

ADJUSTABLE
FLOW REGULATORS

anjos

inspirer le bien-être

RDR BP

Ø 80 to Ø 125 mm

Adjustable flow rates
Self-regulating from 20 to 100 Pa





RDR BP

- Self adjusting on the pressure range 20 to 100 Pa
- Easy adjustment
- The requested air flow is fixed by a screwdriver «torx n°10»
- Made in plastic material (classified M1)
- Use with a maximum temperature of 60°C

Presentation

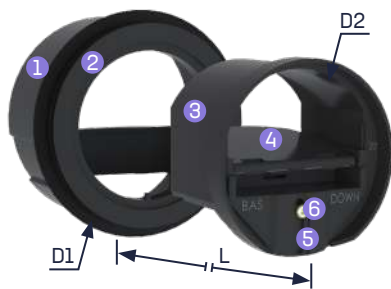
RDR BP adjustable flow regulators fit inside ducts to obtain a constant flow rate within pressure range of 20 to 100 Pa. They may be used for exhaust and supply purposes in ventilation and air conditioning system.



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

Components and dimensions

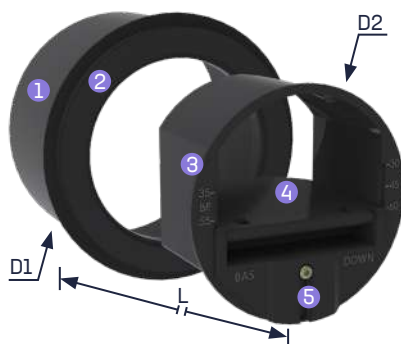
Flow regulator RDR BP Ø 80, Ø 100 and Ø 125 ($\leq 100 \text{ m}^3/\text{h}$)



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

Flow regulator RDR BP Ø 125



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

RDR BP	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)
Ø 125	120	117	80	86

RDR composition table according to flows

RDR BP	Setting	Flow (m³/h)	Set flow (m³/h)	Code
Ø 80	RDR BP Ø 80	15 to 30	30	9304
Ø 100	RDR Ø BP 80 + 1 spacer	15 to 30	30	9314
Ø 100	RDR Ø BP 100	30 to 60	60	9317
Ø 125	RDR Ø BP 80 + 1 spacer ²	15 to 30	30	9324
Ø 125	RDR Ø BP 100 + 1 spacer	30 to 60	60	9327
Ø 125	RDR Ø 125	60 to 120	120	9333

² :made with a double spacer

Possibility to get Fire Resistant components

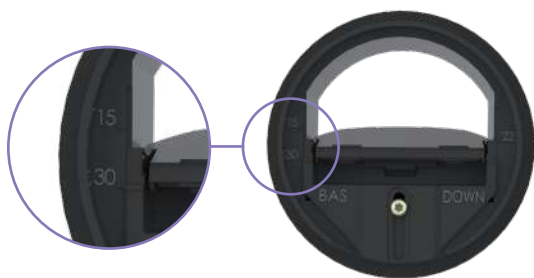
Adjustment

- Before setting the regulator, it's necessary to calibrate the flow :
- Using a T10 Torx screwdriver, loosen the screw on the adjustment module by one-quarter turn.
 - Set the cursor (on the left or right) to the desired flow rate.
 - Retighten the adjustment module locking screw.

It is possible to obtain other flow rates than those indicated on the controller by setting the mark of the adjustment module to an intermediate position.

Flow regulator	Intermediary regulator
RDR BP Ø 80	1,5 m ³ /h
RDR BP Ø 100	3 m ³ /h
RDR BP Ø 125	5 m ³ /h

dia. 80 and 100 mm RDR



Example of an adjustment at 30 m³/h:
regulator set at the '30' mark on the left

dia. 125 mm RDR



Example of an adjustment at 120 m³/h:
regulator set at the '120' mark on the right

Installation

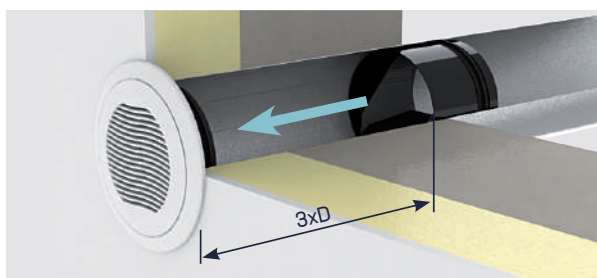
The flow regulators are simply fitted into vertical or horizontal ducts. In the horizontal duct, respect the mention «DOWN» indicated at the front of the product. A lip seal ensures the airtightness.

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

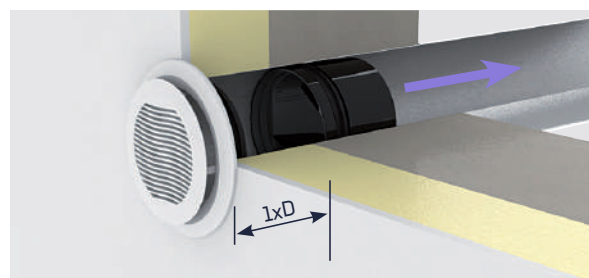


When installing, do not touch the piece of regulation

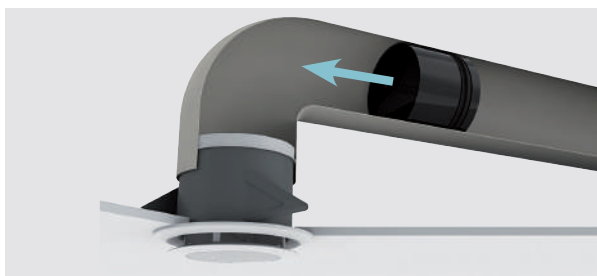
It is essential to comply with the direction of air flow shown on the sleeve.



RDR BP in extraction mode



RDR BP in blowing mode



Maintenance

The flow regulator must remain accessible to permit its maintenance.

Characteristics

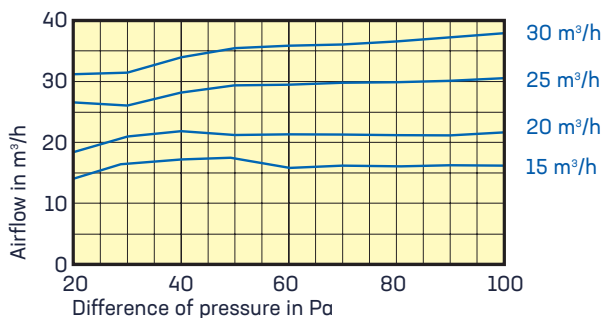
Ø 80 - 100 - 125 mm

The air flow curves below show changes in the flow rates (m³/h) for dia. 80, 100 and 125 mm RDR BP during exhaust as a function of the pressure differential in Pa (pressure setting of 20 to 100 Pa).

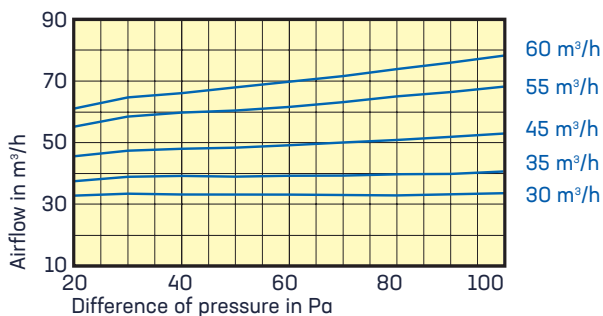
These values are average values. They may vary by:

- ± 3 m³/h for flow rates ≤ 50 m³/h
- + 5 m³/h for flow rates > 50 m³/h

Flow regulator - dia. 80/100/125 mm - 15 to 30 m³/h



Flow regulator - dia. 100/125 mm - 30 to 60 m³/h



Flow regulator - dia. 125 mm - 60 to 120 m³/h

