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Constant Airflow Regulators MR

General

- Aeraulic disturbances in the different branches of CMEV or air conditioning ductworks cause airflow variations.
- By regulating the airflow forecast in the calculations, we protect the hygiene (CMEV) and thermal comfort of the occupants (air-conditioning) while limiting the operating costs of the fan or air handling unit.

Principle

- The constant airflow regulator (MR) balances the airflow in the CMEV or air conditioning ductworks. It easily fits into a part of the circular ductwork to maintain constant and reliable airflow within a wide range of differential pressure (50-200 Pa for the standard version and 150-600 Pa for the high-pressure version).
- Its flexible bulbs inflates and deflates according to the pressure difference between upstream and downstream of the module, thus modifying the free area of the module (diagram below).
- This principle guarantees constant airflow regardless of the aeraulic variations in the ductwork.

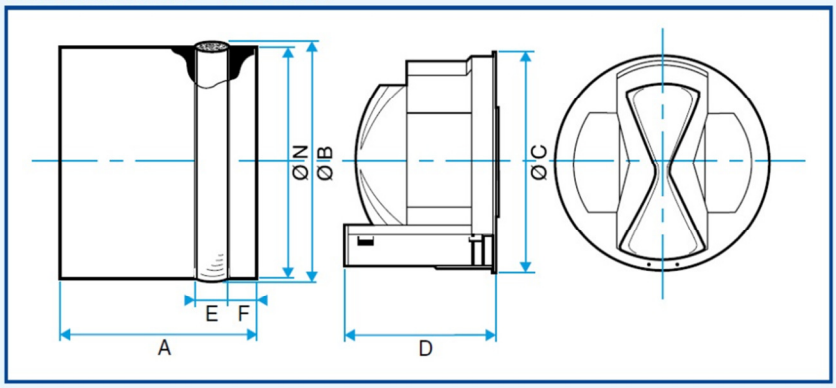
Application Area

- Maintaining airflows in CMEV or air conditioning ductworks.
- Use in air supply and air exhaust.
- Temperature range of use: -10 to 60° C.
- Differential pressure operating range:
  - 50 to 200 Pa for the standard versions,
  - 150 to 600 Pa for the high-pressure models.

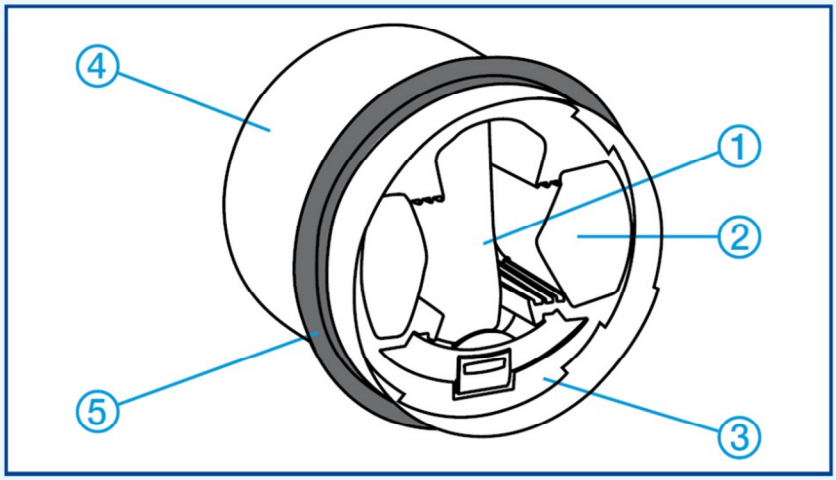
Description

① Regulating silicon bulb,
② M1 plastic clips,
③ M1 plastic environment,
④ M0 galvanised steel sleeve,
⑤ Airtightness seal:
- elastomer for the Ø 100,125, 160, 200 and 250,
- foam for the Ø 80 and 150.

DIMENSIONS - WEIGHT



Ø (mm)	airflow (m^3/h)	ØN (mm)	ØB (mm)	ØC (mm)	A (mm)	D (mm)	E (mm)	F (mm)	Weight (g)
80	15 - 60	76	82	75	80	79	15	12	150
100	15 - 40	98	104	95	80	53	13	16	190
	45 - 90					60			
125	15 - 30	121	128	119	137	53	13	16	400
	45 - 60					60			
	75 - 160					95			
150	110 - 250	143	149	148	139	105	20	19	570
160	120 - 250	156	166	148	137	105	20	19	570
200	200 - 400	196	206	192	150	125	20	19	920
250	300 - 650	247	256	242	175	158	20	19	1700



Advantages

Regulating technology with a flexible bulb exclusive to Aldes, offering:

- a reliability of acoustic and aeraulic performances,
- a regulating reliability unaltered by clogging,
- an operating silence: no clatter or other parasitical sound due to pressure variations.
- a wide range of airflows and diameters available,
- horizontal or vertical mounting,
- a guaranteed airflow with no on-site adjustment,
- a use for air supply or air exhaust with the same product.

Use of the constant airflow regulator MR guarantees:

- hygienic air quality (ventilation) or thermal comfort of occupants (air-conditioning),
- a simplification of the installation studies for air distribution ductworks,
- reduced operating costs,
- substantial time saved in installation linked to absence of commissioning.

STANDARD MR RANGE (50- 200 PA)

- Ø80 to 250 mm,
- Q = 15 to 650 m³/h.

Ø (mm)	Airflow (m³/h)	Code
80	15	11016320
	20	11016325
	25	11016326
	30	11016321
	35	11016324
	40	11016327
	45	11016322
	50	11016328
	60	11016323
100	15	11016330
	20	11016170
	25	11016336
	30	11016331
	35	11016338
	40	11016171
	45	11016332
	50	11016337
	55	11016172
	60	11016333
	65	11016339
	70	11016200
	75	11016334
	80	11016201
	85	11016173
	90	11016335
125	15	11016346
	25	11016340
	30	11016347
	45	11016348
	50	11016341
	60	11016349
	75	11016342
	80	11016205
	85	11016208
	90	11016209
	95	11016174
	100	11016343
	105	11016175
	110	11016176
	120	11016191
	130	11016344
	140	11016213
	160	11016345
150	110	11016178
	130	11016370
	150	11016179
	170	11016371
	210	11016372
	250	11016373
160	120	11016180
	130	11016350
	140	11016181
	150	11016192
	160	11016182
	170	11016351
	180	11016183
	190	11016184
	200	11016185
	210	11016352
	250	11016353
200	200	11016360
	225	11016186
	250	11016361
	275	11016187
	300	11016362
	325	11016188
	350	11016363
	400	11016364
250	300	11016365
	350	11016189
	400	11016366
	450	11016190
	500	11016367
	550	11016368
	650	11016369

HIGH-PRESSURE MR RANGE (150-600 PA)

- Ø125 to 250 mm,
- Q = 110 to 1100 m³/h

Ø (mm)	Airflow (m³/h)	Code
125	110	11016101
	150	11016102
	200	11016103
	240	11016104
	290	11016105
150	210	11016111
	260	11016112
	310	11016113
	380	11016114
	450	11016115
160	210	11016106
	260	11016107
	310	11016108
	380	11016109
	450	11016110
200	350	11016116
	440	11016117
	530	11016118
	620	11016119
	700	11016120
250	550	11016121
	600	11016122
	800	11016123
	950	11016124
	1100	11016125