ADJUSTABLE
FLOW REGULATORS

anjos
inspirer le bien-être

RDR HP

dia. 80 to Ø 250 mm

Adjustable flows
Self adjusting from 150 to 600 pa

RDR HP

FIRE RESISTANT

- Self adjusting on the pressure range 150 to 600 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 150 to Ø 250 mm
- Use with a maximum temperature of 60°C

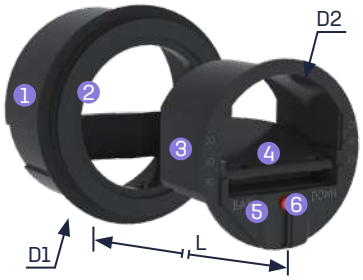
Presentation

The flow regulator RDR is an element placed inside the duct in order to obtain a constant flow within a pressure range from 150 to 600 Pascals.
It is used in air conditionning or ventilation systems either in extraction or blowing mode.

The self adjusting flow regulator **RDR HP** can be adjusted on sites according to the requested airflow.
The marks on the sides of the opening indicate the settings.

Component and dimensions

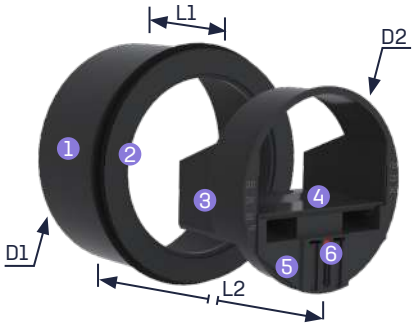
Flow regulator RDR HP Ø 80, Ø 100 and Ø 125 (≤ 100 m³/h)



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

RDR	D1 (mm)	D2 (mm)	L (mm)
Ø 80	76	76	57
Ø 100	96	93	68
Ø 125	120	60	68

Flow regulator RDR HP Ø 125 to Ø 250



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

RDR	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)
Ø 125	120	117	80	86
Ø 150	148	148	78	85
Ø 160	148	148	78	85
Ø 200	195	195	82	91
Ø 250	244	245	82	120

Composition of RDR

RDR HP	Setting	Flow (m³/h)	Set flow (m³/h)	Code
Ø 80	RDR HP Ø 80	25 to 90	75	9702
Ø 100	RDR HP Ø 80 + 1 spacer	25 to 90	75	9712
Ø 100	RDR HP Ø 100	90 to 170	150	9715
Ø 125	RDR HP Ø 80 + 1 spacer [2]	25 to 90	75	9719
Ø 125	RDR HP Ø 100 + 1 spacer	90 to 170	150	9722
Ø 125	RDR HP Ø 125	180 to 300	300	9725
Ø 150	RDR HP Ø 80 + 2 spacers [2]	25 to 90	75	9728
Ø 150	RDR HP Ø 100 + 2 spacers	90 to 170	150	9730
Ø 150	RDR HP Ø 125 + 1 spacer	180 to 300	300	9733
Ø 150	RDR HP Ø 150	300 to 500	500	9737
Ø 160	RDR HP Ø 80 + 2 spacers [2]	25 to 90	75	9738

RDR HP	Setting	Flow (m³/h)	Set flow (m³/h)	Code
Ø 160	RDR HP Ø 100 + 2 spacers	90 to 170	150	9740
Ø 160	RDR HP Ø 125 + 1 spacer	180 to 300	300	9743
Ø 160	RDR HP Ø 160	300 to 500	500	9747
Ø 200	RDR HP Ø 100 + 3 spacers	90 to 170	150	9756
Ø 200	RDR HP Ø 125 + 2 spacers	180 to 300	300	9759
Ø 200	RDR HP Ø 160 + 1 spacer	300 to 500	500	9763
Ø 200	RDR HP Ø 200	500 to 850	800	9766
Ø 250	RDR HP Ø 125 + 3 spacers	180 to 300	300	9776
Ø 250	RDR HP Ø 160 + 2 spacers	300 to 500	500	9780
Ø 250	RDR HP Ø 200 + 1 spacer	500 to 850	800	9783
Ø 250	RDR HP Ø 250	850 to 1300	1200	9787

[2] :made with a double spacer
Possiblity to get Fire Resistant components

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.

Flow regulator	Intermediary step
RDR HP Ø 80	5 m³/h
RDR HP Ø 100	8 m³/h
RDR HP Ø 125	10 m³/h
RDR HP Ø 150 - 160 - 200 - 250	25 m³/h

RDR HP Ø 80 and 100 mm

Sample of setting = 90 m³/h

RDR HP Ø 125 and 250 mm

Sample of setting = 300 m³/h

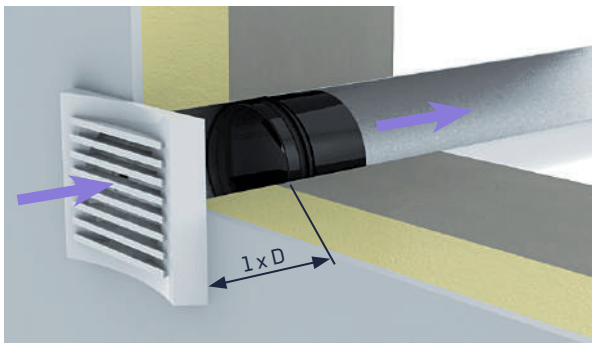
Installation

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.

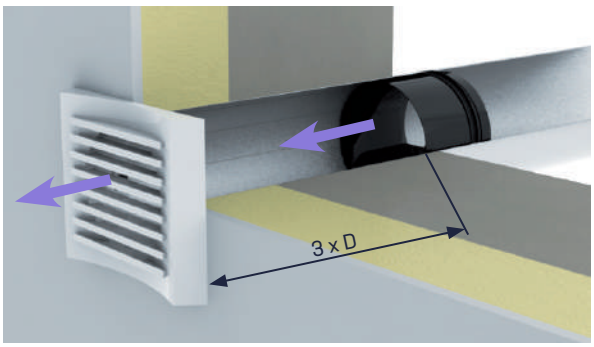
When the flow regulator is associated with a diffuser, the minimum distance between the diffuser and the regulator is at least one Ø in extraction mode and 3 Ø in blowing mode.

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

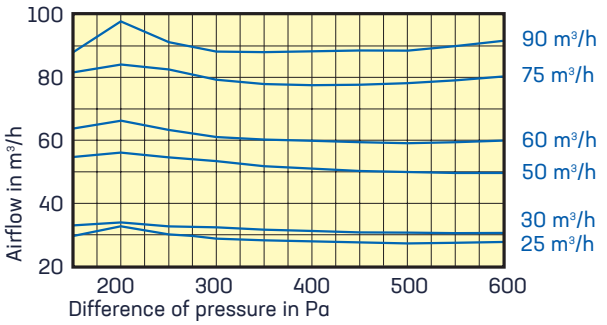
The flow regulator must remain accessible to permit its maintenance.

Characteristics
Ø 80 - 100 - 125 mm

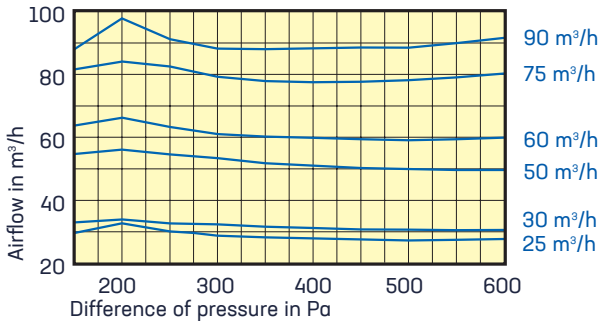
The curves show the flow variations in m³/h of RDR Ø 80, 100 and 125 mm in extraction according to the difference of pressure in Pascal (pressure range of 150 to 600 Pa).

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

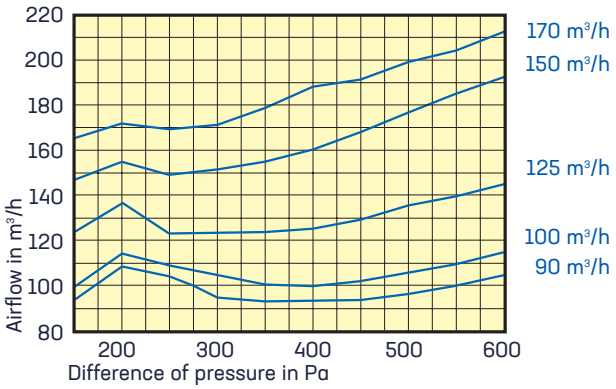
Flow regulator Ø 80 - 25 to 90 m³/h



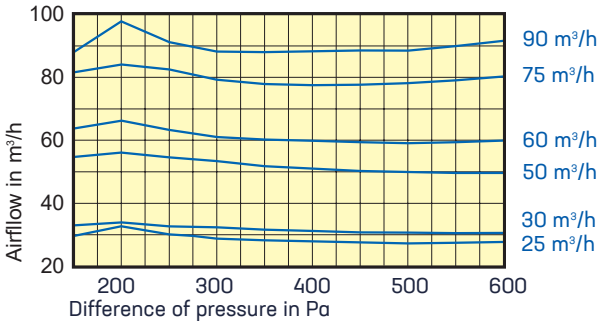
Flow regulator Ø 100 - 25 to 90 m³/h



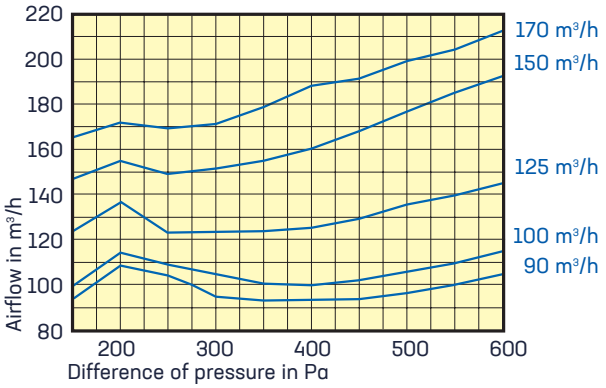
Flow regulator Ø 100 - 90 to 170 m³/h



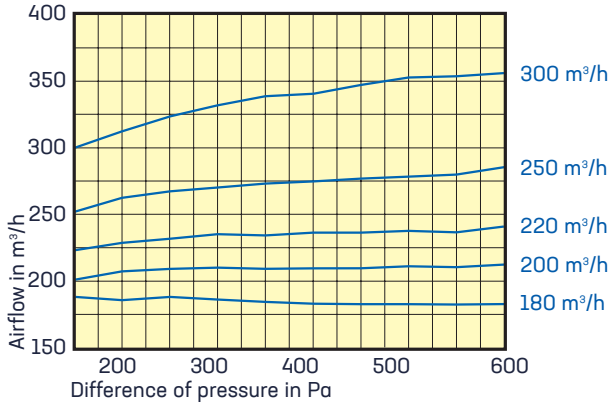
Flow regulator Ø 125 - 25 to 90 m³/h



Flow regulator Ø 125 - 90 to 170 m³/h



Flow regulator Ø 125 - 180 to 300 m³/h

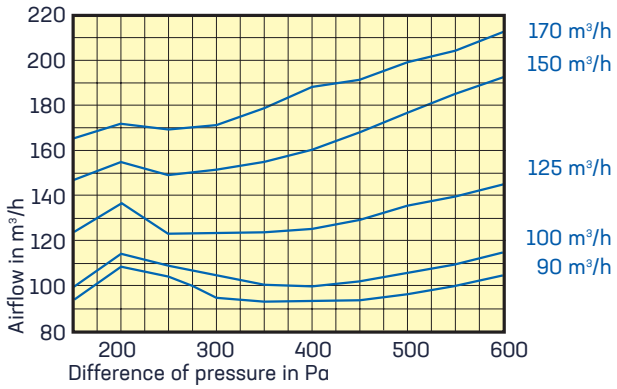


Characteristics
Ø 150 - 160 - 200 mm

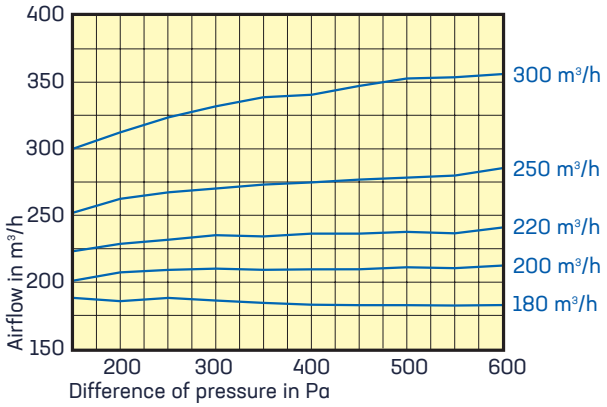
The curves show the flow variations in m³/h of RDR Ø 150, 160 and 200 mm in extraction according to the difference of pressure in Pascal (pressure range of 150 to 600 Pa).

The values given are averages which may vary of 5 % either way.

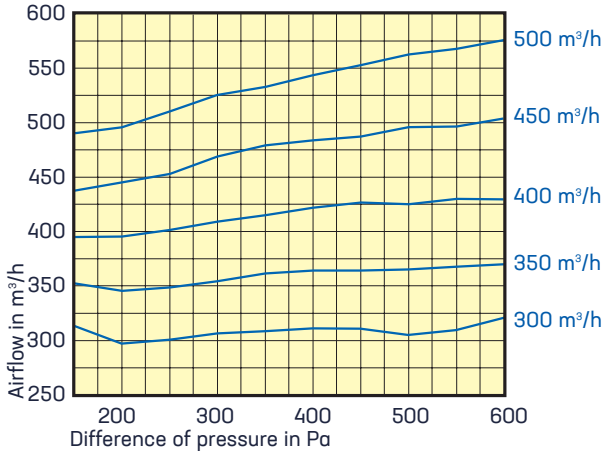
Flow regulator Ø 150/160 - 90 to 170 m³/h



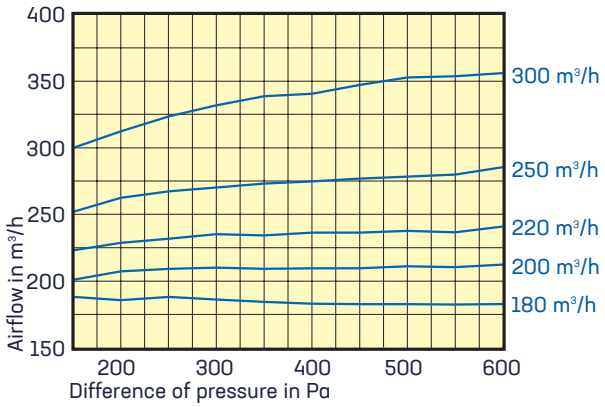
Flow regulator Ø 150/160 - 180 to 300 m³/h



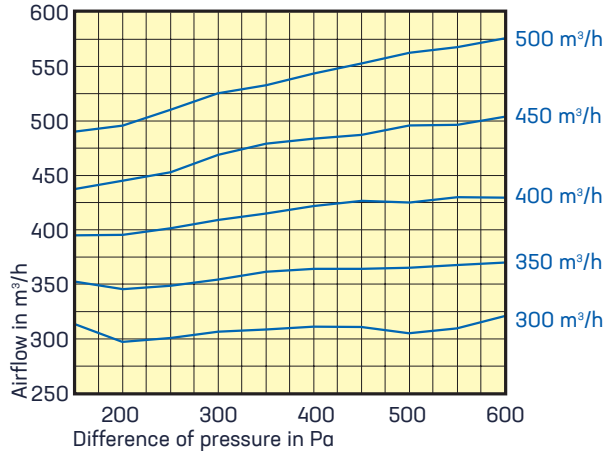
Flow regulator Ø 150/160 - 300 to 500 m³/h



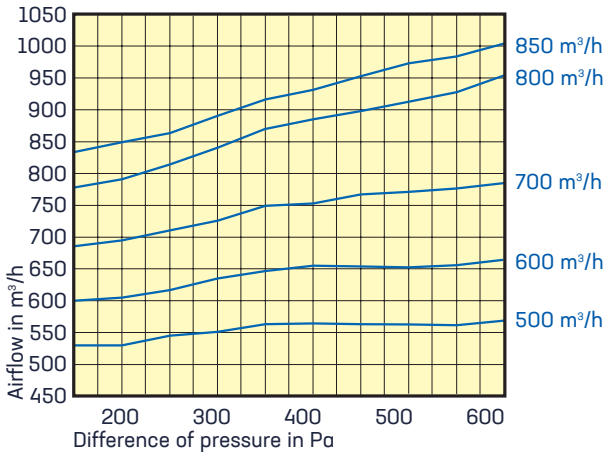
Flow regulator Ø 200 - 180 to 300 m³/h



Flow regulator Ø 200 - 300 to 500 m³/h



Flow regulator Ø 200 - 500 to 850 m³/h

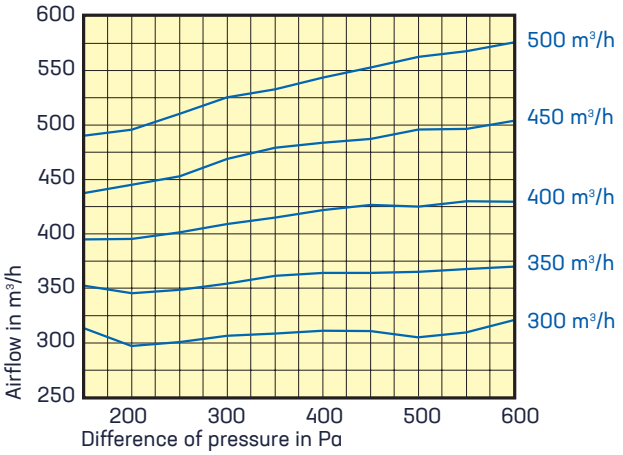


Characteristics Ø 250 mm

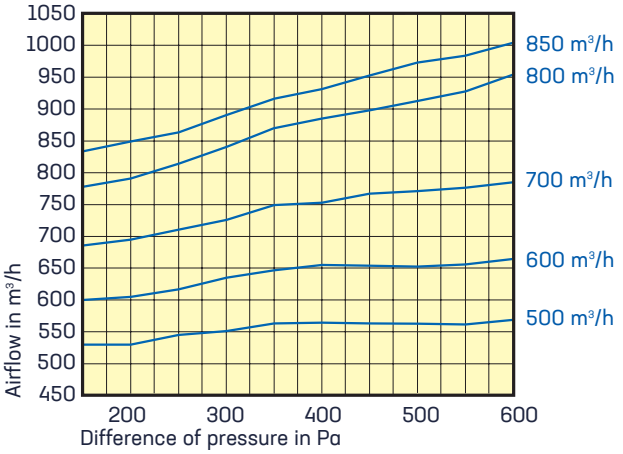
The curves show the flow variations in m³/h of RDR Ø 250 mm in extraction according to the difference of pressure in Pascal (pressure range of 50 to 250 Pa).

The values given are averages which may vary of 5 % either way.

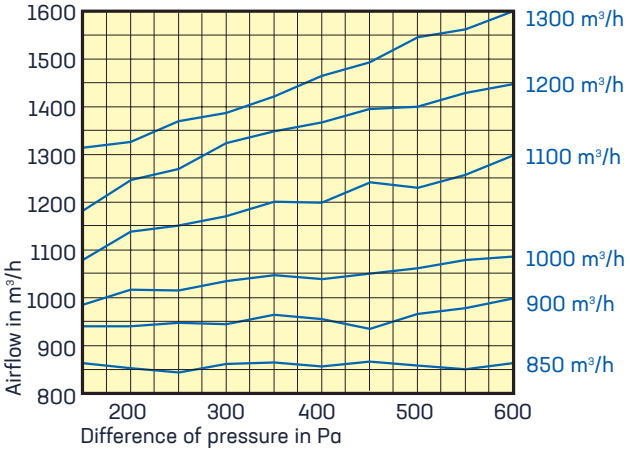
Flow regulator Ø 250 - 300 to 500 m³/h



Flow regulator Ø 250 - 500 to 850 m³/h



Flow regulator Ø 250 - 850 to 1300 m³/h



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