

M/58102

Multi stage vacuum pumps

-0,87 bar

- Fast response
- Compact, lightweight
- Low sound level
- Compressed air driven
- Simple installation
- Standard and non-return valve types



Technical features

Medium:
Compressed air, filtered and non-lubricated

Operation:
Multi ejektor system

Operating pressure:
6 bar max.



Vacuum:
- 0,87 bar max.

Sound level:
75 ... 80 dB [A]

Operating temperature:
0 ... +80°C for M/58102/10 ... /30
0 ... +60°C for M/58102/60 ... /120
Air supply must be dry enough to avoid ice formation at temperatures below +2°C

Materials:
M/58102/10 to M/58102/30
Vacuum chips: ABS with 30% fibreglass,
Sub base: Aluminium
Seals: NBR
M/58102/60 to M/58102/120
Housing: Aluminium
End caps: ABS
Mountings: Steel
Seals: NBR or PUR

Technical data

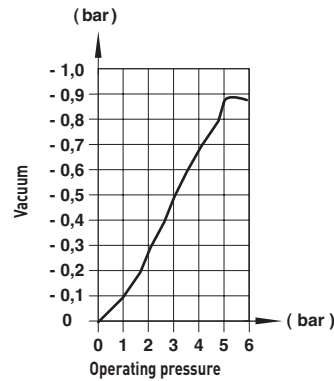
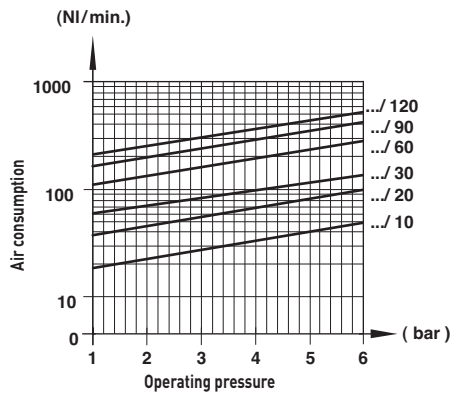
Symbol	Valve type	Silencer *2)	Induced air *1) (Nl/min)	Air consumption (l/min)	Weight (kg)	Model
	Standard	Ported	80	49	0,080	M/58102/10
	Standard	Ported	160	98	0,095	M/58102/20
	Standard	Ported	240	144	0,110	M/58102/30
	Standard	Integral	480	285	0,855	M/58102/60
	Standard	Integral	708	471	1,105	M/58102/90
	Standard	Integral	910	528	1,150	M/58102/120
	Non-return valve	Ported	80	49	0,080	M/58102/N/10
	Non-return valve	Ported	160	98	0,095	M/58102/N/20
	Non-return valve	Ported	240	144	0,110	M/58102/N/30
	Non-return valve	Integral	480	285	0,855	M/58102/N/60
	Non-return valve	Integral	708	471	1,105	M/58102/N/90
	Non-return valve	Integral	910	528	1,150	M/58102/N/120

*1) Values given are theoretical and apply to an operating pressure of 6 bar.

*2) For models with ported, use silencer number M/58019

Flow characteristics

(All values given apply to an atmospheric pressure of 1013 mbar)



Induced air (NI/min), free air

0 bar	-0,1 bar	-0,2 bar	-0,3 bar	-0,4 bar	-0,5 bar	-0,6 bar	-0,7 bar	-0,8 bar	Model
80	55	32	28	25	18	13	5	1,5	M/58102/10
160	110	64	56	50	36	26	10	3	M/58102/20
240	165	96	84	75	54	39	15	4,5	M/58102/30
480	270	182	168	150	108	78	30	9	M/58102/60
708	427	273	252	225	162	117	45	13,5	M/58102/90
910	568	355	336	300	216	156	60	18	M/58102/120

Note: values given in the tables are theoretical and apply to an operating pressure of 6 bar

Time (sec) for evacuation of 1 litre volume to vacuum

-0,1 bar	-0,2 bar	-0,3 bar	-0,4 bar	-0,5 bar	-0,6 bar	-0,7 bar	-0,8 bar	-0,85 bar	Model
0,07	0,2	0,45	0,75	1,15	1,73	2,61	4,13	5,82	M/58102/10
0,035	0,1	0,23	0,37	0,57	0,86	1,32	2,07	2,92	M/58102/20
0,023	0,07	0,15	0,25	0,38	0,58	0,87	1,38	1,94	M/58102/30
0,012	0,034	0,08	0,12	0,19	0,29	0,44	0,69	0,97	M/58102/60
0,007	0,023	0,05	0,08	0,13	0,19	0,29	0,46	0,65	M/58102/90
0,006	0,017	0,04	0,06	0,1	0,15	0,22	0,35	0,49	M/58102/120

Recommended tube dimensions (internal diameter)

Compressed air	Vacuum	Exhaust	Model
> Ø 3	> Ø 7	> Ø 9	M/58102/10
> Ø 3	> Ø 7	> Ø 9	M/58102/20
> Ø 4	> Ø 9	> Ø 9	M/58102/30
> Ø 4	> Ø 19	-	M/58102/60
> Ø 5	> Ø 19	-	M/58102/90
> Ø 5	> Ø 22	-	M/58102/120

Accessories

Silencer	Vacuum gauge
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