

# Series GSCU, GMCU, GSVU, GMVU, GSCO, GMCO flow control valves

Unidirectional and bidirectional banjo flow controllers with nominal diameter 1,5 - 3,5 - 5 mm

Ports: M5, G1/8 and G1/4





These unidirectional and bidirectional flow controllers have been designed as small as possible to enable mounting directly on valves or cylinders.

The flow regulation range is wide and gradual, allowing the regulation to be very accurate either at minimum or maximum flow.

### **GENERAL DATA**

Construction needle - type

Valve groupunidirectional and bidirectional controllerMaterialsbody and screws M5 inox; 1/8 - 1/4 0T58 seals NBR

Mounting by male threaded Installation in any position

Operating temperature  $0^{\circ}\text{C} \div 80^{\circ}\text{C}$  (with dry air -20°C)

Operating pressure1 ÷ 10 barNominal pressure6 barNominal flowsee graph

**Nominal diameter** M5 = 1.5 mm - G1/8 = 2 mm - G1/4 = 4 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.



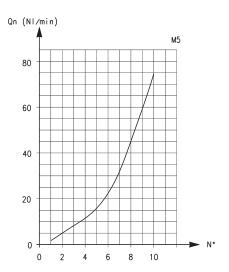
## **CODING EXAMPLE**

GM	CU		9	03	-	1/8	-	6
GM	ACTUATION: GM = manual GS = screwdriver							
CU	ASSEMBLY: CU = on cylinders unic VU = on valves unidire CO = bidirectional							
9	VERSIONS: 8 = needle (screwdriv 9 = needle (manually	rer operated) operated)						
03	14 = 1.5	ube 3 4 5 3						
1/8	PORTS: M5 1/8 1/4							
6	Ø TUBE: 3 4 6 8 10							

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 CONTROL REGULATORS



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.

In the case of bidirectional regulators, refer to the graph and check whether the flow control range is suitable for the work required.

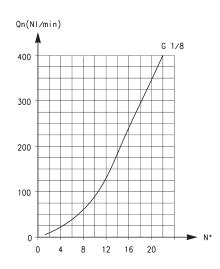
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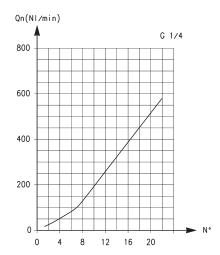
Flow Qn (Nl/min.) from  $2 \rightarrow 1$  with controller OPEN: 70 Flow Qn (Nl/min.) from  $2 \rightarrow 1$  with controller CLOSED: 33

N° = number of screw turns

NB: Qn is determined with a supply pressure of 6 bar and with  $\Delta P$  = 1 bar at the outlet.

# UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROL REGULATORS





G1/8
Flow Qn (Nl/min.) from 2 → 1 with controller OPEN: 440
Flow Qn (Nl/min.) from 2 → 1 with controller CLOSED: 170

N° = number of screw turns

NB: Qn is determined with a supply pressure of 6 bar and with  $\Delta P=1$  bar at the outlet.

G1/4

Flow Qn (Nl/min.) from 2 → 1 with controller OPEN: 790 Flow Qn (Nl/min.) from 2 → 1 with controller CLOSED: 460

N° = number of screw turns

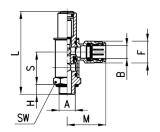
NB: Qn is determined with a supply pressure of 6 bar and with  $\Delta P$  = 1 bar at the outlet.

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# Valves Series GSCU



Unidirectional flow controller for mounting on single-acting or double-acting cylinders.
Screwdriver adjustment.
Ports: M5, G1/8, G1/4.



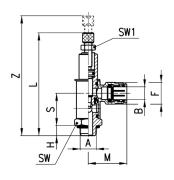
DIMENSIONS										
Mod.	Α	В	S	Н	L	М	F	SW		
GSCU 813-M5-3	M5	3	12	3	27,5	12,5	6,5	8		
GSCU 814-M5-4	M5	4	12	3	27,5	19	8,8	8		
GSCU 803-1/8-6	G1/8	6	22,5	5	50	26,5	13	14		
GSCU 804-1/8-8	G1/8	8	22,5	5	50	28	15	14		
GSCU 805-1/4-8	G1/4	8	27	7	67,5	28,5	15	19		
GSCU 806-1/4-10	G1/4	10	27	7	67,5	31	17,5	19		



# Valves Series GMCU



Unidirectional flow controller for mounting on single-acting or double-acting cylinders. Knurled screw adjustment. Ports: M5, G1/8, G1/4.



DIMENSIONS										
Mod.	Α	В	S	Н	L	Z	М	F	SW	SW1
GMCU 913-M5-3	M5	3	12	3	37	42,5	12,5	6,5	8	5,5
GMCU 914-M5-4	M5	4	12	3	37	42,5	19	8,8	8	5,5
GMCU 903-1/8-6	G1/8	6	22,5	5	65,5	72,5	26,5	13	14	7
GMCU 904-1/8-8	G1/8	8	22,5	5	65,5	72,5	28	15	14	7
GMCU 905-1/4-8	G1/4	8	27	7	85	97,5	28,5	15	19	10
GMCU 906-1/4-10	G1/4	10	27	7	85	97,5	31	17,5	19	10



# Valves Series GSVU



Unidirectional flow controller for mounting on valves.

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

		8	
=/_	Ā		
SW	M		

DIMENSIONS									
Mod.	Α	В	S	Н	L	М	F	SW	
GSVU 813-M5-3	M5	3	12	3	27,5	12,5	6,5	8	
GSVU 814-M5-4	M5	4	12	3	27,5	19	8,8	8	
GSVU 803-1/8-6	G1/8	6	22,5	5	50	26,5	13	14	
GSVU 804-1/8-8	G1/8	8	22,5	5	50	28	15	14	
GSVU 805-1/4-8	G1/4	8	27	7	67,5	28,5	15	19	
GSVU 806-1/4-10	G1/4	10	27	7	67,5	31	17,5	19	



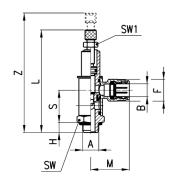


## Valves Series GMVU



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

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



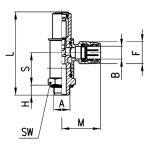
DIMENSIONS										
Mod.	Α	В	S	Н	L	Z	М	F	SW	SW1
GMVU 913-M5-3	M5	3	12	3	37	42,5	12,5	6,5	8	5,5
GMVU 914-M5-4	M5	4	12	3	37	42,5	19	8,8	8	5,5
GMVU 903-1/8-6	G1/8	6	22,5	5	50	72,5	26	13	14	7
GMVU 904-1/8-8	G1/8	8	22,5	5	50	72,5	28	15	14	7
GMVU 905-1/4-8	G1/4	8	27	7	67,5	97,5	29	15	19	10
GMVU 906-1/4-10	G1/4	10	27	7	67,5	97,5	31	17,5	19	10



## Valves Series GSCO



Bidirectional flow controller. Screwdriver adjustment. Ports: M5, G1/8, G1/4.



DIMENSIONS								
Mod.	Α	В	S	Н	L	М	F	SW
GSCO 813-M5-3	M5	3	12	3	27,5	12,5	6,5	8
GSCO 814-M5-4	M5	4	12	3	27,5	19	8,8	8
GSCO 803-1/8-6	G1/8	6	22,5	5	50	26,5	13	14
GSCO 804-1/8-8	G1/8	8	22,5	5	50	28	15	14
GSCO 805-1/4-8	G1/4	8	27	7	67,5	28,5	15	19
GSCO 806-1/4-10	G1/4	10	27	7	67,5	31	17,5	19



# Valves Series GMCO



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

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

