

ERT-A 200T Galvanised steel shut-off regulation dampers 200 mm pitch.



Description

Regulation dampers with blade movement by means of gears located outside the air flow and special gaskets on the blades, capable of guaranteeing tightness class 4 according to the EN 1751 Standard.

Characteristics

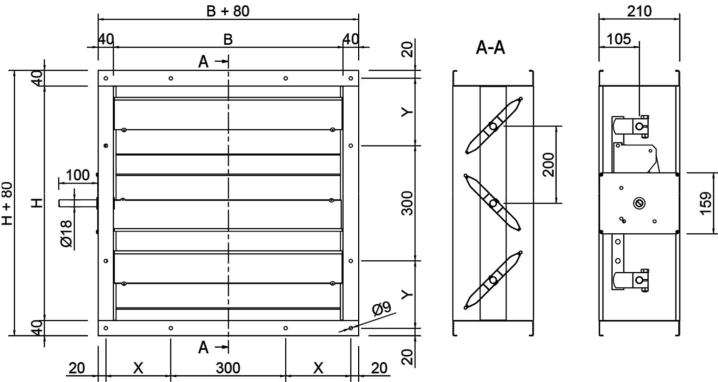
- Made from Z200 galvanised steel + natural aluminium;
- Riveted frame, front-welded, 1.5 mm thick, 210 mm deep;
- Frame sealed internally at the corners with silicone for a tight fit;
- 40 mm flange with Ø9 holes, 300 mm pitch, BM=20 mm;
- Fins in natural extruded aluminium alloy EN AW-6060 with silicone sealing gasket;
- Fin pitch 200 mm with opposing movement;
- Side sealing slats in raw 301 stainless steel;
- Bronze bushings;
- End pins Ø18 mm in galvanised steel;
- Fin movement via external galvanised linkages;
- Control pin Ø18, protruding L=100 mm;
- Control plate designed for manual and/or motorised operation (suitable for models with anti-rotation rod).
- Temperature: from -10°C to +180°C (Negative temperatures are achievable only provided that no ice forms); Pressure drop tests carried out in accordance with ISO 7244;
- Self-generated noise tests carried out in accordance with UNI EN 25135;
- Leakage test in accordance with DIN 1946/4;
- Leakage test in accordance with EN 1751;
- Sealing class 4C in accordance with EN 1751:2014 and class 4 ATC3 in accordance with EN 1751:2024;

On request

- With manual control C-ERTA;
- AISI 304 version;
- Electric servomotor.

Dimensional Characteristics

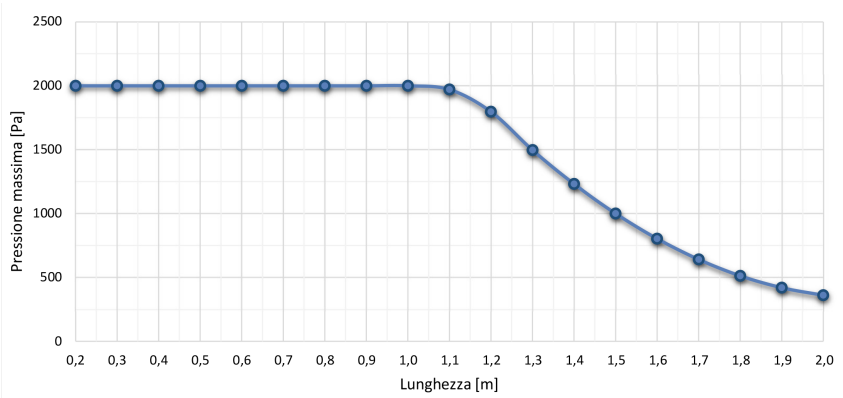
Base Holes			Height Holes		
L	Nr. Fori ø 8 mm	X	Nr. Fori ø 8 mm	L	X
200	/	/	210	/	/
300	/	/	410	1	225
400	4	220	610	1	325
500	4	270	810	2	275
600	4	320	1010	3	225
700	2	220	1210	3	325
800	2	270	1410	4	275
900	2	320	1610	5	225
1000	3	220	1810	5	325
1100	3	270	2010	6	275
1200	3	320			
1300	4	220			
1400	4	270			
1500	5	320			
1600	5	220			
1700	5	270			
1800	5	320			
1900	6	220			
2000	6	270			



Pressure Drop and Generated Noise

- V: crossing speed (m/s).
 - Δpt [Pa]: pressure drops in Pascal.
 - LwA [dB(A)]: noise level.
 - α: opening angle of the regulation damper, 0° the blades are fully open.
- * Please note that excessively high speeds can lead to excessive noise and pressure drop, particularly when the damper is partially closed.

Maximum allowable pressure graph:



Vk (m/s)	α 0°		α 30°		α 60°	
	Δpt [Pa]	LwA [dB(A)]	Δpt [Pa]	LwA [dB(A)]	Δpt [Pa]	LwA [dB(A)]
1	< 5	< 20	6	32	130	49
2	< 5	23	23	49	520	69
3	< 5	34	52	58	1185	16
4	< 5	42	94	66	1350	83
5*	< 5	48	145	71	> 1500*	87
6*	< 5	53	215	75	> 1500*	92

Rotation torque required to open and close the damper

* Shutter fitted with two control pins protruding from the same side

Height(mm)	Backing Material(mm)																		
	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
210	5	5	10	10	10	10	10	10	10	15	15	15	15	15	15	20	20	20	20
410	10	10	10	10	10	10	10	15	15	15	15	15	15	15	20	20	20	20	20
610	10	10	10	10	10	10	10	15	15	15	20	20	20	20	20	20	20	20	20
810	10	10	10	15	15	15	15	20	20	20	20	20	20	20	25	25	25	30	30
1010	10	10	15	15	15	15	20	20	20	20	20	25	25	25	25	30	30	30	30
1210	15	15	15	15	15	20	20	20	20	25	25	5	30	30	30	30	30	30	40*
1410	15	15	15	20	20	20	20	25	25	25	30	30	30	30	30	40*	40*	40*	40*
1610	15	20	20	20	20	20	25	25	25	30	30	30	40*	40*	40*	40*	40*	40*	50*
1810	20	20	20	20	20	25	25	25	30	30	30	30	40*	40*	40*	40*	50*	50*	50*
2010	20	20	20	20	20	25	25	30	30	30	40*	40*	40*	40*	50*	50*	50*	50*	50*

Servomotors Technical Characteristics

		Servomotor Without Spring Return		
		LM..A	NM..A	SM..A
Couple		5 Nm	10 Nm	20 Nm
Universal pin size (mm)		6-20	8-26	10-20
ON/OFF 3-Point	AC/DC 24 V	LM24A	NM24A	SM24A
	AC/DC 24 V With auxiliary contact	LM24A-S	NM24A-S	SM24A-S
	AC 230 V	LM230A	NM230A	SM230A
	AC 230 V With auxiliary contact	LM230A-S	NM230A-S	SM230A-S
Modulant - Comand 0...10V	AC/DC 24 V	LM24A-SR	NM24A-SR	SM24A-SR
	AC/DC 24 V With auxiliary contact			
	AC 230 V	LM230ASR	NM230ASR	SM230ASR

		Servomotor With Spring Return	
		NF	SF
Couple		10 Nm	20 Nm
Universal pin size (mm)		10-22	10-22
ON/OFF 3-Point	AC/DC 24 V	NF24A	SF24A
	AC/DC 24 V With auxiliary contact	NF24A-S2	SF24A-S2
	AC 230 V	NFA	SFA
	AC 230 V With auxiliary contact	NFA-S2	SFA-S2
Modulant - Comand 0...10V	AC/DC 24 V	NF24A-SR	SF24A-SR
	AC/DC 24 V With auxiliary contact	NF24A-SR-S2	SF24A-SR-S2
	AC 230 V		

Price List

H	L																		
	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur
210	256,11	268,83	281,80	294,80	307,16	320,78	333,74	346,44	359,43	372,12	385,15	398,44	410,81	a.r.	437,09	449,76	462,75	475,75	488,7
410	309,01	326,66	344,29	361,93	379,24	397,18	414,79	432,43	450,06	467,70	485,36	503,30	520,61	538,55	556,16	573,82	591,43	609,07	626,6
610	361,93	384,49	406,76	429,04	451,32	473,58	495,87	518,44	540,71	563,30	585,57	608,13	630,43	652,99	675,25	697,86	720,11	742,40	764,6
810	414,79	441,73	468,65	495,87	522,75	549,68	576,90	604,12	631,04	658,59	685,47	712,69	739,89	767,14	794,46	820,43	848,48	876,02	902,9
1010	467,70	499,28	531,13	562,45	594,54	626,40	658,26	698,91	721,67	753,84	785,69	817,57	849,41	881,59	913,12	945,31	977,16	1.009,3	1.040
1210	520,00	547,99	593,32	629,80	666,29	702,78	739,28	775,81	812,30	849,13	885,62	922,43	958,93	995,71	1.032,2	1.069,0	1.105,8	1.142,6	1.179
1410	572,88	614,34	655,46	696,92	735,46	779,52	820,65	861,95	903,23	944,39	985,81	1.027,2	1.068,7	1.110,1	1.151,3	1.193,0	1.234,2	1.275,9	1.317
1610	625,46	671,54	717,65	763,74	809,51	855,62	901,71	947,77	993,88	1.039,6	1.085,7	1.132,1	1.178,6	1.224,6	1.270,4	1.316,8	1.362,9	1.409,3	1.455
1810	678,36	729,09	779,83	830,86	881,59	932,32	983,06	1.033,7	1.084,5	1.135,5	1.186,2	1.237,0	1.287,7	1.338,8	1.389,5	1.440,5	1.491,5	1.542,6	1.593
2010	730,95	786,61	841,99	897,68	953,06	1.008,4	1.064,1	1.119,7	1.175,1	1.230,8	1.286,2	1.341,8	1.397,2	1.452,9	1.508,2	1.564,2	1.619,6	1.675,6	1.731

Servomotor Price List

Models	Eur	Models	Eur
LM24A	313,42	NF24A	620,72
LM24A-S	356,48	NF24A-S2	704,72
LM230A	313,42	NFA	
LM230A-S	356,48	NFA-S2	
LM24A-SR	421,99	NF24A-SR	741,60
LM230ASR	501,90	NF24A-SR-S2	825,59
Models	Eur	Models	Eur
NM24A	381,04	SF24A	760,03
		SF24A-S2	841,99
NM24A-S	460,95	SFA	874,76
NM230A	395,39	SFA-S2	956,68
NM230A-S	473,20	SF24A-SR	878,85
NM24A-SR	549,04	SF24A-SR-S2	940,28
NM230ASR	633,04		
Models	Eur		
SM24A	440,43		
SM24A-S	549,04		
SM230A	452,72		
SM230A-S	561,29		
SM24A-SR	620,72		
SM230ASR	702,70		

Manual Control

Description	Eur
Manual Control R18Z	a.r.

