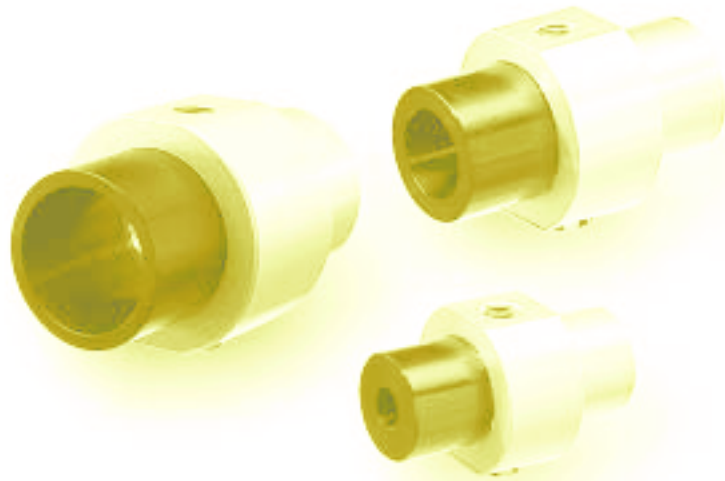
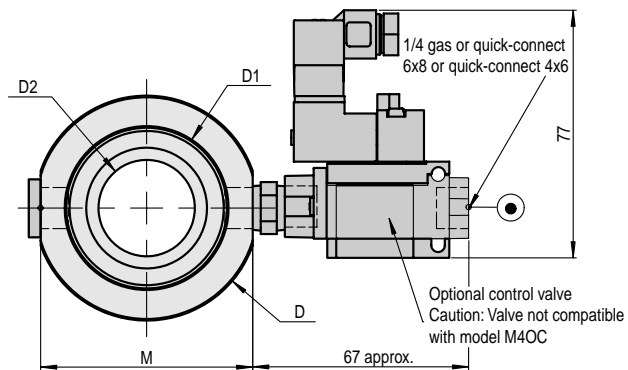
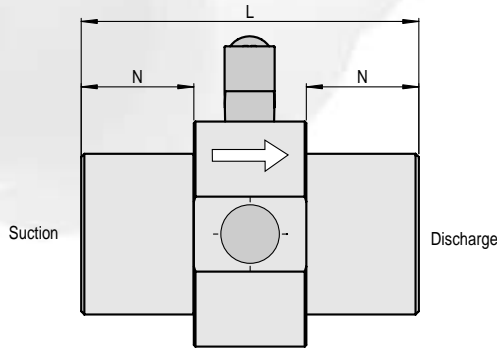


# Air amplifiers



# Air amplifiers, series M -- C



## Applications:

- Gripping of extremely porous and light products : foams, carpets, pastries, leather, etc.
- Transport of powders, granules, ...
- Transport of small light parts : paper clips, rice, coffee, etc.
- Smoke removal, depressurization of tanks, etc.

## Characteristics:

Models	L mm	N mm	M mm	C.A. gas	D mm	D1 mm	D2 mm	Weight g
M 6 C	60	20	36	1/8	40	25	6	80
M 10 C	60	20	36	1/8	40	25	10	80
M 20 C	90	30	55	1/4	60	40	20	210
M 30 C	105	35	66	1/4	70	50	30	290
M 40 C	120	40	86	3/8	90	60	40	470

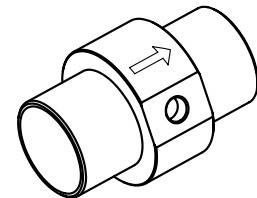
## Operating principle:

Owing to the COANDA effect (wall effect), the motor flux draws in ambient air.

This physical phenomenon considerably amplifies the flow rate. Consequently, the very large drawn-in flow rate is obtained for a low consumption.

## Specifications:

Supply pressure	Dry, non-lubricated, 1.5 to 6 bars
Maximum negative pressure	See tables on page 50
Materials	Aluminium body
Temperature	-20°C to +80°C

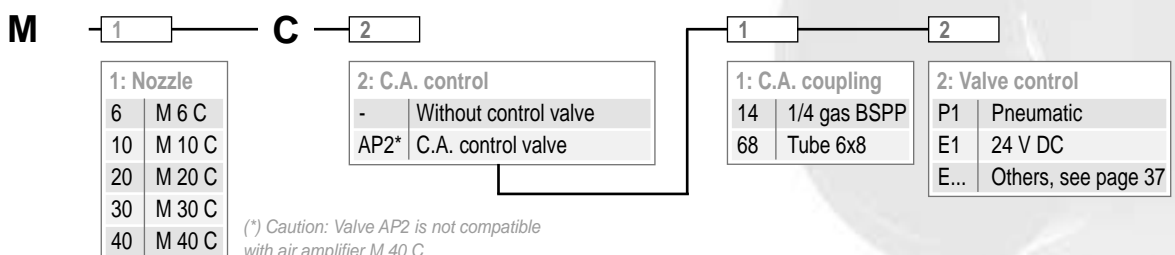


## Special materials:

- Possibility of special materials such as stainless steel or plastic, as per work specifications.
- The five materials provide the best amplification ratio (consumption/drawn-in flow rate). **COVAL** can design models with a lower amplification ratio (higher consumption) but a higher maximum negative pressure for the carrying of heavy items.
- Hard treatments are applied for the carrying of highly abrasive products such as sand.

## Operating requirement:

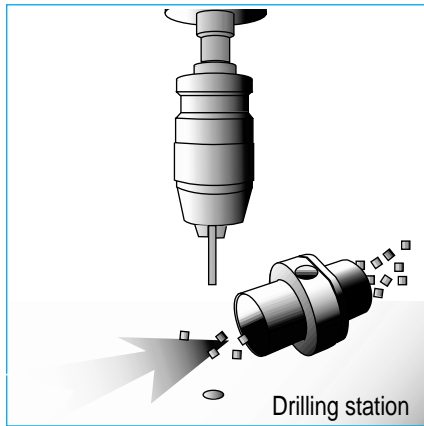
5-micrometre filtration of the compressed air is required for model M 6 C and 20-micrometre filtration is required for other models.



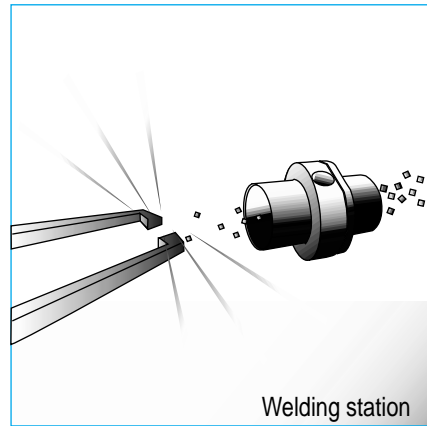
# Air amplifiers, series M -- C



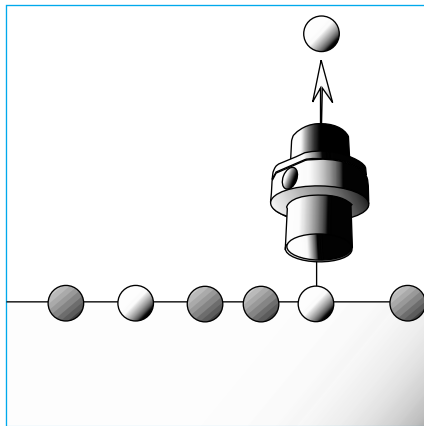
► *Blow-off, cleaning, waste suction:*



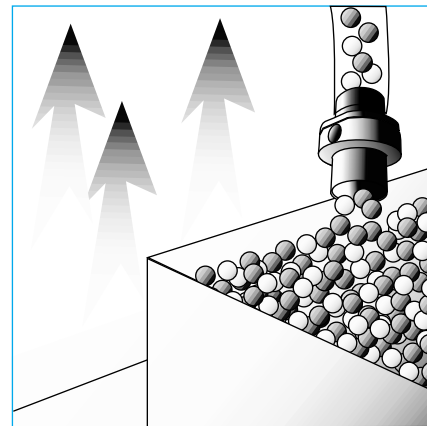
► *Evacuation of toxic vapours:*



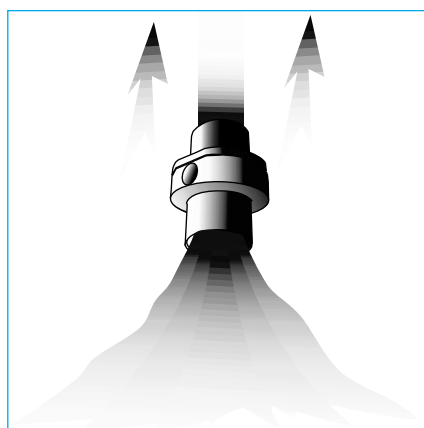
► *Sorting by weight:*



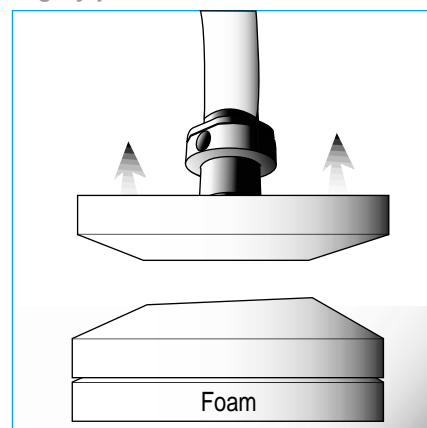
► *Transportation of pulverulent products: rice, wheat grains, coffee, etc.:*



► *Degassing, smoke removal:*



► *Gripping and/or unstacking of highly porous loads:*



Possibility of fitting a vacuum switch PG30, -100 to 100 mb, for part presence checking.

Dimensions and characteristics may be modified without notice.

# Air amplifiers, series M -- C

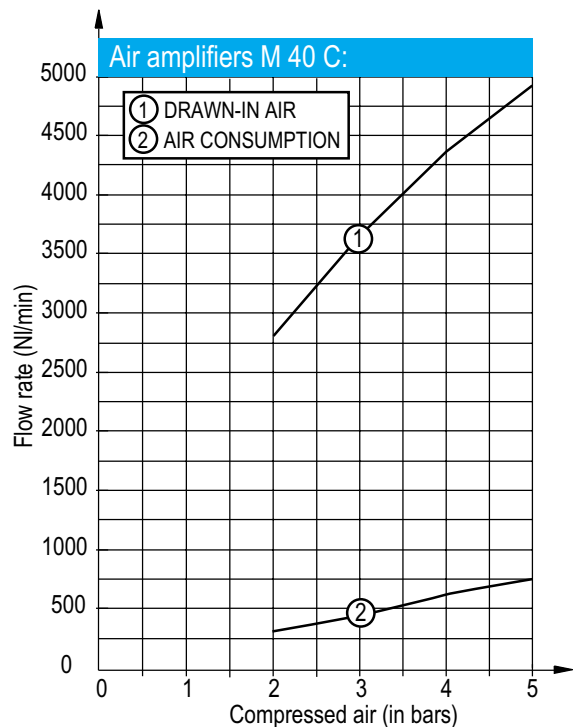
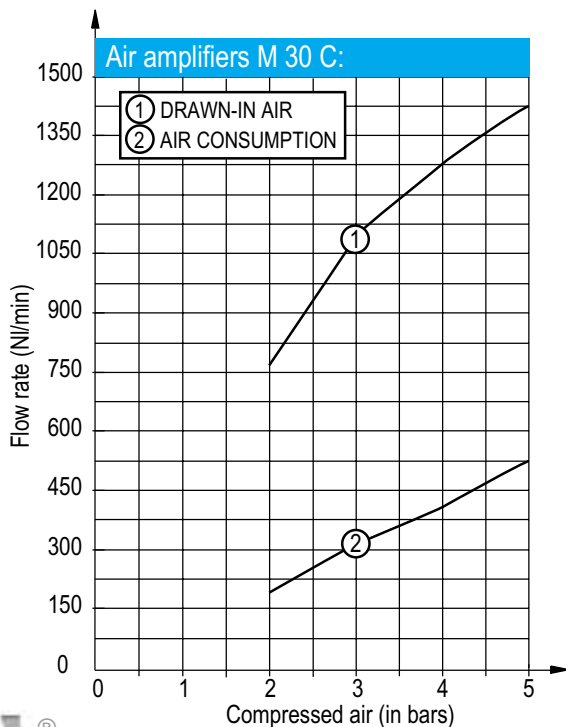
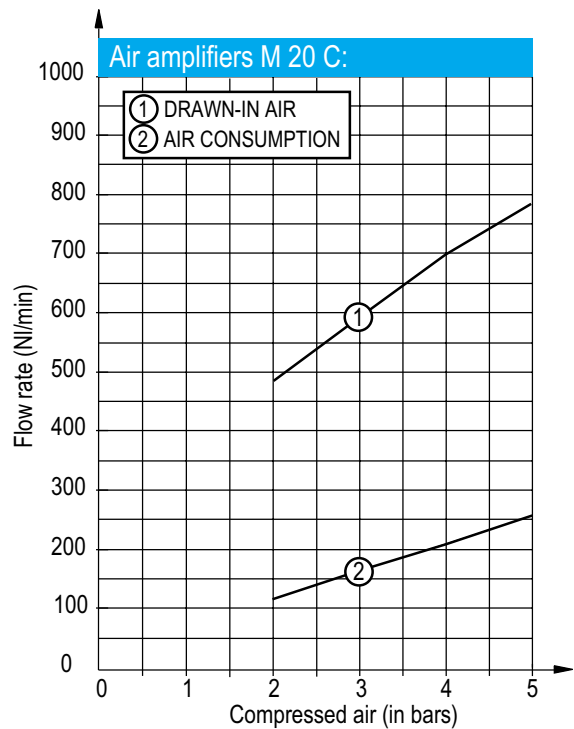
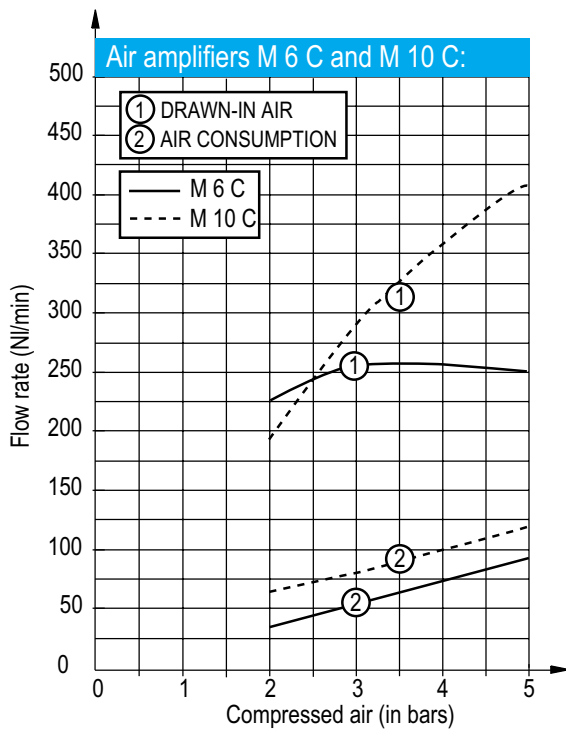
## Maximum negative pressure / Supply pressure:

Models	Supply pressure / Max. negative pressure in mm (water column)			
	2	3	4	5
M 6 C	900	1500	2000	2600
M 10 C	200	500	700	1000
M 20 C	207	310	400	510
M 30 C	90	130	220	280
M 40 C	140	200	284	360

## Maximum overpressure / Supply pressure:

Models	Supply pressure / Max. overpressure in mm (water column)			
	2	3	4	5
M 6 C	100	550	1300	2000
M 10 C	400	700	1500	2000
M 20 C	220	340	500	600
M 30 C	45	70	100	160
M 40 C	96	145	199	290

## Curves for air amplifiers, series M -- C



Dimensions and characteristics may be modified without notice.

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