

Series TMCU, TMVU, TMCO flow control valves

Unidirectional and bidirectional banjo flow controllers with nominal diameter 2 - 3.8 - 5.8 - 8 mm

Ports: G1/8, G1/4, G3/8, G1/2



Series TMCU, TMVU, TMCO unidirectional and bidirectional flow controllers have been revised in order to decrease their dimensions and improve their flow rate characteristics. Their construction allows for easy assembly to cylinders and valves and allows the regulation adjustment to be precise and gradual.

GENERAL DATA

Construction needle - type

Valve group unidirectional and bidirectional controller

Materials brass - technopolymer - NBR
Mounting by male threaded

Threaded ports G1/8 - G1/4 - G3/8 - G1/2

Installation in any position

Operating temperature 0°C ÷ 60°C (with dry air -20°C)

Operating pressure 0,5 ÷ 10 bar Nominal pressure 6 bar Nominal flow see graph

Nominal dia. Tube 4 Ø2 - Tube 6 Ø3,8 - Tube 8 Ø5,8 - Tube 10 and 12 Ø8

Fluid filtered ai

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



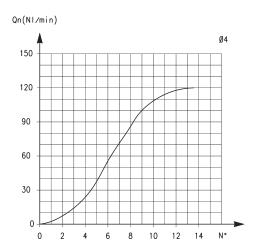
CODING EXAMPLE

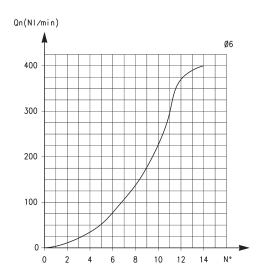
TM	CU		9	74	-	1/8	-	6
TM	ACTUATION: TM = manual							
CU	ASSEMBLY: CU = on cylinders un VU = on valves unidi CO = bidirectional							
9	VERSIONS: 9 = manual needle							
74	REGULATION: step - 72 = 2 74 = 3.8 76 = 5.8 78 = 8	ø tube 4 6 8 10						
1/8	PORTS: 1/8 1/4 3/8 1/2							
6	Ø TUBE: 4 6 8 10							

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.

SERIES TMCU, TMVU, TMCO VALVES

UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROL REGULATORS

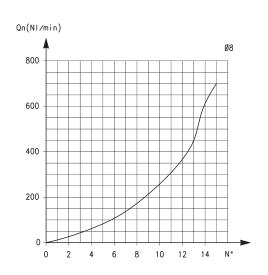


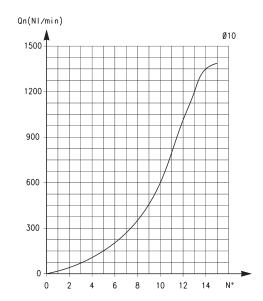


TUBE Ø4 Flow Qn (NI/min.) from $2 \rightarrow 1$ with controller OPEN: 400 Flow Qn (NI/min.) from $2 \rightarrow 1$ with controller CLOSED: 280 Qn is determined with a supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet N° = number of screw turns.

TUBE Ø6 Flow Qn (Nl/min.) from 2 \rightarrow 1 with controller OPEN: 550 Flow Qn (Nl/min.) from 2 \rightarrow 1 with controller CLOSED: 280 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 CONTROL REGULATORS





TUBE Ø8
Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 890
Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 460
Qn is determined with a supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet
N° = number of screw turns.

TUBE Ø10 Flow Qn (Nl/min.) from 2 \rightarrow 1 with controller OPEN: Ø 10-1200/Ø12-1250 Flow Qn (Nl/min.) from 2 \rightarrow 1 with controller CLOSED: Ø 10-600/Ø12-600 Qn is determined with a supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet N° = number of screw turns.

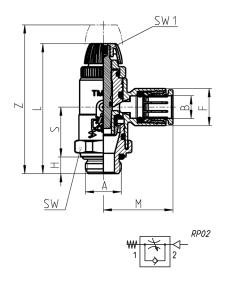
€ CAMOZZI

Series TMCU valves



Unidirectional flow controller for mounting on single-acting or double-acting cylinders. Adjustment of setting by a hexagonal male key or a manually operated knurled screw. Ports: G1/8, G1/4, G3/8, G1/2

DIMENSIONS										
Mod.	Α	В	F	Н	L	М	S	SW	SW1	Z
TMCU 972-1/8-4	G1/8	4	11,5	5	43	21,5	16,5	16	1,5	50
TMCU 974-1/8-6	G1/8	6	11,5	5	43	21,5	16,5	16	1,5	50
TMCU 974-1/4-6	G1/4	6	11,5	6	44	21,5	16,5	17	1,5	51
TMCU 976-1/8-8	G1/8	8	13,5	5	47	25	17,5	19	2,5	54
TMCU 976-1/4-8	G1/4	8	13,5	6	48,5	25	18	19	2,5	55,5
TMCU 976-3/8-8	G3/8	8	13,5	7	49,5	25	18	20	2,5	56,5
TMCU 978-3/8-10	G3/8	10	16	7	51	29	17	25	2,5	59,5
TMCU 978-1/2-10	G1/2	10	16	8	52	29	17	25	2,5	60,5



Series TMVU valves

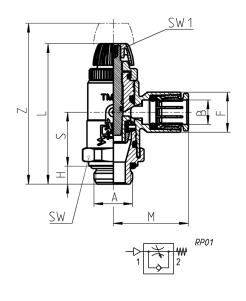


Unidirectional flow controller for mounting on

Adjustment of setting by a hexagonal male key or a manually operated knurled screw.

Ports: G1/8, G1/4, G3/8, G1/2

DIMENSIONS										
Mod.	Α	В	F	Н	L	М	S	SW	SW1	Z
TMVU 972-1/8-4	G1/8	4	11,5	5	43	21,5	16,5	16	1,5	50
TMVU 974-1/8-6	G1/8	6	11,5	5	43	21,5	16,5	16	1,5	50
TMVU 974-1/4-6	G1/4	6	11,5	6	44	21,5	16,5	17	1,5	51
TMVU 976-1/8-8	G1/8	8	13,5	5	47	25	17,5	19	2,5	54
TMVU 976-1/4-8	G1/4	8	13,5	6	48,5	25	18	19	2,5	55,5
TMVU 976-3/8-8	G3/8	8	13,5	7	49,5	25	18	20	2,5	56,5
TMVU 978-3/8-10	G3/8	10	16	7	51	29	17	25	2,5	59,5
TMVU 978-1/2-10	G1/2	10	18	8	52	29	17	25	2,5	60,5



Series TMCO valves



Bidirectional flow controller. Adjustment of setting by a hexagonal male key or a manually operated knurled screw. Ports: G1/8, G1/4, G3/8, G1/2

DIMENSIONS										
Mod.	Α	В	F	Н	L	M	S	SW	SW1	Z
TMCO 972-1/8-4	G1/8	4	11,5	5	43	21,5	16,5	16	1,5	50
TMCO 974-1/8-6	G1/8	6	11,5	5	43	21,5	16,5	16	1,5	50
TMCO 974-1/4-6	G1/4	6	11,5	6	44	21,5	16,5	17	1,5	51
TMCO 976-1/8-8	G1/8	8	13,5	5	47	25	17,5	19	2,5	54
TMCO 976-1/4-8	G1/4	8	13,5	6	48,5	25	18	19	2,5	55,5
TMCO 976-3/8-8	G3/8	8	13,5	7	49,5	25	18	20	2,5	56,5
TMCO 978-3/8-10	G3/8	10	16	7	51	29	17	25	2,5	59,5
TMCO 978-1/2-10	G1/2	10	16	8	52	29	17	25	2,5	60,5

