



Handbook

RK & RKT

Control Damper



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Description

RK is a control damper. The product is mainly intended for airflow adjustment and can be used as a shut-off damper in case of lower tightness requirements. The product is installed into rectangular ducts. The maximum recommended duct pressure is 1000 Pa. The field of application is offices, hotel rooms or meeting rooms, health care premises, residential, etc., where the required ventilation, cooling or heating load will vary on demand.

Types of Product

- **RK** - Control damper with blade tightness class 1 (according to EN 1751)
- **RKT** - Control damper with blade tightness class 2 (according to EN 1751)

Types of Activation

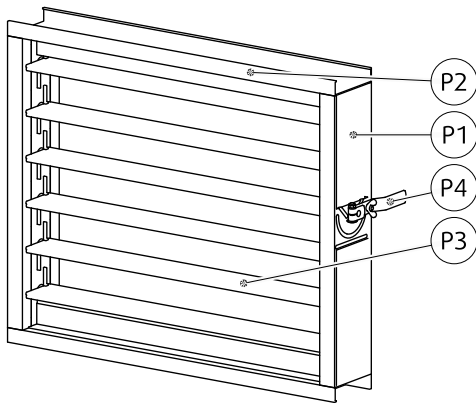
- **R** - Handle for manual adjustment
- **S** - Preparation for actuator

Design

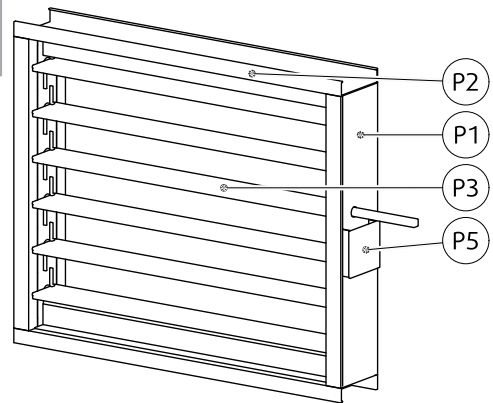
RK is manufactured from aluminium profiles. The product consists of a frame and blades. The frame has 25 mm wide flanges aligned with the blades and 30 mm wide flanges perpendicular to the blades. For RKT blades are equipped with rubber gaskets. The gaskets are intended to eliminate leakage in the closed position. The blade axes are in self-lubricating bearings. The bearings are connected by a cog/rod gearing, depending on the size of the product.

Product Parts

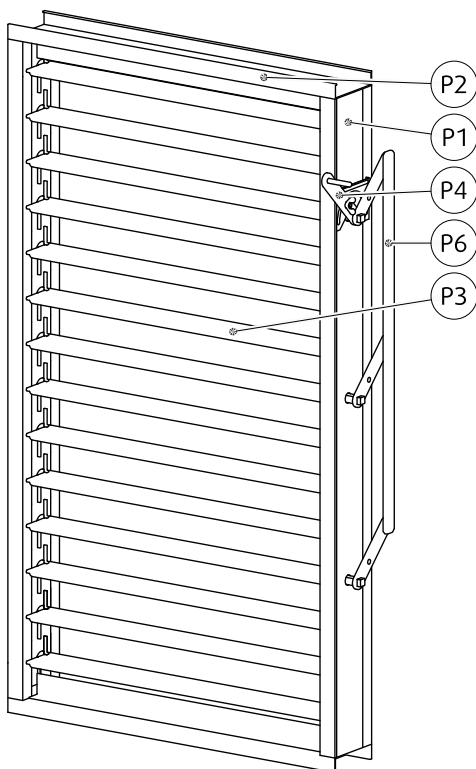
RK...R
RKT...R
H ≤ 1000



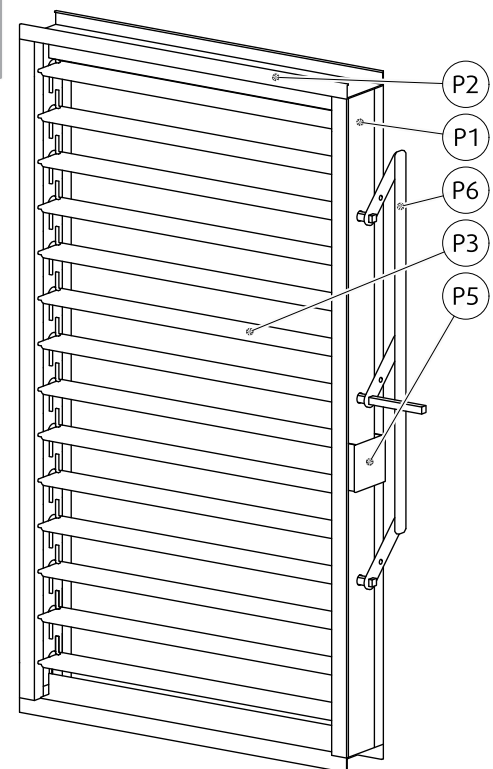
RK...S
RKT...S
H ≤ 1000



RK...R
RKT...R
H > 1000



RK...S
RKT...S
H > 1000



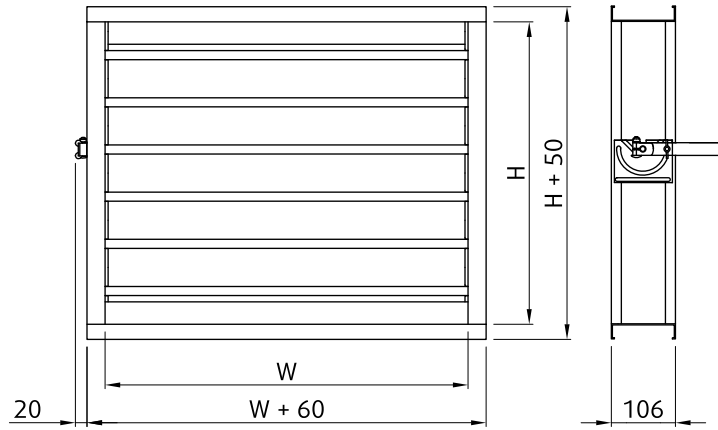
Legend:

- P1** Casing
- P2** Flange
- P3** Damper blade
- P4** Manual mechanism
- P5** Actuator mounting platform
- P6** Blade actuation linkage

Dimensions & Weights

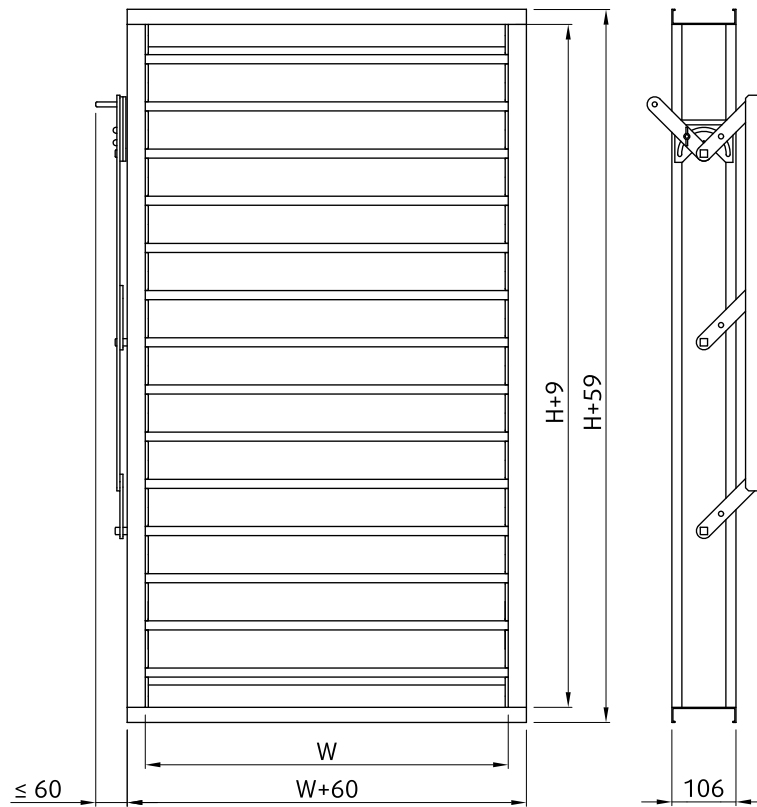
RK...R
RKT...R
 $H \leq 1000$

(mm)



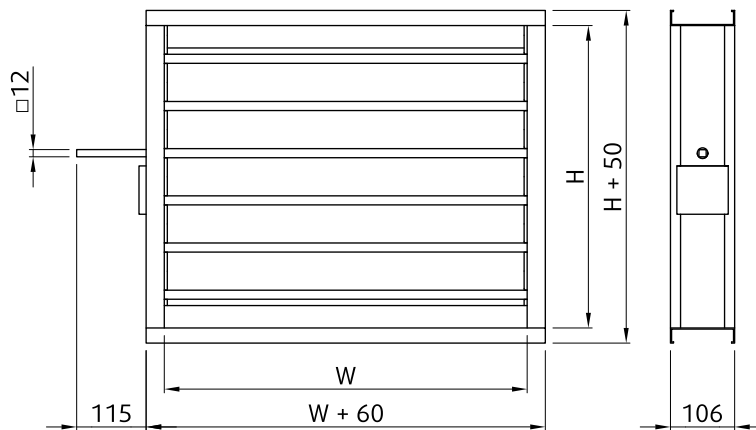
RK...R
RKT...R
 $H > 1000$

(mm)



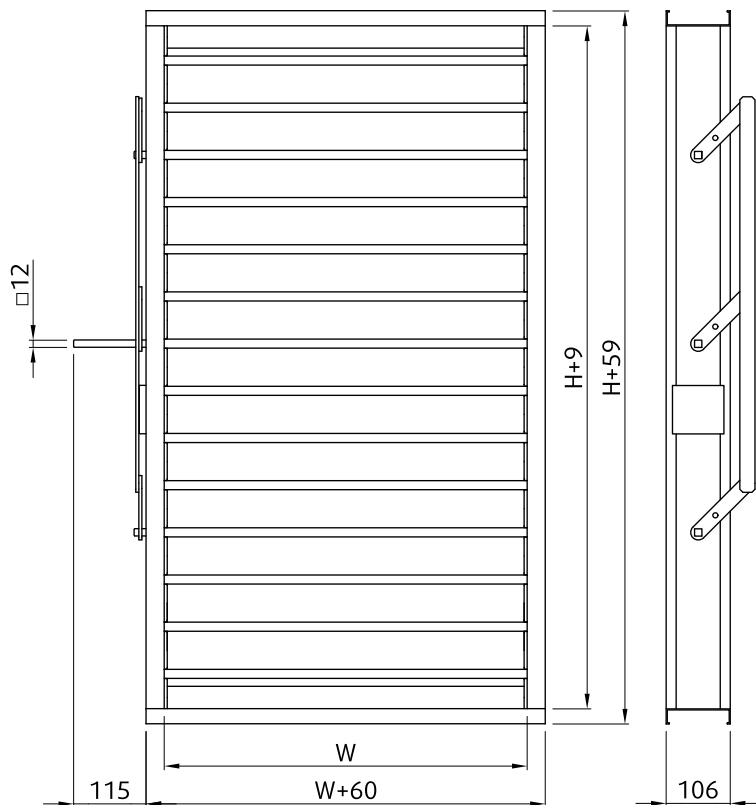
RK...S
RKT...S
 $H \leq 1000$

(mm)



RK...S
RKT...S
 $H > 1000$

(mm)



H (mm)	W (mm)																				
	200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000	1120	1250	1400	1600	1800	2000
200	1,9	2,0	2,6	2,4	2,3	2,4	3,2	3,4	3,0	4,2	3,5	4,9	5,6	4,2	4,8	5,4	6,0	6,5	7,2	8,0	8,8
225	2,0	2,1	2,2	2,3	2,4	2,6	2,7	2,9	3,1	3,2	3,6	3,9	4,3	4,3	5,0	5,6	6,5	7,0	8,0	8,9	9,7
250	2,1	2,3	2,5	2,6	2,7	2,9	3,1	3,7	6,1	4,6	4,9	4,5	6,2	6,5	7,4	6,1	7,8	8,4	9,0	9,8	10,8
280	2,2	2,5	2,6	2,7	2,9	3,3	3,7	3,9	4,3	4,8	5,1	5,7	6,5	6,8	7,8	7,5	8,0	9,0	9,6	10,6	11,8
315	2,5	2,6	2,7	2,9	3,1	3,2	3,5	3,7	3,9	5,1	4,5	4,9	6,9	5,8	6,3	7,8	8,4	9,6	10,2	11,6	12,9
355	2,4	3,0	2,9	3,1	3,5	3,7	3,9	4,4	4,5	5,4	5,2	5,6	7,3	8,0	8,7	8,9	9,7	10,5	11,8	13,0	14,2
400	3,2	3,3	3,1	3,7	3,5	3,9	4,4	4,7	5,0	5,7	6,1	6,3	6,9	8,5	9,3	10,1	11,0	11,9	13,2	14,0	15,4
450	3,4	3,5	3,4	3,9	3,7	4,2	4,7	5,0	5,5	6,1	6,5	6,8	8,3	9,1	9,9	10,6	11,5	12,5	13,8	15,1	16,7
500	3,8	3,9	4,1	4,3	4,6	4,9	5,2	5,3	5,9	6,5	6,8	7,4	8,8	8,7	10,5	11,9	12,8	13,9	15,4	16,8	18,3
560	4,2	4,4	4,6	4,8	5,1	5,4	5,7	6,1	6,3	7,0	7,4	8,2	9,5	10,4	11,3	13,2	14,3	15,5	17,1	18,8	20,4
630	4,5	4,7	4,9	5,1	5,4	5,7	6,1	6,5	6,9	7,4	8,0	8,9	9,4	10,2	11,0	13,9	15,0	16,2	17,9	19,6	21,3
710	4,9	5,2	5,4	5,7	6,0	6,0	6,8	7,2	5,9	8,2	8,9	9,6	11,0	12,1	12,2	15,4	16,6	18,0	19,9	21,8	23,6
800	5,6	5,9	6,2	6,5	6,9	7,3	7,8	8,3	8,8	9,5	10,2	11,0	12,0	13,1	14,3	17,9	19,3	20,9	23,1	25,3	27,5
900	6,0	6,5	6,8	7,1	7,5	8,0	8,5	9,1	9,7	10,4	11,2	12,1	13,2	14,3	15,6	19,6	21,2	22,9	25,3	27,7	30,1
1000	6,5	7,1	7,4	7,8	8,2	8,7	9,3	9,9	10,5	11,3	12,2	13,2	14,3	15,6	16,8	21,3	23,0	24,9	25,8	30,1	32,7
1120	6,8	7,8	8,1	9,9	10,4	11	11,6	12,3	13,0	13,9	14,9	16,0	17,3	18,7	20,1	25,4	27,3	29,5	32,4	35,3	38,2
1250	7,1	8,5	9,0	11,0	11,5	12,1	12,8	13,6	14,4	15,3	16,4	17,7	19,1	20,7	22,3	28,2	30,3	32,8	36,0	39,2	42,5
1400	7,5	9,2	9,9	12,5	12,7	13,4	14,1	15,0	15,8	16,8	18,0	19,4	20,9	22,7	24,3	30,7	30,3	35,6	39,1	42,6	46,0
1600	7,9	9,9	11	14,9	15,0	15,3	15,9	16,9	17,9	19,0	20,4	21,9	23,7	25,6	27,6	34,9	33,0	40,5	44,5	48,5	52,5
1800	8,1	10,5	12,1	18,1	18,3	18,6	18,9	19,1	20,2	21,5	23,1	24,8	26,8	29,0	31,1	39,5	37,5	45,8	50,3	54,8	59,3
2000	8,5	11,1	13	20,4	20,6	20,9	21,3	21,6	21,9	23,4	25,0	26,9	29,1	31,4	33,8	42,9	42,4	49,8	54,7	59,6	64,5

Ordering Codes

Product type

RK - Control damper with blade tightness class 1 (according to EN 1751)

RKT - Control damper with blade tightness class 2 (according to EN 1751)

Nominal dimensions

WxH Width x Height

Positioning

R Handle for manual adjustment

S Preparation for actuator

NOTE: For positioning version "S" the actuator is not part of the delivery

Example of the Ordering Code

RKT-600x300-S

Control damper with blade tightness class 2, nominal dimensions 600 x 300, with preparation for actuator.

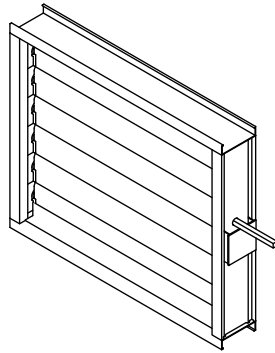
Technical Parameters

Diagrams and technical parameters are available at design.systemair.com (product RK & RKT).

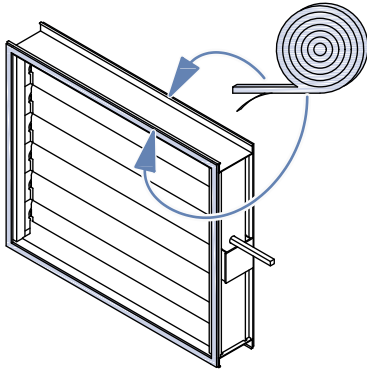
Installation



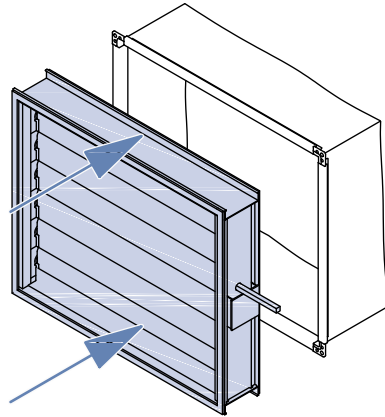
RK... , RKT...



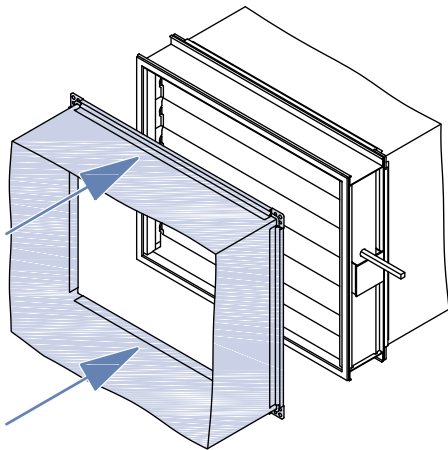
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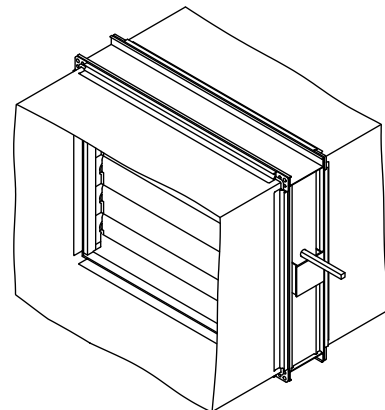
2.



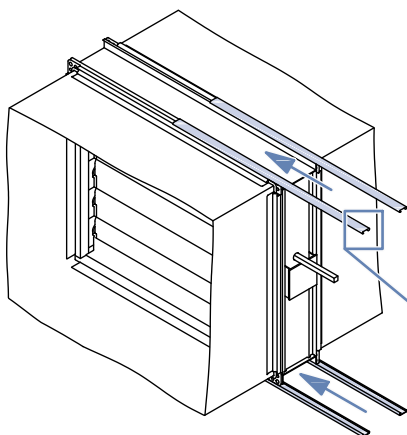
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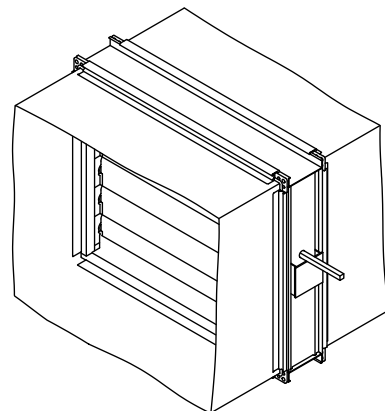
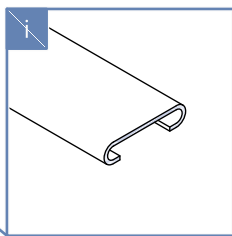
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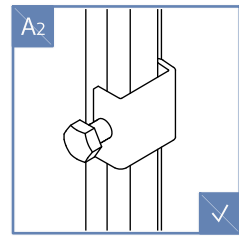
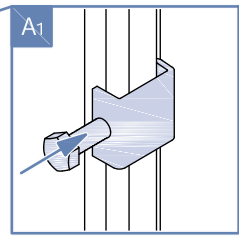
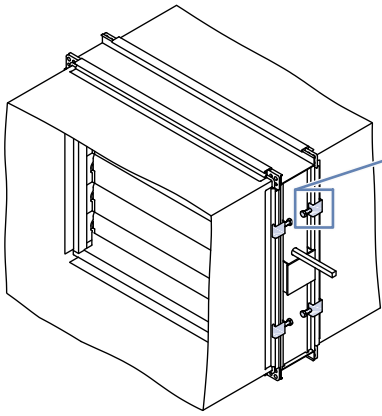
4a.



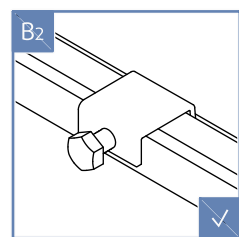
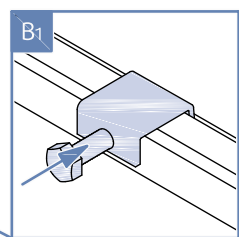
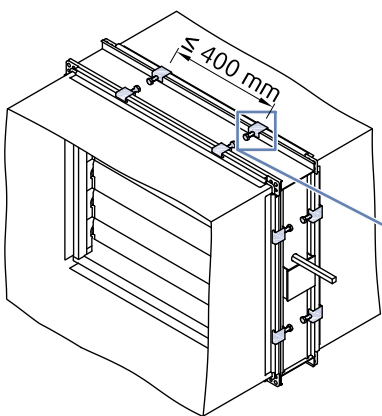
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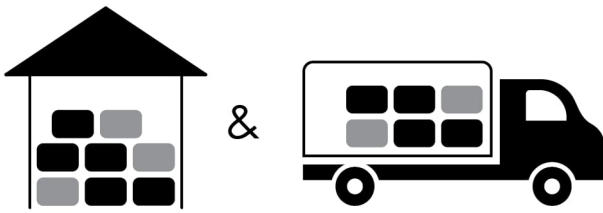
4b.





5.




Transport, Storage and Operation




 °C -40 °C ... +50 °C

 % ≤ 95%



 °C -20 °C ... +50 °C

 % ≤ 95%

Supplement

Any deviations from the technical specifications contained on our website and the terms should be discussed with the manufacturer. We reserve the right to make any changes to the product without prior notice, provided that these changes do not affect the quality of the product and the required parameters. Current information on all products is available on design.systemair.com.



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