNTED ACTUATORS

	Code	Way	Thread	Return	Pressure psi (bar)	Flow rate (Nl/min)	Ø inch (mm)	Weight lb (kg)	Force N	
BALL-PUSH										
	**UCL 113A**	3/2 NC	G 1/8	mechanical spring	36 ÷ 145 (2.5 ÷ 10)	890	.256 (6.5)	0.44 (0.20)	11	
	UCL 9113A	3/2 NC	G 1/4	mechanical spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.60 (0.27)	11	
	UCL 113P	3/2 NC	G 1/8	pneumatic not amplified	15 ÷ 145 (1 ÷ 10)	890	.256 (6.5)	0.42 (0.19)	11	
	UCL 9113P	3/2 NC	G 1/4	pneumatic not amplified	15 ÷ 145 (1 ÷ 10)	1480	.335 (8.5)	0.57 (0.26)	11	
	**UCM 413A**	5/2	G 1/8	mechanical spring	44 ÷ 145 (3 ÷ 10)	890	.256 (6.5)	0.53 (0.24)	11	
	UCM 9413A	5/2	G 1/4	mechanical spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.55 (0.25)	11	
	UCL 413P	5/2	G 1/8	pneumatic not amplified	17 ÷ 145 (1.2 ÷ 10)	890	.256 (6.5)	0.51 (0.23)	11	
	UCL 9413P	5/2	G 1/4	pneumatic not amplified	17 ÷ 145 (1.2 ÷ 10)	1480	.335 (8.5)	0.62 (0.28)	11	

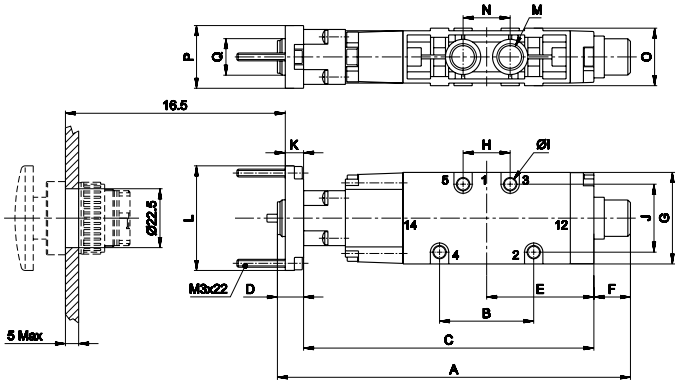
3/2 NC



	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

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

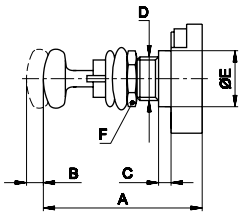
MANUAL ACTUATORS

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

MANUALLY OPERATED VALVES

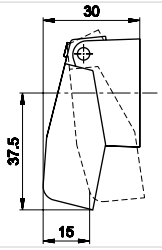
CONTROL

A PUSH-PULL

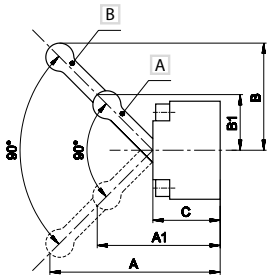


	A	B	C	D	E	F
G1/8	51	5,4	4	M14x1	16	18
G1/4	52,5	6	2,5	M16x1,5	22	22

B BUTTON



C LONG/SHORT LEVER

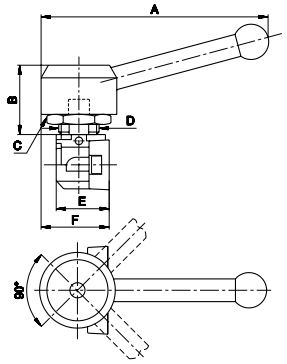


A Short lever
B Long lever

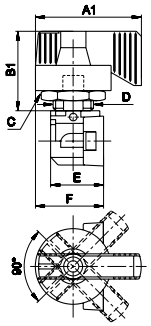
	A	A1	B	B1	C
G1/8	56	42	38,5	24	22,5

	A	B	C
G1/4	58,5	32	26

D ROTATING LEVER

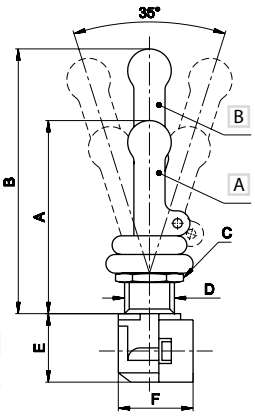


SELECTOR



	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

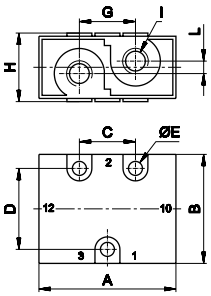


A Short lever
B Long lever

	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

BODY

1 3/2 NC-NO

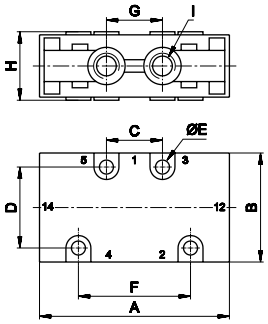


NC
1 = Supply port
2 = Use
3 = Exhaust
12 = Control
10 = Return

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

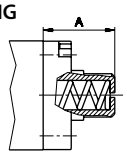


1 = Supply port
2 - 4 = Use
3 - 5 = Exhaust
14 = Control
12 = Return

	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

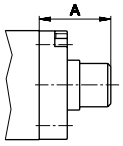
RETURN

F MECHANICAL SPRING



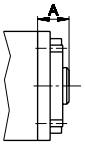
	A
G1/8	22,5
G1/4	25,5

G 2/3 POSITIONS



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

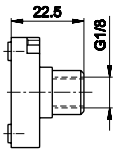
H BOTTOM PLATE WITHOUT SPRING



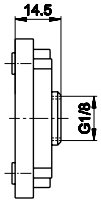
	A
G1/8	22,5
G1/4	25,5

I PNEUMATIC NOT AMPLIFIED

G1/8

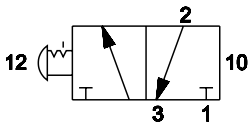
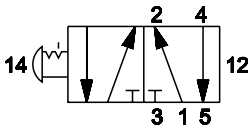
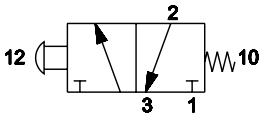
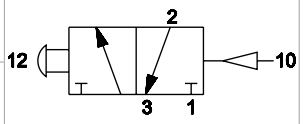
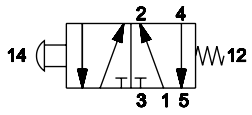
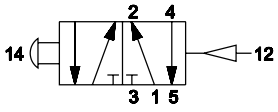


G1/4



MANUALLY OPERATED VALVES

PUSH-PULL

	Code	Way	Thread	Return	Flow rate (Nl/min)	Ø inch (mm)	Weight lb (kg)	Force N	Composition Control	Body	Return	tot. L inch (mm)	
	UCL 120	3/2 NC - NO	G1/8	push-pull	890	.256 (6.5)	0.42 (0.19)	25	A	1	H	4.272 (108.5)	
	UCL 9120	3/2 NC - NO	G1/4	push-pull	1480	.335 (8.5)	0.57 (0.26)	26	A	1	H	5.000 (127)	
	UCM 420	5/2	G1/8	push-pull	890	.256 (6.5)	0.49 (0.22)	25	A	2	H	4.921 (125)	
	UCM 9420	5/2	G1/4	push-pull	1480	.335 (8.5)	0.57 (0.26)	26	A	2	H	5.689 (144.5)	
	UCL 120A	3/2 NC - NO	G1/8	mechanical spring	890	.256 (6.5)	0.42 (0.19)	25	A	1	F	4.764 (121)	
	UCL 9120A	3/2 NC - NO	G1/4	mechanical spring	1480	.335 (8.5)	0.57 (0.26)	26	A	1	F	5.433 (138)	
	UCL 120P	3/2 NC - NO	G1/8	pneumatic not amplified	890	.256 (6.5)	0.40 (0.18)	25	A	1	I	4.764 (121)	
	UCL 9120P	3/2 NC - NO	G1/4	pneumatic not amplified	1480	.335 (8.5)	0.53 (0.24)	26	A	1	I	5.000 (127)	
	UCM 420A	5/2	G1/8	mechanical spring	890	.256 (6.5)	0.49 (0.22)	25	A	2	F	5.413 (137.5)	
	UCM 9420A	5/2	G1/4	mechanical spring	1480	.335 (8.5)	0.57 (0.26)	26	A	2	F	6.122 (155.5)	
	UCM 420P	5/2	G1/8	pneumatic not amplified	890	.256 (6.5)	0.46 (0.21)	25	A	2	I	5.413 (137.5)	
	UCM 9420P	5/2	G1/4	pneumatic not amplified	1480	.335 (8.5)	0.53 (0.24)	26	A	2	I	5.689 (144.5)	



YELLOW
UCP 911G

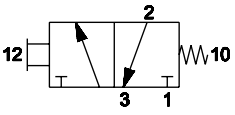
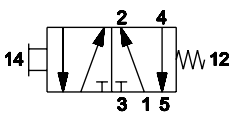
RED
UCP 911R

BLACK
UCP 911N

GREEN
UCP 911V

valves are supplied without lever

BUTTON

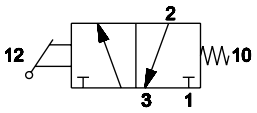
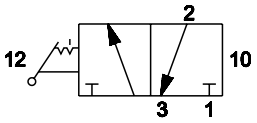
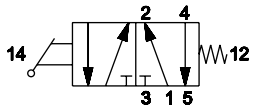
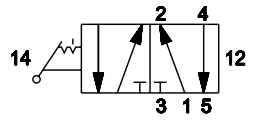
	UCL 126A	3/2 NC - NO	G1/8	mechanical spring	890	.256 (6.5)	0.44 (0.20)	15	B	1	F	3.937 (100)	
	UCM 426A	5/2	G1/8	mechanical spring	890	.256 (6.5)	0.51 (0.23)	15	B	2	F	4.587 (116.5)	

STANDARD
RED

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

MANUALLY OPERATED VALVES

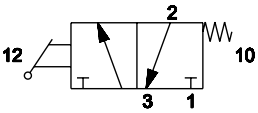
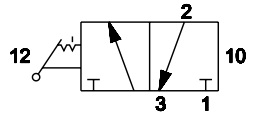
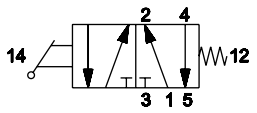
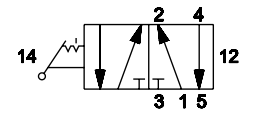
LONG LEVER

Code	Way	Thread	Return	Flow rate (Nl/min)	Ø inch (mm)	Weight lb (kg)	Force N	Composition Control	Composition Body	Composition Return	tot. L inch (mm)	
												
UCL 118R	3/2 NC - NO	G1/8	mechanical spring	890	.256 (6.5)	0.37 (0.17)	10	C	1	F	4.961 (126)	
UCL 9118R	3/2 NC - NO	G1/4	mechanical spring	1480	.335 (8.5)	0.51 (0.23)	11	C	1	F	5.669 (144)	
UCL 121R	3/2 NC - NO	G1/8	lever	890	.256 (6.5)	0.35 (0.16)	10	C	1	G	4.961 (126)	
UCL 9121R	3/2 NC - NO	G1/4	lever	1480	.335 (8.5)	0.49 (0.22)	11	C	1	G	5.669 (144)	
												
UCM 418R	5/2	G1/8	mechanical spring	890	.256 (6.5)	0.46 (0.21)	10	C	2	F	5.610 (142.5)	
UCM 9418R	5/2	G1/4	mechanical spring	1480	.335 (8.5)	0.55 (0.25)	11	C	2	F	6.358 (161.5)	
UCM 421R	5/2	G1/8	lever	890	.256 (6.5)	0.44 (0.20)	10	C	2	G	5.610 (142.5)	
UCM 9421R	5/2	G1/4	lever	1480	.335 (8.5)	0.53 (0.24)	11	C	2	G	6.358 (161.5)	

LONG LEVER STANDARD
■ RED

LONG LEVER UPON REQUEST
■ YELLOW
■ BLACK

SHORT LEVER

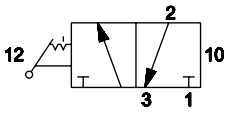
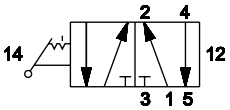
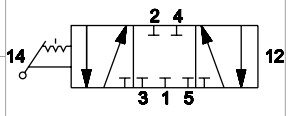
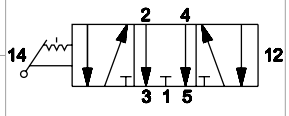
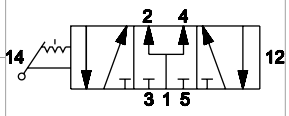
Code	Way	Thread	Return	Flow rate (Nl/min)	Ø inch (mm)	Weight lb (kg)	Force N	Composition Control	Composition Body	Composition Return	tot. L inch (mm)	
												
UCL 119R	3/2 NC - NO	G1/8	mechanical spring	890	.256 (6.5)	0.37 (0.17)	20	C	1	F	4.409 (112)	
UCL 122R	3/2 NC - NO	G1/8	lever	890	.256 (6.5)	0.35 (0.16)	20	C	1	G	4.409 (112)	
												
UCM 419R	5/2	G1/8	mechanical spring	890	.256 (6.5)	0.46 (0.21)	20	C	2	F	5.059 (128.5)	
UCM 422R	5/2	G1/8	lever	890	.256 (6.5)	0.44 (0.20)	20	C	2	G	5.059 (128.5)	

SHORT LEVER STANDARD
■ RED

SHORT LEVER UPON REQUEST
■ YELLOW
■ BLACK
■ GREEN

MANUALLY OPERATED VALVES

ROTATING LEVER

	Code	Way	Thread	Return	Flow rate (Nl/min)	Ø inch (mm)	Weight lb (kg)	Force N	Composition Control	Body	Return	tot. L mm	
	UCL 130	3/2 NC - NO	G1/8	rotating lever	890	.256 (6.5)	0.49 (0.22)	27	D	1	G	3.819 (97)	
	UCL 9130	3/2 NC - NO	G1/4	rotating lever	1480	.335 (8.5)	0.55 (0.25)	29	D	1	G	4.449 (113)	
	UCM 430	5/2	G1/8	rotating lever	890	.256 (6.5)	0.55 (0.25)	27	D	2	G	4.469 (113.5)	
	UCM 9430	5/2	G1/4	rotating lever	1480	.335 (8.5)	0.60 (0.27)	29	D	2	G	5.138 (130.5)	
	UCM 430E	5/3 **C.C.**	G1/8	rotating lever	890	.256 (6.5)	0.55 (0.25)	27	D	2	G	4.469 (113.5)	
	UCM 9430E	5/3 **C.C.**	G1/4	rotating lever	1480	.335 (8.5)	0.60 (0.27)	29	D	2	G	5.138 (130.5)	
	UCM 435E	5/3 **O.C**	G1/8	rotating lever	890	.256 (6.5)	0.53 (0.24)	27	D	2	G	4.469 (113.5)	
	UCM 9435E	5/3 **O.C**	G1/4	rotating lever	1480	.335 (8.5)	0.57 (0.26)	29	D	2	G	5.138 (130.5)	
	UCM 440E	5/3 **P.C.**	G1/8	rotating lever	890	.256 (6.5)	0.53 (0.24)	27	D	2	G	4.469 (113.5)	
	UCM 9440E	5/3 **P.C.**	G1/4	rotating lever	1480	.335 (8.5)	0.57 (0.26)	29	D	2	G	5.138 (130.5)	



■ RED
UCP 915R



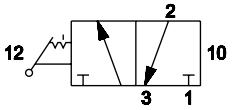
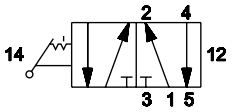
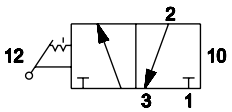
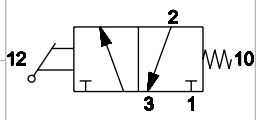
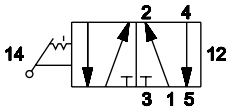
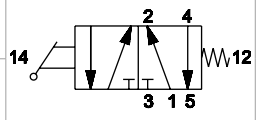
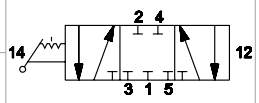
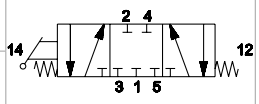
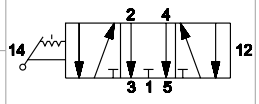
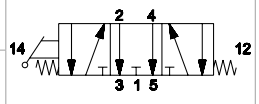
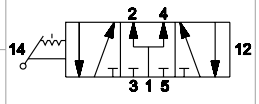
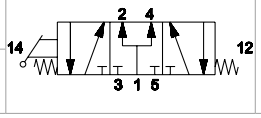
■ RED
UCP 916R

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

Valves are supplied without lever

MANUALLY OPERATED VALVES

90° LEVER - 3 POSITION

	Code	Way	Thread	Return	Flow rate (Nl/min)	Ø inch (mm)	Weight lb (kg)	Force N	Composition Control	Body	Return	tot. L inch (mm)	
	**UCL 123**	3/2 NC - NO	G1/8	lever	890	.256 (6.5)	0.37 (0.17)	2,5÷4	E	1	H	3.130 (79.5)	
	UCL 9123	3/2 NC - NO	G1/4	lever	1480	.335 (8.5)	0.51 (0.23)	2,7÷4,5	E	1	H	3.917 (99.5)	
	**UCM 423**	5/2	G1/8	lever	890	.256 (6.5)	0.51 (0.23)	2,5÷4	E	2	H	3.780 (96)	
	UCM 9423	5/2	G1/4	lever	1480	.335 (8.5)	0.62 (0.28)	2,7÷4,5	E	2	H	4.626 (117.5)	
	**UCL 123D**	3/2 NC - NO	G1/8	lever	890	.256 (6.5)	0.37 (0.17)	3,5÷5	E	1	G	3.622 (92)	
	UCL 9123D	3/2 NC - NO	G1/4	lever	1480	.335 (8.5)	0.51 (0.23)	3,6÷5,2	E	1	G	4.350 (110.5)	
	UCL 123A	3/2 NC - NO	G1/8	mechanical spring	890	.256 (6.5)	0.40 (0.18)	9 ÷13	E	1	F	3.622 (92)	
	UCL 9123A	3/2 NC - NO	G1/4	mechanical spring	1480	.335 (8.5)	0.53 (0.24)	10÷14	E	1	F	4.350 (110.5)	
	**UCM 423D**	5/2	G1/8	lever	890	.256 (6.5)	0.51 (0.23)	3,5÷5	E	2	G	4.272 (108.5)	
	UCM 9423D	5/2	G1/4	lever	1480	.335 (8.5)	0.62 (0.28)	3,6÷5,2	E	2	G	5.039 (128)	
	UCM 423A	5/2	G1/8	mechanical spring	890	.256 (6.5)	0.51 (0.23)	9 ÷13	E	2	F	4.272 (108.5)	
	UCM 9423A	5/2	G1/4	mechanical spring	1480	.335 (8.5)	0.62 (0.28)	10÷14	E	2	F	5.039 (128)	
	**UCM 423E**	5/3 **C.C.**	G1/8	lever	890	.256 (6.5)	0.51 (0.23)	3,5 ÷ 5	E	2	G	4.272 (108.5)	
	UCM 9423E	5/3 **C.C.**	G1/4	lever	1480	.335 (8.5)	0.62 (0.28)	3,6÷5,2	E	2	G	5.039 (128)	
	UCM 423F	5/3 **C.C.**	G1/8	lever with spring	890	.256 (6.5)	0.51 (0.23)	6,5 ÷ 10	E	2	F	4.272 (108.5)	
	UCM 9423F	5/3 **C.C.**	G1/4	lever with spring	1480	.335 (8.5)	0.62 (0.28)	6,7÷11	E	2	G	5.039 (128)	
	UCM 424E	5/3 **O.C.**	G1/8	lever	890	.256 (6.5)	0.51 (0.23)	3,5 ÷ 5	E	2	G	4.272 (108.5)	
	UCM 9424E	5/3 **O.C.**	G1/4	lever	1480	.335 (8.5)	0.62 (0.28)	3,6÷5,2	E	2	G	5.039 (128)	
	UCM 424F	5/3 **O.C.**	G1/8	lever with spring	890	.256 (6.5)	0.51 (0.23)	6,5 ÷ 10	E	2	F	4.272 (108.5)	
	UCM 9424F	5/3 **O.C.**	G1/4	lever with spring	1480	.335 (8.5)	0.62 (0.28)	6,7÷11	E	2	G	5.039 (128)	
	UCM 425E	5/3 **P.C.**	G1/8	lever	890	.256 (6.5)	0.51 (0.23)	3,5 ÷ 5	E	2	G	4.272 (108.5)	
	UCM 9425E	5/3 **P.C.**	G1/4	lever	1480	.335 (8.5)	0.62 (0.28)	3,6÷5,2	E	2	G	5.039 (128)	
	UCM 425F	5/3 **P.C.**	G1/8	lever with spring	890	.256 (6.5)	0.51 (0.23)	6,5 ÷ 10	E	2	F	4.272 (108.5)	
	UCM 9425F	5/3 **P.C.**	G1/4	lever with spring	1480	.335 (8.5)	0.62 (0.28)	6,7÷11	E	2	G	5.039 (128)	



LONG LEVER

■ RED
UCP 913R



SHORT LEVER

■ YELLOW
UCP 912G

■ RED
UCP 912R

■ BLACK
UCP 912N

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

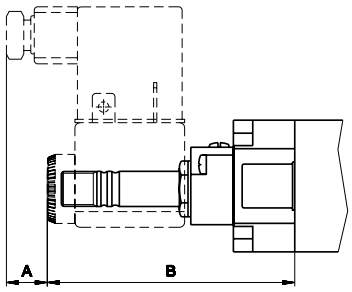
Valves are supplied without lever

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

VALVES WITH PNEUMATIC / ELECTRIC CONTROL

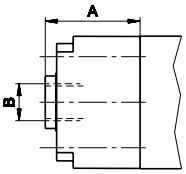
CONTROL | BODY | RETURN

A ELECTRIC/AMPLIFIED



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

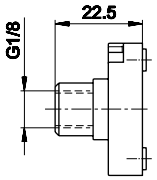
B PNEUMATIC AMPLIFIED



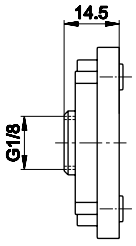
	A	B
G1/8	25	G1/8
G1/4	28,5	G1/8

C PNEUMATIC NOT AMPLIFIED

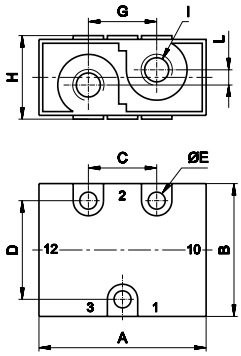
G1/8



G1/4



1 3/2 NC-NO

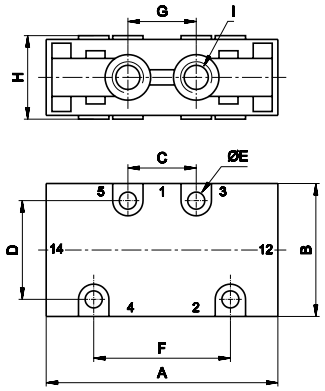


NC
1 = Supply port
2 = Use
3 = Exhaust
12 = Control
10 = Return

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

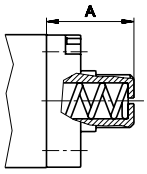
2 5/2



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

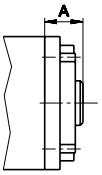
	A	B	C	D	E	F	G	H	I
G1/8	64	35	18	26	4,5	36	18	22	G1/8
G1/4	77,5	48	22	38	5,5	48	22	26	G1/4

D MECHANICAL SPRING



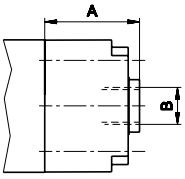
	A
G1/8	22,5
G1/4	25,5

E PNEUMATIC SPRING



	A
G1/8	10
G1/4	14,5

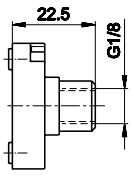
F PNEUMATIC AMPLIFIED



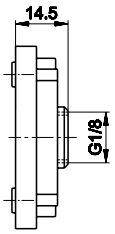
	A	B
G1/8	25	G1/8
G1/4	28,5	G1/8

G PNEUMATIC NOT AMPLIFIED

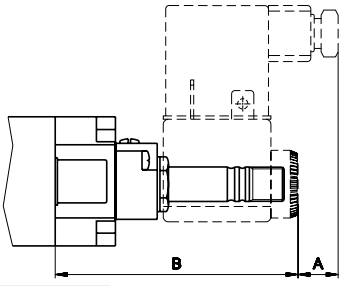
G1/8



G1/4

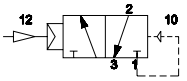
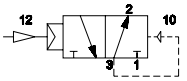
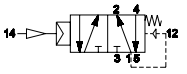
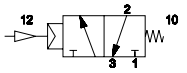
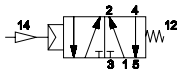


H ELECTRIC AMPLIFIED

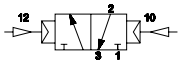
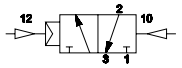
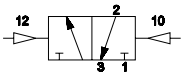
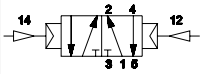
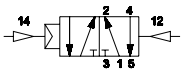
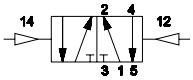
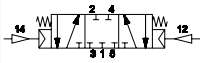
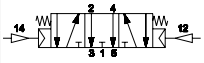
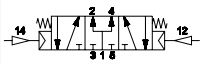


	A	B
G1/8	10	73
G1/4	10	76,5

VALVES WITH PNEUMATIC CONTROL

	Code	Way	Thread	Control	Return	Press. psi (bar)	Flow rate (Nl/min)	Ø inch (mm)	Weight lb (kg)	Resp. Time (ms) Ecc.	Resp. Time (ms) Diss.	Composition Control	Composition Body	Composition Return	tot. L inch (mm)	
SINGLE IMPULSE																
	**UCL 200**	3/2 NC	G1/8	pneumatic amplified	pneumatic spring	33 ÷ 145 (2.3 ÷ 10)	890	.256 (6.5)	0.44 (0.20)	11	14	B	1	E	3.248 (82.5)	
	UCL 9200	3/2 NC	G1/4	pneumatic amplified	pneumatic spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.51 (0.23)	13	16	B	1	E	4.055 (103)	
	**UCL 203**	3/2 NO	G1/8	pneumatic amplified	pneumatic spring	33 ÷ 145 (2.3 ÷ 10)	890	.256 (6.5)	0.44 (0.20)	11	14	B	1	E	3.248 (82.5)	
	UCL 9203	3/2 NO	G1/4	pneumatic amplified	pneumatic spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.51 (0.23)	13	16	B	1	E	4.055 (103)	
	**UCM 500**	5/2	G1/8	pneumatic amplified	pneumatic spring	36 ÷ 145 (2.5 ÷ 10)	890	.256 (6.5)	0.44 (0.20)	10	15	B	2	E	3.898 (99)	
	UCM 9500	5/2	G1/4	pneumatic amplified	pneumatic spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.57 (0.26)	13	16	B	2	E	4.744 (120.5)	
	**UCL 200A**	3/2 NC - NO	G1/8	pneumatic amplified	pneumatic spring	36 ÷ 145 (2.5 ÷ 10)	890	.256 (6.5)	0.46 (0.21)	9	17	B	1	D	3.740 (95)	
	UCL 9200A	3/2 NC - NO	G1/4	pneumatic amplified	pneumatic spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.53 (0.24)	10	19	B	1	D	4.488 (114)	
	**UCM 500A**	5/2	G1/8	pneumatic amplified	mechanical spring	44 ÷ 145 (3 ÷ 10)	890	.256 (6.5)	0.42 (0.19)	10	18	B	2	D	4.390 (111.5)	
	UCM 9500A	5/2	G1/4	pneumatic amplified	mechanical spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.57 (0.26)	11	20	B	2	D	5.177 (131.5)	

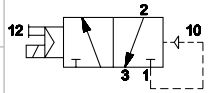
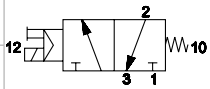
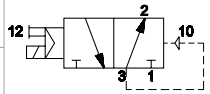
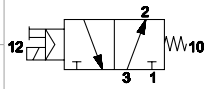
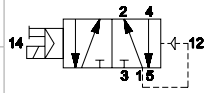
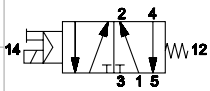
VALVES WITH PNEUMATIC CONTROL

	Code	Way	Thread	Control	Return	Press. psi (bar)	Flow rate (Nl/min)	Ø inch (mm)	Weight lb (kg)	Resp. Time (ms) Ecc.	Resp. Time (ms) Diss.	Composition Control	Composition Body	Composition Return	tot. L inch (mm)	
DOUBLE IMPULSE																
	UCL 220	3/2 NC - NO	G1/8	pneumatic amplified	pneumatic amplified	15 ÷ 145 (1 ÷ 10)	890	.256 (6.5)	0.35 (0.16)	6	6	B	1	F	3.839 (97.5)	
	UCL 9220	3/2 NC - NO	G1/4	pneumatic amplified	pneumatic amplified	15 ÷ 145 (1 ÷ 10)	1480	.335 (8.5)	0.46 (0.21)	8	8	B	1	F	4.606 (117)	
	UCL 221	3/2 NC - NO	G1/8	pneumatic amplified	pneumatic not amplified	25 ÷ 145 (1.7 ÷ 10)	890	.256 (6.5)	0.33 (0.15)	6	8	B	1	G	3.740 (95)	
	UCL 9221	3/2 NC - NO	G1/4	pneumatic amplified	pneumatic not amplified	22 ÷ 145 (1.5 ÷ 10)	1480	.335 (8.5)	0.49 (0.22)	8	10	B	1	G	4.055 (103)	
	UCL 224	3/2 NC - NO	G1/8	pneumatic not amplified	pneumatic not amplified	25 ÷ 145 (1.7 ÷ 10)	890	.256 (6.5)	0.31 (0.14)	8	8	C	1	G	3.642 (92.5)	
	UCL 9224	3/2 NC - NO	G1/4	pneumatic not amplified	pneumatic not amplified	22 ÷ 145 (1.5 ÷ 10)	1480	.335 (8.5)	0.53 (0.24)	10	10	C	1	G	3.504 (89)	
	UCM 520	5/2	G1/8	pneumatic amplified	pneumatic amplified	17 ÷ 145 (1.2 ÷ 10)	890	.256 (6.5)	0.40 (0.18)	7	7	B	2	F	4.488 (114)	
	UCM 9520	5/2	G1/4	pneumatic amplified	pneumatic amplified	22 ÷ 145 (1.5 ÷ 10)	1480	.335 (8.5)	0.53 (0.24)	9	9	B	2	F	5.295 (134.5)	
	UCM 521	5/2	G1/8	pneumatic amplified	pneumatic not amplified	29 ÷ 145 (2 ÷ 10)	890	.256 (6.5)	0.42 (0.19)	7	9	B	2	G	4.390 (111.5)	
	UCM 9521	5/2	G1/4	pneumatic amplified	pneumatic not amplified	26 ÷ 145 (1.8 ÷ 10)	1480	.335 (8.5)	0.55 (0.25)	9	10	B	2	G	4.744 (120.5)	
	UCM 524	5/2	G1/8	pneumatic not amplified	pneumatic not amplified	29 ÷ 145 (2 ÷ 10)	890	.256 (6.5)	0.44 (0.20)	9	9	C	2	G	4.291 (109)	
	UCM 9524	5/2	G1/4	pneumatic not amplified	pneumatic not amplified	26 ÷ 145 (1.8 ÷ 10)	1480	.335 (8.5)	0.60 (0.27)	10	10	C	2	G	7.815 (198.5)	
	UCM 580	5/3 C.C.	G1/8	pneumatic amplified	pneumatic amplified	36 ÷ 145 (2.5 ÷ 10)	890	.256 (6.5)	0.46 (0.21)	8	12	B	2	F	4.488 (114)	
	UCM 9580	5/3 C.C.	G1/4	pneumatic amplified	pneumatic amplified	41 ÷ 145 (2.8 ÷ 10)	1480	.335 (8.5)	0.66 (0.30)	10	13	B	2	F	5.295 (134.5)	
	UCM 585	5/3 O.C.	G1/8	pneumatic amplified	pneumatic amplified	36 ÷ 145 (2.5 ÷ 10)	890	.256 (6.5)	0.46 (0.21)	8	12	B	2	F	4.488 (114)	
	UCM 9585	5/3 O.C.	G1/4	pneumatic amplified	pneumatic amplified	41 ÷ 145 (2.8 ÷ 10)	1480	.335 (8.5)	0.66 (0.30)	10	13	B	2	F	5.295 (134.5)	
	UCM 590	5/3 P.C.	G1/8	pneumatic amplified	pneumatic amplified	36 ÷ 145 (2.5 ÷ 10)	890	.256 (6.5)	0.46 (0.21)	8	12	B	2	F	4.488 (114)	
	UCM 9590	5/3 P.C.	G1/4	pneumatic amplified	pneumatic amplified	41 ÷ 145 (2.8 ÷ 10)	1480	.335 (8.5)	0.66 (0.30)	10	13	B	2	F	5.295 (134.5)	

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

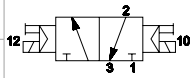
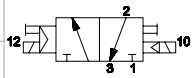
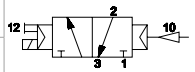
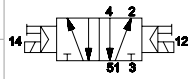
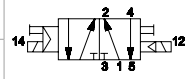
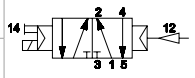
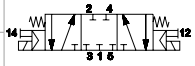
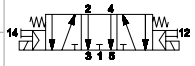
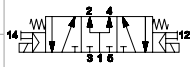
To get 3/2 NO version, supply the valve from port 3

VALVES WITH ELECTRIC CONTROL

	Code	Way	Thread	Control	Return	Press. psi (bar)	Flow rate (Nl/min)	Ø inch (mm)	Weight lb (kg)	Resp. Time (ms) Ecc.	Diss.	Composition Control	Body	Return	tot. L inch (mm)	
SINGLE IMPULSE																
	**UCL 300**	3/2 NC	G1/8	electrical amplified	pneumatic spring	33 ÷ 145 (2.3 ÷ 10)	890	.256 (6.5)	0.44 (0.20)	23	19	A	1	E	5.531 (140.5)	
	UCL 9300	3/2 NC	G1/4	electrical amplified	pneumatic spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.60 (0.27)	24	28	A	1	E	6.339 (161)	
	**UCL 302A**	3/2 NC	G1/8	electrical amplified	mechanical spring	36 ÷ 145 (2.5 ÷ 10)	890	.256 (6.5)	0.46 (0.21)	20	24	A	1	D	6.024 (153)	
	UCL 9302A	3/2 NC	G1/4	electrical amplified	mechanical spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.62 (0.28)	22	35	A	1	D	6.772 (172)	
	**UCL 301**	3/2 NO	G1/8	electrical amplified	pneumatic spring	33 ÷ 145 (2.3 ÷ 10)	890	.256 (6.5)	0.44 (0.20)	23	19	A	1	E	5.531 (140.5)	
	UCL 9301	3/2 NO	G1/4	electrical amplified	pneumatic spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.60 (0.27)	24	28	A	1	E	6.339 (161)	
	**UCL 303A**	3/2 NO	G1/8	electrical amplified	mechanical spring	36 ÷ 145 (2.5 ÷ 10)	890	.256 (6.5)	0.46 (0.21)	20	24	A	1	D	6.024 (153)	
	UCL 9303A	3/2 NO	G1/4	electrical amplified	mechanical spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.62 (0.28)	22	35	A	1	D	6.772 (172)	
	**UCM 600**	5/2	G1/8	electrical amplified	pneumatic spring	36 ÷ 145 (2.5 ÷ 10)	890	.256 (6.5)	0.53 (0.24)	24	20	A	2	E	6.181 (157)	
	UCM 9600	5/2	G1/4	electrical amplified	pneumatic spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.66 (0.30)	25	32	A	2	E	7.028 (178.5)	
	**UCM 602A**	5/2	G1/8	electrical amplified	mechanical spring	44 ÷ 145 (3 ÷ 10)	890	.256 (6.5)	0.55 (0.25)	21	25	A	2	D	6.673 (169.5)	
	UCM 9602A	5/2	G1/4	electrical amplified	mechanical spring	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.68 (0.31)	22	43	A	2	D	7.461 (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. psi (bar)	Flow rate (Nl/min)	Ø inch (mm)	Weight lb (kg)	Resp. Time (ms) Ecc.	Resp. Time (ms) Diss.	Composition Control	Composition Body	Composition Return	tot. L inch (mm)	
DOUBLE IMPULSE																
	**UCL 320**	3/2 NC - NO	G1/8	electrical amplified	electrical amplified	15 ÷ 145 (1 ÷ 10)	890	.256 (6.5)	0.53 (0.24)	17	17	A	1	H	8.406 (213.5)	
	UCL 9320	3/2 NC - NO	G1/4	electrical amplified	electrical amplified	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.64 (0.29)	18	18	A	1	H	9.173 (233)	
	**UCL 321**	3/2 NC - NO	G1/8	electrical amplified	electrical not amplified	25 ÷ 145 (1.7 ÷ 10)	890	.256 (6.5)	0.53 (0.24)	17	20	A	1	H	8.406 (213.5)	
	UCL 9321	3/2 NC - NO	G1/4	electrical amplified	electrical not amplified	22 ÷ 145 (1.5 ÷ 10)	1480	.335 (8.5)	0.66 (0.30)	18	22	A	1	H	9.173 (233)	
	**UCL 322**	3/2 NC - NO	G1/8	electrical amplified	pneumatic amplified	36 ÷ 145 (2.5 ÷ 10)	890	.256 (6.5)	0.46 (0.21)	20	7	A	1	F	6.122 (155.5)	
	UCL 9322	3/2 NC - NO	G1/4	electrical amplified	pneumatic amplified	29 ÷ 145 (2 ÷ 10)	1480	.335 (8.5)	0.57 (0.26)	22	8	A	1	F	6.890 (175)	
	**UCM 620**	5/2	G1/8	electrical amplified	electrical amplified	17 ÷ 145 (1.2 ÷ 10)	890	.256 (6.5)	0.62 (0.28)	20	20	A	2	H	9.055 (230)	
	UCM 9620	5/2	G1/4	electrical amplified	electrical amplified	22 ÷ 145 (1.5 ÷ 10)	1480	.335 (8.5)	0.71 (0.32)	22	22	A	2	H	9.862 (250.5)	
	**UCM 621**	5/2	G1/8	electrical amplified	electrical not amplified	29 ÷ 145 (2 ÷ 10)	890	.256 (6.5)	0.62 (0.28)	20	23	A	2	H	9.055 (230)	
	UCM 9621	5/2	G1/4	electrical amplified	electrical not amplified	26 ÷ 145 (1.8 ÷ 10)	1480	.335 (8.5)	0.71 (0.32)	22	25	A	2	H	9.862 (250.5)	
	**UCM 622**	5/2	G1/8	electrical amplified	pneumatic amplified	17 ÷ 145 (1.2 ÷ 10)	890	.256 (6.5)	0.53 (0.24)	20	8	A	2	F	6.772 (172)	
	UCM 9622	5/2	G1/4	electrical amplified	pneumatic amplified	22 ÷ 145 (1.5 ÷ 10)	1480	.335 (8.5)	0.64 (0.29)	22	10	A	2	F	7.579 (192.5)	
	UCM 680	5/3 **C.C.**	G1/8	electrical amplified	electrical amplified	36 ÷ 145 (2.5 ÷ 10)	890	.256 (6.5)	0.46 (0.21)	18	24	A	2	H	9.055 (230)	
	UCM 9680	5/3 **C.C.**	G1/4	electrical amplified	electrical amplified	41 ÷ 145 (2.8 ÷ 10)	1480	.335 (8.5)	0.66 (0.30)	20	35	A	2	H	9.862 (250.5)	
	UCM 685	5/3 **O.C.**	G1/8	electrical amplified	electrical amplified	36 ÷ 145 (2.5 ÷ 10)	890	.256 (6.5)	0.46 (0.21)	18	24	A	2	H	9.055 (230)	
	**UCM 9685**	5/3 **O.C.**	G1/4	electrical amplified	electrical amplified	41 ÷ 145 (2.8 ÷ 10)	1480	.335 (8.5)	0.66 (0.30)	20	35	A	2	H	9.862 (250.5)	
	UCM 690	5/3 **P.C.**	G1/8	electrical amplified	electrical amplified	36 ÷ 145 (2.5 ÷ 10)	890	.256 (6.5)	0.46 (0.21)	18	24	A	2	H	9.055 (230)	
	UCM 9690	5/3 **P.C.**	G1/4	electrical amplified	electrical amplified	41 ÷ 145 (2.8 ÷ 10)	1480	.335 (8.5)	0.66 (0.30)	20	35	A	2	H	9.862 (250.5)	

C.C. = open centers **O.C.** = closed centers **P.C.** = pressurized centers
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: 14 ÷ 113 °F. Fluid temperature: 14 ÷ 203 °F.

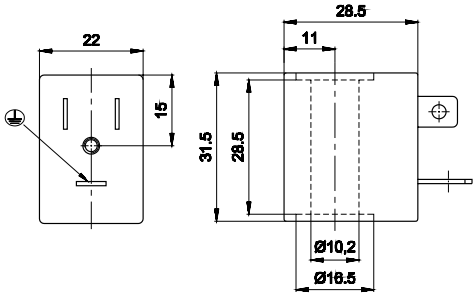
The solenoid valves functioning with 100V-230V must be incorporated (EN60204-1)

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





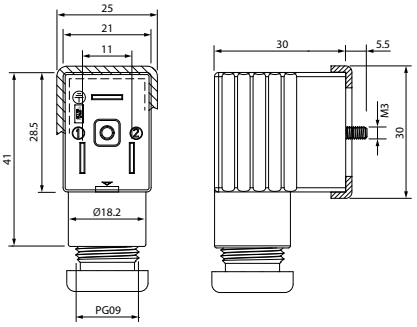
22 mm

10 mm Ø

Code	Duty cycle ED (a) %	Power consumption W		Tolerance tension %	Rated voltage	Weight lb (Kg)
		Hold	Inrush			
UDA 0050	100	3,5	3,5	±10	12 V DC	0.13 (0.06)
UDA 0051	100	3,5	3,5	±10	24 V DC	0.13 (0.06)
UDA 0106	100	5,4 VA (Max)	7,8 VA (Max)	±10	24 V AC/50-60 HZ	0.13 (0.06)
UDA 0108	100	5,4 VA (Max)	7,8 VA (Max)	±10	110 V AC/50-60 HZ	0.13 (0.06)
UDA 0124	100	5,4 VA (Max)	7,8 VA (Max)	±10	230 V AC/50-60 HZ	0.13 (0.06)





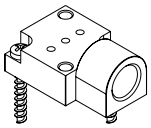


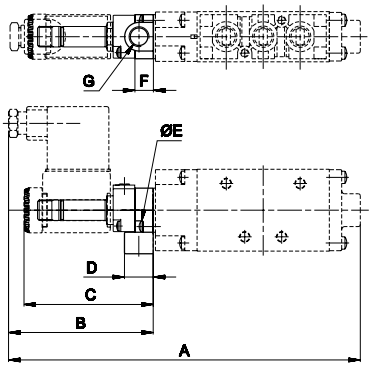
	Code		Size	Color	Characteristics
*	CONU1 000 01		.866 (22 mm)	BLACK	2 PINS
*	CONU2 024 00		.866 (22 mm)	TRANSPARENT	LED + VDR 0 - 24V
*	CONU2 110 00		.866 (22 mm)	TRANSPARENT	LED + VDR 110V
*	CONU2 250 00		.866 (22 mm)	TRANSPARENT	LED + VDR 220V

*: **UL 1977 AND CAN/CSA C22.2 NO. 182.3**

VDR: Fitted with varistors as surge protection device.

PLATE FOR EXTERNAL PILOT



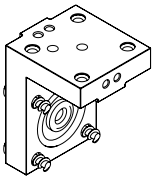


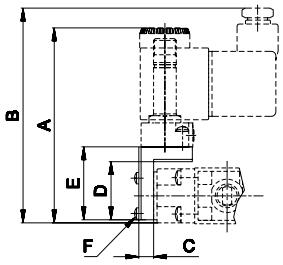
UAM 5148

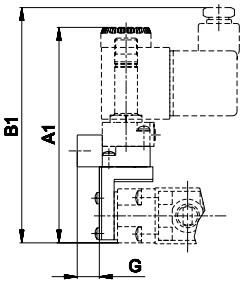
Plate for external servoassisted pilot weight: 0.07 lb (0.03 kg)

	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"





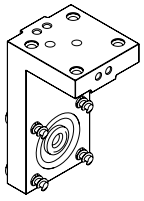


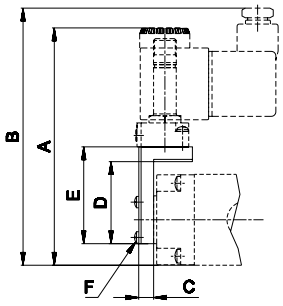
UAM 5151 + UAM 5148

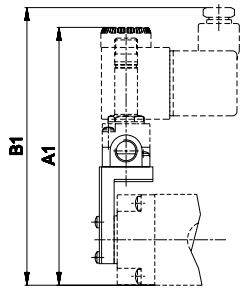
"H" option solenoid square weight: 0.08 lb (0.035 kg)

	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"







UAM-5152 + UAM-5148

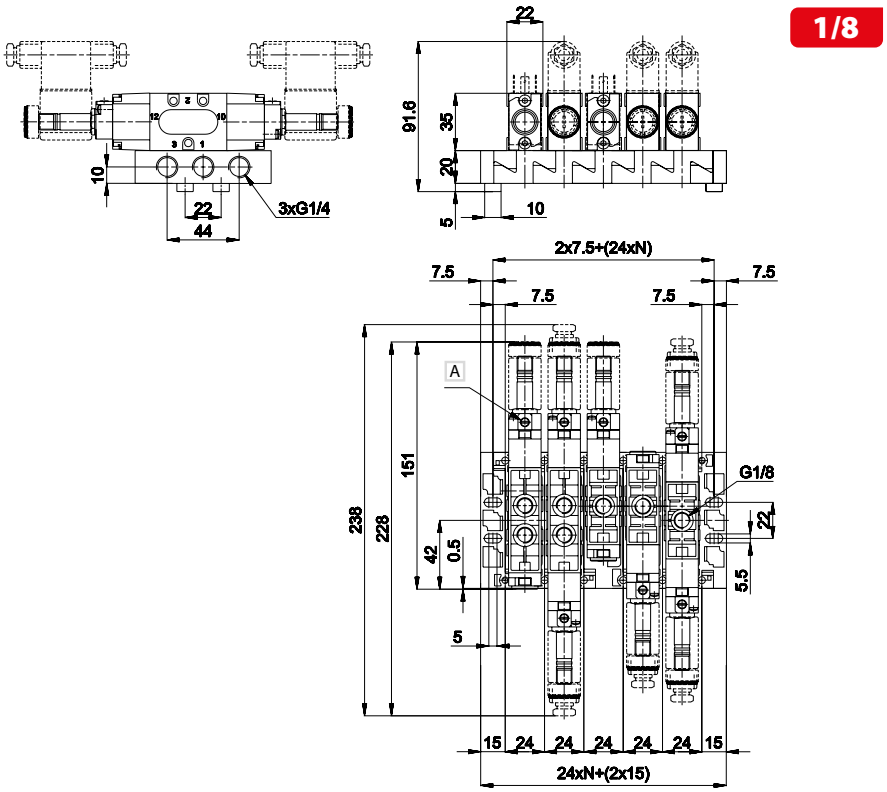
"P" option solenoid square weight: 0.11 lb (0.05 kg)

	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"

1/8





A Manual override

NC

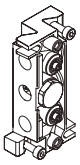
1 = Supply port
2 = Use
3 = Exhaust
12 = Control
10 = Return

NO

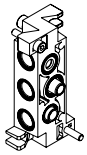
1 = Exhaust
2 = Use
3 = Supply port
12 = Control
10 = Return

N = Number of valve places

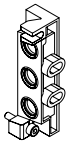
When assembling the manifold put the sub-base on a flat surface and tighten the special screw supplied. This will give perfect alignment.



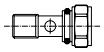
UCP 100 — modular sub-base with regulated and conveyed exhaust connections: G1/8 material: zamak weight: 0.30 lb (0.136 kg) — standard supplied: screws, seals, exhaust regulator, and fixing couplings



UCP 101 — modular sub-base without exhaust regulator connections: G1/8 material: zamak weight: 0.30 lb (0.136 kg) — standard supplied: screws, seals, and fixing couplings



UCP 105 — inlet plate side connections connections: G1/4 material: zamak weight: 0.19 lb (0.086 kg) — standard supplied: screws and seals



UCP 110 — coupling connections: G1/8 material: brass weight: 0.06 lb (0.028 kg)



UCP 111 — pressure separator connections: G1/8 material: aluminum weight: 0.03 lb (0.013 kg)

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



UCP 112 — cap for 3/2 valve mounting connections: G1/8 material: aluminum weight: 0.02 lb (0.010 kg)



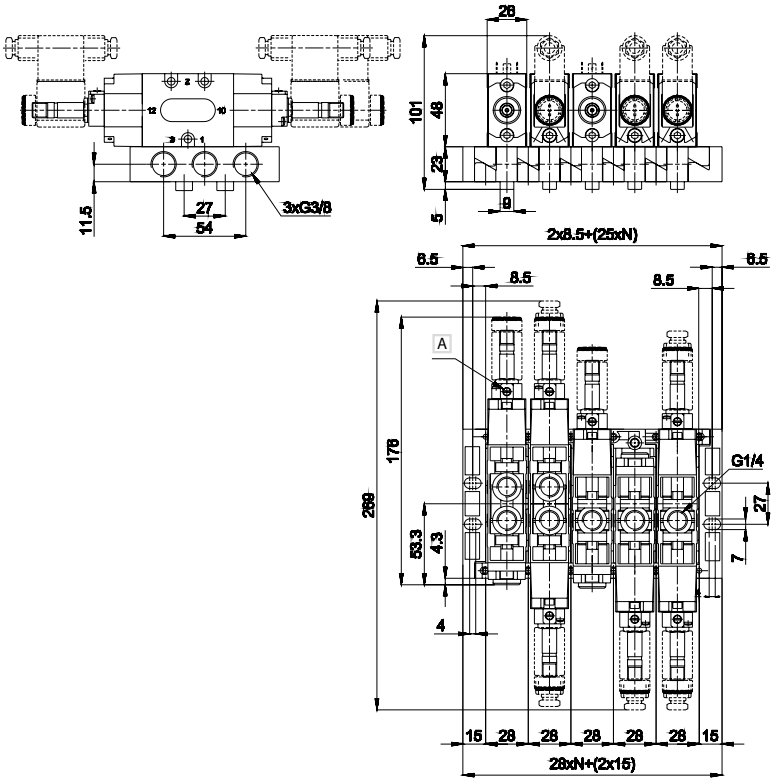
UCP 113 — adjustment screw connections: G1/8 material: brass weight: 0.01 lb (0.006 kg)

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"

1/4





A Manual override

NC

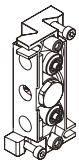
1 = Supply port
2 = Use
3 = Exhaust
12 = Control
10 = Return

NO

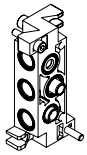
1 = Exhaust
2 = Use
3 = Supply port
12 = Control
10 = Return

N = Number of valve places

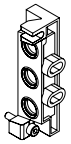
When assembling the manifold put the sub-base on a flat surface and tighten the special screw supplied. This will give perfect alignment.



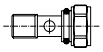
UCP 9100 — modular sub-base regulated and conveyed exhaust connections: G1/4 material: zamak weight: 0.46 lb (0.210 kg) — standard supplied: screws, seals, exhaust regulator, and fixing couplings



UCP 9101 — modular sub-base without exhaust regulator connections: G1/4 material: zamak weight: 0.46 lb (0.210 kg) — standard supplied: screws, seals, and fixing couplings



UCP 9105 — inlet plate side connections connections: G3/8 material: zamak weight: 0.26 lb (0.120 kg) — standard supplied: screws and seals



UCP 9110 — coupling connections: G1/4 material: brass weight: 0.06 lb (0.028 kg)



UCP 9111 — pressure separator connections: G1/4 material: aluminum weight: 0.03 lb (0.013 kg)

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



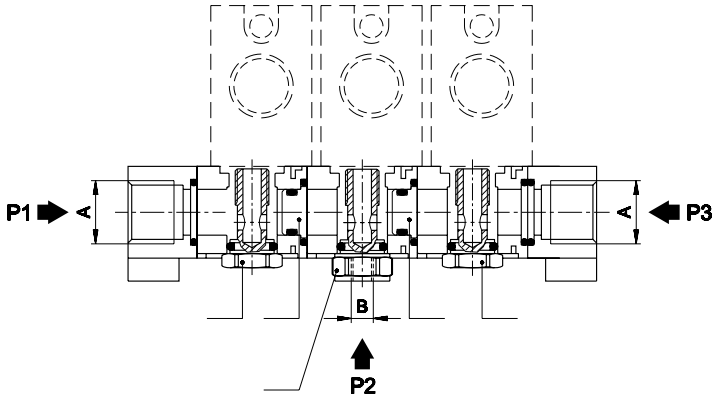
UCP 9112 — cap for 3/2 valve mounting connections: G1/4 material: aluminum weight: 0.02 lb (0.010 kg)



UCP 9113 — adjustment screw connections: G1/4 material: ottone weight: 0.01 lb (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.

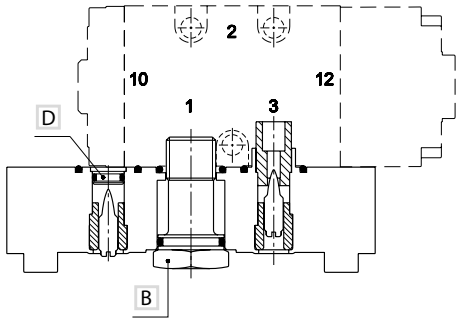
ASSEMBLY EXAMPLES MANIFOLD 3 PRESSURES



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

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

MOUNTING OF 3/2 NC VALVE



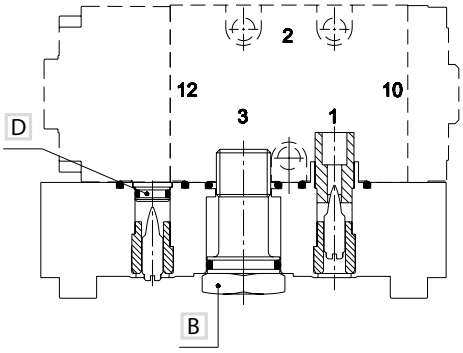
NC

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 **UCP 112 / UCP 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 **UCP 112 / UCP 9112**

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