

DLT-T150 X4-X6

CLASSE TENUTA
AIR LEAKAGE CLASSIFICATION

EN 1751:2014

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EN 1751:2024

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ATC3



Air leakage damper 150 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 to ensure high air tightness by minimizing leakage in HVAC systems, it is ideal for airflow shut-off and isolation, 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:

- Execution made of stainless steel AISI304 finishing 2B;
- Frame thickness 1,5 mm, riveted, depth 160 mm;
- Frame internally sealed at the corners to ensure air tightness;
- Flange 40mm drilled $\varnothing 9$ pitch 300mm with BM=20mm;
- Blades double skin 0,8+0,8 mm with silicone sealing gasket;
- Blade pitch 150 mm with opposed movement operation;
- Side sealing strips in raw stainless steel AISI301;
- Bronze bushings;
- Stub shafts $\varnothing 18$ mm in stainless steel AISI303;
- Blades movement by external linkage in stainless steel AISI304;
- Control shaft $\varnothing 18$ extended L=100mm;
- Control plate suitable for manual operation and/or motorized actuator (for models with anti-rotation rod).

Available execution:

- Made of stainless steel AISI316L finishing 2B (X6 version);
- Atex version (see page 7).

Operating limits:

- Maximum dimensions WxH: 2000x1960 mm;
- Temperature range: from -20* to +180 °C;
- Dimensional drawing and drilling pattern: page 3;
- V max recommended: 15 m/s (see table page 5);
- Pressure: see graph page 5.

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

Certifications and Testing:

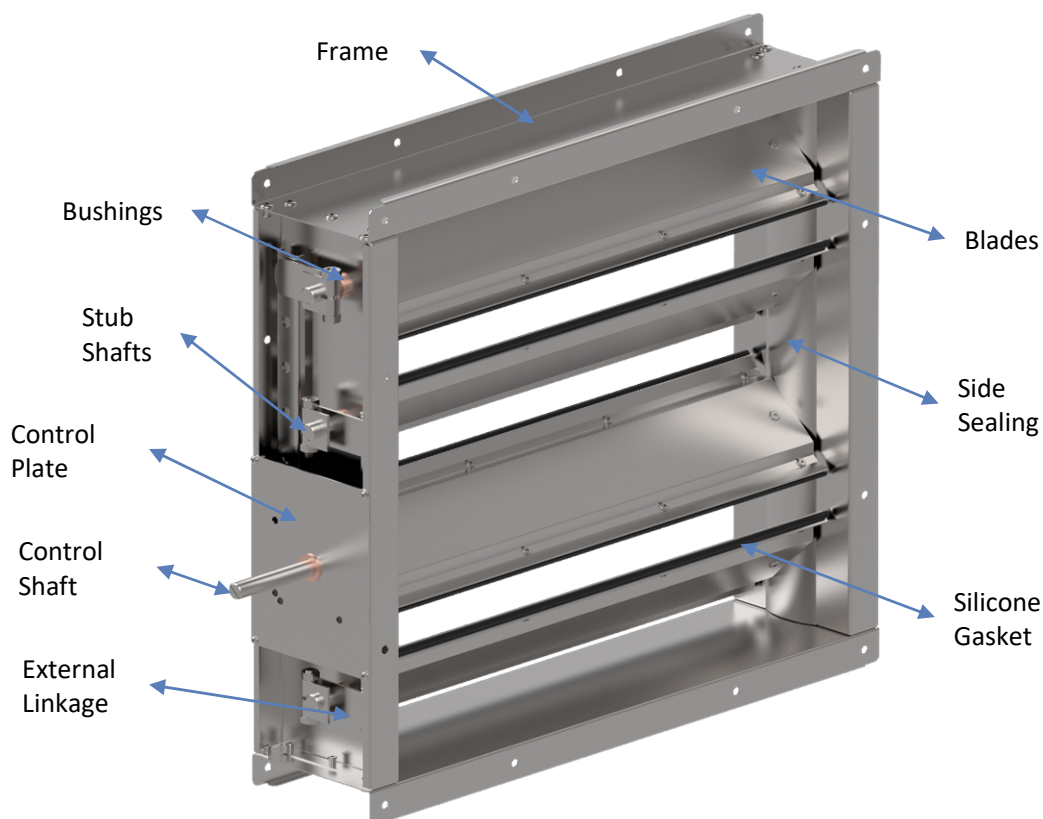
- Pressure drop tests carried out in accordance with ISO 7244;
- Self-generated noise tests carried out in accordance with UNI EN 25135;
- Air leakage tests carried out in accordance with DIN 1946/4;
- Air leakage tests carried out in accordance with EN 1751.



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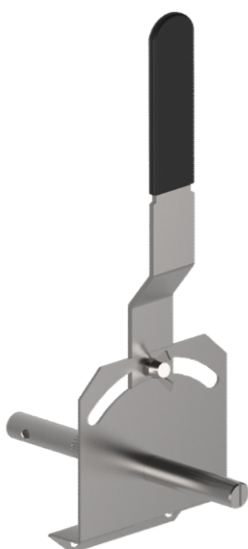
Additional Construction Details



Available Controls, Options, Accessories and Actuators

Manual Control

R18 X4 or X6



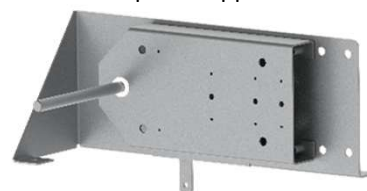
Option

Teflon Bushings (T_{max} 180°C)



Accessories

Internal control plate support R21 X4 or X6



Actuators

On/Off electric actuators with or without spring return

Modulating On/Off electric actuators with or without spring return

- Belimo
- Siemens
- Schischek



Double-acting pneumatic pistons/cylinders with flow regulators

- Waircom

Integrable accessories:

- 5-way solenoid valve + 24V or 230V coil





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mm W\H	Actuator Torque Selection Table DLT-T150 X [Nm]												
	160	310	460	610	760	910	1060	1210	1360	1510	1660	1810	1960
200	5	5	10	10	10	10	10	10	10	10	10	10	10
300	5	5	10	10	10	10	10	10	10	10	10	10	10
400	5	5	10	10	10	10	10	10	10	10	10	10	10
500	5	10	10	10	10	10	10	10	10	10	10	10	10
600	10	10	10	10	10	10	10	10	10	10	10	10	10
700	10	10	10	10	10	10	10	10	10	10	10	10	10
800	10	10	10	10	10	10	10	10	10	10	10	10	20
900	10	10	10	10	10	10	10	10	10	10	10	10	15
1000	10	10	10	10	10	10	10	10	10	10	10	15	15
1100	10	10	10	10	10	10	10	10	10	15	15	15	15
1200	10	10	10	10	10	10	10	10	10	15	15	15	15
1300	10	10	10	10	10	10	10	10	15	15	15	15	20
1400	10	10	10	10	10	10	10	10	15	15	15	20	20
1500	10	10	10	10	10	10	10	10	15	15	15	20	20
1600	10	10	10	10	10	10	10	15	15	15	20	20	20
1700	10	10	10	10	10	10	10	15	15	20	20	20	20
1800	10	10	10	10	10	10	15	15	15	20	20	20	20
1900	10	10	10	10	10	15	15	15	20	20	20	20	20
2000	10	10	10	10	10	15	15	15	20	20	20	20	20

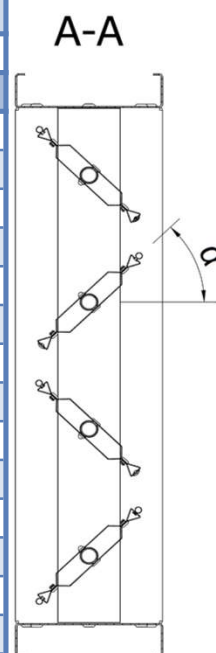
Pneumatic Cylinder Selection Table		
Operating air pressure [Bar]	Cylinder Type	
	Piston rod Ø27 stroke L=100mm	Piston rod Ø35 stroke L=150mm
	Torque [Nm]	Torque [Nm]
2	4	10
3	6	15
4	8	20
5	10	25
6	12	30
7	14	36
8	16	41



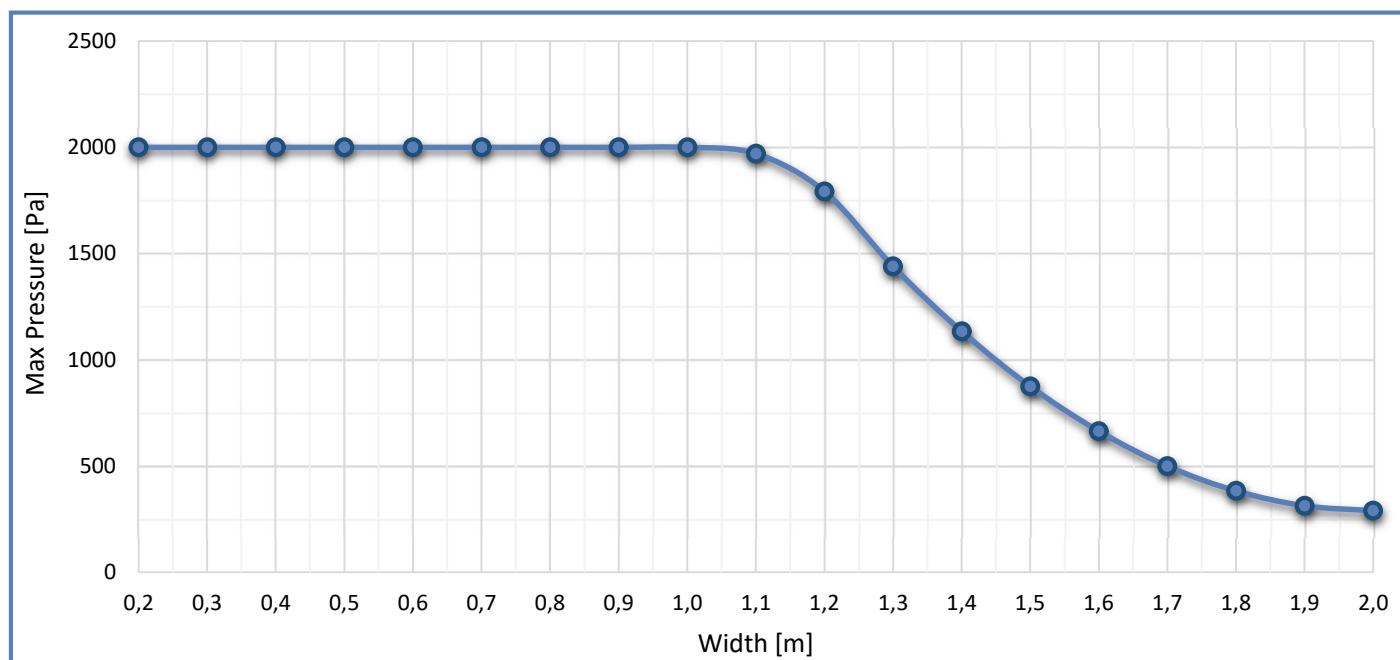
DLT-T150 X4-X6

Air leakage damper 150 mm pitch in stainless steel AISI304 or stainless steel AISI316L

Vel. [m/s]	Pressure Loss and Generated Noise Data Table DLT-T150					
	$\alpha = 0^\circ$		$\alpha = 30^\circ$		$\alpha = 60^\circ$	
	Δp [Pa]	LwA [dB(A)]	Δp [Pa]	LwA [dB(A)]	Δp [Pa]	LwA [dB(A)]
1	<5	<20	5	32	65	47
2	<5	23	18	48	270	63
3	<5	34	44	57	625	72
4	<5	43	75	64	1110	77
5	<5	48	120	70	>1500	83
6	<5	54	170	74	>1500	87
7	5	58	240	77	>1500	90
8	7	62	320	80	>1500	93
9	9	66	400	83	>1500	95
10	11	69	480	85	>1500	98
11	13	72	590	88	>1500	100
12	15	75	700	90	>1500	>100
13	18	77	820	92	>1500	>100
14	21	79	950	93	>1500	>100
15	25	81	1120	95	>1500	>100



Maximum Allowable Pressure Chart DLT-T150 X





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Air leakage damper 150 mm pitch in stainless steel AISI304 or stainless steel AISI316L

mm B \ H	General Weight Table DLT-T150 X [Kg]												
	160	310	460	610	760	910	1060	1210	1360	1510	1660	1810	1960
200	4,2	6,0	7,8	9,6	11,4	13,2	15,0	16,8	18,6	20,4	22,2	24,0	25,8
250	4,7	6,6	8,6	10,5	12,4	14,3	16,2	18,1	20,1	22,0	23,9	25,8	27,7
300	5,3	7,3	9,3	11,4	13,4	15,4	17,5	19,5	21,5	23,6	25,6	27,6	29,6
350	5,8	8,0	10,1	12,3	14,4	16,6	18,7	20,8	23,0	25,1	27,3	29,4	31,6
400	6,4	8,6	10,9	13,2	15,4	17,7	19,9	22,2	24,5	26,7	29,0	31,2	33,5
450	6,9	9,3	11,7	14,1	16,4	18,8	21,2	23,6	25,9	28,3	30,7	33,1	35,4
500	7,5	10,0	12,5	15,0	17,4	19,9	22,4	24,9	27,4	29,9	32,4	34,9	37,4
550	8,0	10,6	13,2	15,8	18,5	21,1	23,7	26,3	28,9	31,5	34,1	36,7	39,3
600	8,6	11,3	14,0	16,7	19,5	22,2	24,9	27,6	30,3	33,1	35,8	38,5	41,2
650	9,1	12,0	14,8	17,6	20,5	23,3	26,1	29,0	31,8	34,6	37,5	40,3	43,2
700	9,7	12,6	15,6	18,5	21,5	24,4	27,4	30,3	33,3	36,2	39,2	42,1	45,1
750	10,2	13,3	16,4	19,4	22,5	25,6	28,6	31,7	34,8	37,8	40,9	43,9	47,0
800	10,8	14,0	17,1	20,3	23,5	26,7	29,9	33,0	36,2	39,4	42,6	45,8	48,9
850	11,3	14,6	17,9	21,2	24,5	27,8	31,1	34,4	37,7	41,0	44,3	47,6	50,9
900	11,9	17,6	23,3	29,0	34,7	40,4	46,1	51,9	57,6	63,3	69,0	74,7	80,4
950	12,4	16,0	19,5	23,0	26,5	30,1	33,6	37,1	40,6	44,2	47,7	51,2	54,7
1000	13,0	16,6	20,3	23,9	27,5	31,2	34,8	38,5	42,1	45,7	49,4	53,0	56,7
1050	13,5	17,3	21,0	24,8	28,6	32,3	36,1	39,8	43,6	47,3	51,1	54,8	58,6
1100	14,1	18,0	21,8	25,7	29,6	33,4	37,3	41,2	45,0	48,9	52,8	56,7	60,5
1150	14,6	18,6	22,6	26,6	30,6	34,6	38,5	42,5	46,5	50,5	54,5	58,5	62,5
1200	15,2	19,3	23,4	27,5	31,6	35,7	39,8	43,9	48,0	52,1	56,2	60,3	64,4
1250	15,7	19,9	24,2	28,4	32,6	36,8	41,0	45,2	49,5	53,7	57,9	62,1	66,3
1300	16,3	20,6	24,9	29,3	33,6	37,9	42,3	46,6	50,9	55,3	59,6	63,9	68,2
1350	16,8	21,3	25,7	30,2	34,6	39,1	43,5	47,9	52,4	56,8	61,3	65,7	70,2
1400	17,4	21,9	26,5	31,1	35,6	40,2	44,7	49,3	53,9	58,4	63,0	67,5	72,1
1450	17,9	22,6	27,3	32,0	36,6	41,3	46,0	50,7	55,3	60,0	64,7	69,4	74,0
1500	18,5	23,3	28,1	32,9	37,6	42,4	47,2	52,0	56,8	61,6	66,4	71,2	76,0
1550	19,0	23,9	28,8	33,7	38,7	43,6	48,5	53,4	58,3	63,2	68,1	73,0	77,9
1600	19,6	24,6	29,6	34,6	39,7	44,7	49,7	54,7	59,7	64,8	69,8	74,8	79,8
1650	20,1	25,3	30,4	35,5	40,7	45,8	50,9	56,1	61,2	66,3	71,5	76,6	81,8
1700	20,7	25,9	31,2	36,4	41,7	46,9	52,2	57,4	62,7	67,9	73,2	78,4	83,7
1750	21,2	26,6	32,0	37,3	42,7	48,1	53,4	58,8	64,2	69,5	74,9	80,2	85,6
1800	21,8	27,3	32,7	38,2	43,7	49,2	54,7	60,1	65,6	71,1	76,6	82,1	87,5
1850	22,3	27,9	33,5	39,1	44,7	50,3	55,9	61,5	67,1	72,7	78,3	83,9	89,5
1900	22,9	28,6	34,3	40,0	45,7	51,4	57,1	62,9	68,6	74,3	80,0	85,7	91,4
1950	23,4	29,3	35,1	40,9	46,7	52,6	58,4	64,2	70,0	75,9	81,7	87,5	93,3
2000	24,0	29,9	35,9	41,8	47,7	53,7	59,6	65,6	71,5	77,4	83,4	89,3	95,3



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Air leakage damper 150 mm pitch in stainless steel AISI304 or stainless steel AISI316L

ATEX Compliance:

The product is available in a version compliant with ATEX Directive 2014/34/EU for installation in **potentially explosive atmospheres**, classified as Zone 1 or 2 (gas) or Zone 21 or 22 (dust), depending on the requirements.

If fully motorized versions are requested, it is mandatory to use **ATEX-certified components** (for our certification, only Schischek-Rotork actuators may be used) and to follow the installation instructions specified for these environments.

ATEX EXECUTION and available CERTIFICATIONS:

- Bronze bushings (standard for air leakage damper);
- For manual operation, round control shaft Ø18 mm, L=100 mm (standard shaft);
- For motorized versions, Schischek kit added with control square shaft 12x12 / 16x16;
- Grounding tab with corresponding label;
- ATEX certificate.



ATEX version damper simple without actuator equipped with free round control shaft Ø18 mm L=100mm and/or with manual control (optional heating cables can be installed on the damper).
SUITABLE FOR ZONE 1, 2, 21 e 22.

Marcatura / marking

CE  II 2G Ex h IIC T6..T3 Gb
II 2D Ex h IIC T85°C..T200°C Db

ATEX version damper with ExMax Schischek actuator supplied by us and/or only prepared with Schischek kit (optional heating cables can be installed on the damper).
SUITABLE FOR ZONE 1, 21.

Marcatura / marking

CE  II 2G Ex h IIC T6..T4 Gb
II 2D Ex h IIC T85°C..T135°C Db

ATEX version damper with RedMax Schischek actuator supplied by us and/or only prepared with Schischek kit (optional heating cables can be installed on the damper).
SUITABLE FOR ZONE 2, 22.

Marcatura / marking

CE  II 3G Ex h IIC T6..T4 Gb
II 3D Ex h IIC T85°C..T135°C Db

ATEX version damper (Non-Certified) intended for safe areas and does not require certification. Available with free round control shaft Ø18 mm L=100mm and/or manual control mounted, or with InMax Schischek actuator supplied by us and/or only prepared with Schischek kit (optional heating cables can be installed on the damper).
SUITABLE FOR SAFE AREAS.

Kit Schischek Tg.S - Plate support + Square shaft 12x12;



Kit Schischek Tg.M - Plate support + Square shaft 16x16;



AZIENDA CON SISTEMA
DI GESTIONE QUALITÀ
CERTIFICATO DA DNV GL
ISO 9001

AZIENDA CON
SISTEMA DI GESTIONE
AMBIENTALE CERTIFICATO
DA DNV
ISO 14001



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