2

Series TMCU, TMVU, TMCO flow control valves

Unidirectional and bidirectional flow control valves Banjo flow controllers nominal diameters ø 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 air

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

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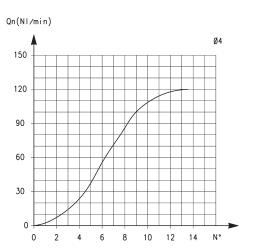
CONTROL

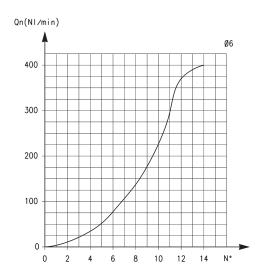
CODI	ING EXAMPLE						
ТМ	CU	9	74	_	1/8	-	6
TM	ACTUATION: TM = manual						
CU	ASSEMBLY: CU = on cylinders unidirection VU = on valves unidirection CO = bidirectional	ctional onal					
9	VERSIONS: 9 = manual needle						
74	REGULATION: step - 6 72 = 2 74 = 3.8 76 = 5.8 78 = 8	va tube 4 6 8 10					
1/8	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 NI/min (see cylinder Table); determine the stroke time of the cylinder; refer to graph to see which controller is the right type.

2

UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROL REGULATORS





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 ΔP = 1 bar at the outlet

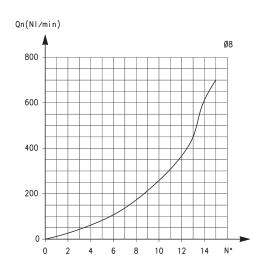
N° = number of screw turns.

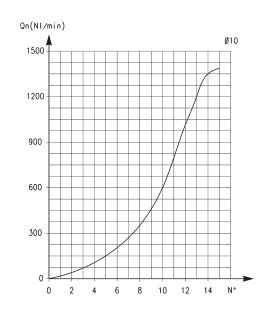
TUBE Ø6

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 ΔP = 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 ΔP = 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 (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 ΔP = 1 bar at the outlet

 N° = number of screw turns.

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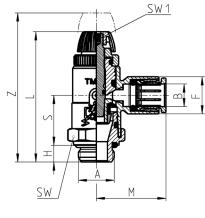


Series TMCU valves

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



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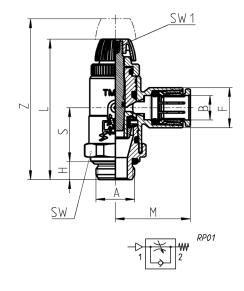
DIMENSIONS										
Mod.	Α	В	F	Н	L	М	S	SW	SW1	Z
TMCU 972-1/8-4	G1/8	4	11,5	5	43	21,5	16,5	16	1,5	50
TMCU 974-1/8-6	G1/8	6	11,5	5	43	21,5	16,5	16	1,5	50
TMCU 974-1/4-6	G1/4	6	11,5	6	44	21,5	16,5	17	1,5	51
TMCU 976-1/8-8	G1/8	8	13,5	5	47	25	17,5	19	2,5	54
TMCU 976-1/4-8	G1/4	8	13,5	6	48,5	25	18	19	2,5	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

TMVU

Series TMVU valves

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



В	F	Н	L	M	S	SW	SW1	Z
4	11,5	5	43	21,5	16,5	16	1,5	50
6	11,5	5	43	21,5	16,5	16	1,5	50
6	11,5	6	44	21,5	16,5	17	1,5	51
8	13,5	5	47	25	17,5	19	2,5	54
8	13,5	6	48,5	25	18	19	2,5	55,5
8	13,5	7	49,5	25	18	20	2,5	56,5
10	16	7	51	29	17	25	2,5	59,5
10	18	8	52	29	17	25	2,5	60,5
	4 6 4 6 8 8 8 8 8	3 4 11,5 3 6 11,5 4 6 11,5 3 8 13,5 4 8 13,5 5 8 13,5 6 10 16	6 4 11,5 5 6 11,5 5 6 11,5 6 8 13,5 5 8 13,5 6 8 13,5 7 8 10 16 7	3 4 11,5 5 43 4 6 11,5 5 43 5 6 11,5 6 44 6 13,5 5 47 8 13,5 6 48,5 8 13,5 7 49,5 8 10 16 7 51	3 4 11,5 5 43 21,5 4 6 11,5 5 43 21,5 4 6 11,5 6 44 21,5 8 13,5 5 47 25 8 13,5 6 48,5 25 8 13,5 7 49,5 25 8 10 16 7 51 29	3 4 11,5 5 43 21,5 16,5 4 6 11,5 5 43 21,5 16,5 6 11,5 6 44 21,5 16,5 8 13,5 5 47 25 17,5 8 13,5 6 48,5 25 18 8 13,5 7 49,5 25 18 8 10 16 7 51 29 17	6 4 11,5 5 43 21,5 16,5 16 6 11,5 5 43 21,5 16,5 16 6 11,5 6 44 21,5 16,5 17 8 13,5 5 47 25 17,5 19 8 13,5 6 48,5 25 18 19 8 13,5 7 49,5 25 18 20 8 10 16 7 51 29 17 25	3 4 11,5 5 43 21,5 16,5 16 1,5 4 11,5 5 43 21,5 16,5 16 1,5 6 11,5 6 44 21,5 16,5 17 1,5 8 13,5 5 47 25 17,5 19 2,5 8 13,5 6 48,5 25 18 19 2,5 8 13,5 7 49,5 25 18 20 2,5 8 10 16 7 51 29 17 25 2,5

TMCO ()

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

