Flow control valves Series SCU-MCU-SVU-MVU-SCO-MCO

Flow control valves Banjo flow controllers Unidirectional and bidirectional Ports M5, G1/8, G1/4, G3/8, G1/2



These unidirectional and bidirectional flow controllers have been designed as small as possible so as to be mounted directly on valves or cylinders. The great variety of adjustable fittings makes it possible to complete the regulator with the most suitable system in relation to the available tube. Only the G1/2 model is supplied complete with banjo flow controllers. For the other models the banjo flow controller is to be requested separately.

GENERAL DATA

Construction	needle type
Valve group	unidirectional and bidirectional controller
Materials	body and regulation screw: M5 = stainless steel; 1/8 - 1/4 - 3/8 - 1/2 = OT; seals = NBR
Mounting	by male thread
Ports	M5 - G1/8 - G1/4 - G3/8 - G1/2
Installation	in any position
Operating temperature	0°C ÷ 80°C (with dry air - 20°C)
Operating pressure	1 ÷ 10 bar
Nominal pressure	6 bar
Nominal flow	see graph
Nominal diameter	M5 = 1,5 mm - G1/8 = 2 mm - G1/4 = 4 mm - G3/8 = 7 mm - G1/2 = 12 mm
Fluid	filtered air



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GENERAL CATALOGUE > Release 8.1

CODING EXAMPLE

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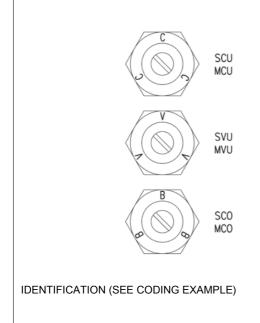


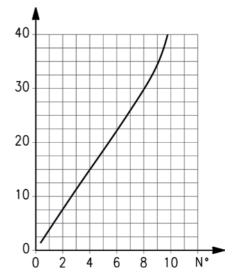
Μ	ACTUATION: M = Manual S = Screwdriver
CU	ASSEMBLY / VALVE TYPE: CU = directly on double-acting cylinders / unidirectional VU = directly on valves / unidirectional CO = directly on valves exhaust / bidirectional
7	VERSIONS: 6 = needle (screwdriver operated) 7 = needle (manual operated)
02	NOMINAL DIAMETER: 02 = Ø 1,5 max 04 = Ø 2 max 06 = Ø 4 max 08 = Ø 7 max 10 = Ø 12 max
M5	PORTS: M5 = M5 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 1/2 = G1/2

M5

To ensure the right choice of unidirectional flow controller, proceed as follows: calculate the quantity of air in NI/min (see cylinder Table); determine the stroke time of the cylinder; refer to graph to see which controller is the right type.

UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROLLERS



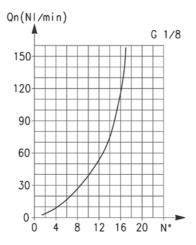


Flow Qn (Nl/min.) from 2 \rightarrow 1 with controller OPEN: 47 Flow Qn (Nl/min.) from 2 \rightarrow 1 with controller CLOSED: 33 Qn = supply pressure of 6 bar and with ΔP = 1 bar at the outlet N° = number of screw turns.



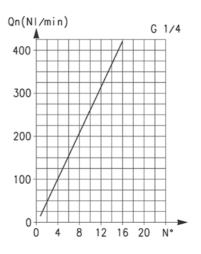
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UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROLLERS



Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 200 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 70 Qn is determined with a supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet

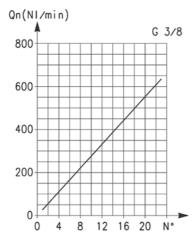
N° = number of screw turns.



Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 530 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 160 Qn is determined with a supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet

N° = number of screw turns.

UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROLLERS



Flow Qn (NI/min.) from 2 \rightarrow 1 with controller OPEN: 710 Flow Qn (NI/min.) from 2 \rightarrow 1 with controller CLOSED: 410 Qn is determined with a supply pressure of 6 bar and with ΔP = 1 bar at the outlet.

N° = number of screw turns.

Flow Qn (NI/min.) from 2 \rightarrow 1 with controller OPEN: 2570 Flow Qn (NI/min.) from 2 \rightarrow 1 with controller CLOSED: 1330 Qn is determined with a supply pressure of 6 bar and with ΔP = 1 bar at the outlet.

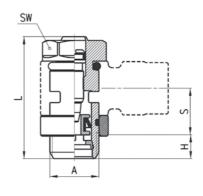
N° = number of screw turns.



Valves Series SCU

Unidirectional flow controller for mounting on singleacting or double-acting cylinders. Adjustment of setting by a screwdriver. Ports: M5, G1/8, G1/4 and G3/8.

Assembly with fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170.



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Mod А н L S SW SCU 602-M5 M5 3.5 21,5 5.5 8 SCU 604-1/8 G1/8 5 31,5 12.5 12 SCU 606-1/4 G1/4 6 32,5 12,5 15 SCU 608-3/8 G3/8 7 40,5 12,5 18

Note: M5 flow controllers must be used together with M6 adjustable fittings.

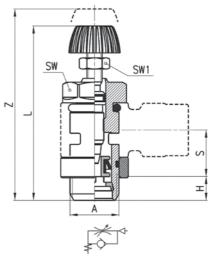


DIMENSIONS

Valves Series MCU

Unidirectional flow controller for mounting on singleacting or double-acting cylinders. Adjustment of setting by a manually operated knurled screw. Ports: M5, G1/8, G1/4, G3/8.

Assembly with fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170.



DIMENSIONS Н s SW SW1 Mod A L MCU 702-M5 M5 3,5 31 5,5 8 5,5 MCU 704-1/8 G1/8 5 41 12.5 12 7 MCU 706-1/4 G1/4 6 43,5 12,5 15 7 MCU 708-3/8

Note: M5 flow controllers must be used together with M6 adjustable fittings.

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60.5



G3/8

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Valves Series SVU

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Unidirectional flow controller for mounting on valves. Adjustment of setting by a screwdriver. Ports: M5, G1/8, G1/4.

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12,5

Assembly with fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170.

DIMENSIONS					
Mod.	А	Н	L	S	SW
SVU 602-M5	M5	3,5	21,5	5,5	8
SVU 604-1/8	G1/8	5	31,5	12,5	12
SVU 606-1/4	G1/4	6	32,5	12,5	15

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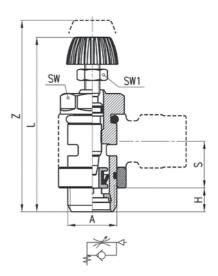
Note: M5 flow controllers must be used together with M6 adjustable fittings.

Valves Series MVU

Unidirectional flow controller for mounting on valve. Adjustment of setting by a manually operated knurled screw.

Ports: M5, G1/8, G1/4.

Assembly with fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170.



DIMENSIONS							
Mod.	А	Н	L	S	SW	SW1	Z
MVU 702-M5	M5	3,5	31	5,5	8	5,5	35
MVU 704-1/8	G1/8	5	41	12,5	12	7	46
MVU 706-1/4	G1/4	6	43,5	12,5	15	7	49

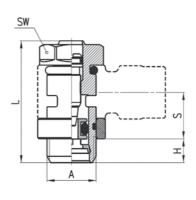
Note: M5 flow controllers must be used together with M6 adjustable fittings.



Valves Series SCO

Bidirectional flow controller. Adjustment of setting by a screwdriver. Ports: M5, G1/8, G1/4.

Assembly with fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170; 2905.



DIMENSIONS					
Mod.	А	н	L	S	SW
SCO 602-M5	M5	3,5	21,5	5,5	8
SCO 604-1/8	G1/8	5	31,5	12,5	12
SCO 606-1/4	G1/4	6	32,5	12,5	15



Note: M5 flow controllers must be used together with M6 adjustable fittings.



Valves Series MCO

Bidirectional flow controller. Adjustment of setting by a manually operated knurled screw. Ports: M5, G1/8, G1/4.

Assembly with fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170; 2905.

DIMENSIONS							
Mod.	А	Н	L	S	SW	SW1	Z
MCO 702-M5	M5	3,5	31	5,5	8	5,5	35
MCO 704-1/8	G1/8	5	41	12,5	12	7	46
MCO 706-1/4	G1/4	6	43,5	12,5	15	7	49

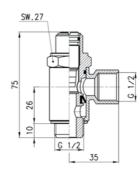
Note: M5 flow controllers must be used together with M6 adjustable fittings.





Valves Series SCU

Unidirectional flow controller for mounting on singleacting or double-acting cylinders. Screwdriver adjustment.



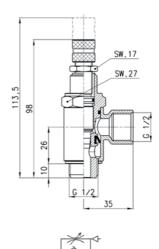


Mod. SCU 610-1/2



Valves Series MCU

Unidirectional flow controller for mounting on single-acting or double-acting cylinders. Adjustment of setting by a manually operated knurled screw.

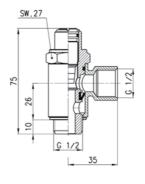


Mod. MCU710-1/2



Valves Series SVU

Unidirectional flow controller for mounting on valves. Screwdriver adjustment.

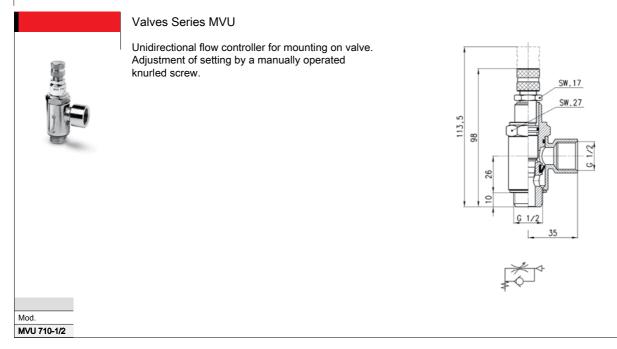




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Mod. SVU 610-1/2

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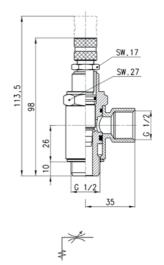




Mod. MCO 710-1/2

Valves Series MCO

Bidirectional flow controller. Adjustment of setting by a manually operated knurled screw.



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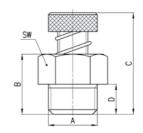




Flow control valves with silencer Series RSW

Flow control valves with silencer. Ports: G1/8, G1/4, G1/2.





DIMENSIONS							
Mod.	А	В	С	D	SW	Qn*(NI/mm)	
RSW 1/8	G1/8	13	22	6	12	410	
RSW 1/4	G1/4	16	27	8	16	650	
RSW 1/2	G1/2	26	35	11	26	1590	

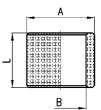


*determined with supply pressure 6 bar with free flow; ensuring screw is open to maximum output.



Silencing bush Series 2905

Silencing bush for Mod. SCO or MCO



DIMENSIONS						
Mod.	А	В	L			
2905 1/8	14	10	14,5			
2905 1/4	18	13,5	14,5			
2905 3/8	21	16,8	14,5			



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