

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 = 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. If lubricated air is used, it is recommended to use ISOVG 32 oil. Once applied the lubrication should never be interrupted.

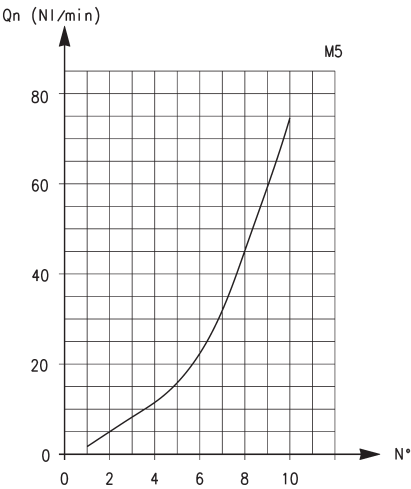
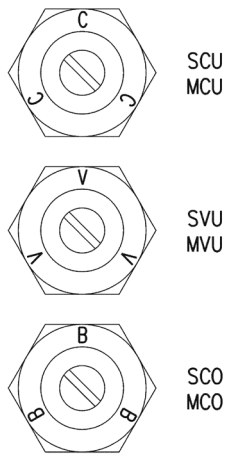
CODING EXAMPLE

M	CU		7	02	-	M5
M	ACTUATION: M = Manual S = Screwdriver					
CU	ASSEMBLY: CU = on cylinders unidirectional VU = on valves unidirectional CO = 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					

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

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

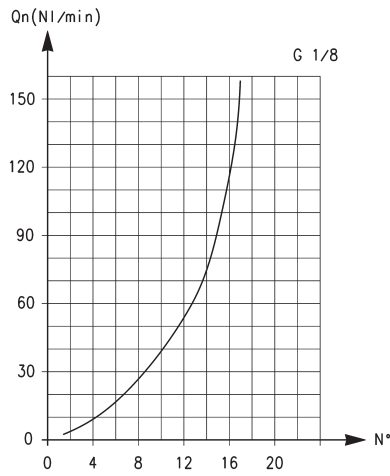


IDENTIFICATION OF DIFFERENT TYPES:
SCU - MCU = assembly directly on the cylinders
SVU - MVU = assembly directly on the valves
SCO - MCO = assembly directly on the cylinders or valves

Flow Qn (NI/min.) from 2 → 1 with controller OPEN: 70
Flow Qn (NI/min.) from 2 → 1 with controller CLOSED: 33
Qn = supply pressure of 6 bar and with ΔP = 1 bar at the outlet
N° = number of screw turns.

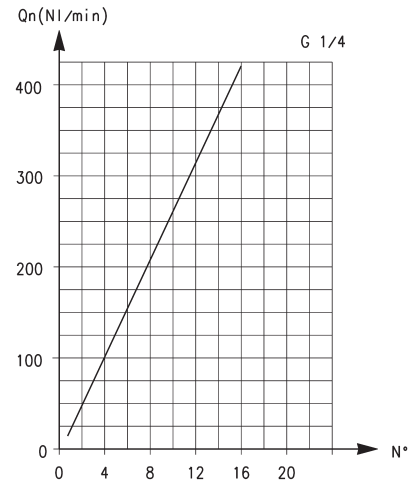
UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROL REGULATORS

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



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

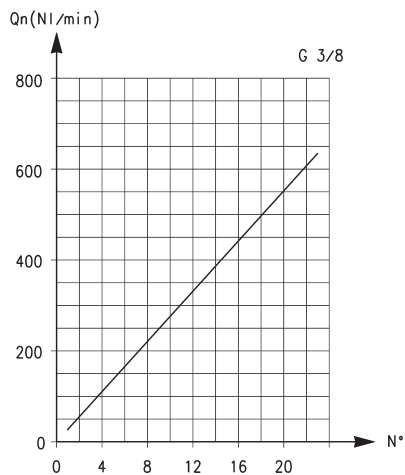
Q_n = supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet
 N° = number of screw turns.



Flow Q_n (NL/min.) from 2 → 1 with controller OPEN: 530
Flow Q_n (NL/min.) from 2 → 1 with controller CLOSED: 160

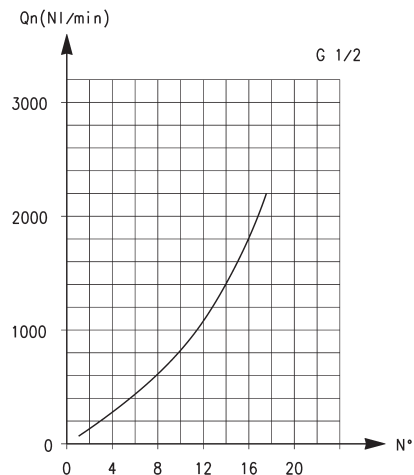
Q_n = supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet
 N° = number of screw turns.

UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROL REGULATORS



Flow Q_n (NL/min.) from 2 → 1 with controller OPEN: 710
Flow Q_n (NL/min.) from 2 → 1 with controller CLOSED: 410

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



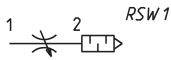
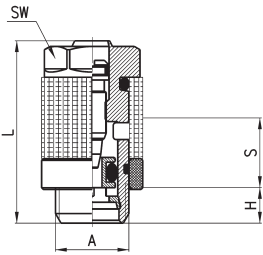
Flow Q_n (NL/min.) from 2 → 1 with controller OPEN: 2570
Flow Q_n (NL/min.) from 2 → 1 with controller CLOSED: 1330

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

Silenced exhaust controllers Mod. SCO + 2905



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

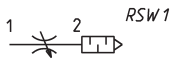
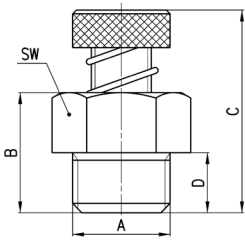


DIMENSIONS					
Mod.	A	H	L	S	SW
SCO 602-M5+2905 M5	M5	3.5	21.5	5.5	8
SCO 604-1/8+2905 1/8	G1/8	5	31.5	12.5	12
SCO 606-1/4+2905 1/4	G1/4	6	32.5	12.5	15

Series RSW flow control valves with silencer



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



DIMENSIONS						
Mod.	A	B	C	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.