# Valves Series TMCU - TMVU - TMCO



Unidirectional and bidirectional flow control valves G1/8, G1/4, G3/8, G1/2

Banjo flow controllers nominal diameters ø 2 - 3,8 - 5,8 - 8 mm.



The unidirectional and bidirectional flow controllers, series TMCU, TMVU, TMCO 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 OT58 - 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 pressure0,5 ÷ 10 barNominal pressure6 barNominal flowsee 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.

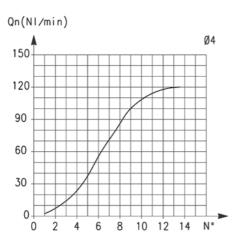
#### **CODING EXAMPLE** 74 1/8 CU 9 6 TM ACTUATION: TM = manual TM ASSEMBLY: CU = on cylinders unidirectional VU = on valves unidirectional CO = bidirectional CU VERSIONS: 9 = manual needle 9 REGULATION: 74 ø tube step 72 = 74 = 76 = 78 = 2 3.8 5.8 4 6 8 10 PORTS: 1/8 1/8 1/4 3/8 1/2 Ø TUBE: 6 8 10

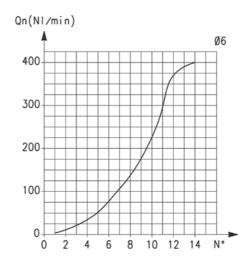
To ensure the right choice of unidirectional flow controller, proceed as follows: calculate the quantity of air in NI/min (see cylinder Table); determine the stroke time of the cylinder; refer to graph to see which controller is the right type.

CAMOZZI

#### UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROLS

New



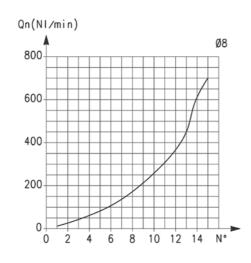


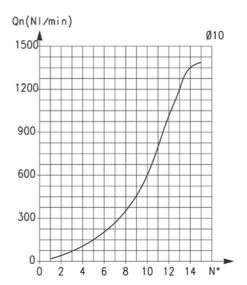
TUBE Ø4 Flow Qn (Nl/min.) from 2  $\rightarrow$  1 with controller OPEN: 400 Flow Qn (Nl/min.) from 2  $\rightarrow$  1 with controller CLOSED: 280 Qn is determined with a supply pressure of 6 bar and with  $\Delta P$  = 1 bar at the outlet N° = number of screw turns.

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 CONTROLS

New





TUBE Ø8 Flow Qn (NI/min.) from 2  $\rightarrow$  1 with controller OPEN: 890 Flow Qn (NI/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 (NI/min.) from 2  $\rightarrow$  1 with controller OPEN: Ø 10-1200/Ø12-1250 Flow Qn (NI/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  $\Delta P = 1$ 

N° = number of screw turns.

bar at the outlet

New

### Valves Series TMCU

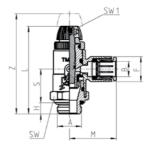
Unidirectional flow controller for mounting on singleacting or double-acting cylinders.

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	M	S	SW	SW1	Z
TMCU 972-1/8-4	G1/8	4	11,5	5	41	21,5	16,5	16	1,5	48
TMCU 974-1/8-6	G1/8	6	11,5	5	41	21,5	16,5	16	1,5	48
TMCU 974-1/4-6	G1/4	6	11,5	6	42	21,5	16,5	17	1,5	49
TMCU 976-1/8-8	G1/8	8	13,5	5	45	25	17,5	19	2,5	52
TMCU 976-1/4-8	G1/4	8	13,5	6	46,5	25	18	19	2,5	53,5
TMCU 976-3/8-8	G3/8	8	13,5	7	47,5	25	18	20	2,5	54,5
TMCU 978-3/8-10	G3/8	10	16	7	49	29	17	25	2,5	57,5
TMCU 978-1/2-10	G1/2	10	16	8	50	29	17	25	2,5	58,5

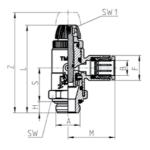


# Valves Series TMVU

Unidirectional flow controller for mounting on valves. 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	41	21,5	16,5	16	1,5	48
TMVU 974-1/8-6	G1/8	6	11,5	5	41	21,5	16,5	16	1,5	48
TMVU 974-1/4-6	G1/4	6	11,5	6	42	21,5	16,5	17	1,5	49
TMVU 976-1/8-8	G1/8	8	13,5	5	45	25	17,5	19	2,5	52
TMVU 976-1/4-8	G1/4	8	13,5	6	46,5	25	18	19	2,5	53,5
TMVU 976-3/8-8	G3/8	8	13,5	7	47,5	25	18	20	2,5	54,5
TMVU 978-3/8-10	G3/8	10	16	7	49	29	17	25	2,5	57,5
TM/// 1 070 4/0 40	C4/2	40	40	_	FO	20	47	25	2.5	EO E

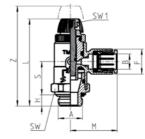
# Valves Series TMCO

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	М	S	SW	SW1	Z
TMCO 972-1/8-4	G1/8	4	11,5	5	41	21,5	16,5	16	1,5	48
TMCO 974-1/8-6	G1/8	6	11,5	5	41	21,5	16,5	16	1,5	48
TMCO 974-1/4-6	G1/4	6	11,5	6	42	21,5	16,5	17	1,5	49
TMCO 976-1/8-8	G1/8	8	13,5	5	45	25	17,5	19	2,5	52
TMCO 976-1/4-8	G1/4	8	13,5	6	46,5	25	18	19	2,5	53,5
TMCO 976-3/8-8	G3/8	8	13,5	7	47,5	25	18	20	2,5	54,5
TMCO 978-3/8-10	G3/8	10	16	7	49	29	17	25	2,5	57,5
TMCO 978-1/2-10	G1/2	10	16	8	50	29	17	25	2,5	58,5





New

New