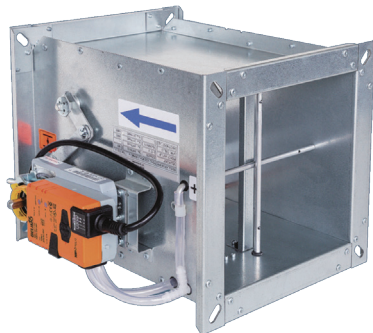


RPMCV

Rectangular variable value flow regulator



Product

RPMCV

Construction

Body and finish in galvanized steel
Thickness acc. EN 1751 Tightness Class C

Actuation

0-10 Volt signal.
Power supply 24 Volt

SPECIFICATION

Variable flow rate regulator.
Nominal size 200x100 ÷ 1000x1000.
Length L = 300 mm.
Air flow rate 90 ÷ 43000 m³/h.
Flow rate 50 ÷ 4500 m³/h.
Precision ± 8% for velocities up to 3 m/s and
± 5% for higher velocities

APPLICATIONS

Allows regulation of supply or exhaust
air flow in ventilation systems.
Possibility to manage regulation through
flow rate control, or pressure control in
a duct or room

WORKING CONDITIONS

Correct regulator operation is ensured
under the following conditions:

- maximum air flow velocity 12 m/s
- maximum duct pressure 1000 Pa

DIMENSIONAL

Dimensions mm	N mm	N ₁ mm	W mm	M mm	Dimensions mm	N mm	N ₁ mm	W mm	M mm
200x100	179	22	66	71	700x200	187	25	80	72
200x200	187	25	80	72	700x300	187	25	80	72
300x100	179	22	66	71	700x400	187	25	80	72
300x200	187	25	80	72	700x500	202	30	88	74
300x300	187	25	80	72	800x200	187	25	80	72
400x100	179	22	66	71	800x300	187	25	80	72
400x200	187	25	80	72	800x400	202	30	88	74
400x300	187	25	80	72	800x500	202	30	88	74
400x400	187	25	80	72	800x600	202	30	88	74
500x100	187	25	80	72	800x800	202	30	88	74
500x200	187	25	80	72	900x300	187	25	80	72
500x300	187	25	80	72	900x400	202	30	88	74
500x400	187	25	80	72	900x500	202	30	88	74
500x500	202	30	88	74	1000x300	187	25	80	72
600x100	187	25	80	72	1000x400	202	30	88	74
600x200	187	25	80	72	1000x500	202	30	88	74
600x300	187	25	80	72	1000x600	202	30	88	74
600x400	187	25	80	72	1000x800	202	30	88	74
600x500	202	30	88	74	1000x1000	202	30	88	74
600x600	202	30	88	74					

Values valid for Belimo actuators



Diffusion

Components
for perfect air
distribution in HVAC
systems

PERFORMANCE DATA

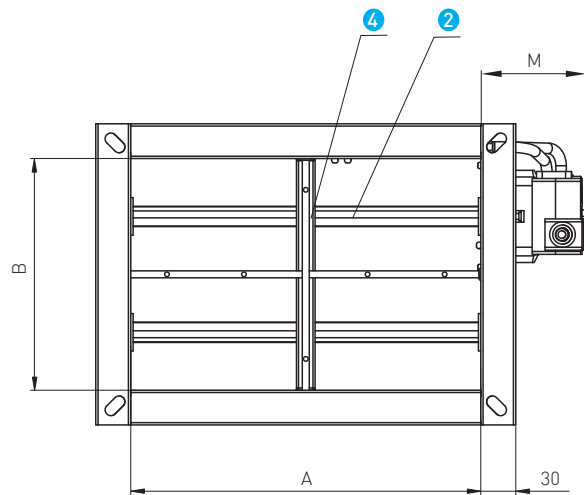
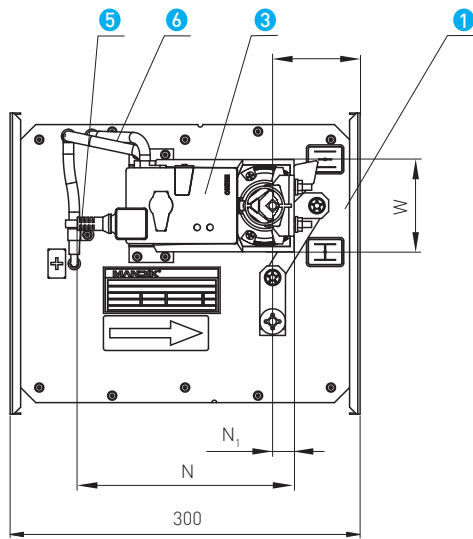
Dimensions mm	Air Flow Rate					
	Minimum (w ≈ 1m/s)	Standard values Maximum (w ≈ 7m/s)	V _{nom}	Minimum (w ≈ 1m/s)	Maximum values Maximum (w ≈ 12m/s)	V _{nom}
200x100	70	500	500	70	900	900
200x200	145	1000	1000	145	1800	1800
300x100	110	750	750	110	1300	1300
300x200	215	1500	1500	215	2600	2600
300x300	325	2300	2300	325	3900	3900
400x100	145	1000	1000	145	1800	1800
400x200	290	2000	2000	290	3500	3500
400x300	430	3100	3100	430	5200	5200
400x400	580	4100	4100	580	7000	7000
500x100	180	1250	1250	180	2200	2200
500x200	360	2500	2500	360	4400	4400
500x300	540	3800	3800	540	6500	6500
500x400	720	5100	5100	720	8700	8700
500x500	900	6400	6400	900	11000	11000
600x100	215	1500	1500	215	2600	2600
600x200	430	3100	3100	430	5200	5200
600x300	650	4600	4600	650	7800	7800
600x400	865	6200	6200	865	10500	10500
600x500	1080	7700	7700	1080	13000	13000
600x600	1300	9200	9200	1300	16000	16000
700x200	500	3600	3600	500	6000	6000
700x300	800	5400	5400	800	9000	9000
700x400	1000	7200	7200	1000	12000	12000
700x500	1250	9000	9000	1250	15000	15000
800x200	580	4100	4100	580	7000	7000
800x300	870	6200	6200	870	10500	10500
800x400	1150	8200	8200	1150	14000	14000
800x500	1450	10500	10500	1450	17500	17500
800x600	1730	12500	12500	1730	21000	21000
800x800	2300	16500	16500	2300	28000	28000
900x300	980	6900	6900	980	12000	12000
900x400	1300	9200	9200	1300	16000	16000
900x500	1620	12000	12000	1620	20000	20000

FLOW RATE REGULATORS

RPMCV

Rectangular variable value flow regulator

Dimensions mm	Air Flow Rate					
	Minimum ($w \approx 1\text{m/s}$)	Standard values Maximum ($w \approx 7\text{m/s}$)	V_{nom}	Minimum ($w \approx 1\text{m/s}$)	Maximum values Maximum ($w \approx 12\text{m/s}$)	V_{nom}
1000x300	1080	7700	7700	1080	13000	13000
1000x400	1440	10500	10500	1440	17500	17500
1000x500	1800	13000	13000	1800	22000	22000
1000x600	2160	15500	15500	2160	26000	26000
1000x800	2880	21000	21000	2880	35000	35000
1000x1000	3600	26000	26000	3600	43000	43000



1. Regulator body
2. Blade
3. Compact controller
4. Pressure sensors
5. Pressure sampling p_1
6. Pressure sampling p_2

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