

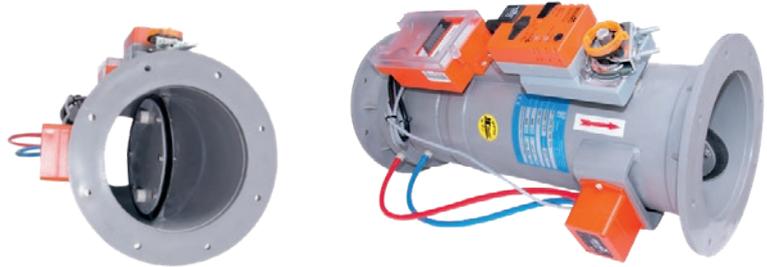
Variable volume flow controller



HF - VRR
Variable volume flow controller
round design
for controlling and
shutting off air flows in the
corrosive sector



Variable volume flow controller round design for controlling and shutting off air flows in the corrosive sector



Application

The variable volume flow controller keeps the preset / programmed air flow at a constant value, regardless of changing pressure conditions.

A complete shutdown of the pipeline is possible through the integrated sealed shut-off valve. Depending on the volume flow, differential pressure is built up in the Venturi nozzle. This differential pressure is forwarded to the regulator by the pressure sensor.

The controller performs a comparison of the target and actual values and on this basis addresses the actuator. This adjusts the valve blade until the specified target volume flow is reached.

Design

- Corrosion protection: all parts exposed to the air flow are made of plastic
- Materials: PPs, PVC, PP, PE
- Pipe connection: Flange or sleeve connection
- Control function: quick and exact compensation with an accuracy of +/- 5% of the preset volume flow
- Annular chambers: plus and minus-side annular chambers for pressure tapping increase the measuring accuracy and the measurement results in unfavourable installation situations.

Construction

The volumetric flow rate regulator consists of a round body with a pipe connection on both sides (flange or bushing connection).

A sealed shut-off valve and a Venturi nozzle are integrated in the round body to determine the differential pressure.

The Venturi nozzle is equipped with a plus and minus-side annular chamber.

The control unit (pressure sensor, regulator, actuator) is mounted on the tubular body.

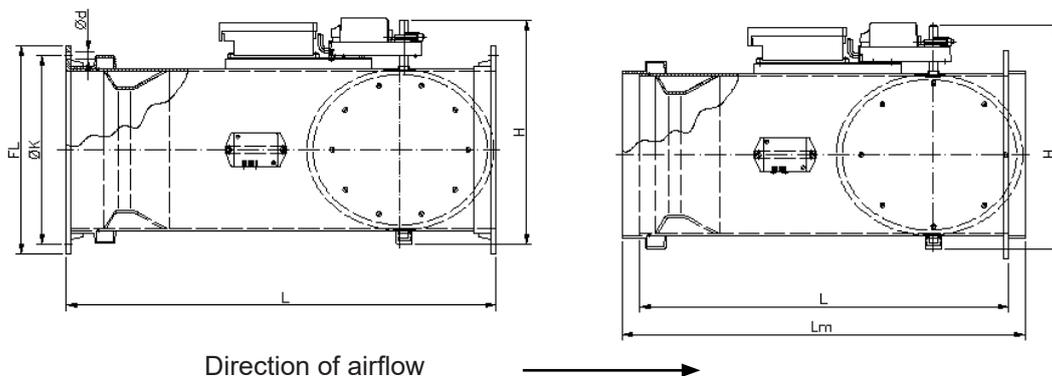
- Complete shutdown: sealed in accordance with DIN 1946 - Part 4
- Pressure loss: minimum pressure difference 100 Pa at nominal volume flow
- Manufacturer: the variable volume flow controller can be equipped with all electric or pneumatic control combinations from different manufacturers at buyer's choice.



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Flange version

Sleeve version



Type	ND	FL	ØK	Ød	Number Ød	L	Lm	Volume flow (m³/h)
HF - VRR 110	110	170	150	7	4	400	*	70-330
HF - VRR 125	125	185	165	7	8	400	*	80-440
HF - VRR 140	140	200	175	7	8	400	*	110-550
HF - VRR 160	160	230	200	7	8	450	500	150-1000
HF - VRR 180	180	250	220	7	8	490	*	170-920
HF - VRR 200	200	270	240	7	8	510	560	250-1400
HF - VRR 225	225	295	265	7	8	700	*	270-1420
HF - VRR 250	250	320	290	7	12	700	750	350-2100
HF - VRR 280	280	360	325	9	12	760	*	420-2200
HF - VRR 315	315	395	350	9	12	760	810	700-3200
HF - VRR 355	355	435	400	9	12	1050	1100	600-3500
HF - VRR 400	400	480	445	9	16	1100	1150	800-5200
HF - VRR 500	500	580	550	9	20	1300	*	1600 - 8700
HF - VRR 560	560	640	610	11	24	1450	*	1700 - 9600
HF - VRR 630	630	710	680	11	24	1600	*	~1900 - ~12100

* These volumetric flow rate regulators are not available in the sleeve version.

Dimensions and design are subject to change without notice



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