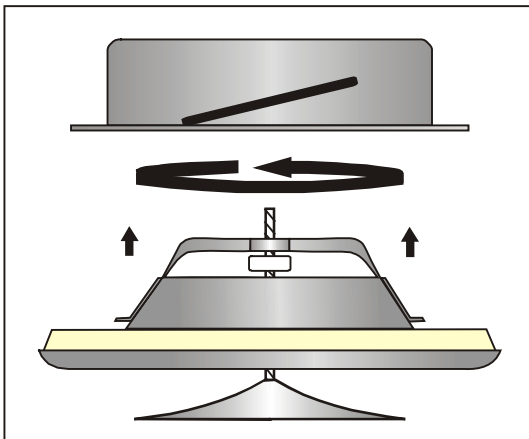


SUPPLY AIR VALVE DVS-P

TECHNICAL DATA

DVS-P is a supply air valve suitable for houses, offices etc.

- Good adjusting features
- Low noise level
- Quick and easy to install
- Airflow easy to measure



CONSTRUCTION

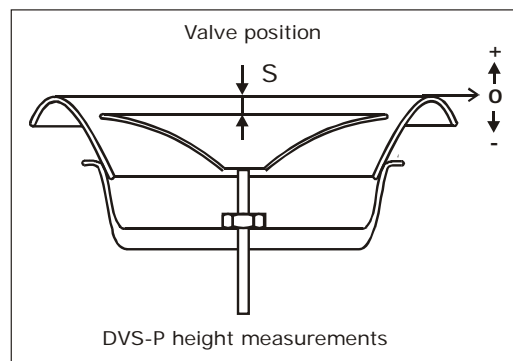
The **DVS-P** is manufactured from steel sheet, powder coated. Standard color white (RAL 9010). Other color finishes are available to special order quantity. The valve body has a gasket, made of cellular plastic and the control disc, with screw spindle, enables easy positional locking.

Fixing collar **DVS-F** is manufactured from galvanized steel sheet.

REGULATION AND MEASUREMENTS

Regulation of airflow is achieved by turning the control disc to change adjustment dimension s (mm). The measurement of airflow is made by a pressure difference measurement with a separate measuring tube.

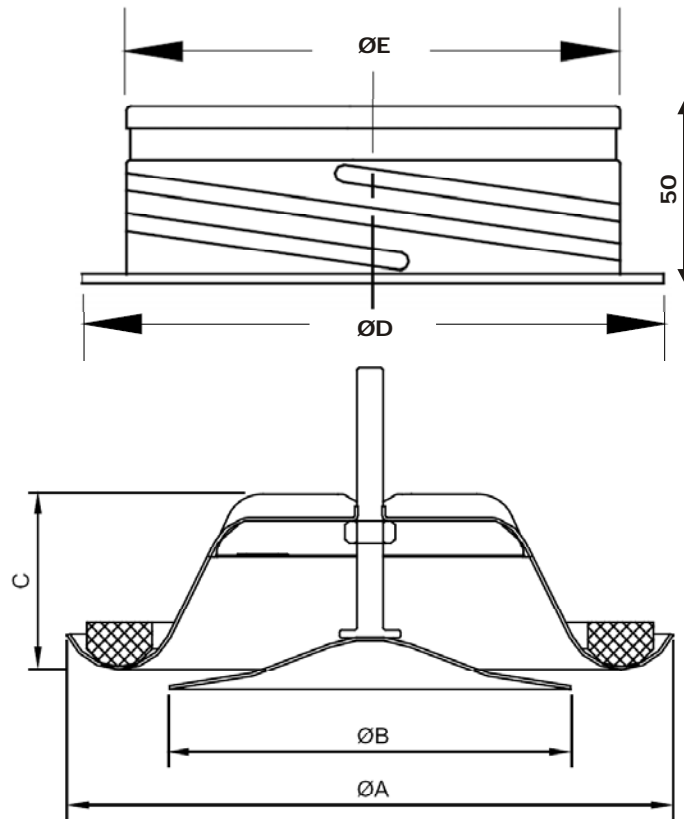
Refer to airflow measurement diagrams for information.



ORDER EXAMPLE: Powder coated valve *including* fixing collar DVS-F
Product: DVS-P
Size: 080
CODE: DVSP 080

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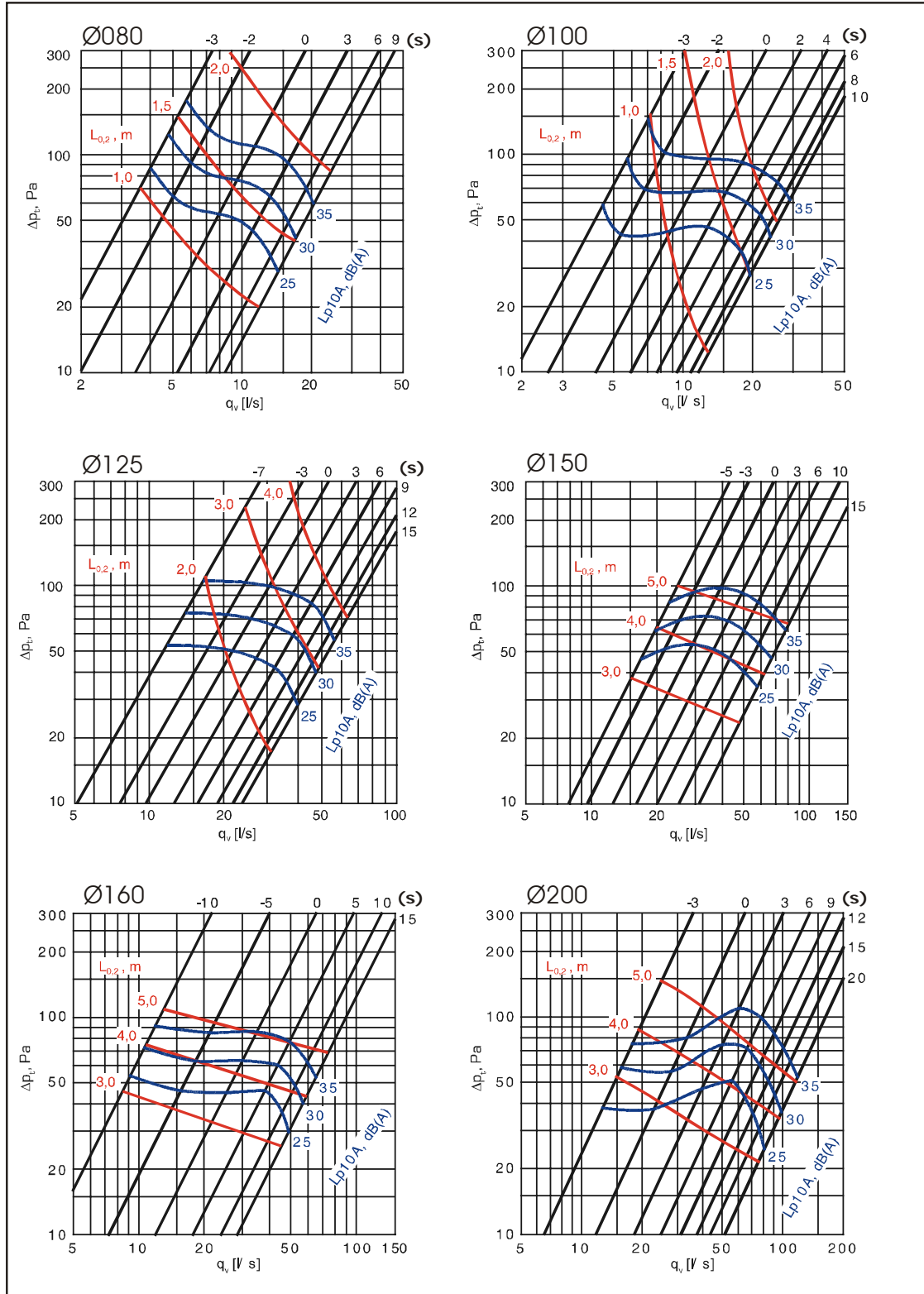
Version 2006 www.decinternational.com



DIMENSIONS IN MILLIMETRES

DVS-P	Ø080	Ø100	Ø125	Ø150	Ø160	Ø200
A	116	140	170	202	202	254
B	76	92	111	135	135	194
C	40	40	46	54	54	64
Weight	150 gr	170 gr	230 gr	340 gr	340 gr	550 gr
D	105	125	150	175	185	225
E	79	99	124	149	159	199
Weight	80 gr	100 gr	120 gr	180 gr	190 gr	240 gr

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SOUND POWER LEVEL L_w

DVS-P	CORRECTION K_{oct} (dB)						
	Middle frequency by octave band (Hz)						
	125	250	500	1000	2000	4000	8000
080	2	2	1	0	-3	-9	-17
100	7	3	2	-2	-6	-14	-30
125	3	6	4	-3	-11	-21	-37
150	7	5	3	-2	-10	-20	-34
160	6	7	3	-3	-11	-27	-34
200	7	6	3	-2	-10	-25	-34
Tol. ±	3	2	2	2	2	2	3

Sound power levels by octave bands are obtained by adding to total sound pressure level L_{p10A} , dB(A) the corrections K_{oct} presented in the table according to the following formula:

$$L_{Woct} = L_{p10A} + K_{oct}$$

Correction K_{oct} is average value in range of use of DVS-P unit.

DEFINITIONS

q_v	air volume	(m ³ /h)
Δp_t	total pressure drop	(Pa)
L_{p10A}	sound pressure level with 4 dB room attenuation (10 m ² sab)	[dB(A)]
L_{Woct}	sound power level by octave bands	(dB)
ΔL	sound attenuation	(dB)
K_{oct}	correction	(dB)

DVS-P	Adjustment s (mm)	SOUND ATTENUATION ΔL							
		Middle frequency by octave band (Hz)							
		63	125	250	500	1000	2000	4000	8000
080	-3	24	21	16	12	9	7	5	5
	3	24	19	13	10	7	4	4	4
	9	24	19	13	9	6	3	3	4
100	-3	24	19	13	10	9	9	11	9
	6	23	16	11	7	6	5	6	6
	10	23	17	11	7	5	5	5	6
125	-7	19	16	11	7	4	4	5	6
	0	18	16	10	6	4	3	4	6
	15	19	15	9	5	3	2	3	4
150	-5	20	13	10	7	5	4	5	5
	3	19	12	9	5	4	3	4	4
	15	19	12	8	4	3	2	4	3
160	-5	18	13	10	6	5	5	5	6
	5	17	12	9	5	4	3	4	4
	10	17	12	8	5	4	3	4	3
200	3	17	12	8	7	7	5	7	6
	6	17	12	7	6	6	5	7	5
	12	17	11	6	5	5	4	6	5
Tol. ±	6	3	2	2	2	2	2	2	3

The average sound attenuation ΔL from duct to room including the end reflection of the connecting duct in ceiling installation, is obtained in the table above.

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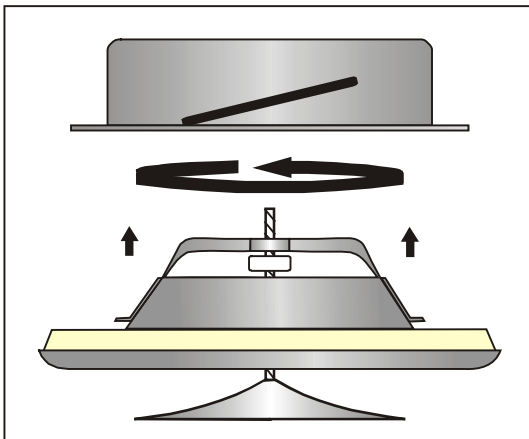
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SUPPLY AIR VALVE DVS-P

TECHNICAL DATA

DVS-P is a supply air valve suitable for houses, offices etc.

- Good adjusting features
- Low noise level
- Quick and easy to install
- Airflow easy to measure



CONSTRUCTION

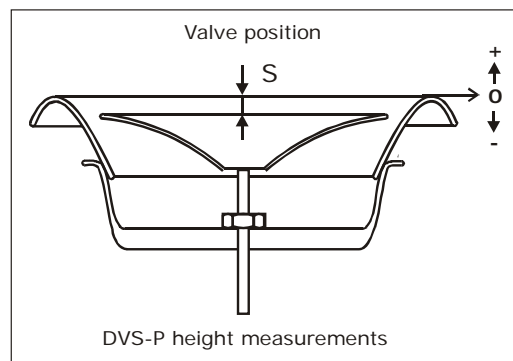
The **DVS-P** is manufactured from steel sheet, powder coated. Standard color white (RAL 9010). Other color finishes are available to special order quantity. The valve body has a gasket, made of cellular plastic and the control disc, with screw spindle, enables easy positional locking.

Fixing collar **DVS-F** is manufactured from galvanized steel sheet.

REGULATION AND MEASUREMENTS

Regulation of airflow is achieved by turning the control disc to change adjustment dimension s (mm). The measurement of airflow is made by a pressure difference measurement with a separate measuring tube.

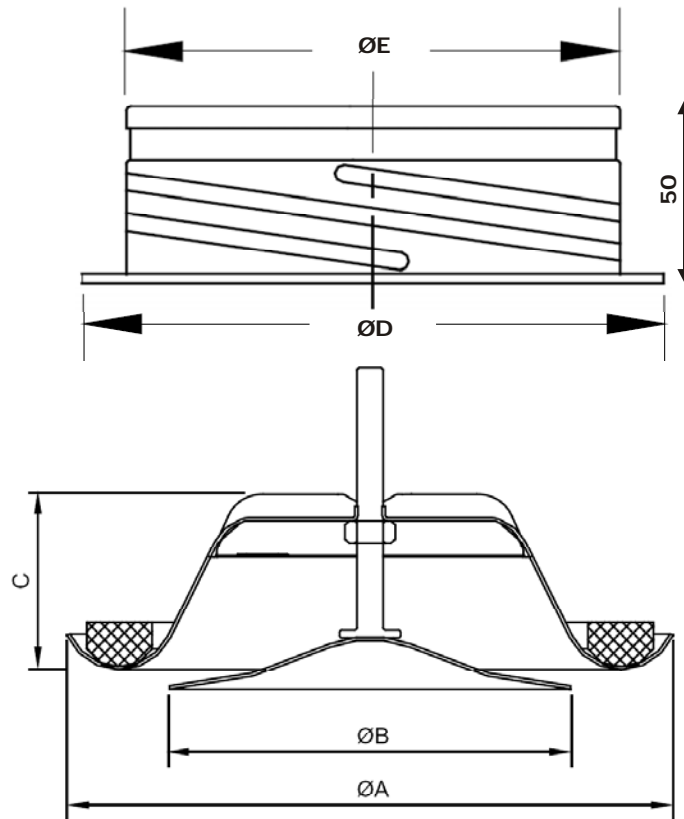
Refer to airflow measurement diagrams for information.



ORDER EXAMPLE: Powder coated valve *including* fixing collar DVS-F
Product: DVS-P
Size: 080
CODE: DVSP 080

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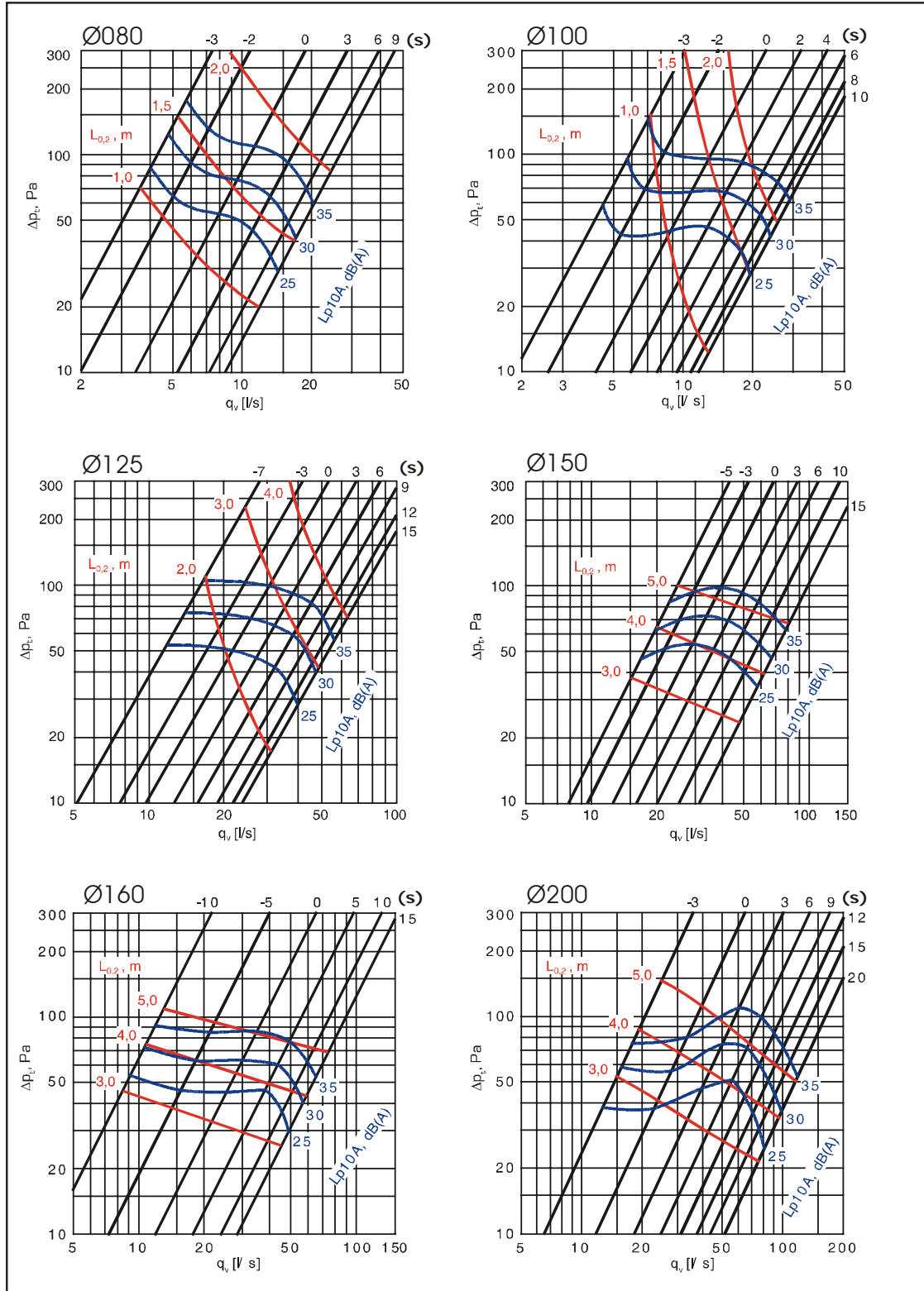
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DIMENSIONS IN MILLIMETRES

DVS-P	Ø080	Ø100	Ø125	Ø150	Ø160	Ø200
A	116	140	170	202	202	254
B	76	92	111	135	135	194
C	40	40	46	54	54	64
Weight	150 gr	170 gr	230 gr	340 gr	340 gr	550 gr
D	105	125	150	175	185	225
E	79	99	124	149	159	199
Weight	80 gr	100 gr	120 gr	180 gr	190 gr	240 gr

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SOUND POWER LEVEL L_w

DVS-P	CORRECTION K_{oct} (dB)						
	Middle frequency by octave band (Hz)						
	125	250	500	1000	2000	4000	8000
080	2	2	1	0	-3	-9	-17
100	7	3	2	-2	-6	-14	-30
125	3	6	4	-3	-11	-21	-37
150	7	5	3	-2	-10	-20	-34
160	6	7	3	-3	-11	-27	-34
200	7	6	3	-2	-10	-25	-34
Tol. ±	3	2	2	2	2	2	3

Sound power levels by octave bands are obtained by adding to total sound pressure level L_{p10A} , dB(A) the corrections K_{oct} presented in the table according to the following formula:

$$L_{Woct} = L_{p10A} + K_{oct}$$

Correction K_{oct} is average value in range of use of DVS-P unit.

DEFINITIONS

q_v	air volume	(m ³ /h)
Δp_t	total pressure drop	(Pa)
L_{p10A}	sound pressure level with 4 dB room attenuation (10 m ² sab)	[dB(A)]
L_{Woct}	sound power level by octave bands	(dB)
ΔL	sound attenuation	(dB)
K_{oct}	correction	(dB)

DVS-P	Adjustment s (mm)	SOUND ATTENUATION ΔL							
		Middle frequency by octave band (Hz)							
		63	125	250	500	1000	2000	4000	8000
080	-3	24	21	16	12	9	7	5	5
	3	24	19	13	10	7	4	4	4
	9	24	19	13	9	6	3	3	4
100	-3	24	19	13	10	9	9	11	9
	6	23	16	11	7	6	5	6	6
	10	23	17	11	7	5	5	5	6
125	-7	19	16	11	7	4	4	5	6
	0	18	16	10	6	4	3	4	6
	15	19	15	9	5	3	2	3	4
150	-5	20	13	10	7	5	4	5	5
	3	19	12	9	5	4	3	4	4
	15	19	12	8	4	3	2	4	3
160	-5	18	13	10	6	5	5	5	6
	5	17	12	9	5	4	3	4	4
	10	17	12	8	5	4	3	4	3
200	3	17	12	8	7	7	5	7	6
	6	17	12	7	6	6	5	7	5
	12	17	11	6	5	5	4	6	5
Tol. ±	6	3	2	2	2	2	2	2	3

The average sound attenuation ΔL from duct to room including the end reflection of the connecting duct in ceiling installation, is obtained in the table above.

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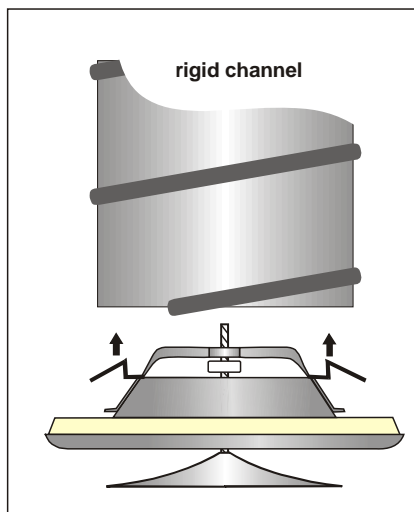
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DVSC-P

TECHNICAL DATA

DVSC-P is a supply air valve suitable for houses, offices etc.

- Good adjusting features
- Low noise level
- Quick and easy to install
- Airflow easy to measure



CONSTRUCTION

The **DVSC-P** is manufactured from steel sheet, powder coated. Standard color white (RAL 9010). Other color finishes are available to special order quantity. The valve body has a gasket, made of cellular plastic and the control disc, with spring fasteners enables easy positional locking.

REGULATION AND MEASUREMENTS

Regulation of airflow is achieved by turning the control disc to change adjustment dimensions (mm). The measurement of airflow is made by a pressure difference measurement with a separate measuring tube.

Refer to airflow measurement diagrams for information.

ORDER EXAMPLE: Powder coated valve DVSC-P

Product: DVSC-P

Size: 080

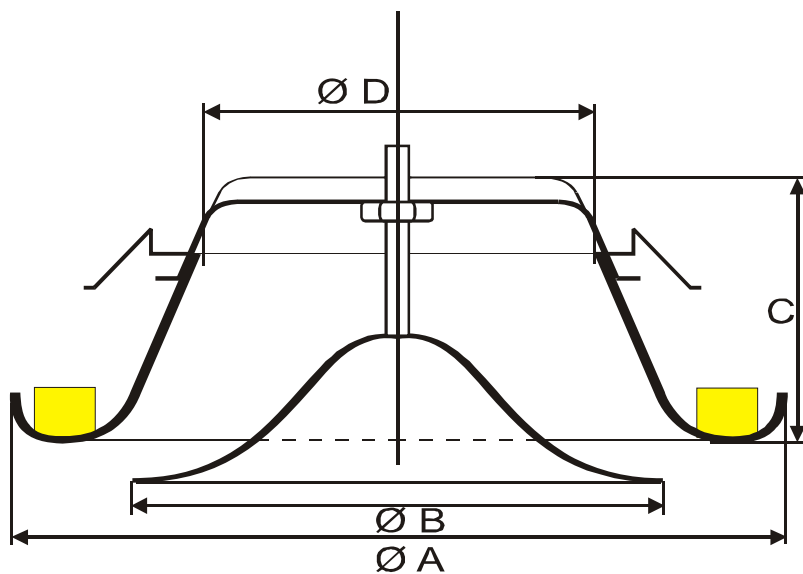
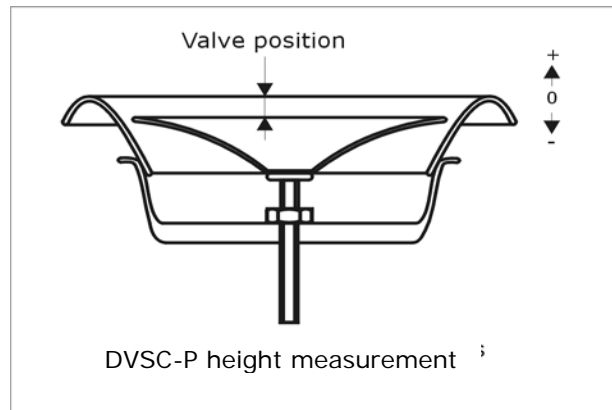
CODE: DVSCP080

DVSC-P 3.6b

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DVSC-P



3.6b

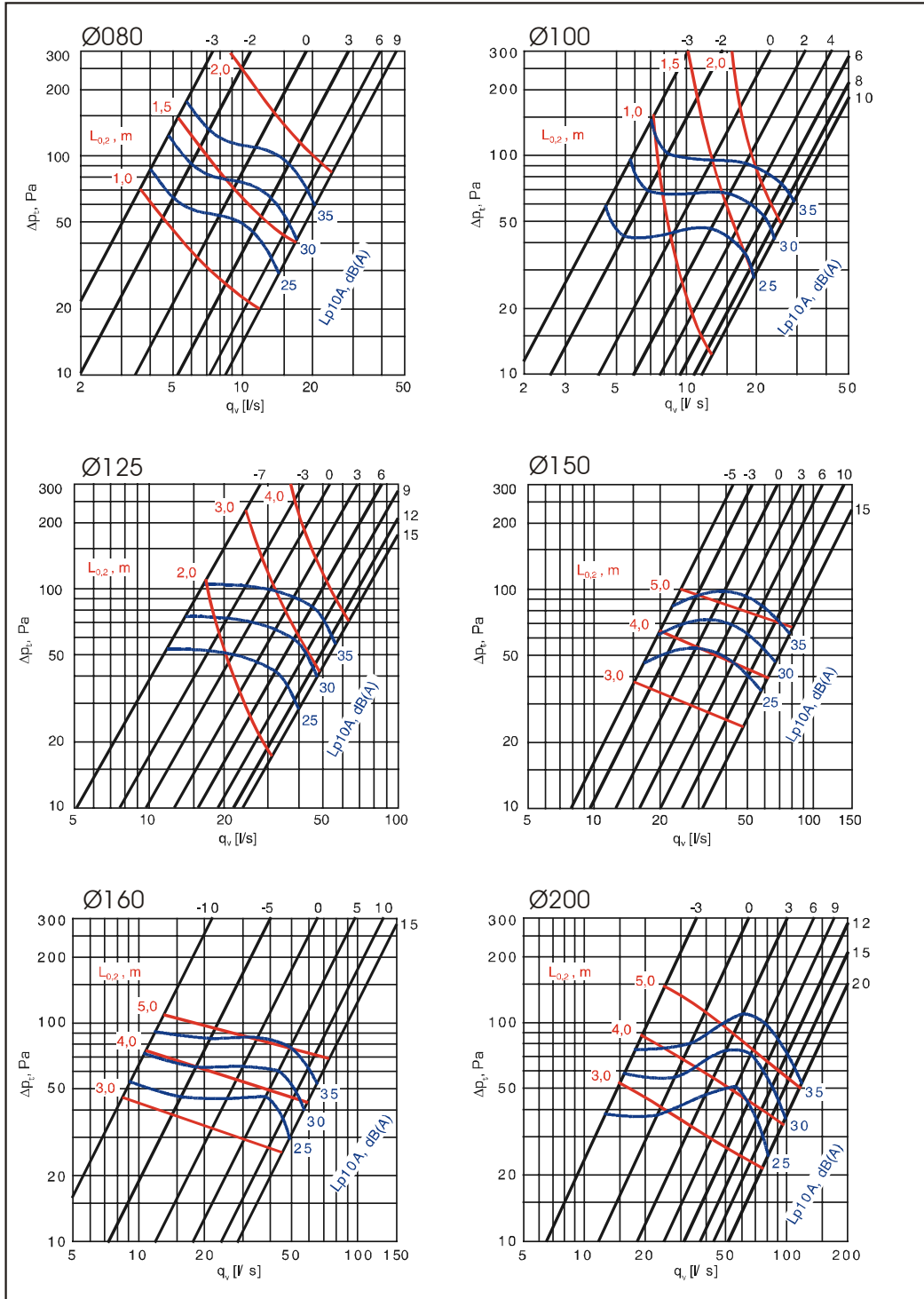
DVSC-P

DIMENSIONS IN MILLIMETERS

DVSC-P	Ø 80	Ø 100	Ø 125	Ø 150	Ø 160	Ø 200
A	115	138	164	202	211	248
B	76	92	111	135	147	194
C	42	40	46	50	54	63
D	105	125	150	175	185	225

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SOUND POWER LEVEL L_w

DVSC-P	CORRECTION K_{oct} (dB)						
	Middle frequency by octave band (Hz)						
	125	250	500	1000	2000	4000	8000
080	2	2	1	0	-3	-9	-17
100	7	3	2	-2	-6	-14	-30
125	3	6	4	-3	-11	-21	-37
150	7	5	3	-2	-10	-20	-34
160	6	7	3	-3	-11	-27	-34
200	7	6	3	-2	-10	-25	-34
Tol.±	3	2	2	2	2	2	3

Sound power levels by octave bands are obtained by adding to total sound pressure level L_{p10A} , dB(A) the corrections K_{oct} presented in the table according to the following formula:

$$L_{Woct} = L_{p10A} + K_{oct}$$

Correction K_{oct} is average value in range of use of DVSC-P unit.

DEFINITIONS		
q_v	air volume	(m ³ /h)
Δp_t	total pressure drop	(Pa)
L_{p10A}	sound pressure level with 4 dB room attenuation (10 m ² sab)	[dB(A)]
L_{Woct}	sound power level by octave bands	(dB)
ΔL	sound attenuation	(dB)
K_{oct}	correction	(dB)

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DVSC-P

DVSC-P	Adjustment (mm)	SOUND ATTENUATION ΔL (dB)							
		Middle frequency by octave band (Hz)							
		63	125	250	500	1000	2000	4000	8000
080	-3	24	21	16	12	9	7	5	5
	3	24	19	13	10	7	4	4	4
	9	24	19	13	9	6	3	3	4
100	-3	24	19	13	10	9	9	11	9
	6	23	16	11	7	6	5	6	6
	10	23	17	11	7	5	5	5	6
125	-7	19	16	11	7	4	4	5	6
	0	18	16	10	6	4	3	4	6
	15	19	15	9	5	3	2	3	4
150	-5	20	13	10	7	5	4	5	5
	3	19	13	9	5	4	3	4	4
	15	19	12	8	4	3	2	4	3
160	-5	18	13	10	6	5	5	5	6
	5	17	12	9	5	4	3	4	4
	10	17	12	8	5	4	3	4	3
200	3	17	12	8	7	7	5	7	6
	6	17	12	7	6	6	5	7	5
	12	17	11	6	5	5	4	6	5
Tol. +/-	6	3	2	2	2	2	2	2	3

DVSC-P 3.6b

The average sound attenuation ΔL from duct to room including the end reflection of the connecting duct in ceiling installation, is obtained in the table above.

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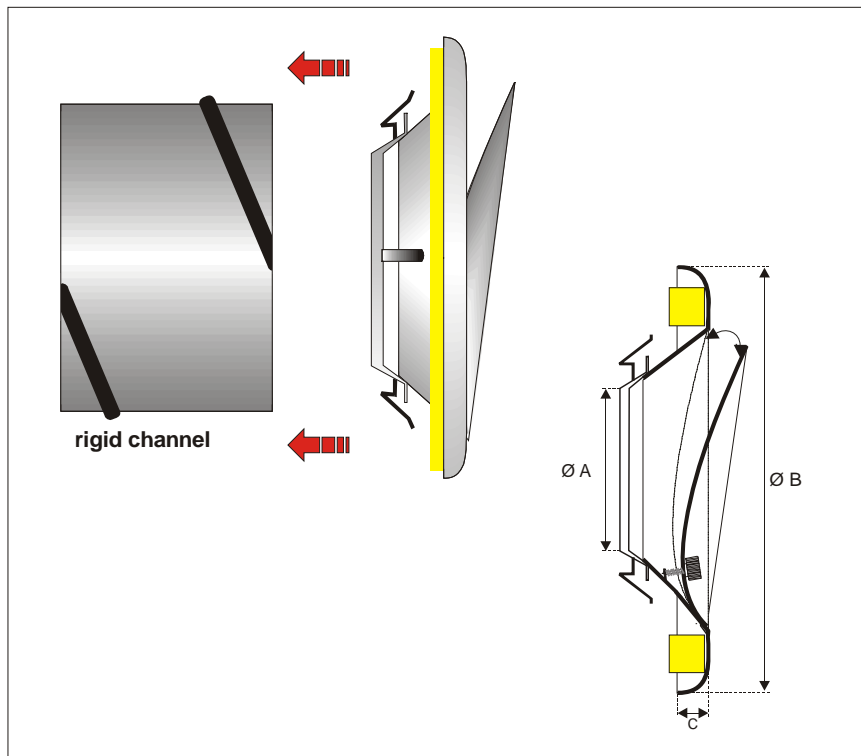
Version 2006 www.decinternational.com

METAL SUPPLY VALVE WITH VERTICAL DISCHARGE AND SPRING CONNECTION

PRODUCT PROPERTIES

- diameter range 100 and 125 mm.
- manufactured out of powder coated steel.
- standard colour white (RAL 9010), other colors on request.
- adjustable and lockable disc.
- suitable for direct mounting in round, rigid ducts.
- a longsleeve for mounting in declining ceilings and in walls is optional.

DIMENSIONS (IN MILLIMETRES)



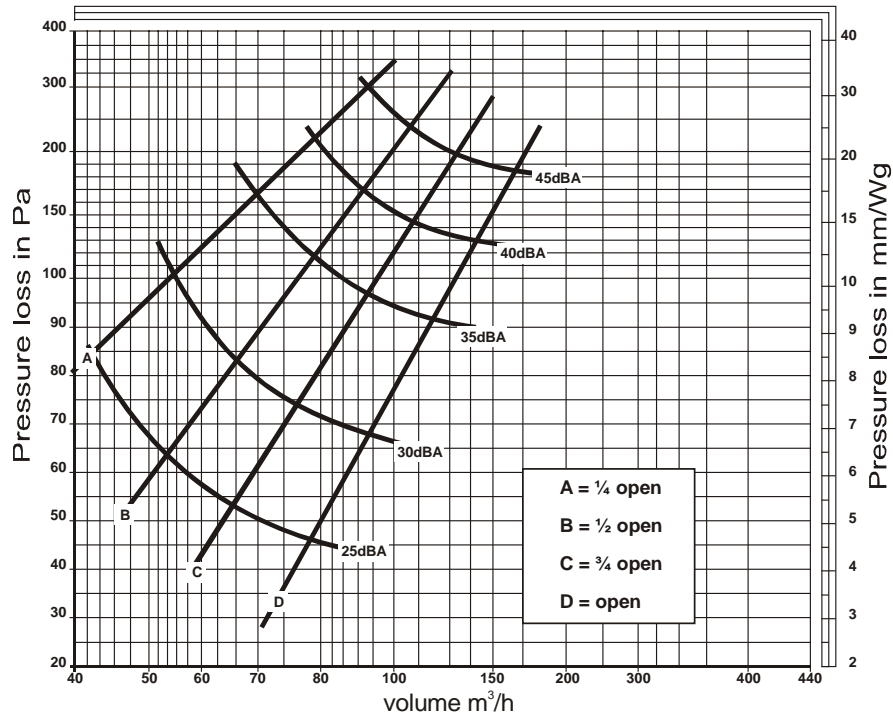
DIR-C	Ø 100	Ø 125
A	88	113
B	145	168
C	18	21

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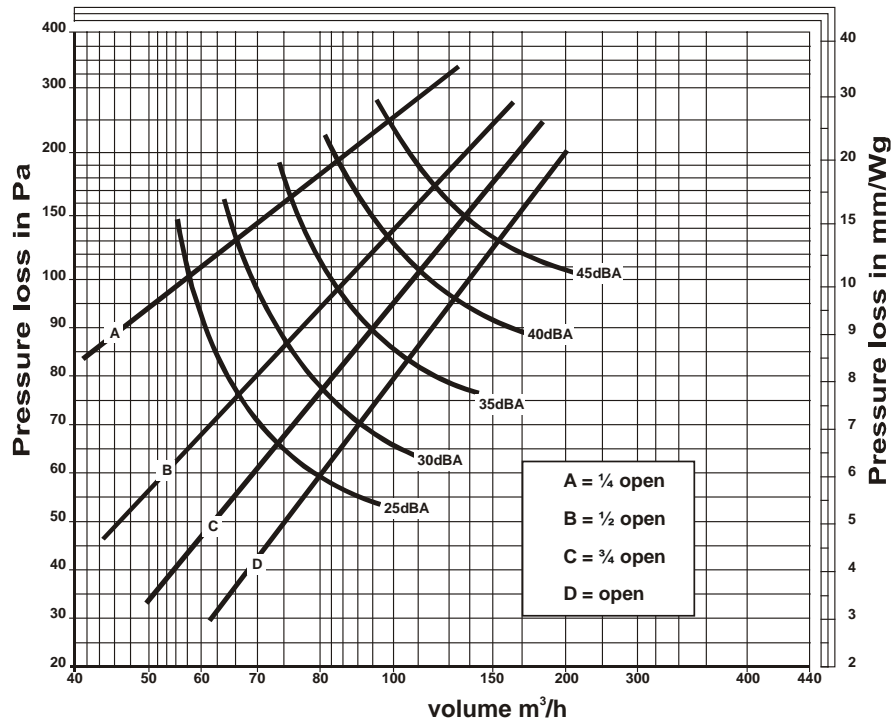
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**PRESSURE LOSS AND SOUND LEVEL
DIRC**

Ø 100 mm



Ø 125 mm



3.6c

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Version 2003. WWW.DECINTERNATIONAL.COM

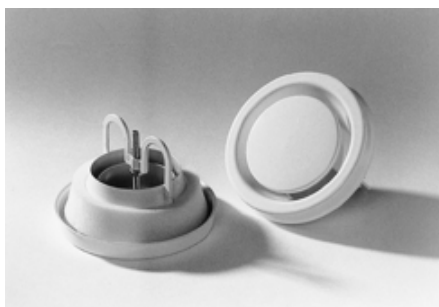
DSO and DSO-S

TECHNICAL DATA

DSO is an exhaust valve suitable for houses, offices etc.

DSO-S is designed for sauna rooms.

- Good adjusting features
- Low noise level
- Good sound attenuation features
- Quick and easy to install
- Easy to measure the air flow



CONSTRUCTION

The **DSO** exhaust valve is made of steel sheet. Standard color is white (RAL9010). Other colors are available to special order. The body is equipped with cellular plastic gasket to form an airtight seal. Adjustment of the airflow is simple, the inner cone being rotated to the required setting and locked in the position with a single nut. For mounting a mounting-ring **DKK** can be ordered.



Sauna valve **DSO-S** can be opened and closed simply by pushing or pulling the wooden knob. Max. opening is adjusted by moving the retaining ring. Min. opening, which is pre-adjusted into pos. 0 mm, can be adjusted by shortening the plastic tube. Max. working temperature +120°C. For mounting a mounting-ring **DKK** can be ordered.

REGULATION AND MEASUREMENTS

The measurement of airflow is made as a pressure difference measurement with a separate measuring tube.

Regulation of air volume is made by changing the position **s**.

For diagrams for measuring and regulation see the separate diagram.

Refer to airflow measurement diagrams for information.

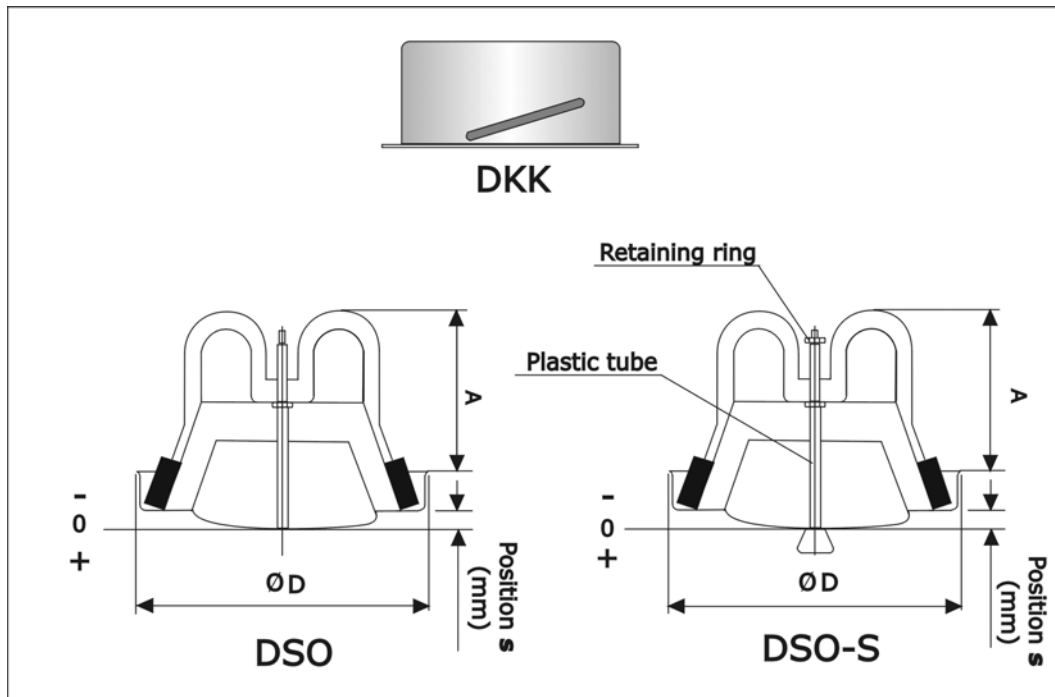
ORDER EXAMPLE:

Product: DSO-S
Size: 125
CODE: **DSO-S 125**

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DSO and DSO-S



DIMENSIONS IN MILLIMETRES

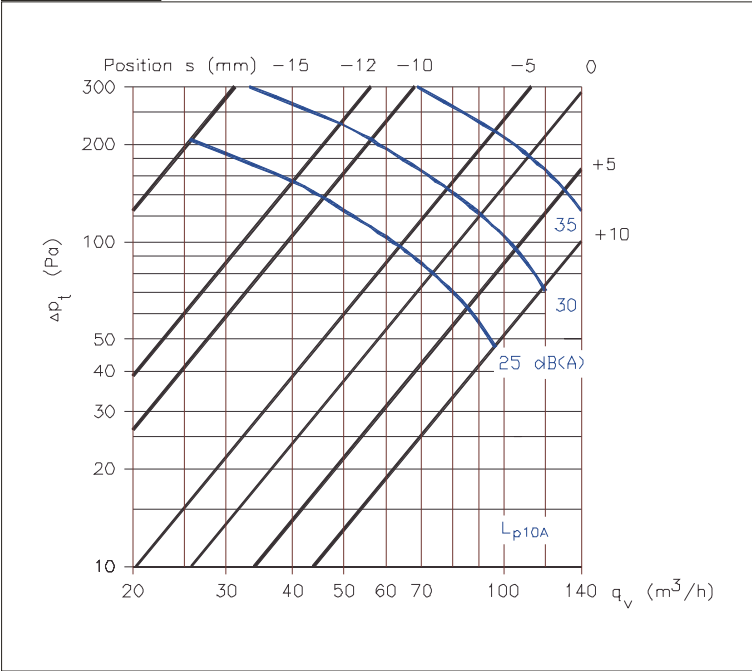
DSO	Ø D	A	Weight g
100	134	74	280
125	160	85	360
150/160	191	89	470
200	241	107	720
DSO-S	Ø D	A	Weight g
100	134	73	310

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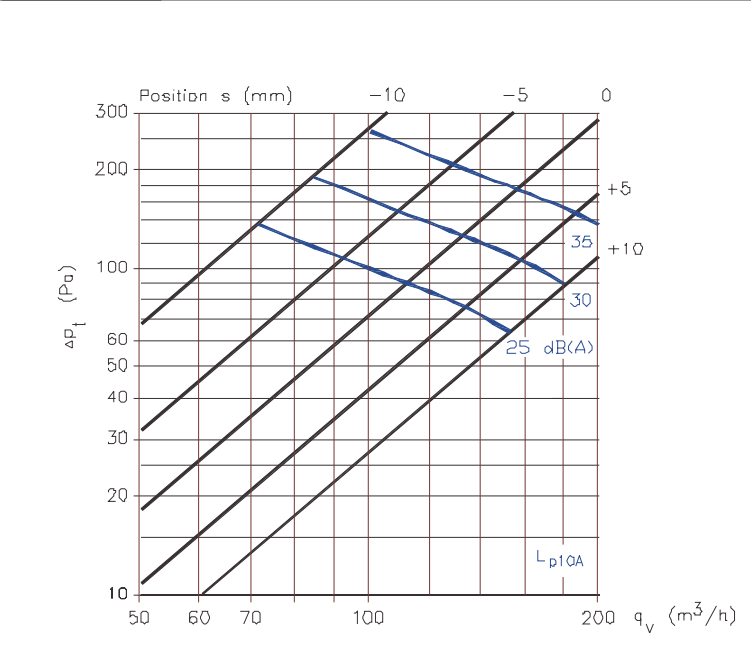
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DSO and DSO-S

DSO/DSO-S 100



DSO/DSO-S 125



3.7a

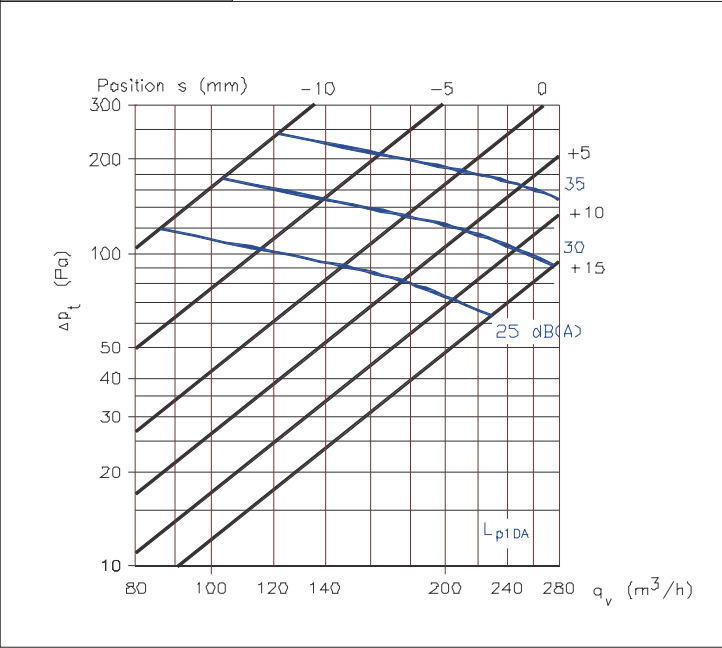
DSO and DSO-S

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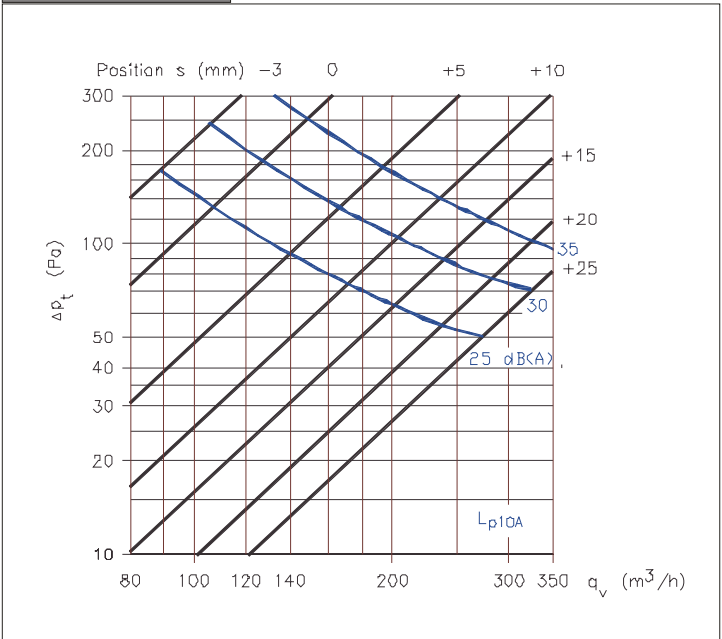
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DSO and DSO-S

DSO/DSO-S 150 and 160



DSO/DSO-S 200



DSO and DSO-S 3.7a

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DSO and DSO-S

SOUND POWER LEVEL L_w

DSO/DSO-S	CORRECTION K_{oct} (dB)						
	Middle frequency by octave band (Hz)						
	125	250	500	1000	2000	4000	8000
100	-2	1	1	0	-5	-9	-23
125	-3	-2	-1	-4	0	-8	-24
150/160	1	-3	-1	2	-8	-12	-25
200	-1	-3	-4	2	-5	-9	-26
Tol. ±	3	2	2	2	2	2	3

Sound power levels by octave bands are obtained by adding to total sound pressure level L_{p10A} , dB(A) the corrections K_{oct} presented in the table according to the following formula:

$$L_{Woct} = L_{p10A} + K_{oct}$$

Correction K_{oct} is average value in frequency range (Hz).

DEFINITIONS		
q_v	air volume	(m ³ /h)
Δp_t	total pressure drop	(Pa)
L_{p10A}	sound pressure level with 4 dB room attenuation (10 m ² sab)	[dB(A)]
L_{Woct}	sound power level by octave bands	(dB)
ΔL	sound attenuation	(dB)
K_{oct}	correction	(dB)

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DSO and DSO-S

SOUND ATTENUATION ΔL

DSO/DSO-S	SOUND ATTENUATION ΔL							
	Middle frequency octave band(Hz)							
	63	125	250	500	1000	2000	4000	8000
100	23	18	14	12	12	14	5	6
125	21	17	12	11	12	11	7	6
150/160	19	14	12	11	11	14	5	7
200	15	13	11	11	13	12	7	7
Toler.+/-	6	3	2	2	2	2	2	3

The average sound attenuation ΔL from duct to room, including the end reflection of the connecting duct in ceiling installation, is obtained in the table above.

3.7a

DSO and DSO-S

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EXHAUST AIR VALVE DSO-M

TECHNICAL DATA

DSO-M is an exhaust valve suitable for rooms, offices etc., which require forced/controlled exhaust.

Good adjusting features:

- Low noise level
- Good sound attenuation features
- Quick and easy to install
- Easy to measure the airflow.
- Can be opened electrically according to operating conditions. (manual switch or sensor)
- Basic adjustment can be set smoothly when balancing the ducting.
- Forced exhaust can be set from the controller at 5, 10, 15 or 20 mm.
- Not designed to be used in the sauna room.



CONSTRUCTION

The **DSO-M** exhaust valve is made of steel sheet. Standard color is white (RAL9010). Other colors are available to special order. The body is equipped with cellular plastic gasket to form an airtight seal. Adjustment of the airflow is simple, the inner cone being rotated to the required setting and locked in the position with a single nut. The valve opens after it receives an ON-command from a switch. (manual switch, occupancy sensor, humidity sensor etc.) The valve motor operates with a voltage of 24VAC. The valve disc contains a control motor with a screw spindle and a controller card, with which the disc can be run into the open position.

The delivery includes a valve with connecting cable, mounting frame and extension ring, with which a free space can be reserved for the connecting cable between the wall or ceiling surface and the frame.

REGULATION AND MEASUREMENTS (See also last page)

The measurement of airflow is made as a pressure difference measurement with a separate measuring tube.

Regulation of air volume is made by changing the position **s**.

For diagrams for measuring and regulation see the separate diagrams.

Refer to airflow measurement diagrams for information.

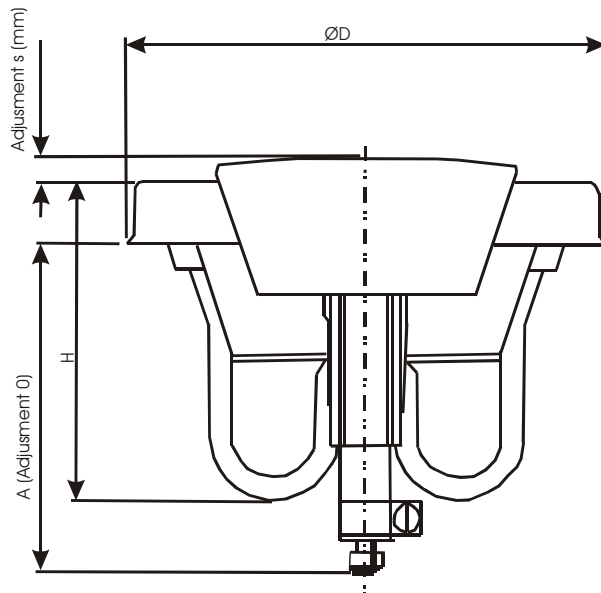
ORDER EXAMPLE:

Product: DSO-M
Size: 125
CODE: **DSO-M 125**

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DSO - M

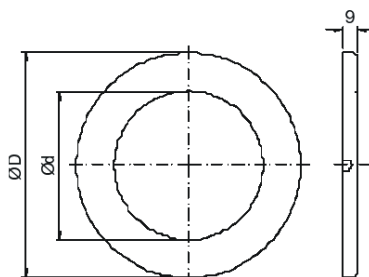


DSO - M 3.7b

DIMENSIONS in mm

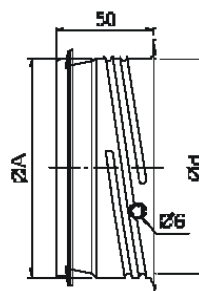
DSO - M	D	d	H	A	Weight (gr)
100	135	87	89	105	633
125	161	107.5	105	105	755

Extension ring



Size	D	d
100	151	103
125	181	128

Frame



Size	D	d
100	99.3	98
125	124.3	123

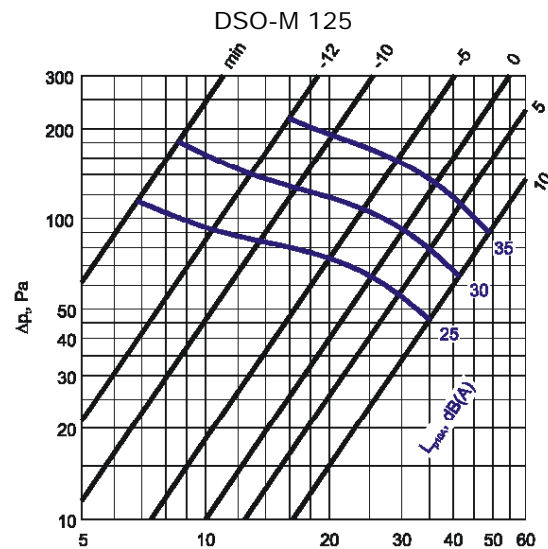
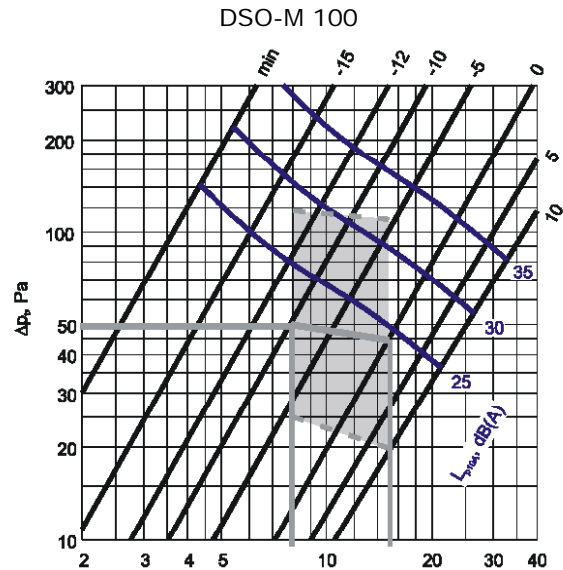
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DSO-M 100/125

The DSO-M is selected on the basis of the desired airflow rate, forced airflow rate and noise level. The used airflow can be adjusted smoothly by turning the screw spindle of the motor.

The valve must however be selected so that the basic adjustment position can be set at -15...0 mm to enable a sufficient forced effect.



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SOUND POWER LEVEL L_w

DSO-M	CORRECTION K_{oct} (dB)							
	Middle frequency by octave band (Hz)							
	63	125	250	500	1000	2000	4000	8000
100	1	-6	-5	0	-2	-1	-9	-16
125	2	2	-3	-1	-4	1	-11	-19
Toler.±	6	3	2	2	2	2	2	3

Sound power levels by octave bands are obtained by adding to total sound pressure level L_{p10A} , dB(A) the corrections K_{oct} presented in the table according to the following formula:

$$L_{Woct} = L_{p10A} + K_{oct}$$

Correction K_{oct} is average value in frequency range (Hz).

DEFINITIONS		
q_v	air volume	(m ³ /h)
Δp_t	total pressure drop	(Pa)
L_{p10A}	sound pressure level with 4 dB room attenuation (10 m ² sab)	[dB(A)]
L_{Woct}	sound power level by octave bands	(dB)
ΔL	sound attenuation	(dB)
K_{oct}	correction	(dB)

The airflow is measured by a pressure difference measurement with a separate measuring tube. The measuring diagrams and detailed regulation instruction can be found in the installation and connecting instructions delivered with the product.

SOUND ATTENUATION ΔL

DSO -M	SOUND ATTENUATION ΔL							
	Middle frequency octave band(Hz)							
	63	125	250	500	1000	2000	4000	8000
100	25	20	13	9	10	11	6	7
125	21	16	12	10	9	14	6	6
Tol.+/-	6	3	2	2	2	2	2	3

The average sound attenuation ΔL from duct to room, including the end reflection of the connecting duct in ceiling installation, is obtained in the table above.

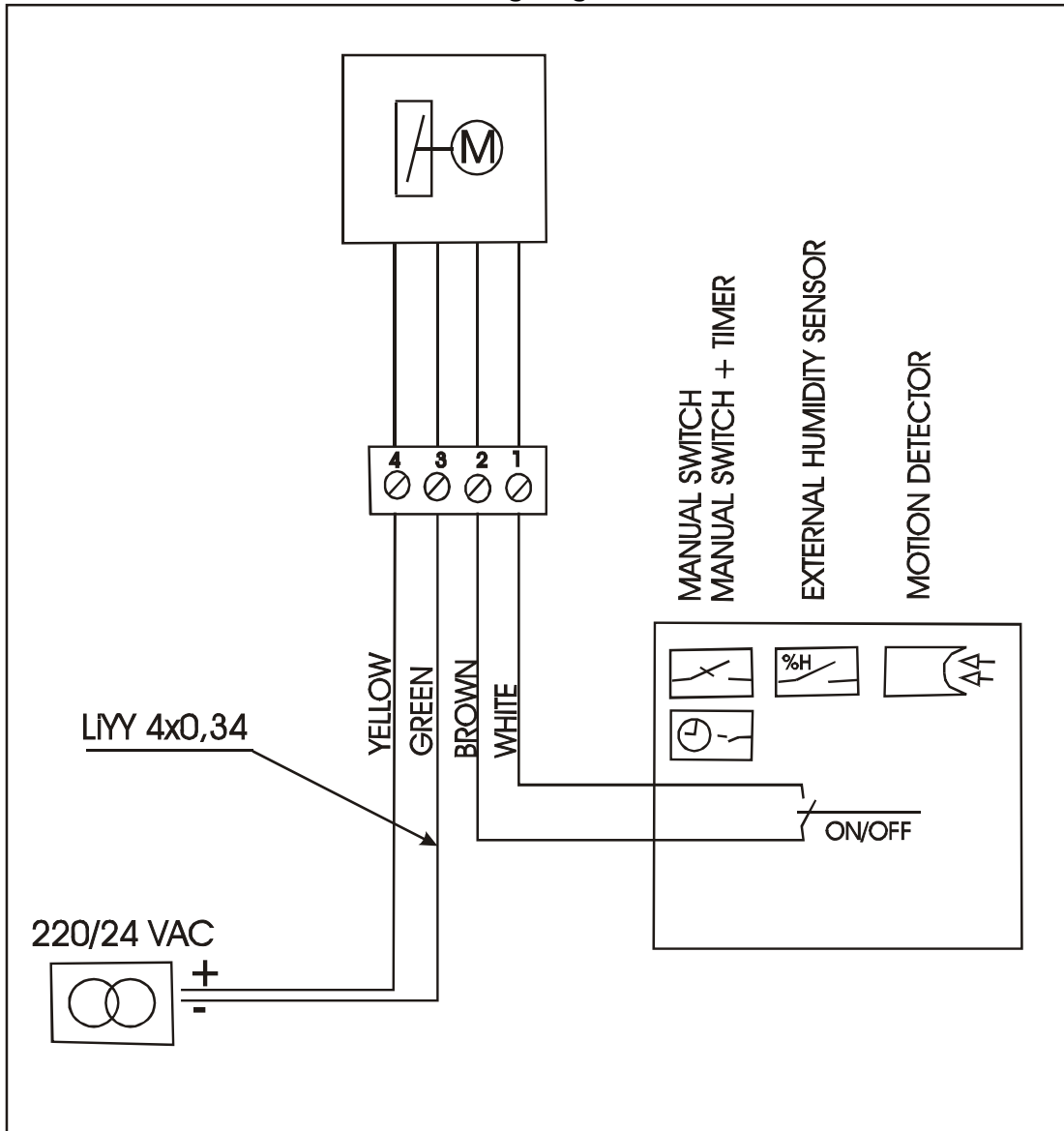
Supply Voltage	24 V AC (Protective extra low voltage, PELV) $\pm 20\%$
Rated Power	12 VA / 500 mA
Controlling	With a closing switch
Running time	Max. 6 s
Noise level while running	36 dB(A)
Electric protection	III (Protective extra low voltage, PELV)
Enclosure	IP00
Ambient temperature	+ 10°C ... + 50°C
Storage temperature	- 25 °C ... + 65°C
Humidity	... 100 %
Electromagnetic compatibility	89/336/EY
Safety	98/37/EY

The DSO-M valves operate on a voltage of 24 VAC. The transformer size is chosen according to the overall power demand of the devices connected to it. Please select the type of transformer dependent to the conditions in its surroundings.

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Wiring diagram



The supply voltage 24VAC of the valve (rated power 12 VA / 500mA), protection voltage SELV shall be connected to the yellow and green wires of the cable delivered with the valve, and the switch used for controlling to the brown and white ones.

After connecting the supply voltage, the valve performs a reference run towards the mechanical limit and a warm-up run (open-closed). The valve stops after this at the position determined by the control. If the supply voltage is interrupted, the valve holds its position and performs the above mentioned reference and warm-up runs after the supply voltage has returned.

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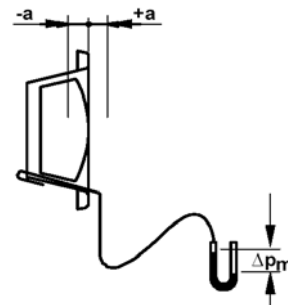
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MEASUREMENT AND REGULATION OF AIRFLOW

The basic air change rate is adjusted by changing adjustment position **a**.
 The basic adjustment is made by turning the screw spindle, **not the cover**, by hand.
 The adjustment position is locked by tightening the hose clamp carefully. The desired forced exhaust position is set by choosing the valve running distance (5, 10, 15, 20mm). This is done with dip switches on the circuit board according to the following table.
NOTE! If the adjustment is changed while the product is receiving voltage, the new adjustment is not valid until the voltage has been cut off and then switched on.

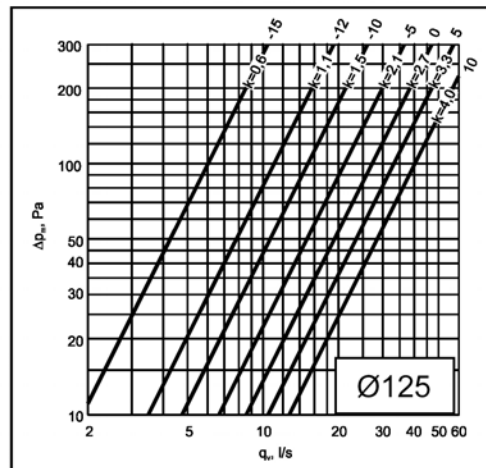
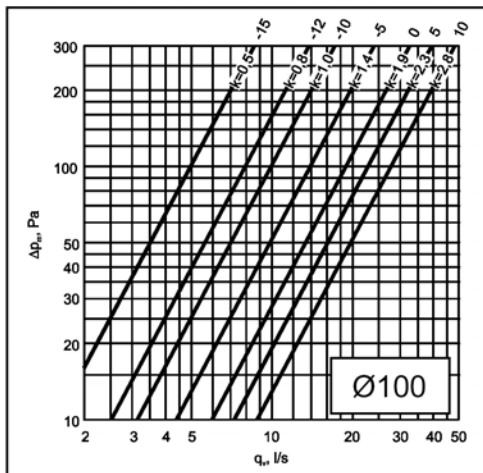
Switch		Running distance	Basic adjustment position
1	2	[mm]	[mm]
OFF	OFF	5	+5
ON	OFF	10	0
OFF	ON	15	-5
ON	ON	20	-10

Factory setting of running distance 10mm



The running distance must be chosen so that the valve in its open position does not exceed the adjustment position +10mm. The air flow is determined according to the diagram below, the pressure difference at the valve and the adjustment position (Δp_m and a)

DSO-M MEASUREMENT AND ADJUSTMENT DIAGRAMS



The properties of the product include a warm-up run every 24 hours, which the valve performs independently of the user.
 The valve is equipped with overheating protection which stops valve operation for five minutes due to a continuous back-and-forth run.

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