

DLT50 X4-X6

CLASSE TENUTA
AIR LEAKAGE CLASSIFICATION

EN 1751:2014

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EN 1751:2024

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ATC5



Regulation damper 50 mm pitch in stainless steel AISI304 or stainless steel AISI316L



DAMPERS

Description and application:

Rectangular duct damper with double flange, multi-blade type, equipped with an extended shaft suitable for both manual operation and motorized actuation.

Designed for balancing, setting and regulating airflow in HVAC systems, it is suitable for installation in air distribution networks and in rectangular ducts, whether main, secondary or terminal, in ventilation and air conditioning systems, for both civil and industrial applications.

Construction:

- Excutione made of stainless steel AISI304 finishing 2B;
- Frame thickness 1 mm, riveted, depth 80 mm;
- Flange 30mm drilled Ø6 only in the corners with BMext=10mm / BMint=20mm;
- Blades double skin thickness 0,4+0,4 mm;
- Blade pitch 50 mm with opposed movement operation;
- Whitout side sealing strips;
- Blades movement by internal gears in nylon;
- Control shaft Ø8 extended L=60mm;
- Control plate suitable for manual operation and/or motorized actuator (for models with anti-rotation rod);
- Expanded 15x4 PE adhesive gasket applied on the width frame for blade end position;
- Silicone free.

Available execution:

- Made of stainless steel AISI316L finishing 2B (X6 version).

Operating Limits:

- Maximum dimensions WxH: 810x710 mm;
- Temperature range: from -20* to +50 °C;
- Dimensional drawing and weights: page 3;
- V max recommended: 10 m/s (table page 4);
- Maximum Pressure: 1000 Pa.

* Negative temperature is achievable only if ice formation is prevented.

Certifications and Testing:

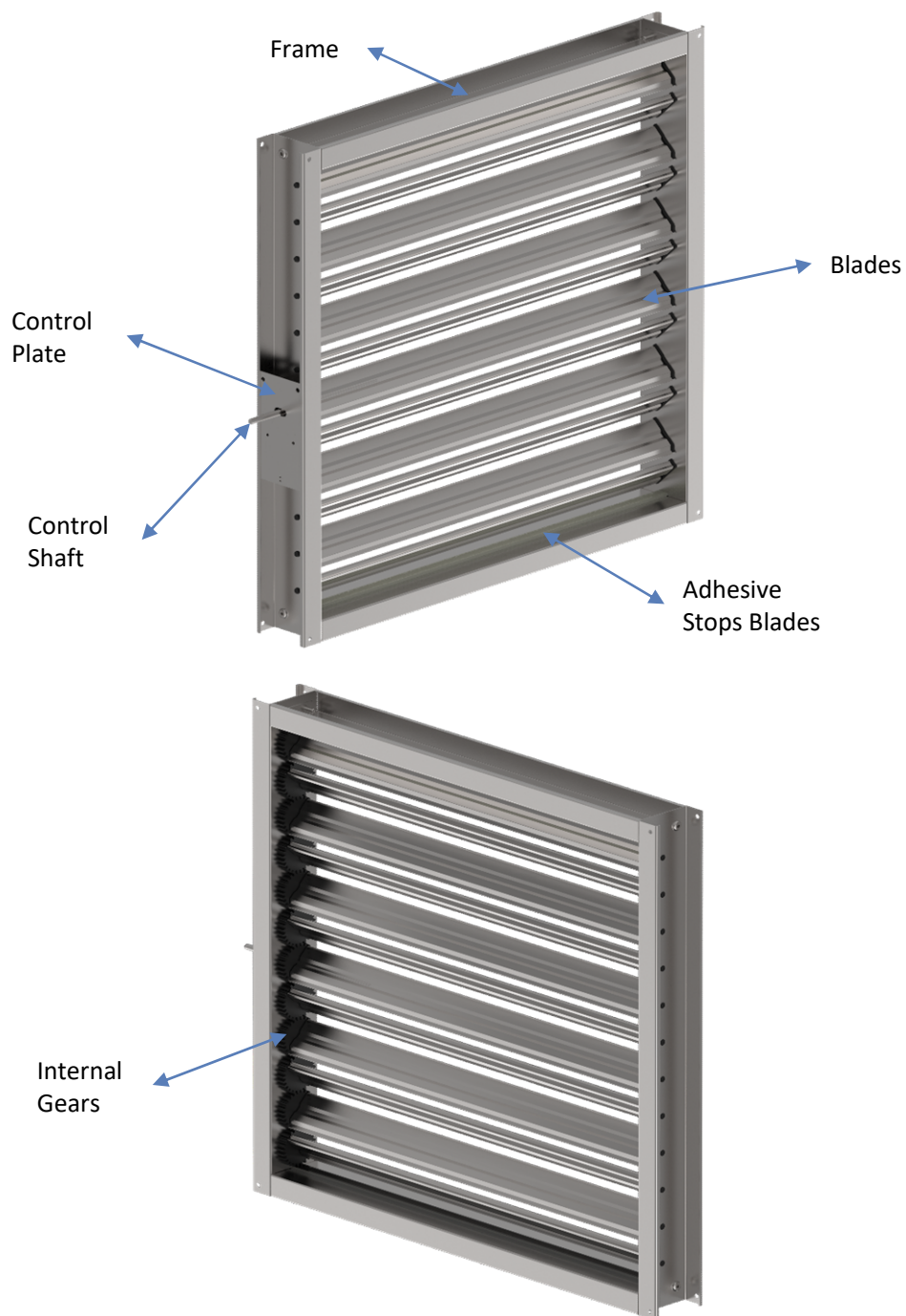
- Pressure drop tests carried out in accordance with ISO 7244 at Istituto Giordano (test report no. 136363);
- Self-generated noise tests carried out in accordance with UNI EN 25135 at Istituto Giordano (test report no. 148829).



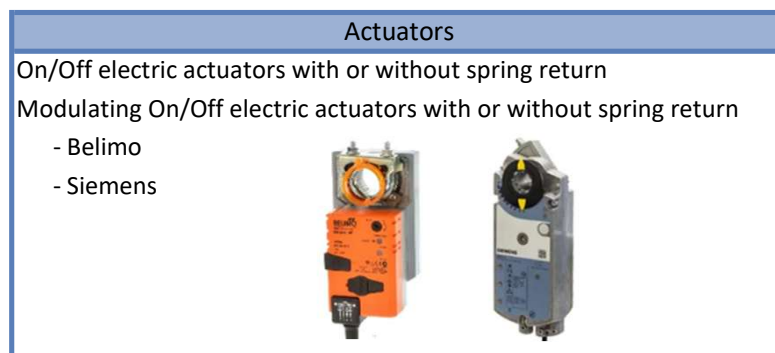
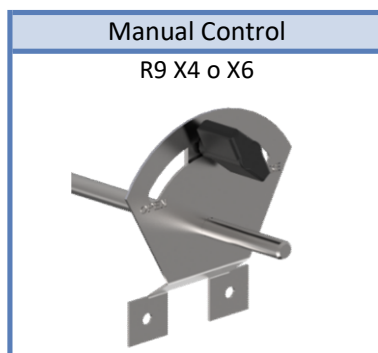
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Additional Construction Details



Available Controls and Actuators

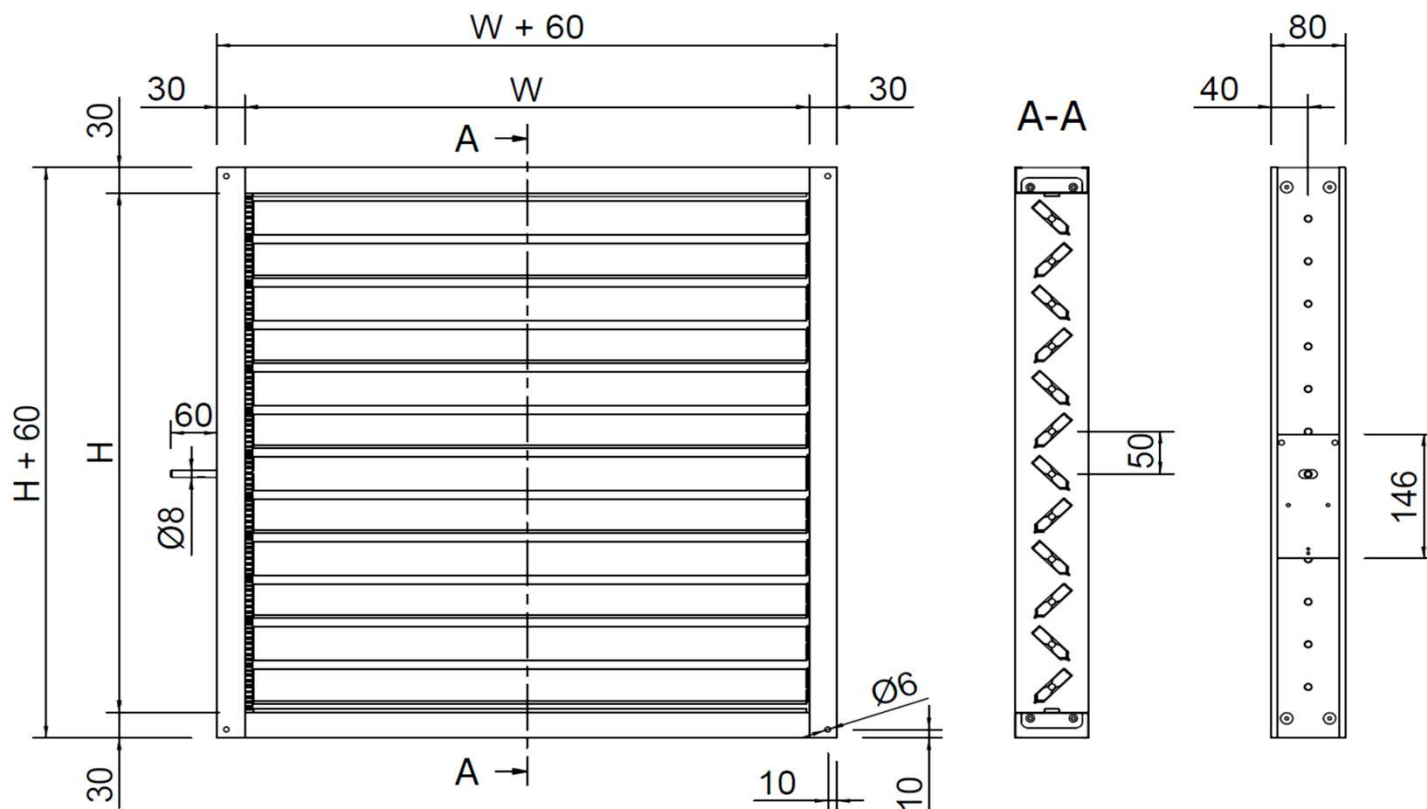




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Dimensional Drawing and Dimensional Table (size in mm, always referred to the inside of the flanges)



Nr. 4 HOLES IN THE CORNERS ALWAYS PRESENT

mm W\H	Dimensional Weight Table DLT50 [Kg]												
	110	160	210	260	310	360	410	460	510	560	610	660	710
110	1,2	1,4	1,6	1,8	2,0	2,2	2,4	2,6	2,8	3,0	3,2	3,4	3,6
160	1,4	1,6	1,8	2,0	2,2	2,5	2,7	2,9	3,1	3,3	3,6	3,8	4,0
210	1,5	1,7	2,0	2,2	2,5	2,7	2,9	3,2	3,4	3,7	3,9	4,1	4,4
260	1,7	1,9	2,2	2,4	2,7	3,0	3,2	3,5	3,7	4,0	4,3	4,5	4,8
310	1,8	2,1	2,4	2,6	2,9	3,2	3,5	3,8	4,0	4,3	4,6	4,9	5,2
360	2,0	2,3	2,6	2,9	3,2	3,5	3,8	4,1	4,4	4,7	5,0	5,3	5,6
410	2,1	2,4	2,7	3,1	3,4	3,7	4,0	4,3	4,7	5,0	5,3	5,6	5,9
460	2,3	2,6	2,9	3,3	3,6	4,0	4,3	4,6	5,0	5,3	5,7	6,0	6,3
510	2,4	2,8	3,1	3,5	3,8	4,2	4,6	4,9	5,3	5,6	6,0	6,4	6,7
560	2,6	2,9	3,3	3,7	4,1	4,5	4,8	5,2	5,6	6,0	6,4	6,7	7,1
610	2,7	3,1	3,5	3,9	4,3	4,7	5,1	5,5	5,9	6,3	6,7	7,1	7,5
660	2,9	3,3	3,7	4,1	4,5	5,0	5,4	5,8	6,2	6,6	7,1	7,5	7,9
710	3,0	3,4	3,9	4,3	4,8	5,2	5,6	6,1	6,5	7,0	7,4	7,8	8,3
760	3,2	3,6	4,1	4,5	5,0	5,5	5,9	6,4	6,8	7,3	7,8	8,2	8,7
810	3,3	3,8	4,3	4,7	5,2	5,7	6,2	6,7	7,1	7,6	8,1	8,6	9,1



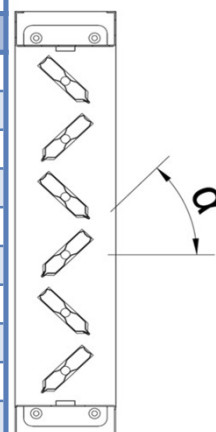
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mm W\H	Actuator Torque Selection Table DLT50 [Nm]												
	110	160	210	260	310	360	410	460	510	560	610	660	710
110	3	3	3	3	3	3	3	3	3	3	3	3	3
160	3	3	3	3	3	3	3	3	3	3	3	3	3
210	3	3	3	3	3	3	3	3	3	3	3	3	3
260	3	3	3	3	3	3	3	3	3	3	3	3	3
310	3	3	3	3	3	3	3	3	3	3	3	3	3
360	3	3	3	3	3	3	3	3	3	3	3	3	3
410	3	3	3	3	3	3	3	3	3	3	3	3	3
460	3	3	3	3	3	3	3	3	3	3	3	3	3
510	3	3	3	3	3	3	3	3	3	3	3	3	3
560	3	3	3	3	3	3	3	3	3	3	3	3	3
610	3	3	3	3	3	3	3	3	3	3	3	3	5
660	3	3	3	3	3	3	3	3	3	3	3	5	5
710	3	3	3	3	3	3	3	3	3	3	5	5	5
760	3	3	3	3	3	3	3	3	3	5	5	5	5
810	3	3	3	3	3	3	3	3	5	5	5	5	5

Vel. [m/s]	Pressure Loss and Generated Noise Data Table DLT50					
	$\alpha = 0^\circ$		$\alpha = 30^\circ$		$\alpha = 60^\circ$	
	Δp [Pa]	LwA [dB(A)]	Δp [Pa]	LwA [dB(A)]	Δp [Pa]	LwA [dB(A)]
1	<5	<20	<5	<20	14	29
2	<5	23	<5	25	56	50
3	<5	33	7	37	130	63
4	5	42	12	44	30	72
5	9	48	20	52	360	78
6	13	53	29	57	550	84
7	18	58	39	62	650	90
8	22	62	50	66	1000	93
9	27	65	64	69	>1000	97
10	35	68	80	72	>1000	>100

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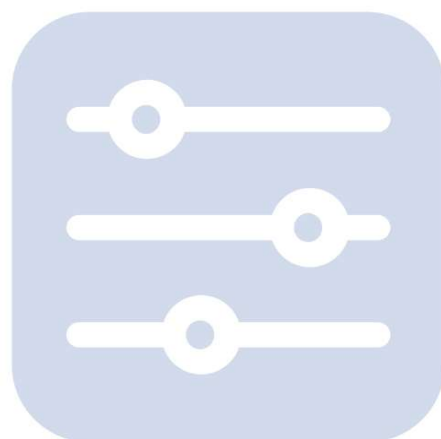
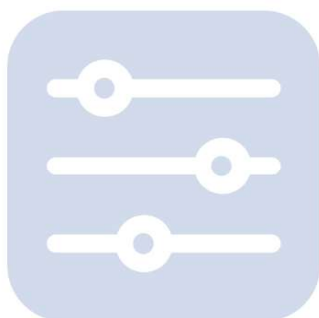
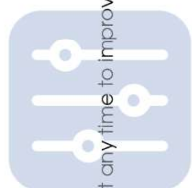


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C.L.A. S.r.l. Via Strada Artigianale Angelo Lapsus 310, 23036 San Giacomo di Teglio (So) Italy Tel.+39 0342 786116 | utek-air.it | cla-air.it

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