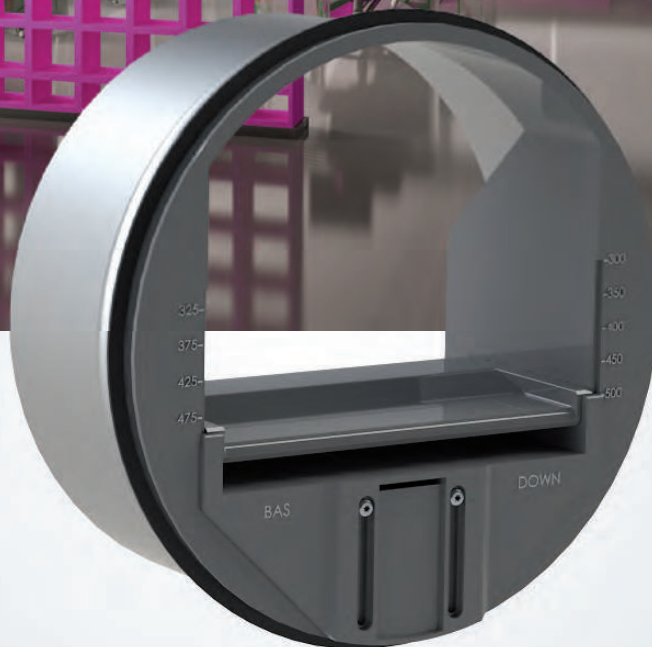


FLOW REGULATORS



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RDR

Ø 80 to Ø 250 mm

ADJUSTABLE FLOWS

SELF ADJUSTING FROM 50 to 250 Pa

RDR

The flow regulator RDR is an element placed inside the duct in order to obtain a constant flow within a pressure range from 50 to 250 Pascals. It is used in air conditioning or ventilation systems either in extraction or blowing mode.



IMPORTANT



- Self adjusting on the pressure range 50 to 250 Pa
- Easy adjustment
- The requested air flow is fixed by a screwdriver «torx n°10»
- Made in plastic material (classified M1) and in galvanized steel for sleeves in Ø 160 to Ø 250 mm
- Use with a maximum temperature of 60°C

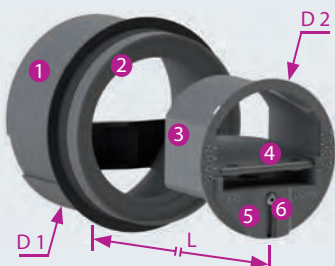
PRÉSENTATION

The self adjusting flow regulator **RDR** can be adjusted on sites according to the requested airflow.

The marks on the sides of the opening indicate the settings.

COMPONENT AND DIMENSIONS

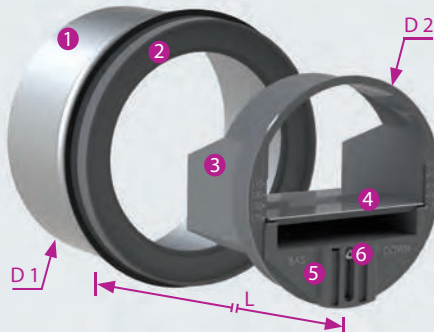
Flow regulator RDR
Ø 80 to Ø 100



RD	D1 (mm)	D2 (mm)	L (mm)
Ø 80	76	76	55
Ø 100	96	93	70

- 1 Sleeve with lip seal
- 2 Cale (according to the airflow)
- 3 Regulator casing
- 4 Piece of regulation
- 5 Air flow setting
- 6 Screw to fix the airflow

Flow regulator RDR
Ø 125 to Ø 250



RD	D1 (mm)	D2 (mm)	L (mm)
Ø 125	120	117	86
Ø 150	145	148	91
Ø 160	145	148	91
Ø 200	190	195	91
Ø 250	235	245	120

- 1 Sleeve with lip seal
- 2 Cale (according to the airflow)
- 3 Regulator casing
- 4 Piece of regulation
- 5 Air flow setting
- 6 Screw to fix the airflow

COMPOSITION OF RDR

RD	Setting	Flow (m³/h)	Set flow (m³/h)	Code
Ø 80	RDR Ø 80	15 à 50	50	9404
Ø 100	RDR Ø 80 + 1 cale	15 à 50	50	9409
Ø 100	RDR Ø 100	50 à 100	100	9413
Ø 125	RDR Ø 80 + 2 cales	15 à 50	50	9419
Ø 125	RDR Ø 100 + 1 cale	50 à 100	100	9423
Ø 125	RDR Ø 125	100 à 180	180	9427
Ø 150	RDR Ø 80 + 3 cales	15 à 50	50	9430
Ø 150	RDR Ø 100 + 2 cales	50 à 100	100	9431
Ø 150	RDR Ø 125 + 1 cale	100 à 180	180	9434
Ø 150	RDR Ø 150	180 à 300	300	9439
Ø 160	RDR Ø 80 + 3 cales	15 à 50	50	9440
Ø 160	RDR Ø 100 + 2 cales	50 à 100	100	9441

RD	Setting	Flow (m³/h)	Set flow (m³/h)	Code
Ø 160	RDR Ø 125 + 1 cale	100 à 180	180	9444
Ø 160	RDR Ø 150	180 à 300	300	9449
Ø 200	RDR Ø 80 + 4 cales	15 à 50	50	9455
Ø 200	RDR Ø 100 + 3 cales	50 à 100	100	9456
Ø 200	RDR Ø 125 + 2 cales	100 à 180	180	9457
Ø 200	RDR Ø 160 + 1 cale	180 à 300	300	9464
Ø 200	RDR Ø 200	300 à 500	500	9468
Ø 250	RDR Ø 100 + 4 cales	50 à 100	100	9475
Ø 250	RDR Ø 125 + 3 cales	100 à 180	180	9476
Ø 250	RDR Ø 160 + 2 cales	180 à 300	300	9477
Ø 250	RDR Ø 200 + 1 cale	300 à 500	500	9483
Ø 250	RDR Ø 250	500 à 700	700	9488

ADJUSTMENT

Before setting the regulator, it's necessary to calibrate the flow :

- Unscrew of 1/4 tour with a screwdriver «torx n°10»
- Adjust the mark to the requested flow
- Screw according to the air-flow

Different other possibilities of setting with intermediary positions.

RDR Ø 80 :	intermediary step → 2,5 m³/h
RDR Ø 100-125-160 :	intermediary step → 5 m³/h
RDR Ø 200 :	intermediary step → 10 m³/h
RDR Ø 250 :	intermediary step → 25 m³/h

RDR Ø 80 and 100 mm



Sample of setting = 50 m³/h

RDR Ø 125 to 250 mm



Sample of setting = 180 m³/h

INSTALLATION

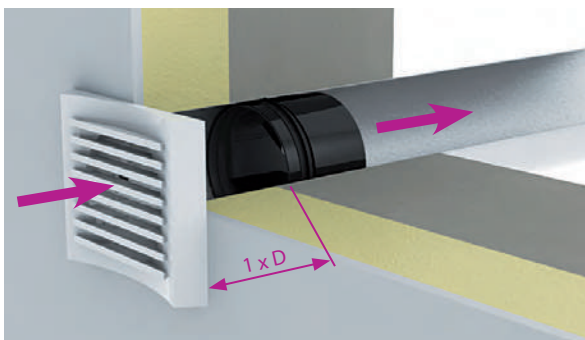
The flow regulators are simply fitted into vertical or horizontal ducts. On the horizontal duct, respect the mention «DOWN» indicated at the front of the product. A leap seal ensures the airtightness.

When the flow regulator is associated with a diffuser, the minimum distance between the diffuser and the regulator is at least one Ø in extraction mode and 3 Ø in blowing mode.

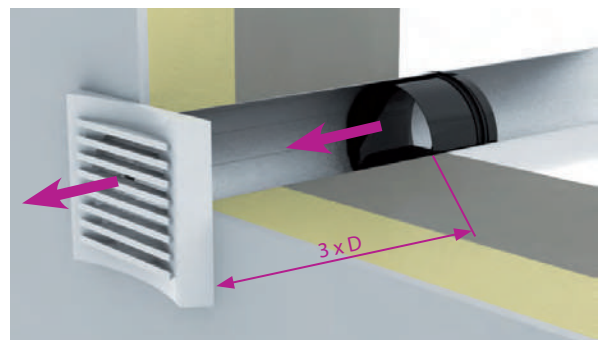


When installing, do not touch the piece of regulation

It is essential to comply with the direction of air flow shown on the sleeve.



Flow regulator in extraction mode



Flow regulator in blowing mode

MAINTENANCE

The flow regulator must remain accessible to permit its maintenance.

Characteristics

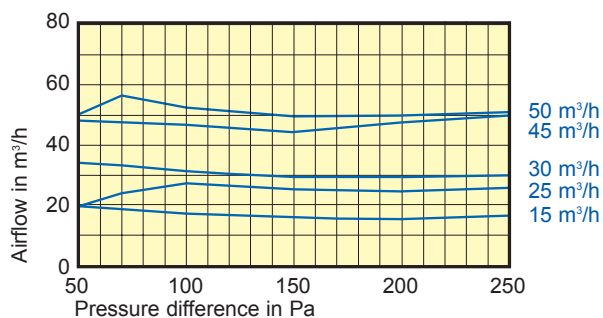
Ø 80 - 100 - 125 mm

The curves show the flow variations in m³/h of RDR Ø 150, 160 and 200 mm in extraction according to the difference of pressure in Pascal (pressure range of 50 to 250 Pa). The values given are averages which may vary of :

- + or - 3 m³/h for airflow ≤ 50 m³/h
- + or - 5 % for airflow > 50 m³/h

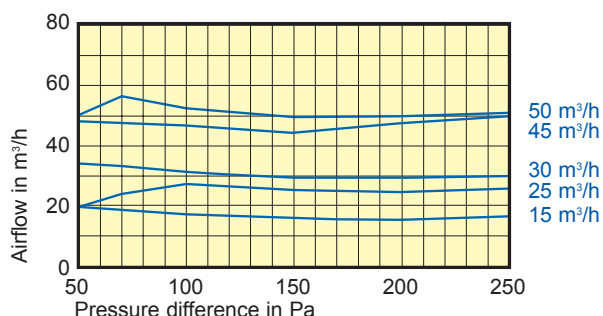
Flow regulators are characterized by their noise level in dB(A).

FLOW REGULATOR Ø 80 - 15 to 50 m³/h



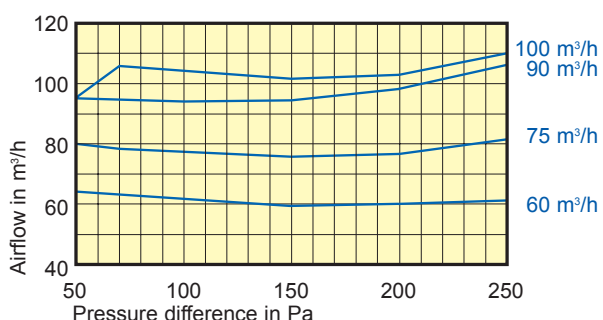
Flow (m ³ /h)	Lw in dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
15	25	29	32	35
30	26	31	35	38
45	27	33	36	39
50	32	37	39	42

FLOW REGULATOR Ø 100 - 15 to 50 m³/h



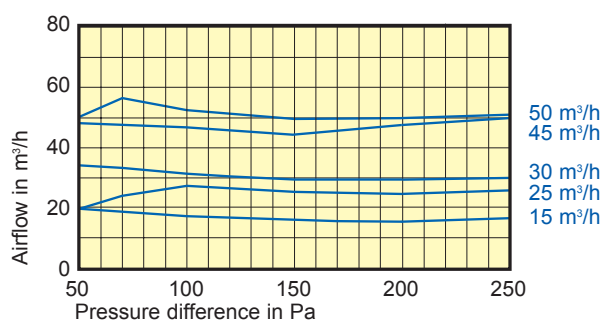
Flow (m ³ /h)	Lw in dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
15	25	29	32	35
30	26	31	35	38
45	27	33	36	39
50	32	37	39	42

FLOW REGULATOR Ø 100 - 50 to 100 m³/h



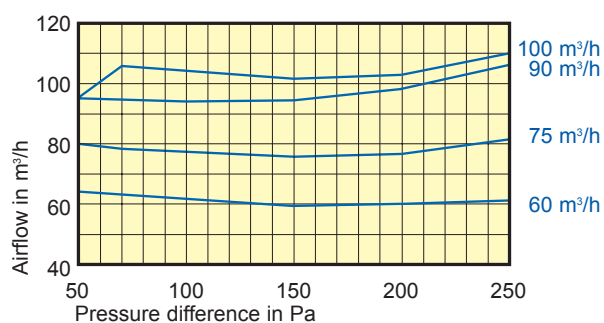
Flow (m ³ /h)	Lw in dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
60	32	37	39	42
75	32	37	40	42
90	32	38	41	44

FLOW REGULATOR Ø 125 - 15 to 50 m³/h



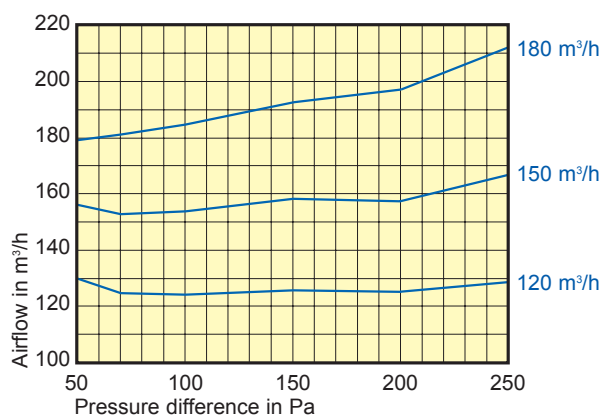
Flow (m ³ /h)	Lw in dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
15	25	29	32	35
30	26	31	35	38
45	27	33	36	39
50	32	37	39	42

FLOW REGULATOR Ø 125 - 50 to 100 m³/h



Flow (m ³ /h)	Lw in dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
60	32	37	39	42
75	32	37	40	42
90	32	38	41	44

FLOW REGULATOR Ø 125 - 100 to 180 m³/h



Flow (m ³ /h)	Lw in dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
120	30	37	39	42
150	33	37	41	45
180	34	40	44	47

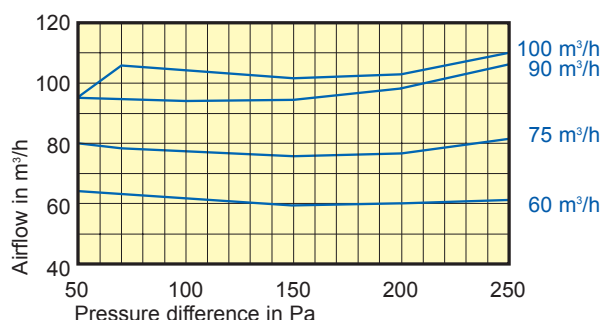
Characteristics

Ø 150 - 160 - 200 mm

The curves show the flow variations in m³/h of RDR Ø 150, 160 and 200 mm in extraction according to the difference of pressure in Pascal (pressure range of 50 to 250 Pa). The values given are averages which may vary of 5 % either way.

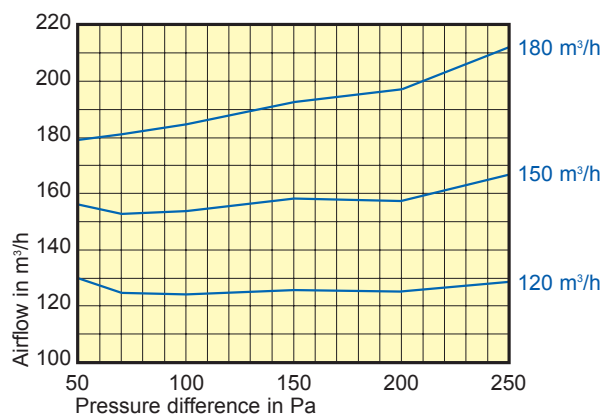
Flow regulators are characterized by their noise level in dB(A).

FLOW REGULATOR Ø 150/160 - 50 to 100 m³/h



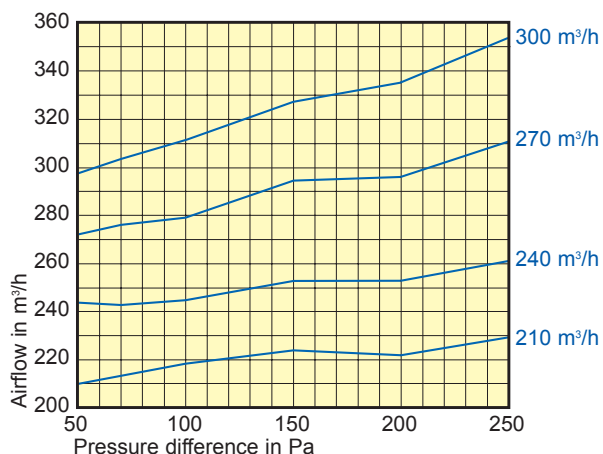
Flow (m ³ /h)	Lw in dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
60	32	37	39	42
75	32	37	40	42
90	32	38	41	44

FLOW REGULATOR Ø 150/160 - 100 to 180 m³/h



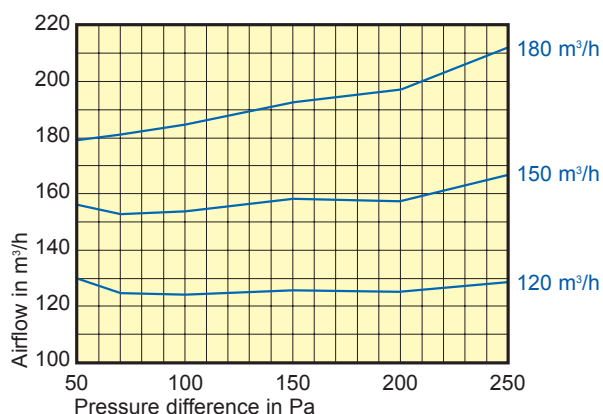
Flow (m ³ /h)	Lw in dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
120	30	37	39	42
150	33	37	41	45
180	34	40	44	47

FLOW REGULATOR Ø 150/160 - 180 to 300 m³/h



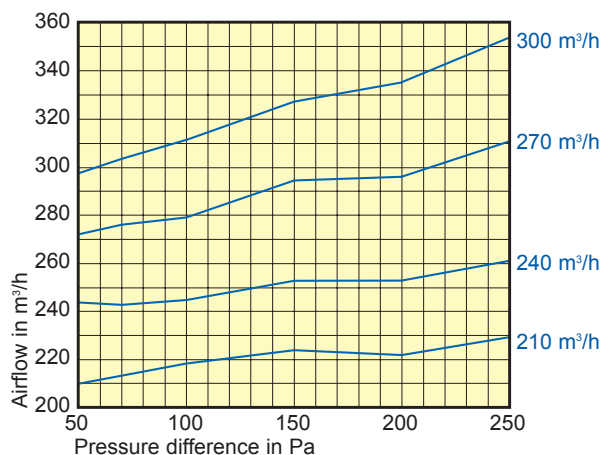
Flow (m ³ /h)	Lw in dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
210	34	40	42	44
240	35	41	44	47
270	37	43	45	49
300	33	37	42	45

FLOW REGULATOR Ø 200 - 100 to 180 m³/h



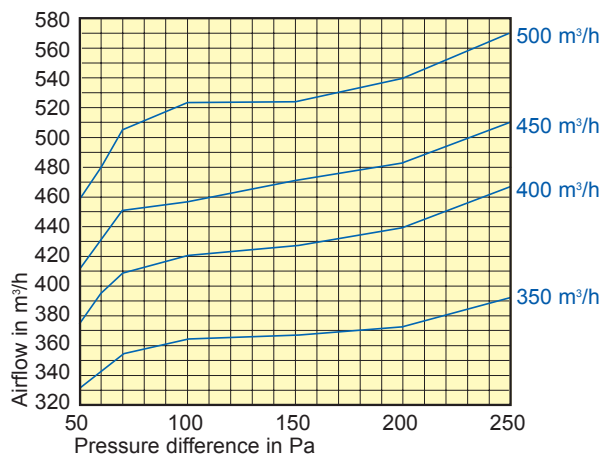
Flow (m ³ /h)	Lw in dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
120	30	37	39	42
150	33	37	41	45
180	34	40	44	47

FLOW REGULATOR Ø 200 - 180 to 300 m³/h



Flow (m ³ /h)	Lw in dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
210	34	40	42	44
240	35	41	44	47
270	37	43	45	49
300	33	37	42	45

FLOW REGULATOR Ø 200 - 300 to 500 m³/h



Flow (m ³ /h)	Lw in dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
350	35	40	44	47
400	37	42	45	50
450	38	44	46	51
500	39	46	48	53

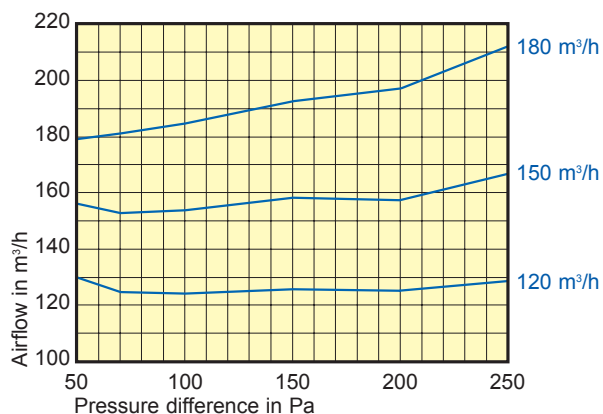
Characteristics

Ø 250 mm

The curves show the flow variations in m³/h of RDR Ø 150, 160 and 200 mm in extraction according to the difference of pressure in Pascal (pressure range of 50 to 250 Pa). The values given are averages which may vary of 5 % either way.

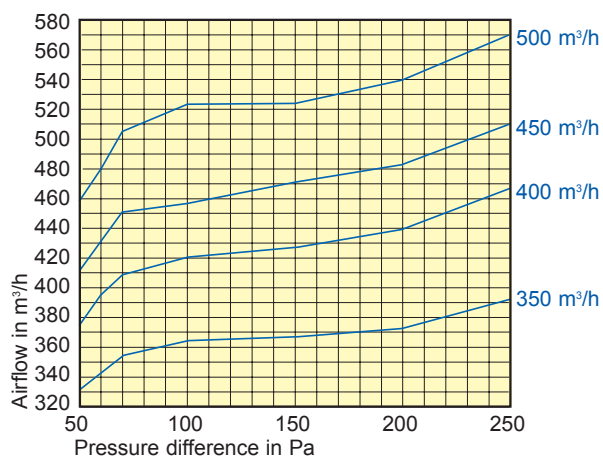
Flow regulators are characterized by their noise level in dB(A).

FLOW REGULATOR Ø 250 - 180 to 300 m³/h



Flow (m ³ /h)	Lw en dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
120	30	37	39	42
150	33	37	41	45
180	34	40	44	47

FLOW REGULATOR Ø 250 - 300 to 500 m³/h



Flow (m ³ /h)	Lw en dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
350	35	40	44	47
400	37	42	45	50
450	38	44	46	51
500	39	46	48	53

FLOW REGULATOR Ø 250 - 500 to 700 m³/h

