

# RAER

Rectangular evacuation damper



FIRE SAFETY



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### Quick facts

- Sealing class 3
- Sizes from 200-200 mm to 1600-1600 mm
- Prefitted safety actuator 24V or 230V
- Galvanized sheet steel or Stainless steel
- Spigot or Flange connection
- Available in MagiCAD

### Use

Type approved evacuation dampers for evacuating smoke gas which is permitted to come into the duct system and then be exhausted via fire relief ducts. Also used as a bypass damper for air treatment plant.

### Type approval no. 0096

### Size

200 x 200 mm to 1600 x 1600 mm.

### Design

The evacuation damper is supplied ready for insulation, complete with an installed, maintenance free 24 V electric actuator (unless otherwise specified), which has built in signal contacts to indicate damper position. Spigot or flange connection.

### Material and surface finish

The housing and components are made of hot galvanized sheet steel, to environmental class C3. For higher environmental classes, alternative materials can be offered.

### Actuator

The evacuation damper is supplied as standard with an electric 24V two-position safety actuator with spring return, energized open. The 24V actuator is always used in conjunction with the MRB monitoring system. The dampers can also be supplied with a 230V electrical actuator. Note that evacuation dampers are always supplied with an actuator so that type approval shall apply.

### General

All data refers to standard versions of dampers.



### Accessories

<b>BRAS</b>	Sleeve coupling for RAER
<b>RCKB</b>	Junction box
<b>RCDU</b>	MRB system, max 2 dampers
<b>RCBK4</b>	MRB system, max 4 dampers
<b>RCMU8</b>	MRB system, max 8 dampers
<b>RCKD/-RD</b>	Smoke detectors
<b>RCTU/RCTC</b>	MRB3 system, max 236 dampers
<b>FENIX2</b>	max 2 dampers
<b>FENIX4 / FENIX+</b>	max 16 dampers

### Specification

Example:  
**Evacuation damper RAER - 600 - 400 - 1 - 1 - 1**

*Size*  
 Width x Height (W x H), mm

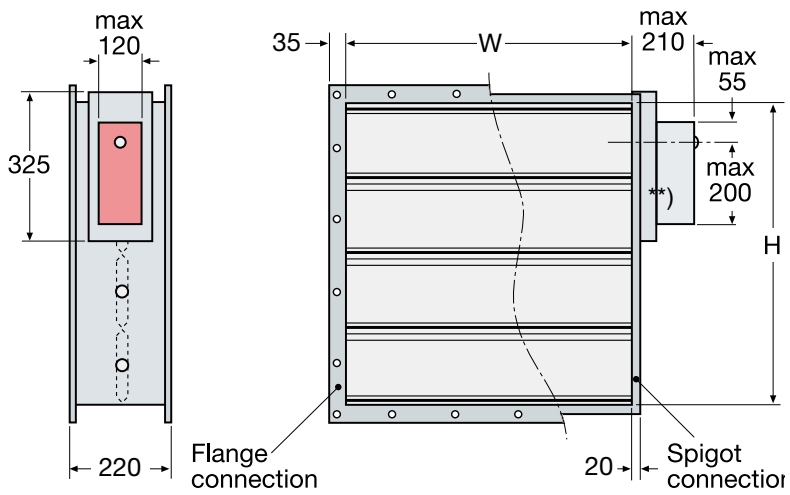
*Connection*  
 Spigot = 1  
 Flange = 2

*Material*  
 Galvanized sheet steel = 1  
 Stainless AISI 316L – EN 1.4404 = 3

*Actuator*  
 Electric, 24V = 1  
 Electric, 230V = 3



Dimensions and weight



Size W or H	C	No. of holes n	No. of blades
200	120	0	1
250	145	0	1
300	170	0	2
350	195	0	2
400	120	1	2
500	170	1	3
600	120	2	3
700	170	2	4
800	120	3	4
900	170	3	5
1000	120	4	5
1100	170	4	6
1200	120	5	6
1300	170	5	7
1400	120	6	7
1500	170	6	8
1600	120	7	8

\*) Spigot connection = 226

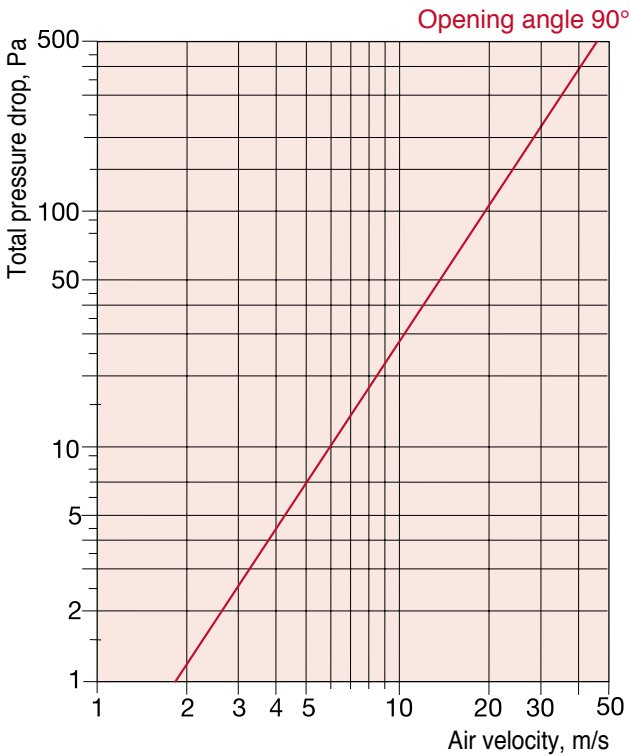
\*\*) At small damper sizes the actuator can be installed in line with the duct.

Weight including actuator, kg

H	W												
	200	250	300	350	400	500	600	700	800	1000	1200	1400	1600
200	10	11	12	13	13	14	16	17	18	21	23	26	28
250	11	12	12	13	13	15	16	17	18	21	24	26	29
300	11	12	13	14	14	15	16	18	19	21	24	27	29
350	13	14	15	16	16	18	19	21	22	25	28	31	35
400	13	14	15	16	16	18	19	21	22	25	28	31	35
500	14	15	15	17	17	18	20	21	23	26	29	32	35
600	16	16	17	19	19	21	23	25	26	30	34	37	41
700	16	17	18	20	20	22	24	25	27	31	34	38	42
800	18	19	20	22	22	24	27	29	31	35	39	43	47
1000	21	22	23	25	25	28	30	33	35	40	44	49	54
1200	23	25	26	29	29	31	34	36	39	44	50	55	60
1400	26	27	29	32	32	35	37	40	43	49	55	61	67
1600	28	30	32	35	35	37	41	44	48	54	60	67	73



### Dimensioning diagram



### Electrical data

(values in brackets refer to 230V)

Actuator type BF..

Dimensioning, max ..... 10 VA (12,5 VA)

Operation time;

- motor opening, max ..... ca 140 s

- spring return, max ..... ca 20 s

Encapsulation class ..... IP 54

Supply voltage ..... 24V~ ±20%, 50/60Hz

24V= ±10%

(220-240V~ , 50/60Hz)

Ambient temperature ..... -30° till +50°C

Safety temperature ..... -30° till +75°C

(24 hours guaranteed safety)

Trip temperature

for thermal sensor ..... 72°C

End position contacts

- load ≤ 300 mW ..... min 1 mA/5V=, max 100 mA/250V~

Applicable after exceeding the above values:

- load > 300 mW ..... min 100 mA, max 3 A/250~

Noise level when opening .. ca 45 dB(A)

Noise level when closing ... ca 62 dB(A)

### Wiring diagram

