

Series SCU, MCU, SVU, MVU, SCO, MCO flow control valves

Unidirectional and bidirectional banjo flow control regulators 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 = 0T;

seals = NBR

Mounting by male thread

Ports M5 - G1/8 - G1/4 - G3/8 - G1/2

Installation in any position

Operating temperature $0^{\circ}\text{C} \div 80^{\circ}\text{C}$ (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 ai

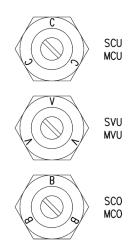
SERIES SCU, MCU, SVU, MVU, SCO, MCO VALVES

CODING EXAMPLE

| М | CU | 7 | 02 | - | M5 |
|----|--|---|----|---|----|
| M | ACTUATION: M = Manual S = Screwdriver | | | | |
| CU | ASSEMBLY: CU = on cylinders unidirection VU = on valves unidirectional CO = bidirectional | | | | |
| 7 | VERSIONS: 6 = needle (screwdriver oper 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 | | | | |

To ensure the right choice of unidirectional flow controller, proceed as follows: calculate the quantity of air in Nl/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

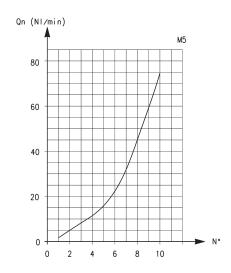


IDENTIFICATION OF DIFFERENT TYPES:

SCU - MCU = assembly directly on the cylinders

SVU - MVU = assembly directly on the valves

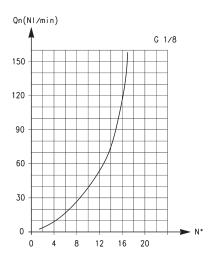
SCO - MCO = assembly directly on the cylinders or valves

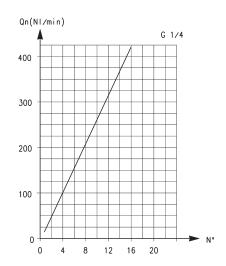


Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 70 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 33 Qn = supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet N° = number of screw turns.

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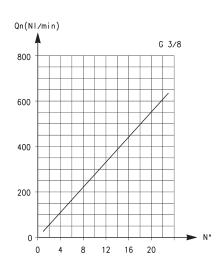
Flow Qn (Nl/min.) from 2 → 1 with controller OPEN: 200 Flow Qn (Nl/min.) from 2 → 1 with controller CLOSED: 70

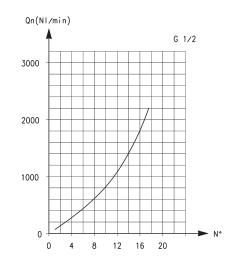
Qn = supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet N° = number of screw turns.

Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 530 Flow Qn (Nl/min.) from 2 → 1 with controller CLOSED: 160

Qn = supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet N° = number of screw turns.

UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROL REGULATORS





Flow On (Nl/min.) from 2 → 1 with controller OPEN: 710 Flow Qn (NI/min.) from 2 → 1 with controller CLOSED: 410

Qn = supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet N° = number of screw turns.

Flow On (NI/min.) from 2 → 1 with controller OPEN: 2570 Flow Qn (Nl/min.) from 2 → 1 with controller CLOSED: 1330

Qn = supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet N° = number of screw turns.

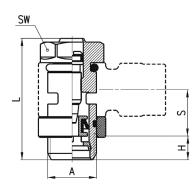
Unidirectional flow controllers Series SCU



For mounting on single-acting 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.



| DIMENSIONS | | | | | |
|-------------|------|-----|------|------|----|
| 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.

Unidirectional flow controllers Series MCU

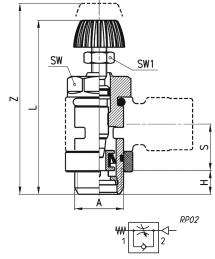


For mounting on single-acting or double-acting cylinders.

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.



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

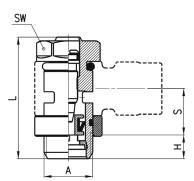
| DIMENSIONS | | | | | | | |
|-------------|------|-----|------|------|----|-----|------|
| Mod. | Α | Н | L | S | SW | SW1 | Z |
| MCU 702-M5 | M5 | 3,5 | 31 | 5,5 | 8 | 5,5 | 35 |
| MCU 704-1/8 | G1/8 | 5 | 41 | 12,5 | 12 | 7 | 46 |
| MCU 706-1/4 | G1/4 | 6 | 43,5 | 12,5 | 15 | 7 | 49 |
| MCU 708-3/8 | G3/8 | 7 | 52,5 | 12,5 | 18 | 10 | 60,5 |

Unidirectional flow controllers Series SVU

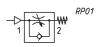


For mounting on valves. Adjustment of setting by a screwdriver. Ports: M5, G1/8, G1/4.

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 |



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

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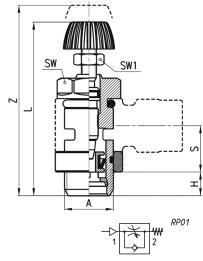
Unidirectional flow controllers Series MVU



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.



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

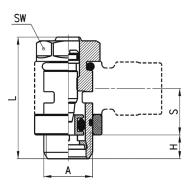
| DIMENSIONS | | | | | | | |
|-------------|------|-----|------|------|----|-----|----|
| Mod. | Α | Н | L | S | SW | SW1 | Z |
| MVU 702-M5 | M5 | 3,5 | 31 | 5,5 | 8 | 5,5 | 35 |
| MVU 704-1/8 | G1/8 | 5 | 41 | 12,5 | 12 | 7 | 46 |
| MVU 706-1/4 | G1/4 | 6 | 43,5 | 12,5 | 15 | 7 | 49 |

Bidirectional flow controllers Series SCO



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. | Α | 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.

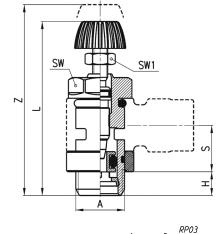
Bidirectional flow controllers Series MCO



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.



| Z | |
|----|----------|
| 35 | Note: N |
| 46 | used to |
| 49 | fittings |

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

| 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 |

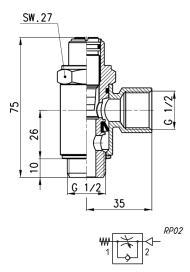
SERIES SCU, MCU, SVU, MVU, SCO, MCO VALVES

Unidirectional flow controllers Series SCU



For mounting on single-acting or double-acting cylinders.

Screwdriver adjustment.



Mod.

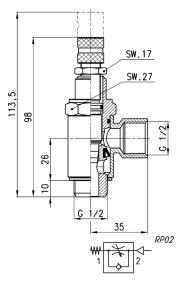
SCU 610-1/2

Unidirectional flow controllers Series MCU



For mounting on single-acting or double-acting cylinders.

Adjustment of setting by a manually operated knurled screw.



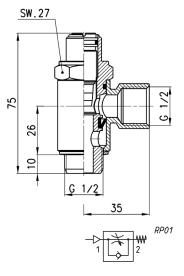
Mod.

MCU 710-1/2

Unidirectional flow controllers Series SVU



For mounting on valves. Screwdriver adjustment.



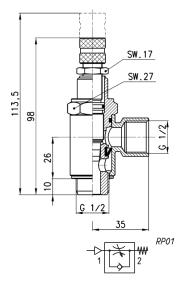
Mod. SVU 610-1/2

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Unidirectional flow controllers Series MVU



For mounting on valve. Adjustment of setting by a manually operated knurled screw.



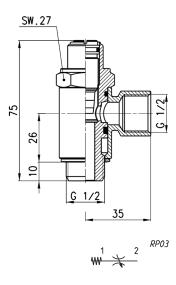
Mod.

MVU 710-1/2

Bidirectional flow controllers Series SCO



Screwdriver adjustment.



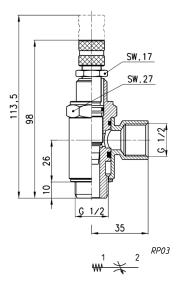
Mod.

SCO 610-1/2

Bidirectional flow controllers Series MCO



Adjustment of setting by a manually operated knurled screw.



Mod.

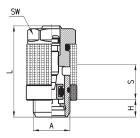
MCO 710-1/2



Silenced exhaust controllers Mod. SCO + 2905



The flow control valve Mod. SCO and the silencer Mod. 2905 are supplied separately.



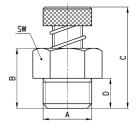
| DIMENSIONS | | | | | |
|----------------------|------|-----|------|------|----|
| Mod. | Α | Н | L | S | SW |
| SCO 602-M5+2905 M5 | M5 | 3.5 | 21.5 | 5.5 | 8 |
| SCO 604-1/8+2905 1/8 | G1/8 | 5 | 31.5 | 12.5 | 12 |
| SCO 606-1/4+2905 1/4 | G1/4 | 6 | 32.5 | 12.5 | 15 |



Series RSW flow control valves with silencer



Ports: G1/8, G1/4, G1/2.



| DIMENSIONS | | | | | | | | | | |
|------------|------|------|----|------|----|-------------|--|--|--|--|
| Mod. | А | В | С | D | SW | Q* (Nl/min) | | | | |
| RSW 1/8 | G1/8 | 10.5 | 22 | 6 | 13 | 410 | | | | |
| RSW 1/4 | G1/4 | 13 | 27 | 7.5 | 16 | 650 | | | | |
| RSW 3/8 | G3/8 | 16 | 30 | 9.5 | 20 | 1100 | | | | |
| RSW 1/2 | G1/2 | 18 | 40 | 10.5 | 26 | 1700 | | | | |



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