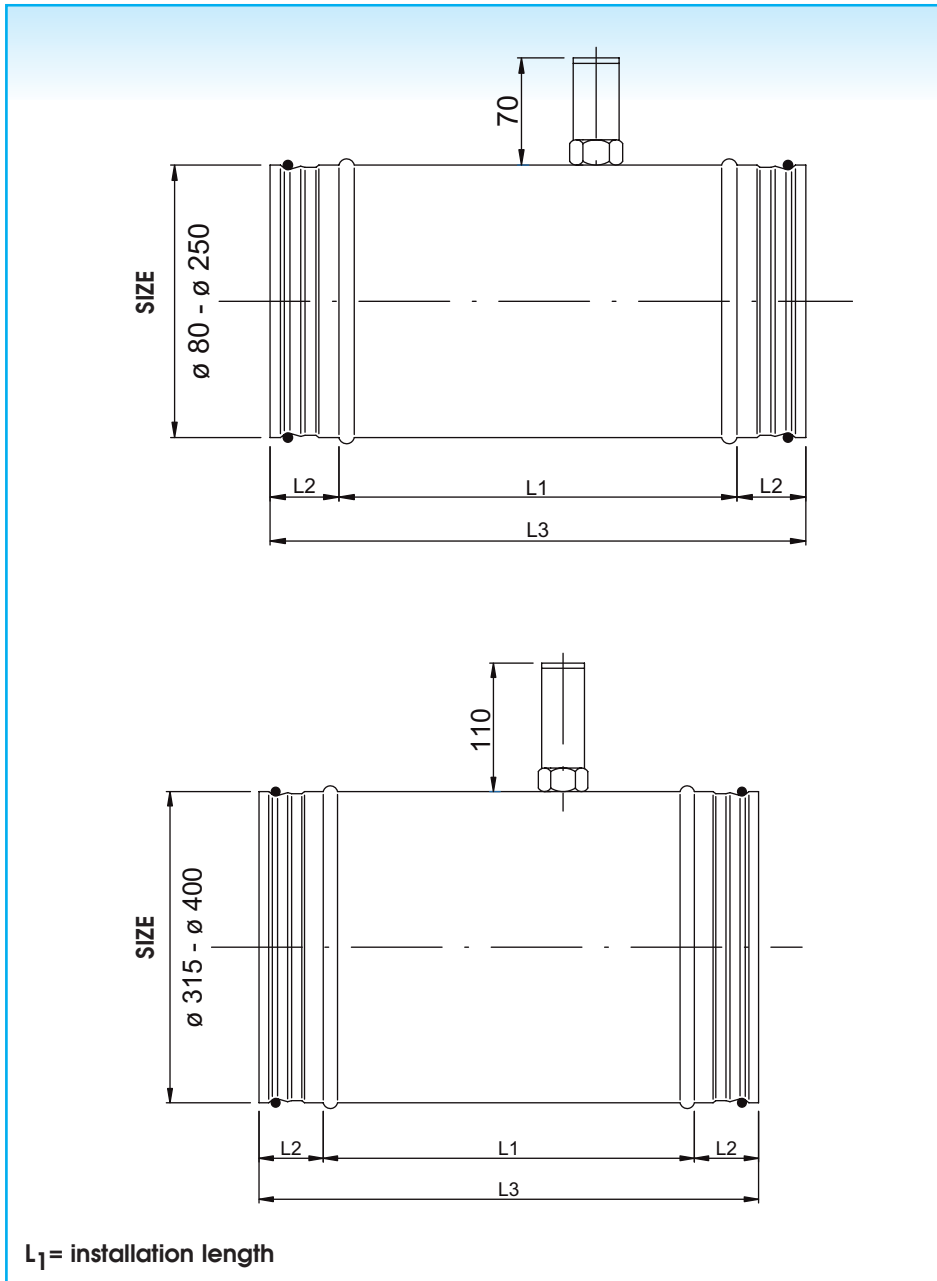


ROUND VOLUME FLOW CONTROLLER RVC

Installation dimensions



Application

The round mechanical constant volume controller, type RVC, is suitable for both supply and exhaust of air in both high and low pressure systems. The controller keeps the air quantity constant (CAV) without auxiliary power and independent of the static initial pressure. The air flow is set at the factory, with adjustment possible within the whole control range by means of graduation.

Technical information

Characteristics:

- suitable for air quantities of 40 to 4,500 m³/h
- available in 9 sizes
- operating temperature: -0°C to +100°C
- differential pressure range: minimum differential pressure (see diagram 1) to maximum 1000 PA
- air quantity-control precision: +/- 10% (if <100 m³/h, variation to 10 m³/h)
- recommended air speed: 4.5 m/s (minimum 2.7 m/s)
- low resistance
- can be assembled in any position
- short fitting length
- control mechanism is maintenance free

Construction:

- T-housing: smooth round tube made of galvanized steel sheet, laser-welded. With a plug and socket connection with rolled rubber sealing ring on both ends.

Selection table

| Size (mm) | Airflow m ³ /h | | Dimensions in mm | | |
|-----------|---------------------------|------|------------------|----------------|----------------|
| | min. | max. | L ₁ | L ₂ | L ₃ |
| 80 | 40 | 125 | 120 | 40 | 200 |
| 100 | 70 | 220 | 170 | 40 | 250 |
| 125 | 100 | 280 | 170 | 40 | 250 |
| 140 | 140 | 400 | 170 | 40 | 250 |
| 160 | 180 | 500 | 240 | 40 | 320 |
| 200 | 250 | 900 | 240 | 40 | 320 |
| 250 | 500 | 1500 | 240 | 40 | 320 |
| 315 | 800 | 3000 | 220 | 60 | 340 |
| 400 | 1000 | 4500 | 295 | 60 | 415 |

- valve face, valve spindle and spring made of stainless steel materials
- synthetic bearings
- provided with 25 or 50 mm of insulation upon request
- volume control provided with servo motor: upon request

Specifications description

Circular air volume controller for constant volume systems, mechanically independent operation without auxiliary power, suitable for inlets and outlets, differential pressure range to 1000 PA. Excellent air quantity accuracy, maintenance-free and can be fitted in any position.

Made of galvanized steel sheet with plug and socket connections and rubber seals. The air volume is set at the factory, with the possibility of manually changing this setting after assembly over the whole control range by means of graduation.

Type: RVC
size... mm

Fixing

The special plug and socket connections do not require screws or rivets with horizontal assembly. Can also be fitted in vertical ducts. The functioning of the controller is not influenced by the construction and suspension system.

Regarding the assembly position, any disruption of the approaching flow due to bends or branches in ducts must be taken into account.

A straight supply flow of at least three times the control diameter is recommended. If this is not maintained, a slight variation in the set volume is possible.

Delivery possibilities

Possible dimensions: ø 80 mm up to ø 400 mm

How to order

Round Volume flow Controller diameter 200 mm, for an airflow of 500 m³/h

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|------|---|---|---|---------|---|---|---|
| R | V | C | - | - | - | - | 0 | 2 | 0 | 0 | 0 | 5 | 0 | 0 |
| | | | | | | | size | | | | airflow | | | |