LDA
Solutions for Life

VACCON
VACUUM PRODUCTS

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ACCELERATING AUTOMATION
WITH VACUUM TECHNOLOGY

AA Series Silencers

VP00-60H with AA2 silencer

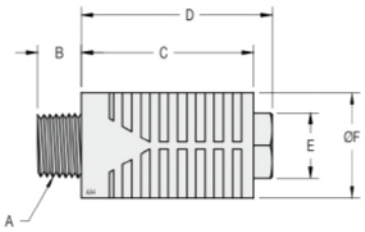
AA Series silencers have excellent noise reducing characteristics with minimal resistance to air flow. AA Series silencers are one third smaller than comparable products, providing considerable space savings. The large surface of the felt element resists contamination far more than other materials such as sintered bronze, steel mesh or porous polyethylene.

Features:

- Compact
- Lightweight
- Durable
- 4 Thread sizes 1/8, 1/4, 3/8, 1/2
- Closed-end silencer

Benefits:

- Maximize performance – silences pneumatic equipment without back pressure.
- Increase productivity and operator safety – reduces irritating noise, improves working environment
- Closed-end silencer – contaminants can't escape
  - ~ maintains clean environment
  - ~ reduces maintenance costs
  - ~ increases equipment life



Model #		Dimensions						Weight	Construction				Noise Level
		A*	B	C	D	E	F		Body	Baffle	Screen	Element	
AA2	in.	1/8	0.23	0.97	1.08	0.39	0.61	0.1 oz	Nylon	Nylon	Nylon	Felt	58dB
	mm.		5.8	24.6	27.4	9.91	15.5	3g					
AA4	in.	1/4	0.32	1.26	1.39	0.47	0.77	0.2 oz					62dB
	mm.		8.1	32.0	35.3	11.94	19.6	6g					
AA6	in.	3/8	0.41 [10.4]	1.74 [44.2]	1.86 [47.2]	0.62 [15.75]	0.96 [24.4]	0.4 oz [11g]					70dB
	mm.												
AA8	in.	1/2											72dB
	mm.												

**Fits NPT, BSPP and BSPT threads.*

AA Series Silencers Operating Specifications:

Max. Operating Pressure: Not to exceed 150 PSI [10 bar]

Noise level: Measured 4.5 ft on the diagonal from the silencer while attached to a Vaccon pump. Noise levels will vary on Vaccon and non-Vaccon products.

Note 1: Vaccon strongly recommends the use of silencers on all vacuum pumps.

Note 2: Vaccon silencers are used on all types of pneumatic devices such as air-operated vacuum pumps, air motors, valves, cylinders and more.

How to Specify:

- **For Silencer only:** Order by Model #.
- **Vaccon pump/silencer combinations:** Vaccon pumps include a silencer(s) that has been sized to ensure maximum pump performance. See specific pump for silencer options.
- **Non-Vaccon pneumatic devices:** The thread size on the exhaust port of the pneumatic device determines the size of the silencer.
- Equipment and applications may vary. Consult factory for proper silencer selection.

ST Series Silencers

ST Silencers - male and female threads

VDF 250-ST4A-2

Features:

- Straight-through design
- Felt liner provides low frequency sound
- Male and female connections
- 18 models

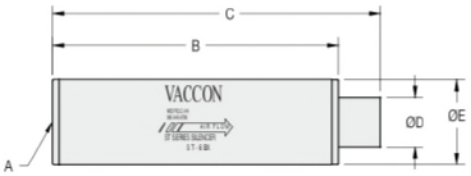
Benefits:

- Reliable – straight through design – non-clogging
- Maximize performance – silences pneumatic equipment without back pressure
- Increase productivity and operator safety
- Reduces irritating noise, improves working environment
- Increase savings – reduces maintenance costs, increases equipment life

The ST Series Silencers are designed with a straight through flow path that eliminates clogging by allowing the contaminants to pass directly through the silencer. Each silencer is tuned in proportion to its exhaust flow to minimize noise.

As air passes through the silencer, the dense felt element absorbs the noise, thus reducing high pitch exhaust noise to a gentle, low frequency sound. Even in the most adverse conditions, contaminates pass through the silencer making the ST Series ideal for silencing vacuum pumps that are continuously ingesting dirt and debris.

ST Series Silencers: Female Threads



ST Series - female threads

Model #		Dimensions					Weight	Construction		Noise Level
		A	B	C	D	E		Body	Element	
ST4AX	in.	1/4" NPT F	3.19	3.56	0.50 [12.7]	1.00 [25.4]	1.8 oz	Anodized Aluminum	Felt	75dB
	mm.		81.0	90.4			51g			
ST6BX	in.	3/8" NPT F	4.19	4.82	0.72 [18.3]	1.25 [38.1]	3.4 oz			77dB
	mm.		106.4	122.4			96g			
ST8BX	in.	1/2" NPT F	4.19	4.80	.73 [18.5]	1.25 [31.8]	3.1 oz			76dB
	mm.		106.4	121.9			88g			
ST16FC	in.	1" NPT F	6.39	7.14	1.25 [31.8]	2.00 [50.8]	7.6 oz			80dB
	mm.		162.3	181.4			215g			
ST24FC	in.	1 1/2" NPT F	7.10	7.85			7.9 oz			82dB
	mm.		180.3	199.4			224g			

ST Series Silencers Specifications:

Max. Operating Pressure: Not to exceed 150 PSI

Noise level: Measured 4.5 ft on the diagonal from the silencer while attached to a Vaccon pump. Noise levels will vary on Vaccon and non-Vaccon products.

Note 1: Vaccon strongly recommends the use of silencers on all vacuum pumps.

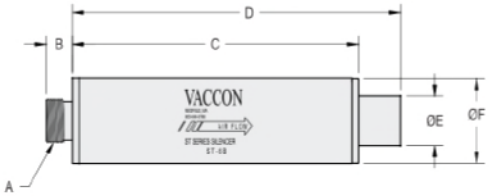
Note 2: Vaccon silencers are used on all types of pneumatic devices i.e. air-operated vacuum pumps, air motors, valves, cylinders and more.

Note 3: ST Silencers may be used on all Vaccon vacuum pumps.

How to Specify:

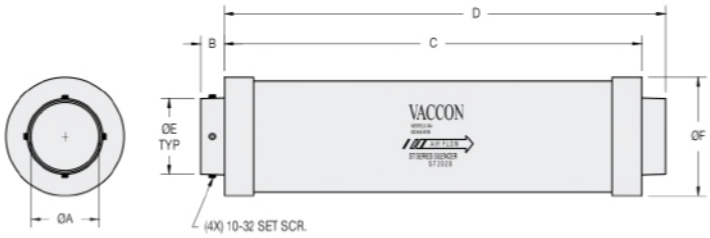
- **For Silencer only:** Order by Model #.
- **Vaccon pump/silencer combinations:** Vaccon pumps include a silencer(s) that has been sized to ensure maximum pump performance. See specific pump for silencer options.
- **Non-Vaccon pneumatic devices:** The thread size on the exhaust port of the pneumatic device determines the size of the silencer.
- Equipment and applications may vary. Consult factory for proper silencer selection.

ST Series Silencers: Male Threads



Model #		Dimensions						Weight	Construction		Noise Level
		A	B	C	D	E	F		Body	Element	
ST2	in.	1/8" NPS M	0.30	0.63	1.00	0.20	0.44	0.2 oz	Acetal	N/A	68dB
	mm.		7.6	16.0	25.4	5.1	11.2	6g			
ST4	in.	1/4" NPS M		1.49	1.86	0.35	0.75	0.6 oz		Felt	
	mm.			37.8	47.2	8.9	19.1	17g			
ST4A	in.		0.37	3.19	3.56	0.50 [12.7]	1.00 25.4	1.8 oz	Anodized Aluminum		70dB
	mm.		9.4	81.0	90.4			51g			
ST4A-2	in.			2.18	2.56			1.4 oz			72dB
	mm.			55.4	65.0			40g			
ST6A	in.	3/8" NPS M	0.38 9.7	3.19	3.56			1.8 oz			
	mm.			81.0	90.4			51g			
ST6B	in.			4.19	4.82	0.72	1.25	3.1 oz			
	mm.			106.4	122.4	18.3	31.8	88g			
ST8A	in.	1/2" NPS M		3.19	3.56	0.50	1.00	1.8 oz			74dB
	mm.			81.0	90.4	12.7	25.4	51g			
ST8B	in.			4.19	4.82	0.72	1.25	3.1 oz			76dB
	mm.			106.4	122.4	18.3	31.8	88g			
ST12C	in.	3/4" NPS M	0.34	6.18 [157.0]	6.93 [176.0]	1.25 [31.8]	2.00 [50.8]	7.8 oz			80dB
	mm.		8.6					221g			
ST16C	in.	1" NPS M	0.50					7.7 oz			
	mm.		12.7					218g			

Note: All NPS threads fit G Port threads



Model #		Dimensions						Weight	Construction		Noise Level
		A	B	C	D	E	F		Body	Element	
ST2020	in.	Ø 1.99	0.70 17.8	12.23 310.6	12.93 328.4	2.21 56.1	3.46 87.9	11 oz	PVC	Foam	82dB
	mm.							311g			
ST2020-5	in.	Ø 1.24						13.3 oz			
	mm.							377g			
ST2020-7	in.	Ø 1.49						12.7 oz			
	mm.							360g			

STAA Series Silencers

VP10-100H-STAA4

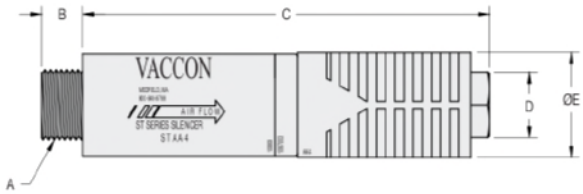
Features:

- Compact
- Lightweight
- Durable
- Ultra quiet operation
- 2 Thread sizes 1/4, 3/8 NPT

Benefits:

- Maximize performance – silences pneumatic equipment without back pressure.
- Increase productivity and operator safety
- Reduces irritating high pitch frequency noise
- Improves working environment
- Maintain clean environment – reduces maintenance costs, increases equipment life

A hybrid silencer that offers increased noise reduction by combining an ST silencer with an AA silencer. The (closed-end) AA silencer is attached to the end of a modified ST silencer, thus removing the flow through feature of the standard ST Series silencers.



Model #		Dimensions					Weight	Construction				Noise Level
		A	B	C	D	E		Body	Baffle	Screen	Element	
STAA4	in.	1/4 NPSM	0.30	2.96	0.48	0.47	0.7 oz	Acetal/ Nylon	Felt/ Nylon	Nylon	Felt	58dB
	mm.		7.6	75.2	12.2	11.9	20g					
STAA6	in.	3/8 NPSM	0.38	5.15	0.63	0.62	1.8 oz	Aluminum/ Nylon				64dB
	mm.		9.7	130.8	16.0	15.7	51g					

STAA Series Silencers Specifications:

Max. Operating Pressure: Not to exceed 150 PSI [10 bar]

Noise level: Measured 4.5 ft on the diagonal from the silencer while attached to a Vaccon pump. Noise levels will vary on Vaccon and non-Vaccon products.

Note 1: Vaccon strongly recommends the use of silencers on all vacuum pumps.

Note 2: Vaccon silencers are used on all types of pneumatic devices i.e. air-operated vacuum pumps, air motors, valves, cylinders and more.

How to Specify:

- **For Silencer only:** Order by Model #.
- **Vaccon pump/silencer combinations:** Vaccon pumps include a silencer(s) that has been sized to ensure maximum pump performance. See specific pump for silencer options.
- **Non-Vaccon pneumatic devices:** The thread size on the exhaust port of the pneumatic device determines the size of the silencer.
- Equipment and applications may vary. Consult factory for proper silencer selection.

FA-51 Series Silencers

FA-51-1/2

RF-51 – replacement element for all FA-51 silencers

JS-350-FA-51-1/2

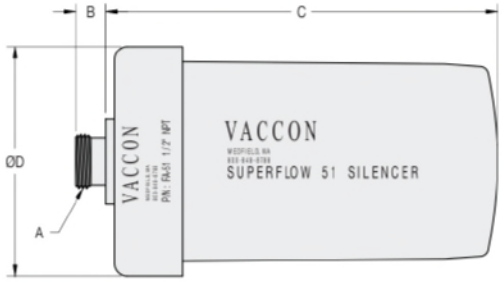
Features:

- Closed-end
- 3 Thread sizes 1/4, 3/8, 1/2
- Replacement elements available

Benefits:

- Safe – closed-end high flows won't cause potentially dangerous projectiles
- Quiets large vacuum pumps, valves, cylinders, air motors, and more
- Durable – more area inside to absorb sound and debris
- Economical – lasts longer, lower cost, replacement elements available
- Reliable – no back pressure on high flow applications
- Maintain clean environment – reduces maintenance costs, increases equipment life

The FA-51 Series silencers offer remarkable noise reduction for high volume exhaust applications without causing back pressure. These silencers are ideal for quieting large air valves that must exhaust quickly to maintain high cycle rates. Vaccon uses the FA-51 silencers on all high flow venturi vacuum pumps where even a small amount of back pressure would decrease performance.



Model #		Dimensions				Weight	Construction				Noise Level
		A	B	C	D		Body	Baffle	Screen	Element	
FA-51-1/4	in.	1/4 NPS M	0.30	5.74 [145.8]	3.36 [85.3]	12.7 oz [357g]	Steel	Foam	Steel	Paper	72dB
	mm.		7.6								
FA-51-3/8	in.	3/8 NPS M	0.38								
	mm.		9.6								
FA-51-1/2	in.	1/2 NPS M	0.38								
	mm.		9.6								
RF-51	in.	N/A	N/A	4.76	3.03	6.2 oz					
	mm.		N/A	120.9	77.0	176g					

FA-51 Series Silencers Operating Specifications:

Max. Operating Pressure: Not to exceed 150 PSI [10 bar]

Noise level: Measured 4.5 ft on the diagonal from the silencer while attached to a Vaccon pump. Noise levels will vary on Vaccon and non-Vaccon products.

Note 1: Vaccon strongly recommends the use of silencers on all vacuum pumps.

Note 2: Vaccon silencers are used on all types of pneumatic devices i.e. air-operated vacuum pumps, air motors, valves, cylinders and more.

How to Specify:

- **For Silencer only:** Order by Model #.
- **Vaccon pump/silencer combinations:** Vaccon pumps include a silencer(s) that has been sized to ensure maximum pump performance. See specific pump for silencer options.
- **Non-Vaccon pneumatic devices:** The thread size (1/4, 3/8, 1/2) on the exhaust port of the pneumatic device determines the size of the silencer i.e. FA-51-**1/4**
- **P/N: RF-51 - Replacement Element:** Fits all FA-51 models
- Equipment and applications may vary. Consult factory for proper silencer selection.

Vacuum Check Valves

For vacuum applications requiring high flow and low cracking pressure

Ideal Applications:

- Clamping and vacuum chucking
- Pick & place of heavy loads
- Hold vacuum while molds cool
- Vessel evacuation
- Lifting systems
- Material handling applications

Features/Benefits:

- Productive – high flow capacity for rapid evacuation
- Safe – minimum flow restriction ensures holding force
- Energy efficient – extremely low cracking pressure <1"Hg [34mbar] reaches vacuum level quickly
- Compact & lightweight – easily mounts to Vaccon or non-Vaccon vacuum products

Options:

- Additional sensor/switch port for positive pressure release
- 3 Body sizes
- 4 Thread sizes – 1/8" to 1/2" NPT

Vaccon vacuum check valves seal and hold vacuum for safe, energy efficient operations for clamping, pick & place and vessel evacuation applications. Vaccon vacuum check valves are designed specifically for vacuum applications. They offer high flow capacity with minimal flow restriction and feature extremely low cracking pressures of less than 1"Hg [33.86 mbar]. The large unrestricted flow path ensures high flow at low vacuum levels. The low cracking pressure allows the vacuum system to reach its maximum vacuum level before the check valve seals off the system.

With their high flow capacity and low cracking pressure, Vaccon vacuum check valves offer rapid evacuation which increases process or production speed and reduces cycle times for more efficient operations.

In contrast, most spring-loaded check valves marketed today are designed for high pressure systems and have high cracking pressures. When used in vacuum applications, spring-loaded check valves severely restrict vacuum flow, hindering the performance of the vacuum pump by slowing down evacuation speed and wasting energy

Vaccon vacuum check valves are made of durable anodized aluminum with an internal flexible valve sealing mechanism.

Vaccon Vacuum Check Valves may be used with non-Vaccon vacuum products.

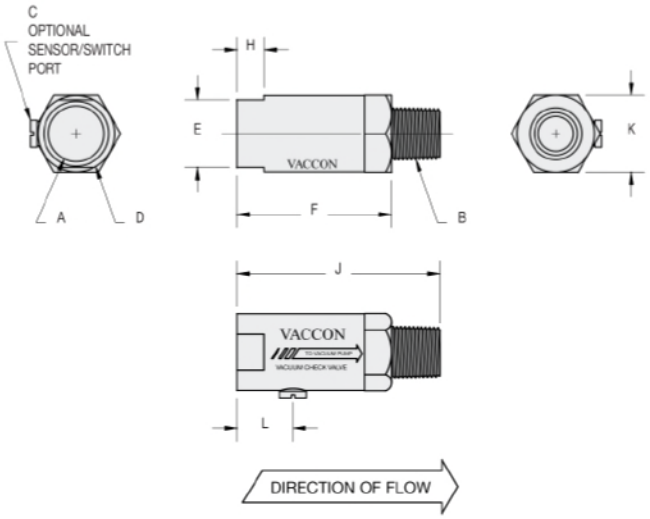
Model #	Cracking Pressure	Maximum Vacuum Flow w/ Zero Flow Restriction	Body Material	Valve Material	Operating Temperature	Proper Check Valve/Pump Combination (matched by flow and port size)
VCV-75-18	4.3" H_2O [10.7 mbar]	4.0 SCFM [113 lpm]	Anodized Aluminum	EPDM	-20°F to +220°F [-29°C to +105°C]	HVP-100
						J Series pumps 60 through 150
						VP Series pumps 60 through 150
VCV-75-14						HVP-200
						VDF 100 and 150
						VP Series pumps 60 through 150
VCV-100-14	1.6" H_2O [4.0 mbar]	20.0 SCFM [566 lpm]	Anodized Aluminum	Silicone	-50°F to +392°F [-46°C to +200°C]	HVP-300
						VDF 200 and 250
VCV-100-38						J Series - 200 and 250
						VP80 Series - 200 and 250
VCV-100-12						For use with non-Vaccon products
VCV-125-38	2.7" H_2O [6.7 mbar]	30.0 SCFM [849 lpm]	Anodized Aluminum	EPDM	-20°F to +220°F [-29°C to +105°C]	J Series - 200 and 250
						VP80 Series - 200 and 250
VCV-125-12						VDF-375
						J Series 300 and 350
						VP Series 300 and 350

Vacuum Check Valves

VCV-75 Series

VCV-100 Series

VCV-125 Series

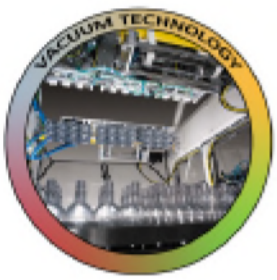


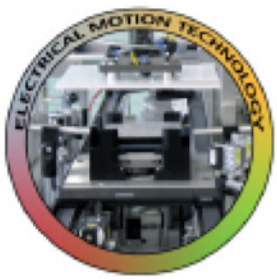
Model #		Dimensions										
		A	B	C	D	E	F	H	J	K	L	Weight
VCV-75-18	in	1/4 NPT F	1/8 NPT M	10-32	0.74 [18.8]	0.63 [15.9]	1.50 [38.1]	0.25 [6.4]	1.90	0.75 [19.1]	0.59 [14.9]	0.7 oz
	mm								48.3			20g
VCV-75-14	in	1/4 NPT F	1/4 NPT M						1.90			0.8 oz
	mm								48.3			23g
VCV-100-14	in	1/2 NPT F	1/4 NPT M	10-32	0.99 [25.1]	0.88 [22.2]	2.00 [50.8]	0.35 [8.9]	2.50	1.00 [25.4]	0.73 [18.4]	1.5 oz
	mm								63.5			43g
VCV-100-38	in	1/2 NPT F	3/8 NPT M						2.44			1.4 oz
	mm								62.0			40g
VCV-100-12	in	1/2 NPT F	1/2 NPT M						2.60			1.5 oz
	mm								66.0			43g
VCV-125-38	in	3/4 NPT F	3/8 NPT M	10-32	1.24 [31.5]	1.13 [28.6]	2.00 [50.8]	0.35 [8.9]	2.60	1.25 [31.8]	0.73 [18.4]	2.5 oz
	mm								66.0			71g
VCV-125-12	in	3/4 NPT F	1/2 NPT M						2.60			2.1 oz
	mm								66.0			60g

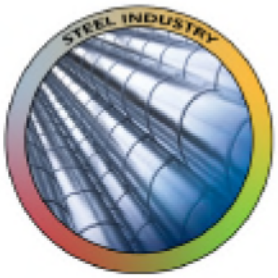
How to Specify:

Order check valve by part number i.e. VCV-125-12.

For metric availability, please consult factory.







Vous avez l'idée, nous la concrétisons.

Wij verheugen ons op uw aanvraag.

We look forward to your application.

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Solutions for Life

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