Ventilation dampers

Ventilation dampers

TECHNICAL INFORMATIONS

About a system

Dampers complete with ducts and profiles compose a complete system of ventilation duct elements.Thanks to their variety they are applicable almost in all conditions.

Dimensions

All round dampers are of diameters corresponding to dimensions of round set of the SPIRAL® profiles. In the case of rectangular ducts - their dimensions are each time adjusted to sizes of ducts and profiles. The remaining dimensions are based on tables and informations specified in a catalogue chart of each element.

Assembly instruction

Round dampers are mounted by means of self-drilling screws or rivets in a part of a duct where a connecting flange is inserted. Rectangular dampers are mounted at steel corners by means of screws and with use of the KLQ clamp clamping two flange frames. Servo-motors can be mounted as well on round as on rectangular dampers.

Marking

ALNOR products are marked with the building mark and the product code corresponding to the technical specification included in this calalogue. SPIRAL® system round dampers made of galvanized sheet have a hygienical certificate HK/B/0867/01/2009

Regulating Dampers
DARL

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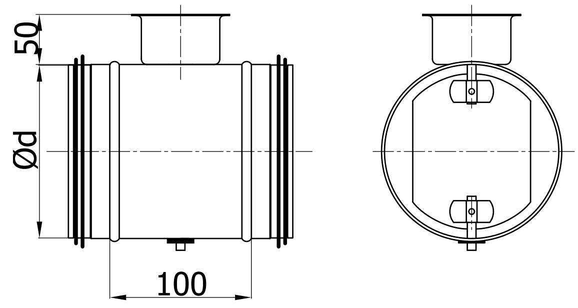
Dimensions



for d1 <450 center of damper is mounted on two short rods
for d1 ≥ 450 center of damper is mounted on a long rod

$Ød_1$ nom [mm]	waga [kg]
80	0,40
100	0,46
125	0,55
140	0,60
150	0,65
160	0,70
180	0,75
200	0,80
224	0,90
250	1,10
280	1,30
300	1,45
315	1,50
355	2,00
400	2,40
450	3,50
500	4,00
560	4,60
600	5,00
630	5,40

Dampers of diameters bigger than 630 mm should be used as multi-plane dampers with a passage for a round duct DASQL.

Description

The DARL regulating damper with EPDM gasket on flange is designed so as to admit an insulation thickness of up to 50mm. The damper blade can be adjusted on the shaft within a range of 0° to 90°. The blade can be locked using a screw.

Example identification
Product code: **DARL - aaa**

type
$Ød_1$

Regulating Dampers

DAR

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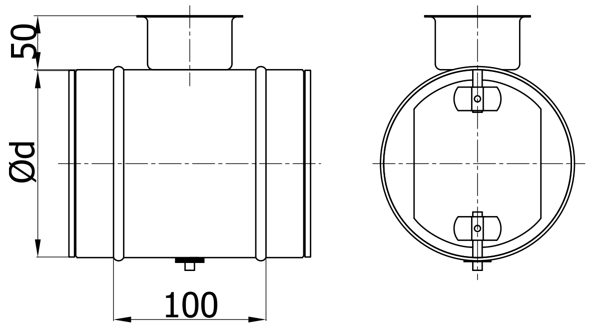
Description

The DAR regulating damper is designed so as to admit an insulation thickness of up to 50mm.
The damper blade can be adjusted on the shaft within a range of 0° to 90°. The blade can be locked using a screw.

Example identification
Product code: **DAR - aaa**

type
Ød1

Dimensions



for d1 <450 center of damper is mounted on two short rods
for d1 ≥ 450 center of damper is mounted on a long rod

Ød1 rated [mm]	*weight [kg]*
80	0,40
100	0,46
125	0,55
140	0,60
150	0,65
160	0,70
180	0,75
200	0,80
224	0,90
250	1,10
280	1,30
300	1,45
315	1,50
355	2,00
400	2,40
450	3,50
500	4,00
560	4,60
600	5,00
630	5,40

Dampers of diameters bigger than 630 mm should be used as multi-plane dampers with a passage for a round duct.

DASH

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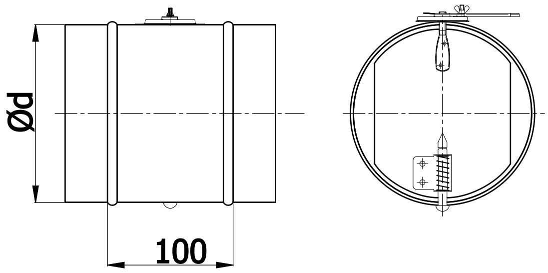
Dimensions



Ød$_1$ nom [mm]	weight [kg]
80	0,4
100	0,4
125	0,5
140	0,6
150	0,6
160	0,7
180	0,7
200	0,8
224	0,9
250	1,2
280	1,4
300	1,5
315	1,6

Description

The DARH regulating damper can be used everywhere if a tight closing is not required. Position of the damper plane is visible on a handle within 0° to 90°. The damper plane can be fixed by means of a bolt with a wing-nut weight.

Example identification

Product code: **DARH - aaa**

type
Ød$_1$

Regulating Dampers

DARL/DAR/DARH

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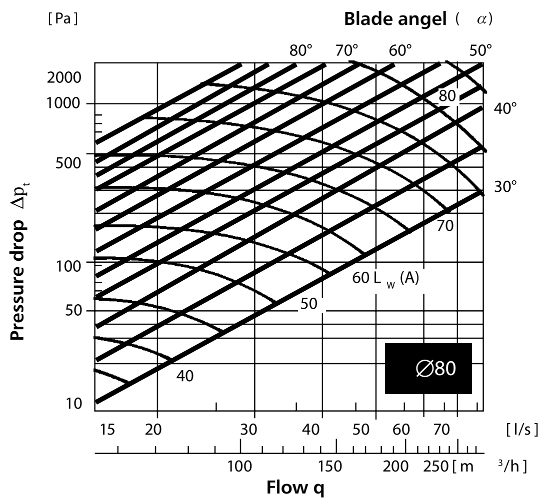
Technical Data

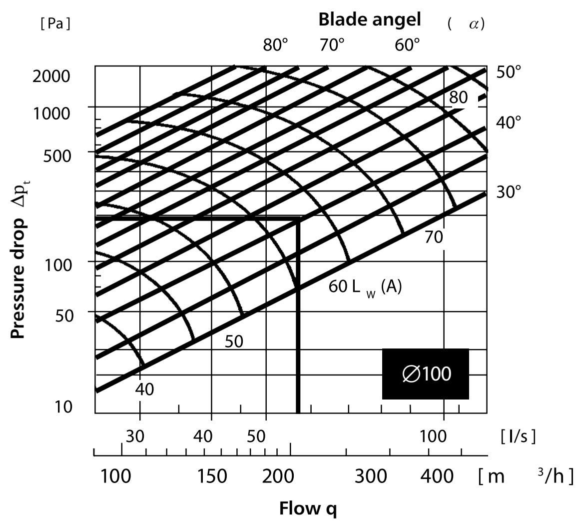
Pressure loss and noise level charts for easier selection.

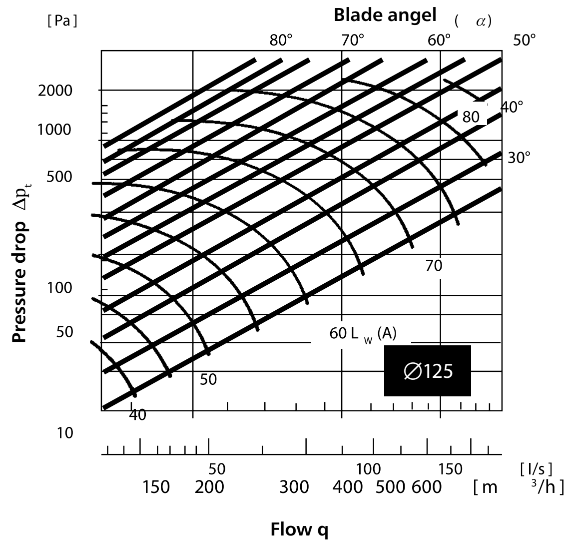
The continuous lines represent the damper's total pressure loss as a function of flow rate and blade angle. The curve shows value A corresponding to noise level Lw (A) in dB within the duct.

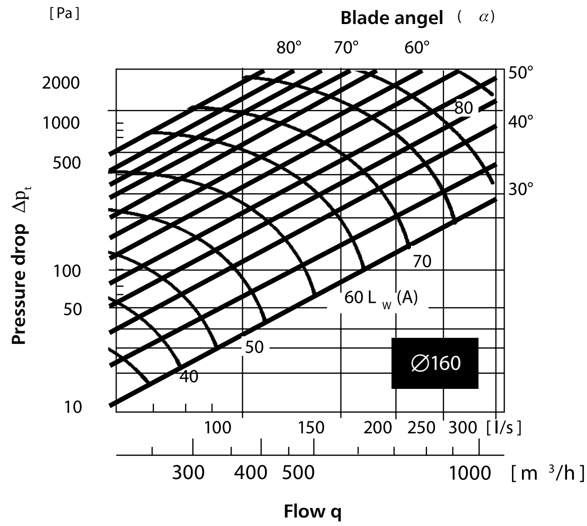
Example:
Diameter Ø100
Flow rate 60 l/s
Pressure loss 200 Pa

The following information can be read in the charts:
Blade angle 40°
Noise level 62 dB(A)









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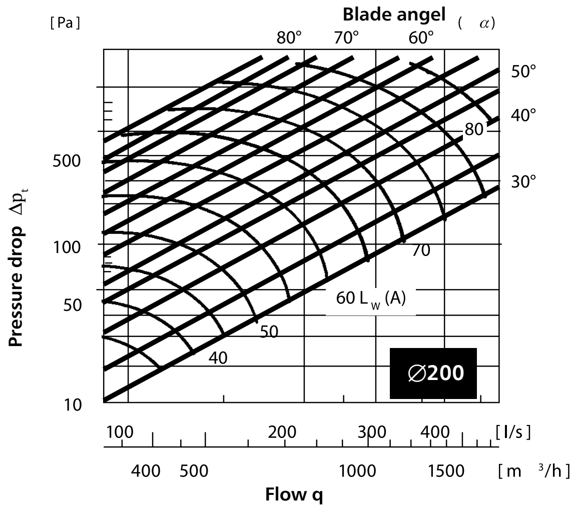
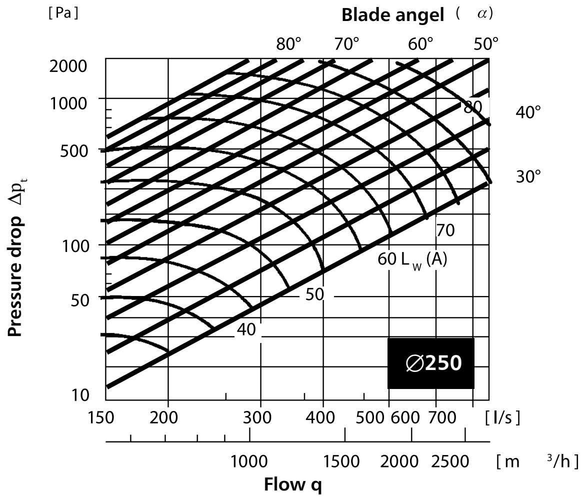
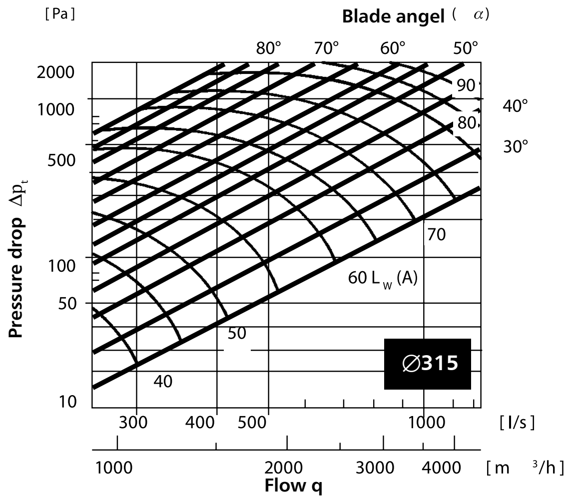
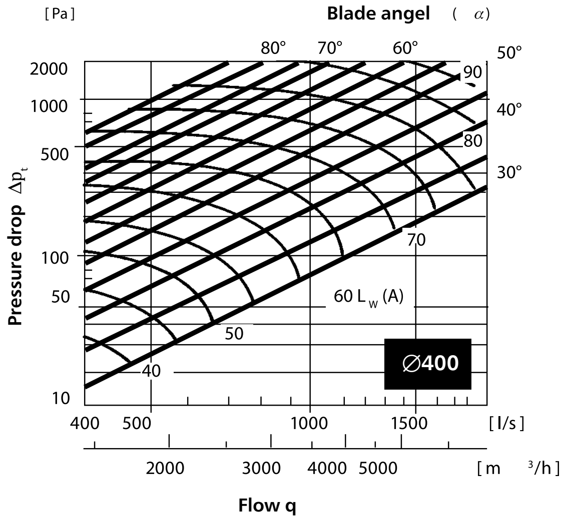
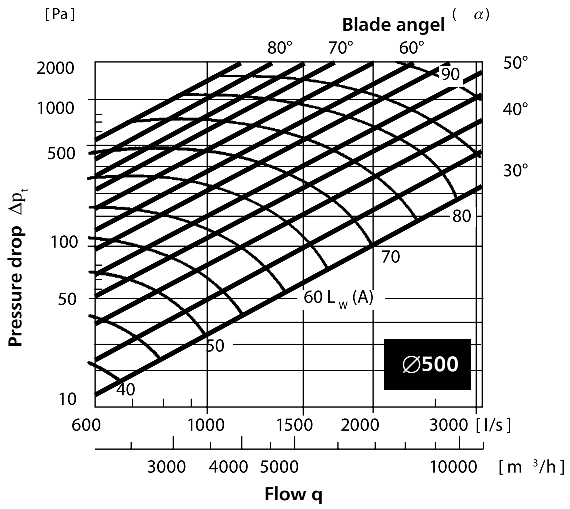
Technical Data

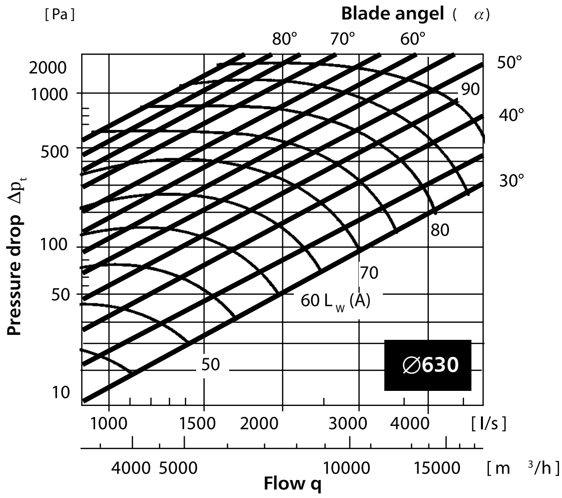












Regulating Dampers
DARL/DAR/DARH

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Technical Data

Noise data for DARL dampers
Noise level L_w (dB) in octave bands 63-8000Hz.
as a function of diameter, flow rate and pressure loss.

average speed 3 m/s

diameter	pressure loss [Pa]	flow rate	63	125	250	500	1k	2k	4k	8k
80	500	15 l/s	65	65	65	65	59	55	49	46
	300		63	63	60	60	54	48	42	36
	200		63	63	60	54	51	43	34	29
	100		55	60	53	48	43	30	23	15
	50		56	54	47	43	36	25	16	9
100	500	25 l/s	67	64	64	57	54	48	48	48
	300		62	61	60	54	51	45	42	42
	200		58	58	58	50	48	40	37	37
	100		58	55	53	46	41	34	26	24
	50		55	53	48	42	35	26	22	18
125	500	40 l/s	71	68	65	59	56	50	50	47
	300		66	66	60	55	52	46	43	40
	200		65	62	57	51	46	41	38	38
	100		64	59	53	47	39	34	29	27
	50		63	54	50	41	36	27	25	20
160	500	60 l/s	68	67	64	59	55	53	52	51
	300		63	62	59	55	52	49	46	45
	200		58	56	50	48	42	40	40	68
	100		59	54	50	45	40	35	33	31
	50		54	50	46	37	33	29	25	25
200	500	100 l/s	70	64	61	55	52	52	55	55
	300		67	62	56	50	48	45	48	48
	200		62	57	55	47	44	42	42	42
	100		57	52	48	41	39	36	34	34
	50		51	45	41	36	32	32	28	28
250	500	150 l/s	69	66	59	53	50	54	53	52
	300		63	61	55	50	47	46	48	47
	200		59	57	52	46	44	41	44	44
	100		56	52	45	41	38	36	34	31
	50		52	48	40	38	34	30	28	24
315	500	250 l/s	68	65	59	53	50	50	53	50
	300		62	59	54	49	46	45	49	43
	200		60	55	50	45	43	40	43	40
	100		54	52	45	41	38	36	36	31
	50		49	49	43	38	34	32	30	24
400	500	400 l/s	79	73	67	62	57	60	59	58
	300		72	66	60	54	51	51	51	51
	200		67	62	56	50	48	48	48	45
	100		61	56	49	44	42	39	39	34
	50		57	52	44	39	37	35	34	26
500	500	600 l/s	84	77	70	64	63	62	61	60
	300		77	70	64	58	54	54	58	58
	200		71	65	59	53	50	50	50	47
	100		63	58	53	47	46	44	42	37
	50		59	52	47	44	42	38	38	31
630	500	1000 l/s	88	80	73	69	66	64	63	62
	300		82	75	69	65	62	61	58	55
	200		78	72	65	62	59	55	55	49
	100		71	66	59	54	50	46	45	40
	50		66	58	53	48	43	40	39	30

average speed 6 m/s

diameter	pressure loss [Pa]	flow rate	63	125	250	500	1k	2k	4k	8k
80	500	30 l/s	67	67	67	67	60	57	50	47
	300		66	66	63	63	56	50	44	38
	200		65	65	62	56	53	44	35	30
	100		59	65	57	51	46	32	24	16
	50		59	59	52	47	40	27	17	10
100	500	50 l/s	72	68	68	62	59	52	52	52
	300		68	68	68	59	56	50	47	47
	200		65	65	64	57	54	45	42	42
	100		68	66	62	54	48	40	31	29
	50		69	67	60	53	44	33	28	22
125	500	80 l/s	76	73	70	63	60	53	53	50
	300		73	73	67	60	57	51	48	44
	200		74	71	65	59	53	47	43	43
	100		77	70	63	55	47	40	35	32
	50		80	68	60	51	43	34	32	26
160	500	120 l/s	72	71	68	62	59	55	54	53
	300		67	66	64	58	55	52	49	48
	200		65	62	56	53	47	44	44	76
	100		70	64	60	53	48	42	39	38
	50		69	64	58	48	42	37	32	32
200	500	200 l/s	75	68	65	59	55	55	59	59
	300		74	68	62	55	52	51	53	52
	200		71	65	62	53	50	48	47	47
	100		69	64	58	50	47	44	42	42
	50		63	56	51	44	39	39	34	34
250	500	300 l/s	71	67	61	56	53	56	55	54
	300		66	63	57	51	48	47	51	48
	200		63	60	55	49	46	44	46	46
	100		63	57	51	45	43	40	38	35
	50		61	56	47	45	40	38	33	28
315	500	500 l/s	74	71	65	58	55	55	58	55
	300		69	66	60	54	51	51	54	48
	200		70	64	58	52	49	48	49	46
	100		66	63	55	50	47	46	44	39
	50		64	64	56	49	45	42	40	32
400	500	800 l/s	82	75	68	65	59	62	61	60
	300		77	70	64	58	56	55	54	54
	200		74	68	62	56	53	52	52	49
	100		72	66	58	53	49	47	46	40
	50		72	67	56	50	47	44	44	33
500	500	1200 l/s	85	78	71	65	64	63	62	61
	300		80	74	67	60	57	57	60	60
	200		77	70	64	58	56	55	54	51
	100		72	66	60	55	53	51	49	43
	50		71	63	57	54	51	46	46	37
630	500	2000 l/s	90	83	75	71	68	67	65	64
	300		84	77	70	67	63	62	61	56
	200		80	74	67	64	60	57	57	50
	100		78	71	66	59	56	49	47	44
	50		77	68	62	57	51	45	48	36

average speed 9 m/s

diameter	pressure loss [Pa]	flow rate	63	125	250	500	1k	2k	4k	8k
80	500	45 l/s	70	70	70	70	63	60	53	49
	300		70	70	67	67	60	54	47	40
	200		70	70	67	60	57	48	38	32
	100		66	72	63	57	51	36	27	18
	50		-	-	-	-	-	-	-	-
100	500	75 l/s	78	75	75	67	64	57	57	57
	300		75	74	73	65	61	54	51	51
	200		74	73	73	64	59	50	47	46
	100		79	75	71	62	56	46	36	33
	50		-	-	-	-	-	-	-	-
125	500	120 l/s	83	79	76	68	65	58	58	54
	300		79	79	72	66	62	55	52	48
	200		82	78	71	65	58	51	48	48
	100		84	78	70	61	51	45	39	35
	50		-	-	-	-	-	-	-	-
160	500	180 l/s	78	77	74	67	63	60	59	58
	300		75	75	71	65	61	58	54	54
	200		73	69	63	59	53	50	50	
	100		77	73	69	61	54	48	45	44
	50		-	-	-	-	-	-	-	-
200	500	300 l/s	83	76	72	65	61	61	65	65
	300		84	78	71	64	61	57	60	60
	200		83	76	71	62	58	55	54	54
	100		83	76	69	59	56	53	50	50
	50		-	-	-	-	-	-	-	-
250	500	450 l/s	78	75	68	61	58	61	60	59
	300		75	72	65	59	55	55	59	55
	200		72	69	63	57	55	54	54	53
	100		75	69	60	56	52	49	45	42
	50		-	-	-	-	-	-	-	-
315	500	750 l/s	82	78	71	64	60	60	54	60
	300		78	74	68	61	57	57	61	54
	200		79	72	66	59	58	57	56	52
	100		76	72	64	57	54	52	50	44
	50		-	-	-	-	-	-	-	-
400	500	1200 l/s	88	81	74	70	62	66	65	64
	300		84	77	70	63	62	61	60	60
	200		82	75	68	61	60	59	58	54
	100		83	76	67	60	58	55	53	47
	50		-	-	-	-	-	-	-	-
500	500	1800 l/s	91	84	76	68	67	68	68	67
	300		88	80	73	66	62	62	66	66
	200		85	78	72	65	63	61	60	57
	100		82	75	70	63	60	57	55	50
	50		-	-	-	-	-	-	-	-
630	500	3000 l/s	96	88	80	76	72	72	70	68
	300		92	84	77	73	69	68	68	61
	200		89	82	75	71	67	63	63	56
	100		90	82	76	68	63	58	55	50
	50		-	-	-	-	-	-	-	-

average speed 12 m/s

diameter	pressure loss [Pa]	flow rate	63	125	250	500	1k	2k	4k	8k
80	500	60 l/s	75	75	75	75	68	64	56	53
	300		75	75	71	71	64	57	50	43
	200		75	75	71	65	61	51	41	34
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
100	500	100 l/s	84	81	80	72	68	62	61	61
	300		81	80	79	70	67	59	56	55
	200		80	80	79	69	66	55	51	51
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
125	500	160 l/s	89	85	81	73	69	62	62	58
	300		86	86	79	71	68	60	56	53
	200		89	85	78	70	63	56	52	52
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
160	500	240 l/s	84	84	80	72	68	65	65	65
	300		81	81	78	70	67	63	59	59
	200		84	80	77	69	66	58	55	55
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
200	500	400 l/s	90	82	78	72	67	66	71	70
	300		92	84	78	71	67	63	67	66
	200		90	83	79	69	65	62	61	60
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
250	500	600 l/s	87	83	76	68	64	68	68	68
	300		84	80	73	67	65	64	62	61
	200		82	79	72	64	63	63	62	61
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
315	500	1000 l/s	89	85	77	69	68	67	69	65
	300		85	81	74	66	64	64	66	59
	200		86	79	72	65	63	62	64	58
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
400	500	1600 l/s	95	87	79	75	67	71	70	69
	300		91	83	76	69	67	66	65	64
	200		89	82	75	69	67	64	63	60
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
500	500	2400 l/s	96	88	80	72	70	73	72	71
	300		93	85	78	70	66	66	70	70
	200		91	84	76	70	68	66	65	61
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
630	500	4000 l/s	103	95	86	82	77	77	76	73
	300		100	91	83	79	75	75	74	66
	200		98	90	82	78	74	70	70	62
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-

average speed 15 m/s

diameter	pressure loss [Pa]	flow rate	63	125	250	500	1k	2k	4k	8k
80	500	75 l/s	80	80	80	80	72	68	60	56
	300		79	79	75	75	68	60	53	45
	200		-	-	-	-	-	-	-	-
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
100	500	120 l/s	88	85	84	76	72	65	64	64
	300		86	85	84	74	70	62	59	58
	200		-	-	-	-	-	-	-	-
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
125	500	180 l/s	91	87	83	75	71	63	63	59
	300		89	88	81	73	69	62	58	54
	200		-	-	-	-	-	-	-	-
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
160	500	300 l/s	89	89	85	77	73	69	69	69
	300		87	87	83	76	72	68	64	64
	200		-	-	-	-	-	-	-	-
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
200	500	450 l/s	93	85	81	73	71	70	74	73
	300		95	87	81	72	68	66	69	68
	200		-	-	-	-	-	-	-	-
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
250	500	750 l/s	94	90	82	74	70	74	74	74
	300		91	87	80	72	70	69	72	68
	200		-	-	-	-	-	-	-	-
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
315	500	1200 l/s	92	88	80	72	71	70	72	68
	300		89	85	78	70	68	68	70	62
	200		-	-	-	-	-	-	-	-
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
400	500	1800 l/s	98	90	82	78	70	74	73	72
	300		94	86	79	71	70	69	68	67
	200		-	-	-	-	-	-	-	-
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
500	500	3000 l/s	102	94	85	78	75	77	77	76
	300		99	91	83	74	70	70	74	74
	200		-	-	-	-	-	-	-	-
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-
630	500	4500 l/s	107	98	90	85	81	81	80	76
	300		105	96	88	83	79	79	79	70
	200		-	-	-	-	-	-	-	-
	100		-	-	-	-	-	-	-	-
	50		-	-	-	-	-	-	-	-

Adjusting Dampers

DASL

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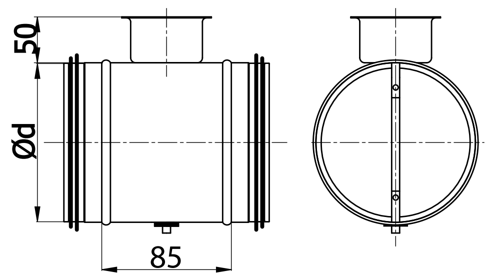
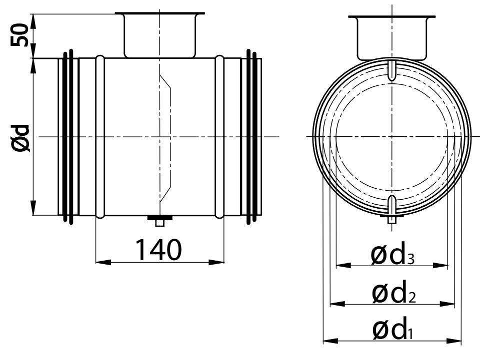
Dimensions

for $d_1 < 355$ center of damper is mounted on two short rods



for $d_1 \geq 355$ center of damper is mounted on a long rod



Ød nom [mm]	*Ød₁ nom [mm]*	*Ød₂ nom [mm]*	*Ød₃ nom [mm]*	*weigh [kg]*
80*	-	-	-	0,40
100*	-	-	-	0,45
125*	-	-	-	0,55
140*	-		-	0,60
150*	-	-	-	0,65
160*	-	-	-	0,70
180*	-	-	-	0,75
200*	-	-	-	0,80
224*	-	-	-	0,90
250*	-	-	-	1,20
280*	-	-	-	1,40
300*	-	-	-	1,50
315*	-	-	-	1,60
355**	330	295	263	2,70
400**	330	295	263	3,30
450**	370	337	293	4,50
500**	370	337	293	5,00
560**	490	457	413	6,30
600**	490	457	413	6,70
630**	490	457	413	7,20

*manufactured with pressed inside parts
** Dampers of diameters bigger than 630 mm should be used as multi-plane dampers with a passage for a round duct DASQL.

Description

Construction of the DASL cut-off damper with the rubber gasket EPDM on a flange enables using it for insulation thickness up to 50 mm. The DASL cut-off damper can be used always, when a fully air- tight closing is required. A position of the damper's plane is visible on a holder within a range 0° up to 90°. The damper's plane can be fixed by means of a bolt. For each damper DASL 355 including the diameter of the center is made of extra reinforcement.
For each diameter of the dampers DASL 450 is attached mechanism including KIT-DS-H.
Normally made of galvanized steel.

Example identification

Product code: **DASL - aaa**

type
$Ød_1$

Ventilation dampers

The shut-off dampers
DASL-CV

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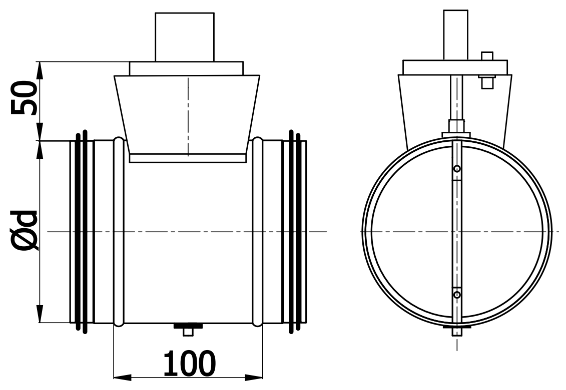
Description

DASL-CV damper with EPDM rubber washer on the flange is intended to accomodate up to 50 mm of insulation, DASL-CV damper may be used wherever a full and tight seal is not required. Damper blade angle is visible on the handle in the 0° to 90° range. Damper blade may be locked in place with a screw
DASL-CV damper is easily adapted for use with Belimo servomotors. In such a case, the ordered servomotor must be adapted to the 8x8 mm square rod.
Finish with safety edges

Example identification
Product code: **DASL-CV - aaa**

type
$\varnothing d_1$

Dimensions



$\varnothing d_1$ nom [mm]	weight [kg]
80	0,40
100	0,45
125	0,55
140	0,60
150	0,65
160	0,70
180	0,75
200	0,80
224	0,90
250	1,20
280	1,40
300	1,50
315	1,60
355	2,00
400	2,60

The shut-off dampers

DAS

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Description

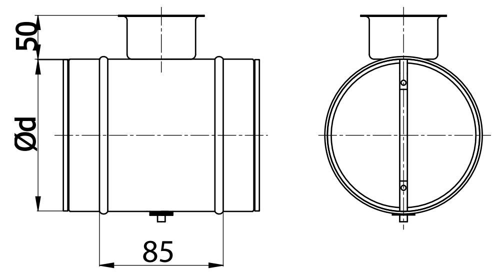
The DAS damper is designed so as to allow for up to 50 mm insulation thickness.
The DAS damper is applicable all there, where totally air-tight shut-off is not required. The damper plate position is visible on the handle in range of 0° to 90°. The damper plate can be locked with a screw. Finishes are made with safe edge.
For each damper DAS 355 including the diameter of the center is made with extra reinforcement.
For each diameter of the dampers DAS 450 is attached mechanism including KIT-DS-H.
Normally made of galvanized steel.

Example identification
Product code: **DAS - aaa**

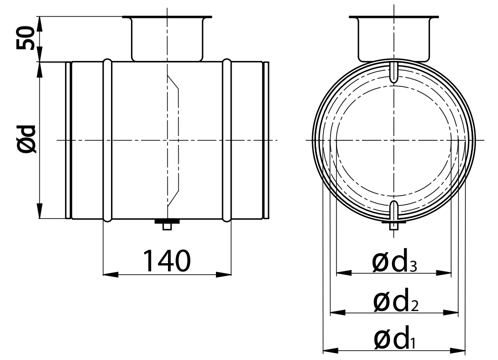
type
Ød_1

Dimensions

for d_1< 355 center of damper is mounted on two short rods



for d_1 ≥ 355 center of damper is mounted on a long rod



Ød nom [mm]	*Ød₁ nom [mm]*	*Ød₂ nom [mm]*	*Ød₃ nom [mm]*	*weight [kg]*
80*	-	-	-	0,40
100*	-	-	-	0,45
125*	-	-	-	0,55
140*	-		-	0,60
150*	-	-	-	0,65
160*	-	-	-	0,70
180*	-	-	-	0,75
200*	-	-	-	0,80
224*	-	-	-	0,90
250*	-	-	-	1,20
280*	-	-	-	1,40
300*	-	-	-	1,50
315*	-	-	-	1,60
355**	330	295	263	2,70
400**	330	295	263	3,30
450**	370	337	293	4,50
500**	370	337	293	5,00
560**	490	457	413	6,30
600**	490	457	413	6,70
630**	490	457	413	7,20

*manufactured with pressed inside parts
** Dampers of diameters bigger than 630 mm should be used as multi-plane dampers with a passage for a round duct DASQ.

The shut-off dampers
DAS-CV

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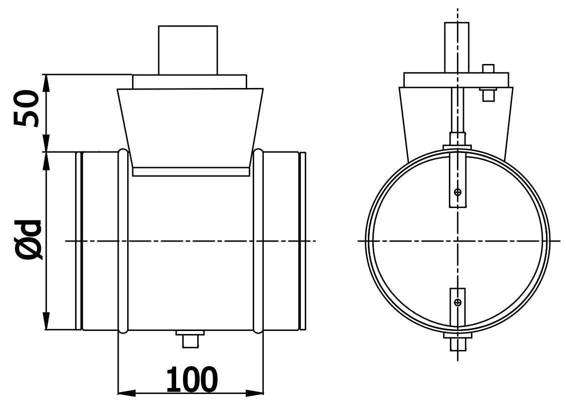
Description

DAS-CV damper is intended to accomodate up to 50 mm of insulation,
DAS-CV damper may be used wherever a full and tight seal is not required. Damper blade angle is visible on the handle in the 0° to 90° range. Damper blade may be locked in place with a screw
DAS-CV damper is easily adapted for use with Belimo servomotors. In such a case, the ordered servomotor must be adapted to the 8x8 mm square rod.
Finish with safety edges

Example identification
Product code: **DAS-CV - aaa**

typ
$\varnothing d_1$

Dimensions



$\varnothing d_1$ nom [mm]	weight [kg]
80	0,40
100	0,46
125	0,55
140	0,60
150	0,65
160	0,70
180	0,75
200	0,80
224	0,90
250	1,10
280	1,30
300	1,45
315	1,50
355	2,00
400	2,60

The shut-off dampers

DAS-PVC

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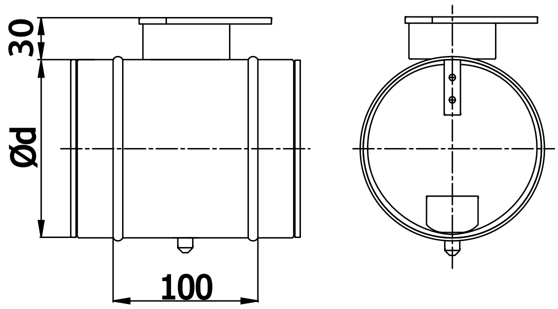
Dimensions



$Ød_1$ nom [mm]	weight [kg]
80	0,40
100	0,46
125	0,55
140	0,60
150	0,65
160	0,70
180	0,75
200	0,80
224	0,90
250	1,10
280	1,30
300	1,45
315	1,50

Description

The DAS-PVC damper construction enables to use up to 30 mm insulation.The DAS-PVC closing damper can be used everywhere if a tight closing is not required. Position of the damper plane is visible on a handle within 0° to 90°.
The damper plane can be fixed by means of a bolt. Ends are made with a safe edge.

Example identification
Product code: **DAS-PVC - aaa**

type
$Ød_1$

Ventilation dampers

Ventilation dampers

The shut-off dampers

DASH

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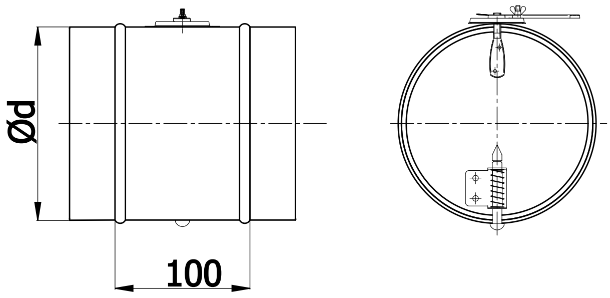
Dimensions



Ød1 nom [mm]	weight [kg]
80	0,4
100	0,4
125	0,5
140	0,6
150	0,6
160	0,7
180	0,7
200	0,8
224	0,9
250	1,2
280	1,4
300	1,5
315	1,6

Description

The DASH closing damper can be used everywhere if a tight closing is not required. Position of the damper plane is visible on a handle within 0° to 90°. The damper plane can be fixed by means of a bolt with a wing-nut weight.

Example identification

Product code: **DASH - aaa**

type

Ød_1

Airtight Shut-off Dampers
DATL/DAT

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Description

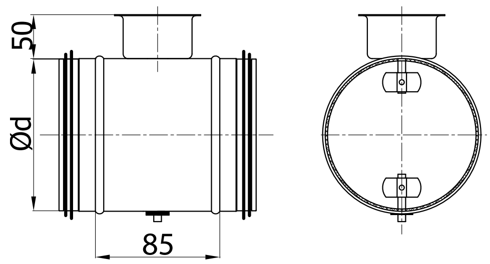
The DATL/DAT damper is designed so as to admit an insulation thickness of up to 50mm. The DATL/DAT damper is applicable wherever completely airtight shut-off is required. The damper blade can be adjusted on the handle within a range of 0° to 90°. The blade can be locked using a screw.
DAT – airtight shut-off damper
DATL – airtight shut-off damper with gaskets on flanges.
For each damper DATL/DAT 355 including the diameter of the center
is made with extra reinforcement.
For each diameter of the dampers DATL/DAT 450 is attached mechanism including KIT-DS-H.
Normally made of galvanized steel.

Example identification
Product code: **DATL - aaa**

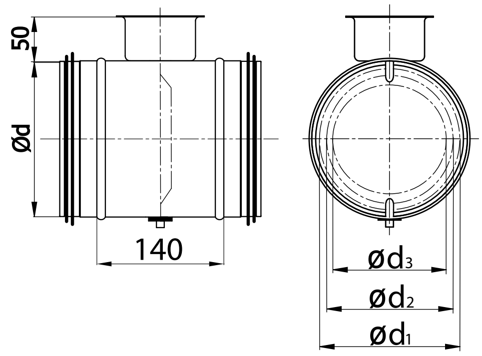
type
Ød_1

Dimensions

for $d_1 < 355$ center of damper is mounted on two short rods



for $d_1 \geq 355$ center of damper is mounted on a long rod



Ød nom [mm]	*Ød_1 nom [mm]*	*Ød_2 nom [mm]*	*Ød_3 nom [mm]*	*weight [kg]*
80	-	-	-	0,40
100	-	-	-	0,45
125	-	-	-	0,55
140	-		-	0,60
150	-	-	-	0,65
160	-	-	-	0,70
180	-	-	-	0,75
200	-	-	-	0,80
224	-	-	-	0,90
250	-	-	-	1,20
280	-	-	-	1,40
300	-	-	-	1,50
315	-	-	-	1,60
355*	330	263	295	2,70
400*	330	263	295	3,30
450*	370	337	293	4,50
500*	370	337	293	5,00
560*	490	457	413	6,30
600 *	490	457	413	6,70
630*	490	457	413	7,20

*performance with extra reinforcement

Ventilation dampers

Airtight Shut-off Dampers

DAP-CV

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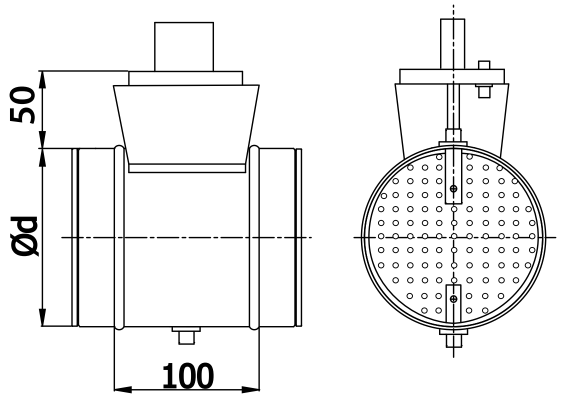
Description

DAP-CV damper is intended to accomodate up to 50 mm of insulation,
DAP-CV damper may be used wherever a full and tight seal is not required.
The perforated center of the damper guarantees even distribution of the air flow with no disturbance.
Damper blade angle is visible on the handle in the 0° to 90° range. Damper blade may be locked in place with a screw
DAP-CV damper is easily adapted for use with Belimo servomotors. In such a case, the ordered servomotor must be adapted to the 8x8 mm square rod.
Finish with safety edges
The closed position on the damper allows for 35% air flow.

Example identification
Product code: **DAP-CV - aaa**

typ
$Ød_1$

Dimensions



$Ød_1$ nom [mm]	*weight [kg]*
80	0,40
100	0,46
125	0,55
140	0,60
150	0,65
160	0,70
180	0,75
200	0,80
224	0,90
250	1,10
280	1,30
300	1,45
315	1,50
355	2,00
400	2,60

Airtight Shut-off Dampers

DAPL-CV

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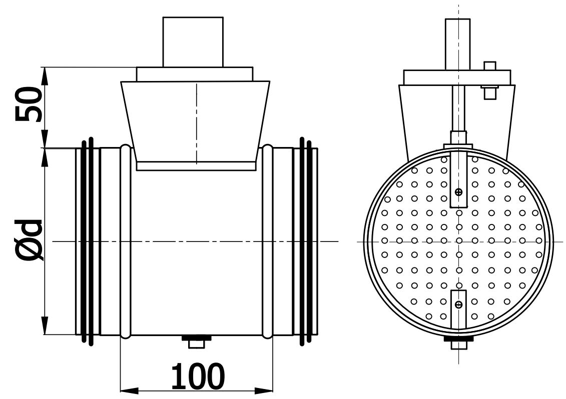
Description

DAPL-CV damper with EPDM rubber washer on the flange is intended to accomodate up to 50 mm of insulation, DAPL-CV damper may be used wherever a full and tight seal is not required.
The perforated center of the damper guarantees even distribution of the air flow with no disturbance.
Damper blade angle is visible on the handle in the 0° to 90° range.
Damper blade may be locked in place with a screw
DAPL-CV damper is easily adapted for use with Belimo servomotors. In such a case, the ordered servomotor must be adapted to the 8x8 mm square rod.
Finish with safety edges
The closed position on the damper allows for 35% air flow.

Example identification
Product code: **DAPL-CV - aaa**

typ
$Ød_1$

Dimensions



$Ød_1$ nom [mm]	*weight [kg]*
80	0,40
100	0,45
125	0,55
140	0,60
150	0,65
160	0,70
180	0,75
200	0,80
224	0,90
250	1,20
280	1,40
300	1,50
315	1,60
355	2,00
400	2,60

Back Draught Damper

DAOSL

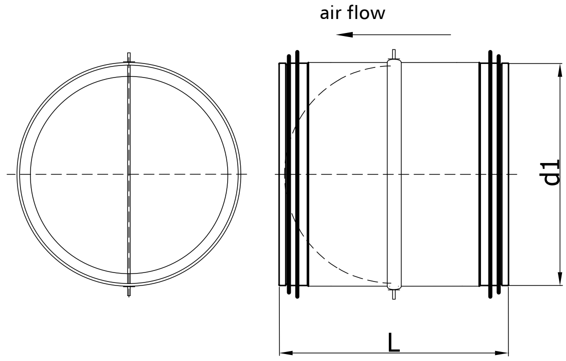
Description

The DAOSL damper has aluminium lamellae which open during the air flow in one direction and close when air is draught back. When no air is flowing, the lamellae are maintained in vertical position using a spring. The damper is supplied with double EPDM gasket.

Example identification
Product code: **DAOSL - aaa**

type
$\varnothing d_1$

Dimensions



∅d_1 rated [mm]	*L [mm]*	*weight [kg]*
80	74	0,4
100	74	0,5
125	74	0,6
150	74	0,7
160	74	0,8
200	74	1,0
250	114	1,9
315	114	2,4
355	184	3,0
400	184	3,4
450	234	4,0
500	234	4,5

* diameters of up to ø560mm are available upon request

Back Draught Damper
DAOS

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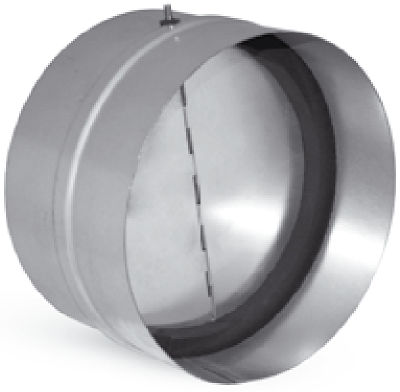


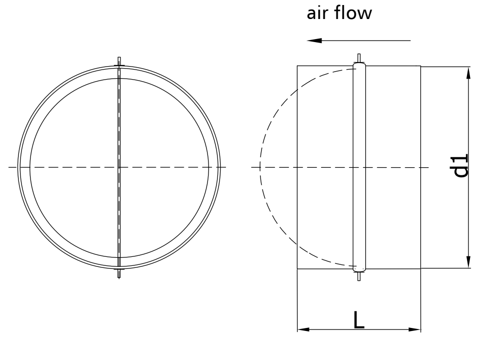
Description

The DAOS damper has aluminium lamellae which open during the air flow in one direction and close when air is draught back. When no air is flowing, the lamellae are maintained in vertical position using a spring.

Example identification
Product code: **DAOS- aaa**

type
$\varnothing d_1$

Dimensions



$\varnothing d_1$ rated [mm]	*L [mm]*	*weight [kg]*
80	88	0,4
100	88	0,5
125	88	0,6
150	88	0,7
160	88	0,8
200	88	1,0
250	128	1,9
315	128	2,4
355	198	3,0
400	198	3,4
450	248	4,0
500	248	4,5

* diameters of up to ø560mm are available upon request

Sliding Dampers
GKL/GK

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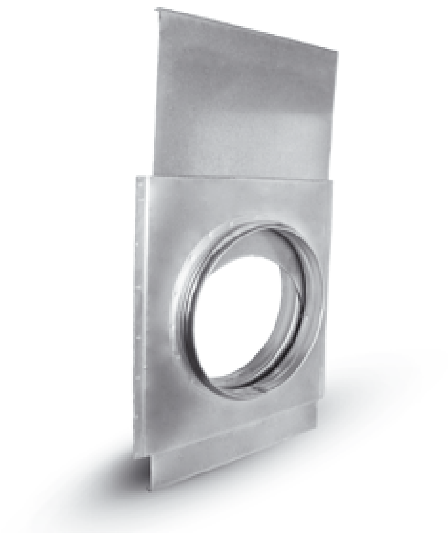


Description

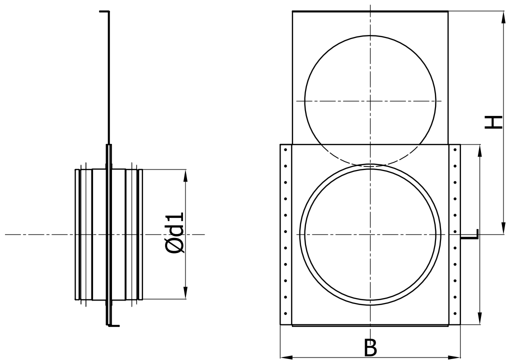
GKL – sliding damper with EPDM gasket.
GK – sliding damper without gasket.

No special restrictions are imposed on the installation of the manual sliding damper, which is used to shut off tightly or only throttle the air flow.

Example identification
Product code: **GKL - aaa**

type
$\varnothing d_1$

Dimensions



$\varnothing d_1$ rated [mm]	L [mm]	B [mm]	H [mm]	weight [kg]
80	140	140	170	0,4
100	180	180	210	0,6
125	200	200	240	0,7
140	210	210	265	0,9
150	220	220	270	0,9
160	220	220	285	1,0
180	280	280	350	1,1
200	300	300	360	1,3
224	320	320	400	1,5
250	350	350	440	1,9
280	360	360	480	2,0
300	400	400	540	2,3
315	400	400	540	2,7

Alternating dampers
DATVTL

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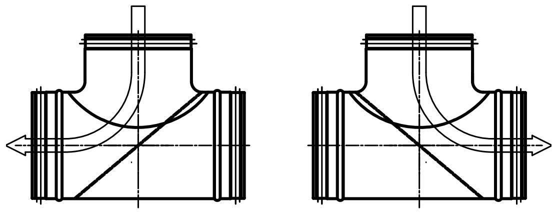
Description

The alternating dampers replace two standard dampers, a T-piece and couplings.
Manual alternating damper. Also available as DATVSL, without blade sealing.

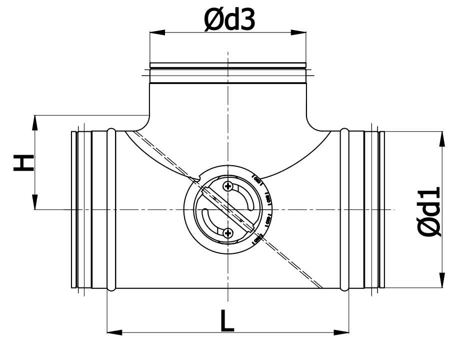
Example identification
Product code: **DATVTL- aaa**

type
$\varnothing d_1$

Dimensions



Dimensions



$\varnothing d_1$ rated [mm]	*$\varnothing d_3$ rated [mm]*	*L [mm]*	*H [mm]*	*weight [kg]*
100	100	151	65	0,8
125	125	184	83	1,1
160	160	229	105	1,7
200	200	281	125	2,2
250	250	307	150	3,4
315	315	390	182	4,9

Alternating Dampers

DATVTL

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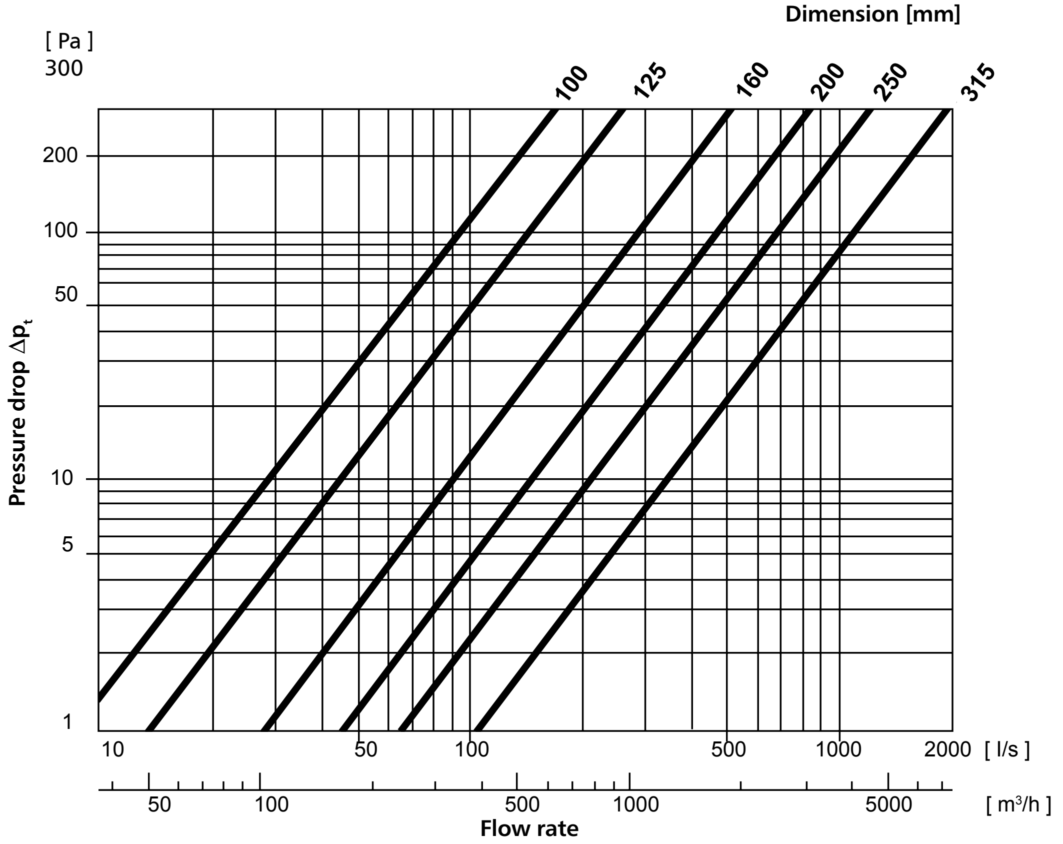
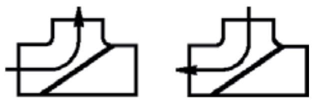
Technical Data





Alternating Dampers

DATASL

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Ventilation dampers

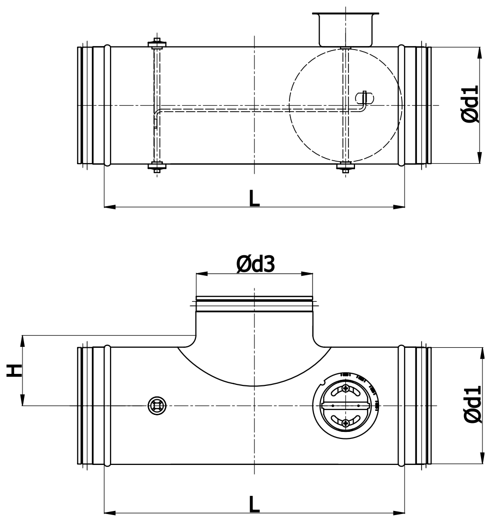
Description

The alternating damper consists of an extended T-piece and two integrated DASL dampers. The alternating dampers replace two standard dampers, a T-piece and couplings, but in addition they are shorter by 20-30%.

Example identification
Product code: **DATASL - aaa - bbb**

type
∅d_1
∅d_3

Dimensions



Dimensions

∅d_1 rated [mm]	∅d_3 rated [mm]	L [mm]	H [mm]	weight [kg]
100	100	280	65	1,1
125	125	345	83	1,5
160	160	385	105	2,0
200	200	425	125	2,8
250	250	520	150	4,1
315	315	585	182	5,9
400	400	645	225	8,3

Airtight Alternating Dampers
DATATL

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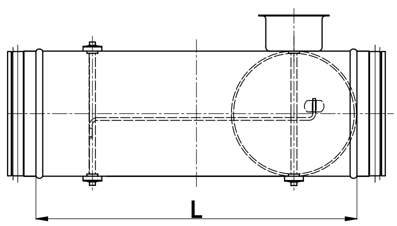
Description

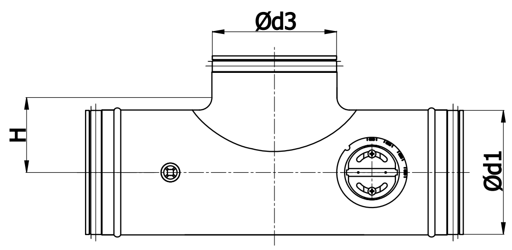
The type 3 airtight alternating damper consists of an extended T-piece and two integrated DATL dampers. The alternating dampers replace two standard dampers, a T-piece and couplings, but in addition they are shorter by 20-30%.

Example identification
Product code: DATATL- **aaa** - **bbb**

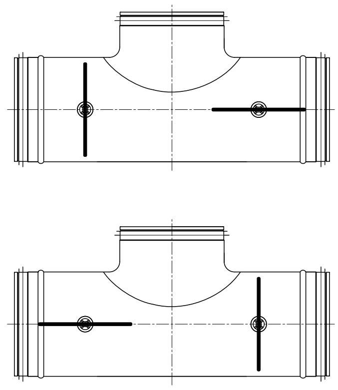
type
Ød_1
Ød_3

Dimensions





Dimensions



Ød_1 rated [mm]	*Ød_3 rated [mm]*	*L [mm]*	*H [mm]*	*weight [kg]*
100	100	280	65	1,1
125	125	345	83	1,5
160	160	385	105	2,0
200	200	425	125	2,8
250	250	520	150	4,1
315	315	585	182	5,9
400	400	645	225	8,3

Alternating Dampers

DATASL/DATATL

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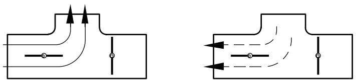
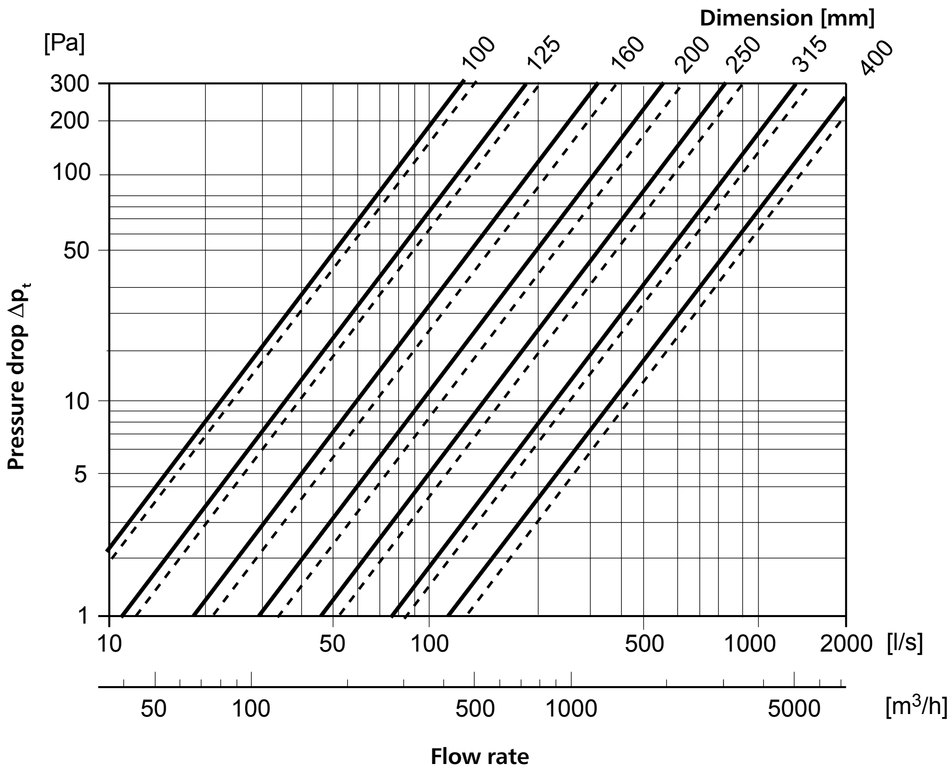
Technical Data



The curves below show pressure loss for a particular flow direction.



Ventilation dampers

Regulating Dampers for Servomotor
DASML/DASM

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Description

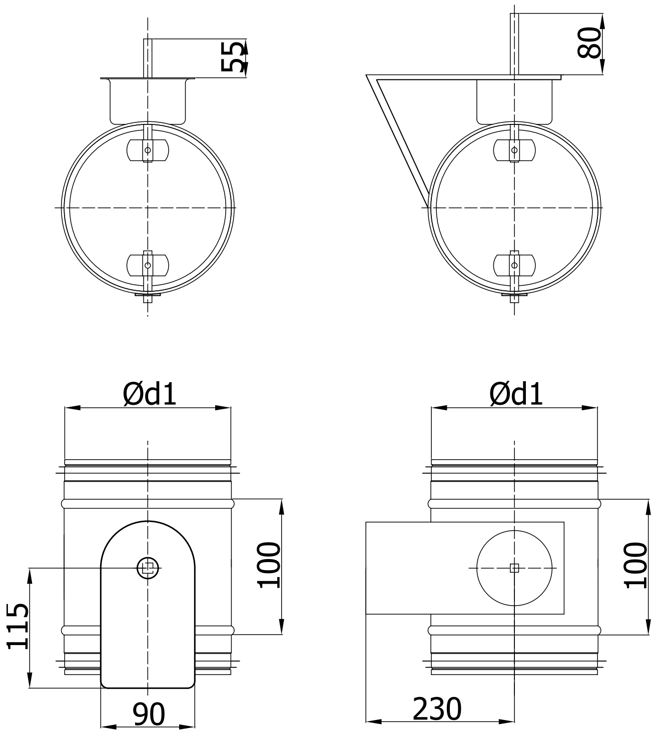
Dampers with servomotor shelf, available in sizes from Ø80 to Ø630mm, including sizes in between. The servomotor shelf is installed so as to admit an insulation thickness of up to 50mm. DASML/DASM dampers can be employed wherever completely airtight shut-off is not required.
The setting angle can be adjusted using a mechanical end stop screw fitted directly onto the servomotor.
If the damper is to be operated outdoors, the motor should be protected against UV radiation and precipitation.
It is possible to use various servomotors with each of the dampers – see page 440.

DASM – shut-off damper for servomotor.
DASML – shut-off damper for servomotor, with gaskets on flanges.

Example identification
Product code: **DASML -aaa - bbb - ccc**

type
$\varnothing d_1$
type of installation
type of servomotor

Dimensions



$\varnothing d_1$ rated [mm]	*weight [kg]*
80	0,6
100	0,7
125	0,8
160	0,9
200	1,1
250	1,4
315	1,7
355	2,2
400	2,7
450	3,7
500	4,3
560	5,0
630	5,8

Airtight Dampers for Servomotor
DATML/DATM

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Description

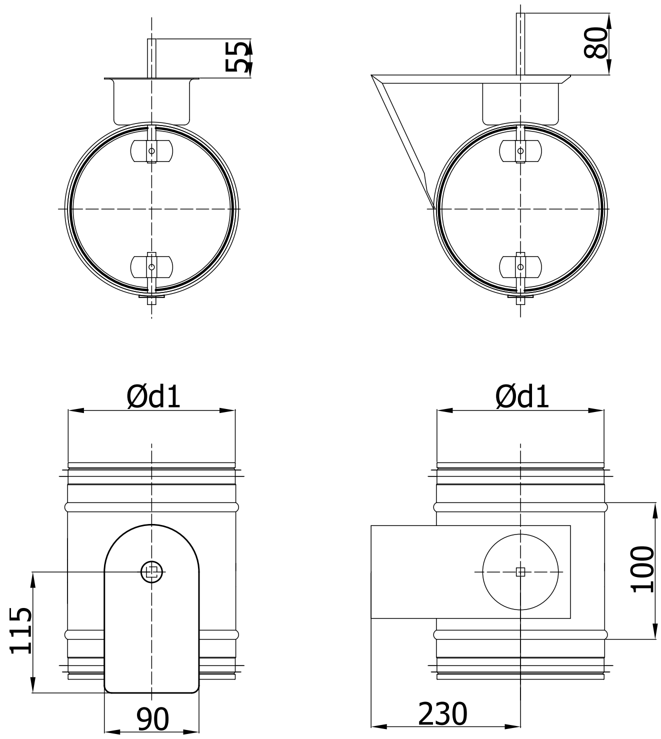
Dampers with servomotor shelf, available in sizes from Ø80 to Ø630mm, including sizes in between. The servomotor shelf is installed so as to admit an insulation thickness of up to 50mm. DATML/DATM dampers can be employed wherever completely airtight shut-off is not required.
The setting angle can be adjusted using a mechanical end stop screw fitted directly onto the servomotor.
If the damper is to be operated outdoors, the motor should be protected against UV radiation and precipitation.
It is possible to use various servomotors with each of the dampers – see page 440.

DATM – shut-off damper for servomotor.
DATML – shut-off damper for servomotor, with gaskets on flanges.

Example identification
Product code: **DATML- aaa -ccc- bbb**

type
$Ød_1$
type of installation
type of servomotor

Dimensions



$Ød_1$ rated [mm]	*weight [kg]*
80	0,6
100	0,7
125	0,8
160	0,9
200	1,2
250	1,5
315	1,8
355	2,3
400	2,8
450	3,8
500	4,5
560	5,2
630	6,0

Alternating Dampers for Servomotor
DATVTML

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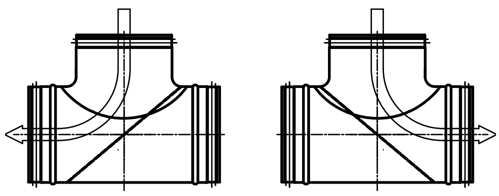
Description

The alternating dampers replace two standard dampers, a T-piece and couplings, but in addition they are shorter by 20-30%.

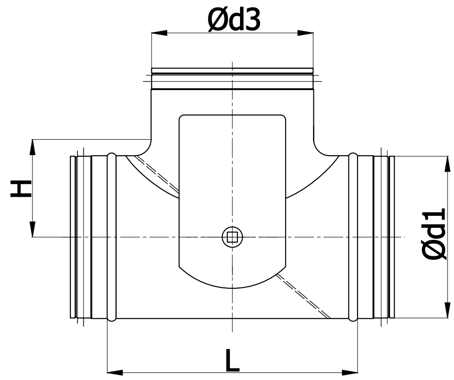
DATVTML
The damper is driven by electric servomotor.
To select the right servomotor, see page 440.

Example identification
Product code: **DATVTML - aaa - bbb**

type
$\varnothing d_1$
type of servomotor



Dimensions



$\varnothing d_1$ rated [mm]	*$\varnothing d_3$ rated [mm]*	*L [mm]*	*H [mm]*	*weight [kg]*
100	100	150	65	0,8
125	125	184	83	1,1
160	160	229	105	1,7
200	200	281	125	2,2
250	250	307	150	3,4
315	315	390	182	4,9

Airtight Alternating Dampers for Servomotor
DATATML

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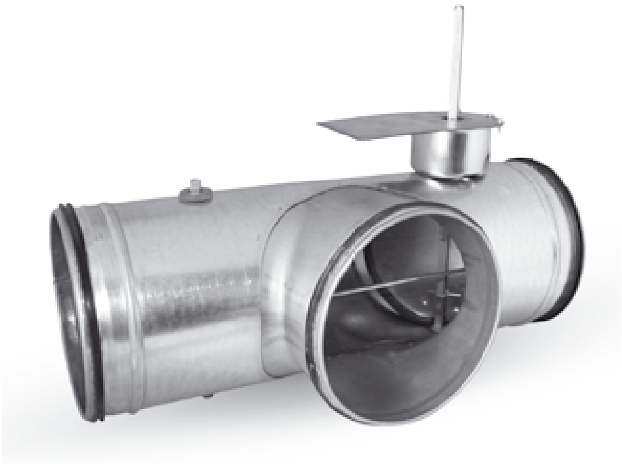


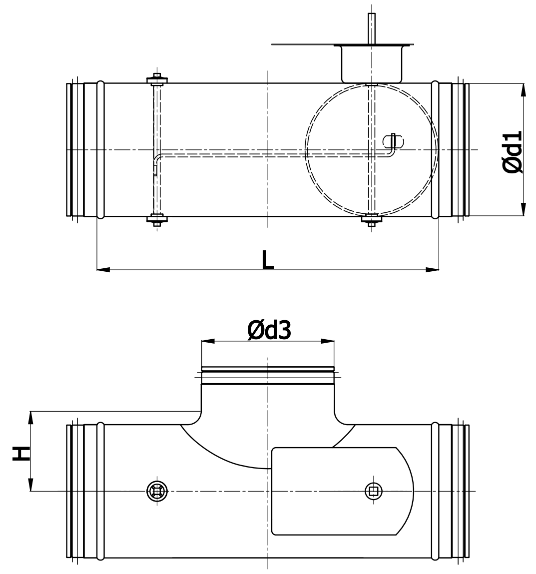
Description

The airtight alternating damper consists of an extended T-piece and two integrated DATL dampers. The alternating dampers replace two standard dampers, a T-piece and couplings, but in addition they are shorter by 20-30%. The damper is driven by electric servomotor.
To select the right servomotor, see page 440.

Example identification
Product code: **DATATML - aaa - bbb**

type
$\varnothing d_1$
$\varnothing d_3$

Dimensions



$\varnothing d_1$ rated [mm]	$\varnothing d_3$ rated [mm]	L [mm]	H [mm]	weight [kg]
100	100	280	65	2,0
125	125	345	83	2,4
160	160	385	105	3,0
200	200	425	125	3,9
250	250	520	150	5,2
315	315	585	182	7,4
400	400	645	225	10,6

Iris Damper with Flow Meter

GBL

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Description

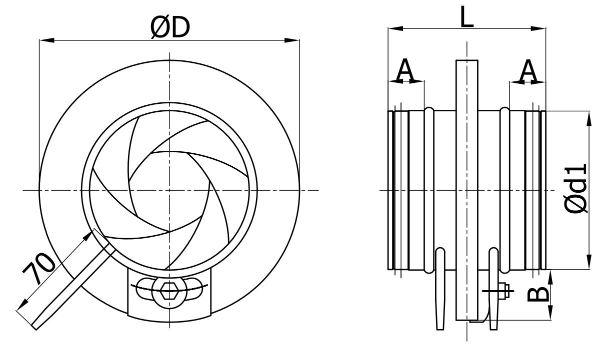
The GBL damper is used to control smoothly the air flow in the ventilation duct. With a lens-like closure, throttling does not cause whirls or noise in the duct.

Example identification

Product code: **GBL - aaa**

type
$\varnothing d_1$

Dimensions



$\varnothing d_1$ rated [mm]	*ØD [mm]*	*L [mm]*	*A [mm]*	*B [mm]*	*weight [kg]*
80	125	110	30	22	0,5
100	165	110	30	32	0,5
125	188	110	30	32	0,7
150	230	210	40	40	1,3
160	230	110	30	35	0,9
200	285	110	30	42	1,4
250	335	135	40	42	2,1
315	410	135	40	47	3,5
400	525	190	60	62	6,4
500	655	170	50	77	9,6
630	815	170	50	92	15,6
800	1015	270	100	107	25,0

Iris Damper with Flow Meter

GBL

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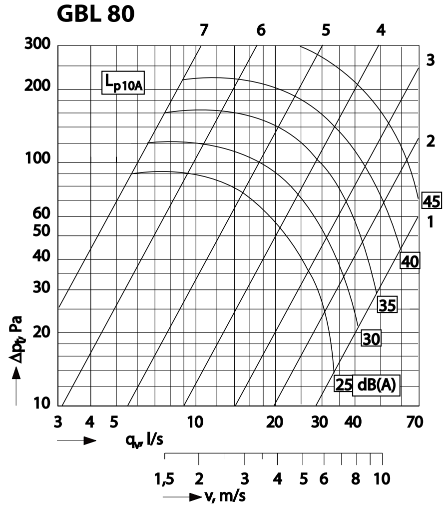
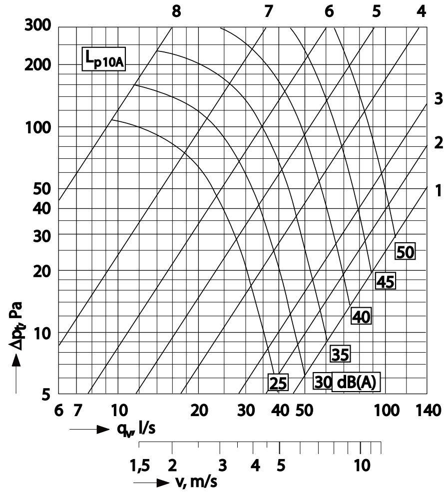
Technical Data

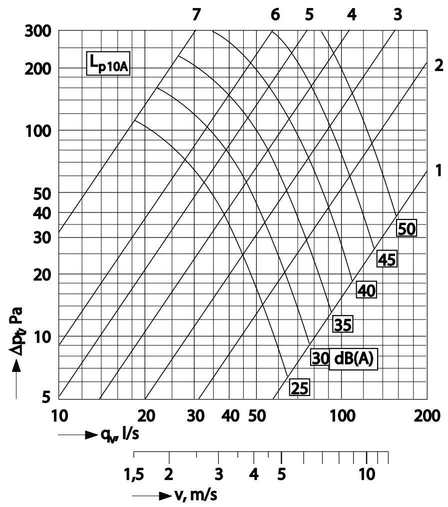
GBL 80



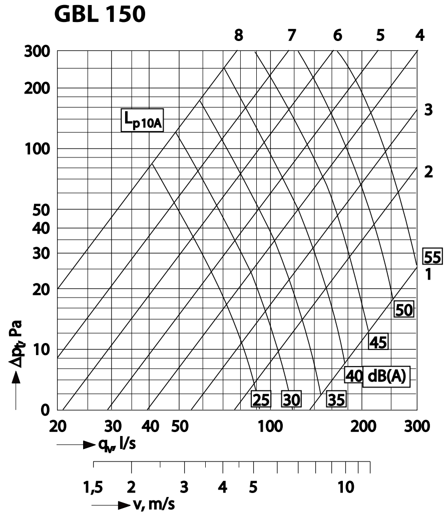
GBL 100



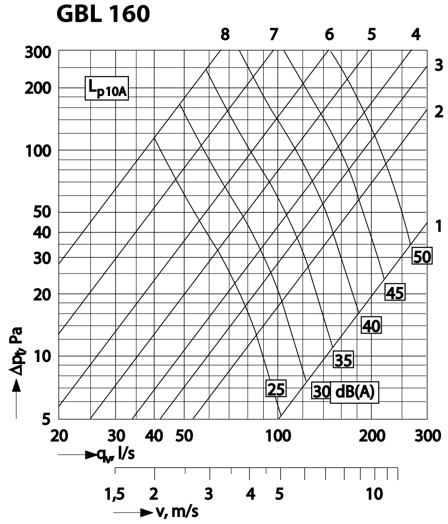
GBL 125



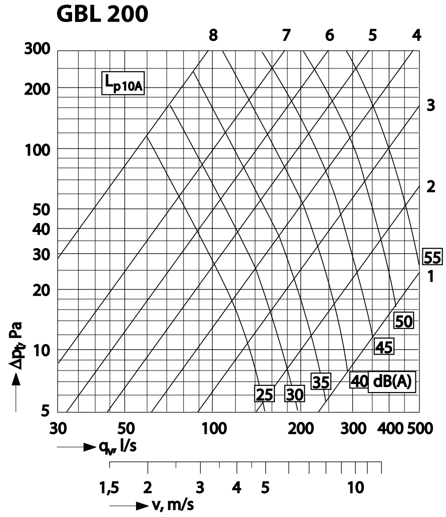
GBL 150



GBL 160



GBL 200



Iris Damper with Flow Meter

GBL

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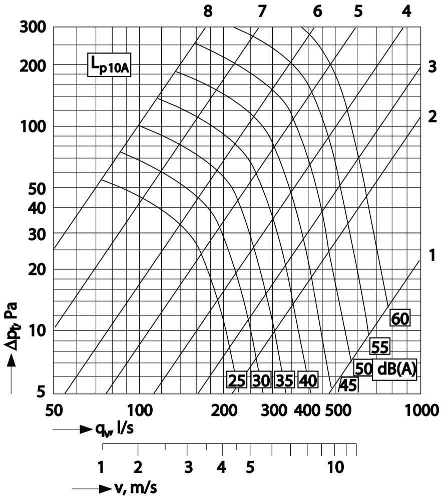
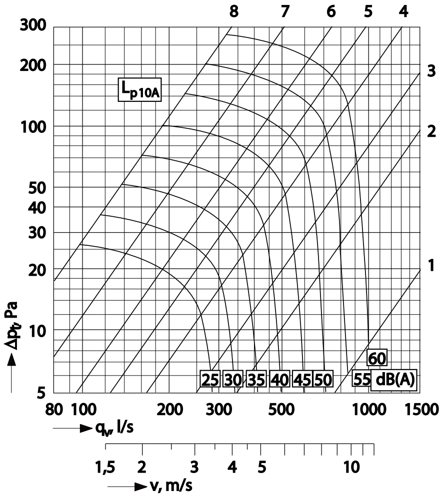
Technical Data

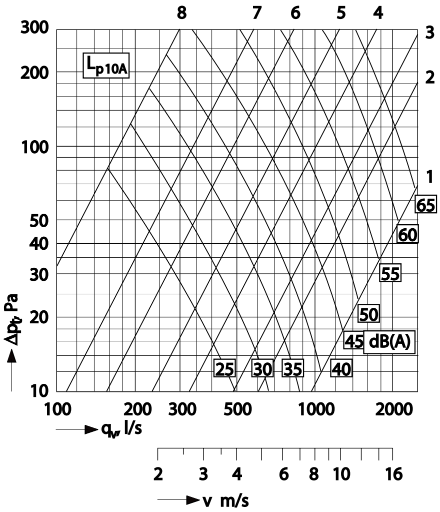
GBL 250



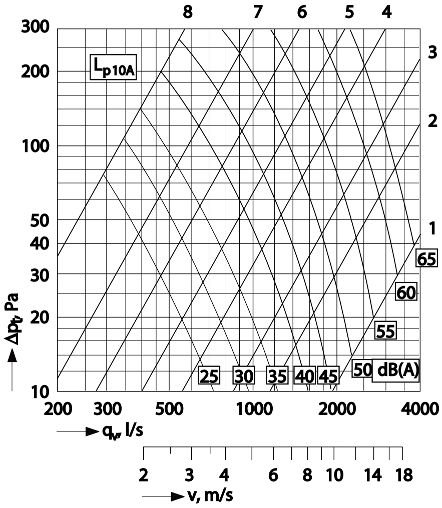
GBL 315



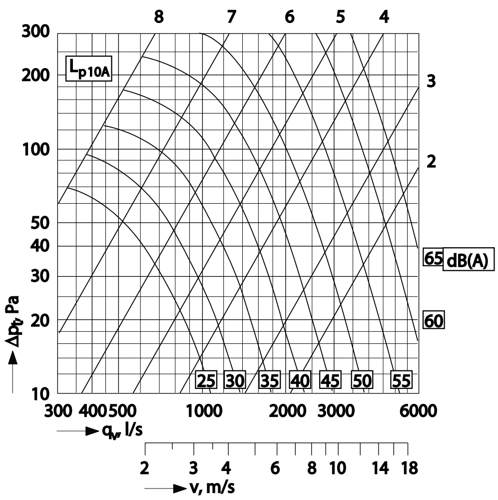
GBL 400



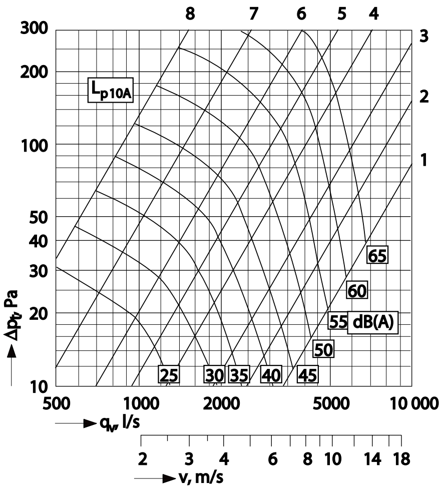
GBL 500



GBL 630



GBL 800



Pt (Pa) - loss of pressure
LA (dB (A)) - sound pressure level
qv (l / s) - the volumetric flow
V (m / s) - flow rate

Iris Damper with Flow Meter for Servomotor

GBLM

Description

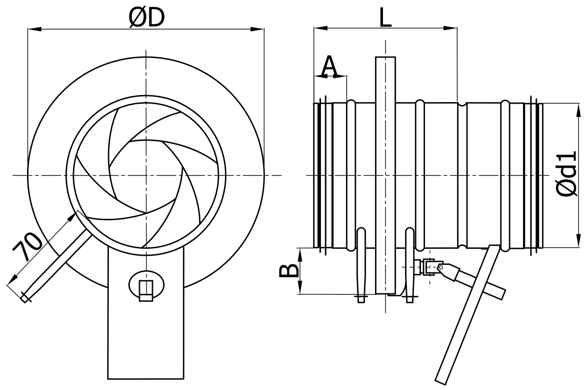
GBLM damper fluid is used to adjust the air pressure in the air duct. This is possible thanks to the special design enables seamless transition throttle bore. In addition, with a lenticular closing, throttling does not cause turbulence and noise in the duct.
GBLM damper can be used both in the exhaust pipes and intake. In addition, is equipped with two ends which allow connection to the measuring device an air flow rate. Lenticular GBLM damper for easy cleaning air ducts.

Servomotors:
LU24A-MF - control 0-10V analog (continuously variable).
CM24 or CM230 - control open / close. uct.

Example identification
Product code: **GBLM** - **aaa**

type
Ød$_1$

Dimensions



Ød$_1$ nom [mm]	*ØD [mm]*	*L [mm]*	*A [mm]*	*B [mm]*	*weight [kg]*
80	125	110	30	22	0,5
100	165	110	30	32	0,5
125	188	110	30	32	0,7
150	230	210	40	40	1,3
160	230	110	30	35	0,9
200	285	110	30	42	1,4
250	335	135	40	42	2,1
315	410	135	40	47	3,5

Steel Multi-Blade Damper

DASQ/DASQL/DASQM/DASQML

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Description

The aluminium multi-blade damper is used to control or shut off the air flow in ventilation ducts.
It can be installed in an air-conditioning station, on the wall or in ventilation ducts.
Working temperature range: -20°C to +80°C.
The housing and blades are made of aluminium profiles.
The damper consists of 100mm high blades and a housing accommodating four profiles.
The blades are furnished with PPC seals that ensure high air tightness. The blade height is identical for each damper size.
The damper can be operated manually, driven by an external servomotor, or prepared for servomotor installation.
If dimension B lies within 1000-2000 and A ≥ 1000, two manual control mechanisms are provided. Dampers are split when A ≥ 1400.
Damper adjustments are carried out using gears driven manually or by servomotor. The gears are housed in the side profile.
The drive mechanism is placed inside the profile.
The standard version comes with aluminium profiles.
Multi-Blade Damper is available in tightness class B.

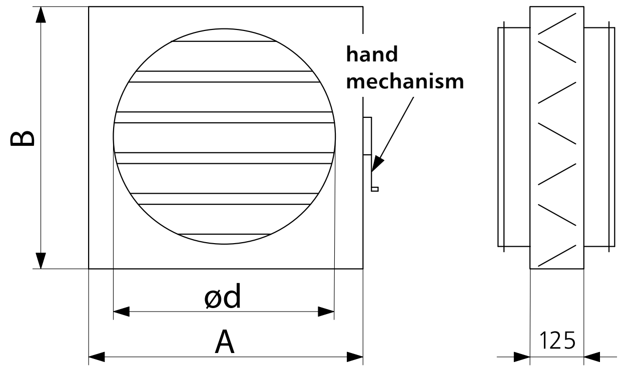
Example identification

Product code: **DASQL 800**

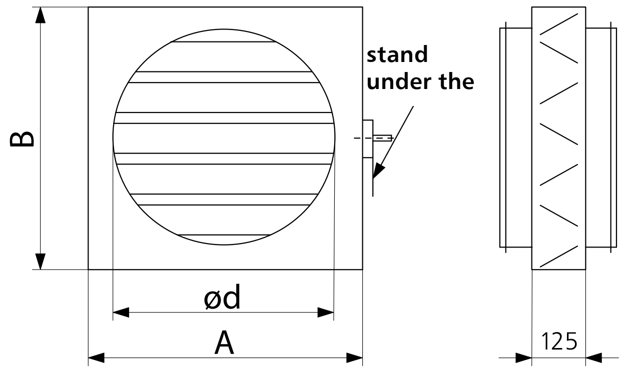
typ — DASQL
ød — 800

Dimensions

DASQ, DASQL



DASQM, DASQML



Ød [mm]	A [mm]	B [mm]
400	505	505
450	505	505
500	605	605
560	605	605
630	705	705
710	805	805
800	905	905
900	1005	1005
1000	1105	1105
1120	1205	1205
1250	1305	1305

Steel Single-Blade Damper

DSQ

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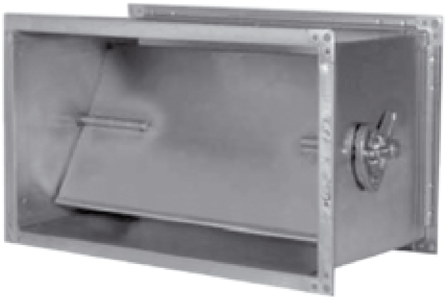


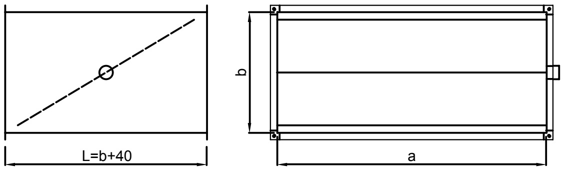
Description

The single-blade damper is used to control or shut off the air flow in ventilation ducts. The blade is stiffened with transverse sheet corrugation, depending on the size.
It is possible to lock the position of blade by two locking screws.
The standard version of DSQ is manual mechanism.
For dimensions A and B ≤ 300 is mounted mechanism DS-KIT-PVC. For other dimensions is mounted KIT-DS mechanisms.
Standard length:
L=200 for B ≤ 300
L=250 for 300 < B ≤ 500
L=300 for 500 < B ≤ 700

Example identification
Product code: **DSQ 600 400**

type
a
b

Dimensions



The control mechanism is fitted onto side b

Ventilation dampers

Steel Multi-Blade Damper

DSQW

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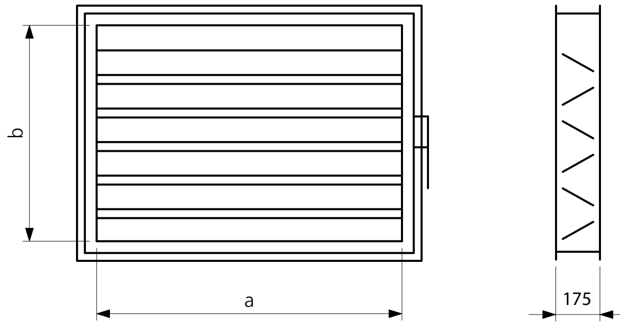
Dimensions



Description

Multi-blade damper DSQW is used to control or close the air flow in ducts.
It can be installed both in system ventilation and in the heat recovery unit.
The damper comprises a housing consisting of four frame sections PQ Finished zinc and aluminum pens. The amount of feathers is the same for each dimension of the throttle.
DSQW dampers can be controlled manually by a mechanism, an actuator on the outside of or prepared for mounting the actuator. The drive mechanism is located on the outside of the damper. Feathers rotating mechanism is composed of short axis, long series of gears mounted on bearings. The gears are on the outside valve.
If the dimension B is in the range 1000-2000, while the dimension A ≥ 1000 takes place using two mechanisms hand.
Dampers are divided executed when A ≥ 1400.
Operating temperature range: -20 ° C to +80 ° C.

Example identification

Product code: **DSQW 600 300**

type — DSQW
a — 600
b — 300

** Products are not available on the German market*

Aluminium Multi-Blade Damper

DSQW-A

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Description

Aluminum Multi-blade damper DSQW-A is used to control or close the air flow in ducts.
It can be installed both in system ventilation and in the heat recovery unit.
The damper comprises a housing consisting of four aluminum profiles and aluminum pens. The amount of feathers is the same for each dimension of the throttle.
Pens are equipped with seals provide 2 Degree of protection acc. EN 1751:2003.
DSQW-A dampers can be controlled manually by a mechanism, an actuator on the outside of or prepared for mounting the actuator. The drive mechanism is located on the outside of the damper. Feathers rotating mechanism is composed of short axis, long series of gears mounted on bearings. The gears are on the outside valve.
If the dimension B is in the range 1000-2000, while the dimension A ≥ 1000 takes place using two mechanisms hand.
Dampers are divided executed when A ≥ 1400.
Operating temperature: -20 ° C to +80 ° C

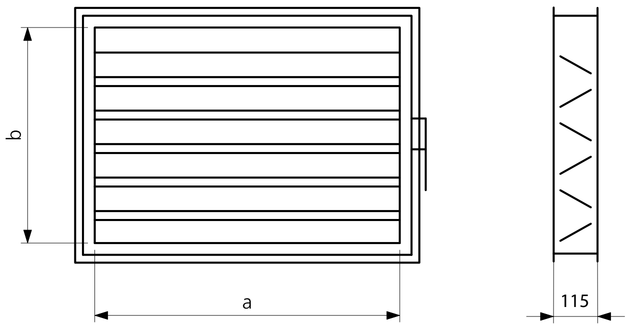
Note:
The manufacturer recommends matching dimension „b" in such a way as to correspond to multiples of 100mm. Otherwise, the throttle DSQW-A did not maintain a Class 2 leaks.

Example identification
Product code: **DSQW-A 600 300**

type
a
b

** Products are not available on the German market*

Dimensions



Ventilation dampers

Multiblade self-closing aluminum damplers

DSQW-A

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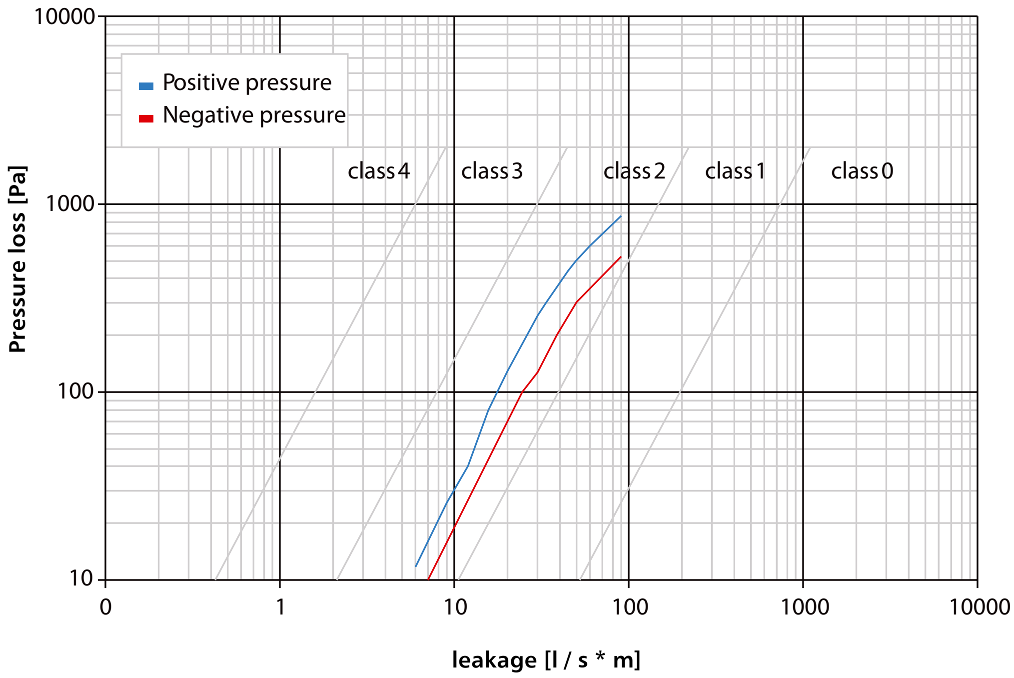
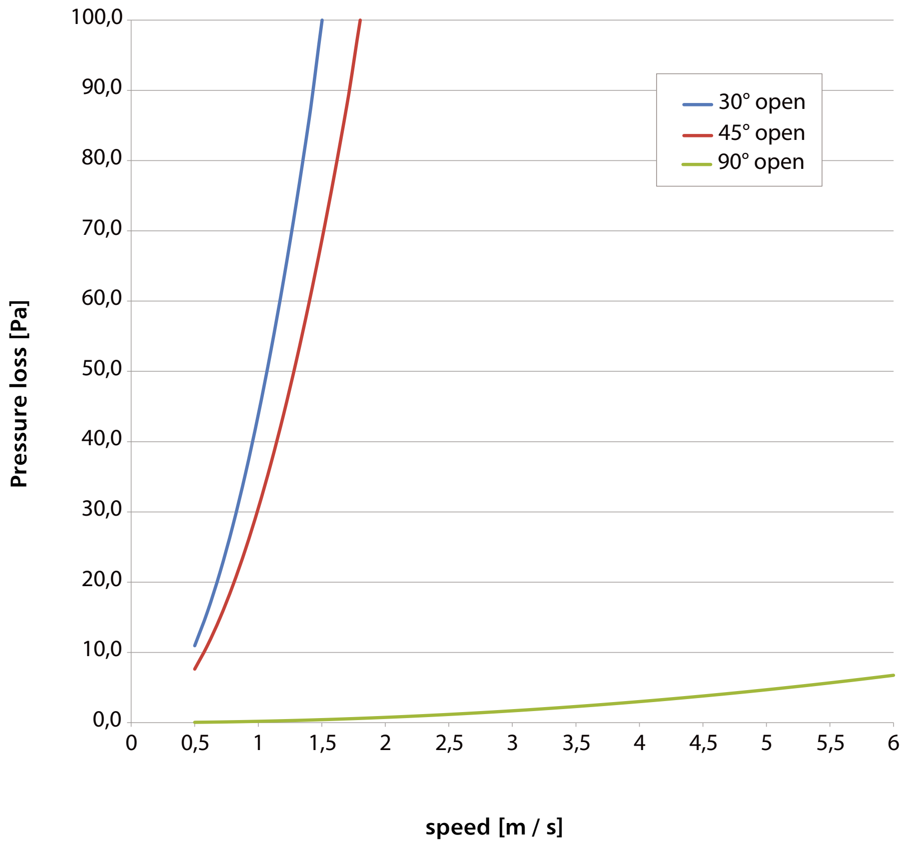
Dane techniczne

Tightness graph as per EN 1751:2003



Pressure drop chart



Multiblade self-closing aluminum damplers
DSQOW-A

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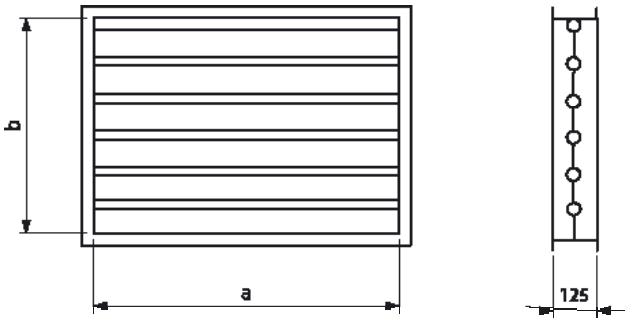
Ventilation dampers

Dimensions



Description

Self-closing aluminum multiblade damper can be used to adjust pressure in the ventilation system. Special blades allow the air to automatically flow outside as pressure builds up. This guarantees that there is no overpressure in the installation. Damper casing and blades are made of aluminum profiles. The damper consists of a casing made of 4 profiles identical to the DSQW-A multiblade damper model. Additionally, lower and upper wall is fitted with a EPDM rubber gasket. DSQOW-A damper is fitted with movable, 80 mm high aluminum blades. Blade height is identical for all damper sizes. Bearing mechanism for the blades in in the side profiles.
Dampers with partitions are used when
$A \geq 1400$ as per the following guidelines:
one partition when $1400 < A \leq 2100$
more than one partition for $A > 2100$.
Working temperature range:–20° to +80°C.

Example identification
Product code: **DSQOW-A 600 300**

type
a
b

** Products are not available on the German market*

Multiblade self-closing aluminum dampers

DSQOW-A

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Technical data

Pressure drop chart