Technical data sheet

Battioni ®
Pagani

SILENCERS

D100 / D120
DN100 / DN125 / DN150

Original Instruction

DESCRIPTIONS AND TECHNICAL DATA

The Battioni Pagani silencer design reduces the noise generated by the energy pulsation at the vacuum pump inlet and outlet. The silencer shall be installed in correspondence of the discharge line and the injection line of a vacuum pump or lobe blower such as the BLW and BLM. The Battioni Pagani silencer is designed to convey air.

Silencers **D100 / D120 / DN100 / DN125 / DN150** are available either in painted carbon steel or engine turn stainless steel.

AVAILABLE CONFIGURATIONS

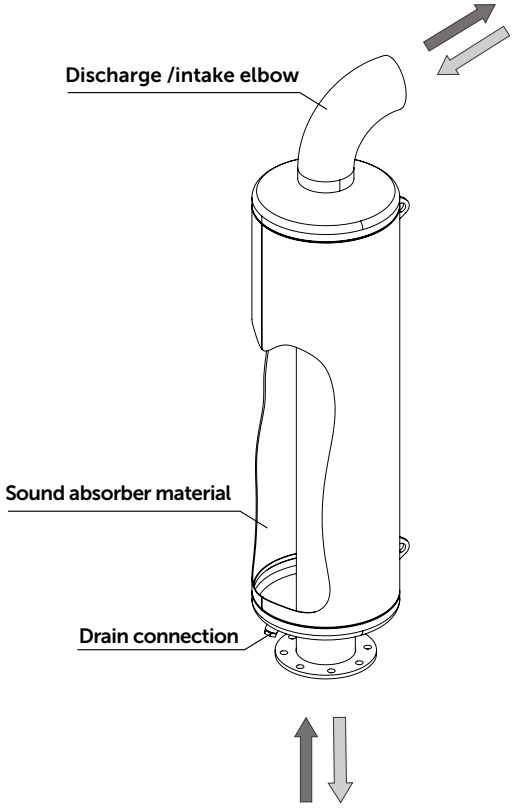
For each size, the standard silencer is available in the following configuration:

1) Discharge silencer

2) Injection silencer

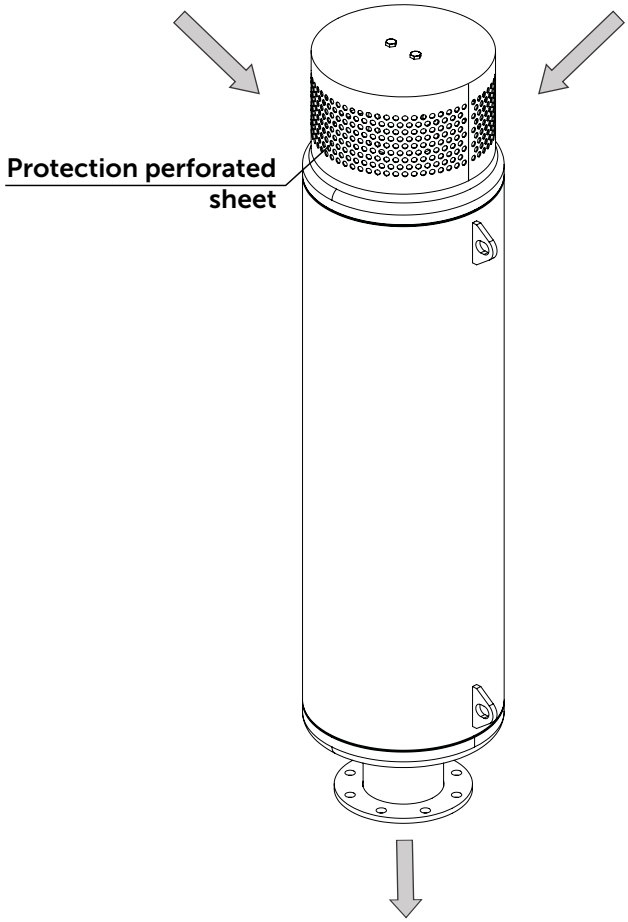
3) Filtered silencer

1) Discharge silencer:
Standard not filtered to be installed at the discharge line (with the exception of the ATEX applications).



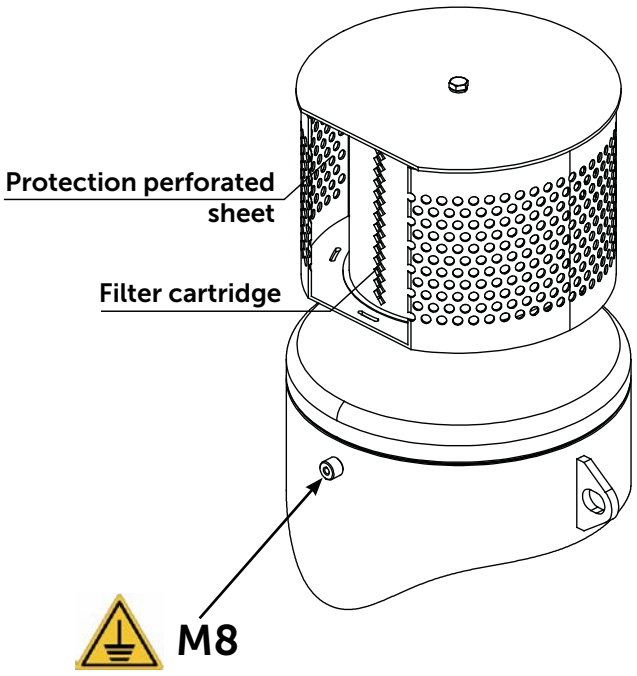
2) Injection silencer

To be installed at the injection line. It offers a built in perforated sheet protection cap designed to prevent potentially harmful particles to enter the injection line.



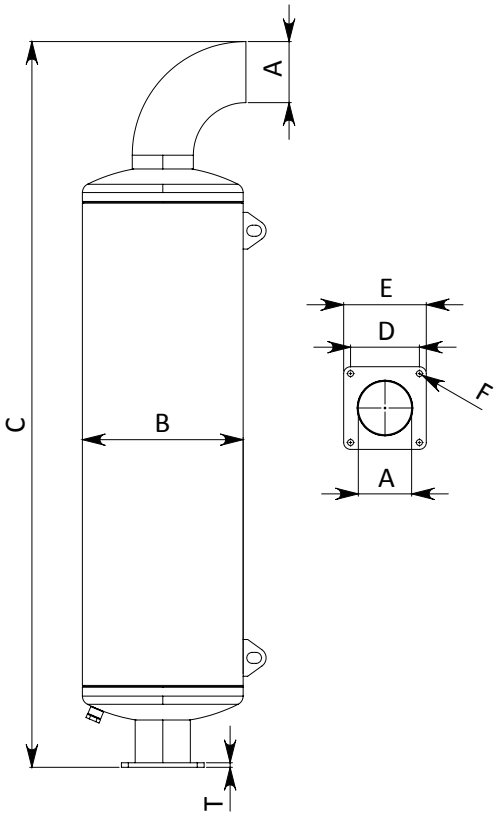
3) Filtered silencer

Silencer appropriate for ATEX applications. In addition to the protection cap it has an internal stainless steel filter cartridge placed inside the protection cap to prevent potentially harmful particles to enter the pump. The filtered silencer can be placed both at the injection or at the discharge line. In ATEX application we recommend to install the filtered silencer both at the injection and at the discharge lines since during pressure mode operations (tank draining) the discharge behaves as an intake line. The filtered silencer offers a ground cable with lug that shall be installed properly.

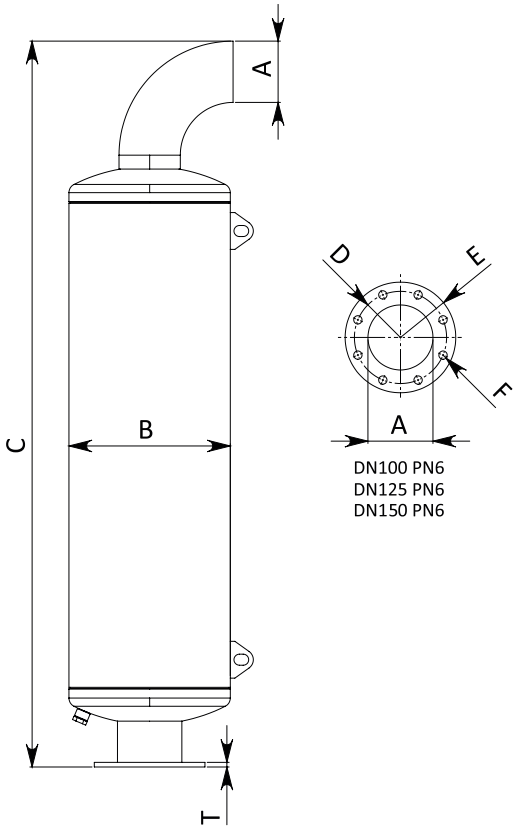


DISCHARGE SILENCER OVERALL DIMENSIONS

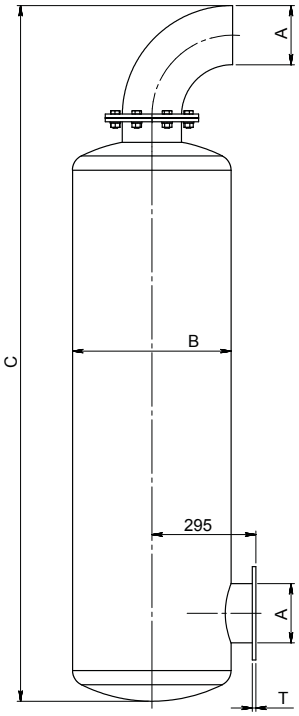
D100-D120



DN100-DN125



DN150

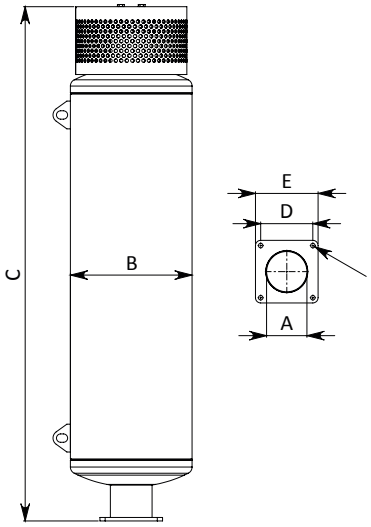


Code	Description	A	B	C	D	E	F	T	Weight	Qmax
5090000126	DISCHARGE SILENCER D100-**CS	Ø100	Ø250	1210	-	-	-	-	24Kg	900m3/h
5090000162	DISCHARGE SILENCER D100-*SS	Ø100	Ø250	1210	-	-	-	-	24Kg	900m3/h
5090000148	DISCHARGE SILENCER D100-**CS	Ø100	Ø300	1410	150x150	180x180	4xØ13	10	30Kg	1600m3/h
5090000157	DISCHARGE SILENCER D100-*SS	Ø100	Ø300	1410	150x150	180x180	4xØ13	10	30Kg	1600m3/h
5090000133	DISCHARGE SILENCER D120-**CS	Ø120	Ø350	1580	150x150	180x180	4xØ13	10	42Kg	2100m3/h
5090000155	DISCHARGE SILENCER D120-*SS	Ø120	Ø350	1580	150x150	180x180	4xØ13	10	42Kg	2100m3/h
5090000174	DISCHARGE SILENCER DN100-**CS	DN100	Ø300	1410	Ø170	Ø210	4xØ18	10	30Kg	1800m3/h
5090000178	DISCHARGE SILENCER DN100-*SS	DN100	Ø300	1410	Ø170	Ø210	4xØ18	10	30Kg	1800m3/h
5090000172	DISCHARGE SILENCER DN125-**CS	DN125	Ø350	1580	Ø200	Ø240	8xØ18	10	42Kg	2700m3/h
5090000176	DISCHARGE SILENCER DN125-*SS	DN125	Ø350	1580	Ø200	Ø240	8xØ18	10	42Kg	2700m3/h
6080200615	DISCHARGE SILENCER DN150-**CS	DN150	Ø450	1975	Ø225	Ø265	8xØ18	10	77Kg	4500m3/h
6080200617	DISCHARGE SILENCER DN150-*SS	DN150	Ø450	1975	Ø225	Ø265	8xØ18	10	77Kg	4500m3/h

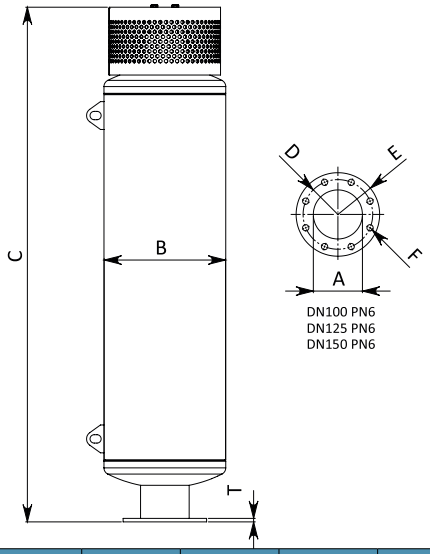
* SS = STAINLESS STEEL ** CS = CARBON STEEL

INJECTION SILENCER OVERALL DIMENSIONS

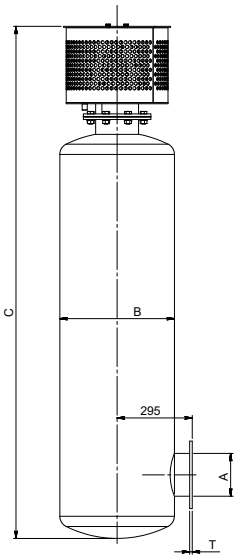
D100-D120



DN100-DN125

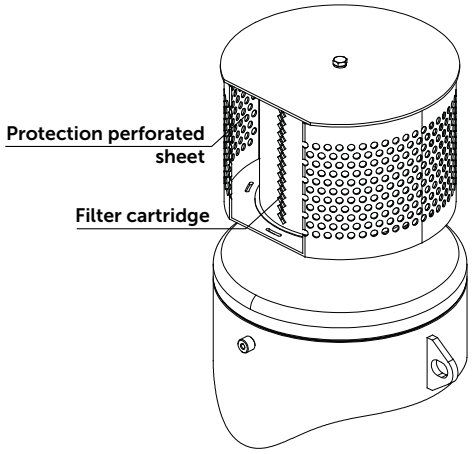


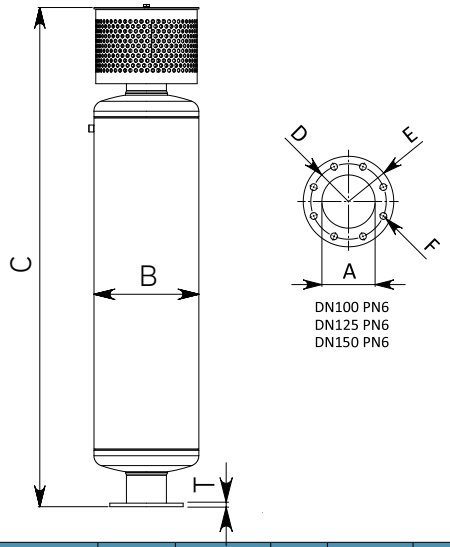
DN150



Code	Description	A	B	C	D	E	F	T	Weight	Qmax
5090000125	INJECTION SILENCER D100-**CS	Ø100	Ø250	1100	-	-	-	-	24Kg	900m3/h
5090000161	INJECTION SILENCER D100-*SS	Ø100	Ø250	1100	-	-	-	-	24Kg	900m3/h
5090000147	INJECTION SILENCER D100-**CS	Ø100	Ø300	1410	150x150	180x180	4xØ13	10	30Kg	1600m3/h
5090000156	INJECTION SILENCER D100-*SS	Ø100	Ø300	1410	150x150	180x180	4xØ13	10	30Kg	1600m3/h
5090000132	INJECTION SILENCER D120-**CS	Ø120	Ø350	1580	150x150	180x180	4xØ13	10	42Kg	2100m3/h
5090000154	INJECTION SILENCER D120-*SS	Ø120	Ø350	1580	150x150	180x180	4xØ13	10	42Kg	2100m3/h
5090000173	INJECTION SILENCER DN100-**CS	DN100	Ø300	1410	Ø170	Ø210	4xØ18	10	30Kg	1800m3/h
5090000177	INJECTION SILENCER DN100-*SS	DN100	Ø300	1410	Ø170	Ø210	4xØ18	10	30Kg	1800m3/h
5090000171	INJECTION SILENCER DN125-**CS	DN125	Ø350	1580	Ø200	Ø240	8xØ18	10	42Kg	2700m3/h
5090000175	INJECTION SILENCER DN125-*SS	DN125	Ø350	1580	Ø200	Ø240	8xØ18	10	42Kg	2700m3/h
6080200614	INJECTION SILENCER DN150-**CS	DN150	Ø450	2011	Ø225	Ø265	8xØ18	10	85Kg	4500m3/h
6080200616	INJECTION SILENCER DN150-*SS	DN150	Ø450	2011	Ø225	Ø265	8xØ18	10	87Kg	4500m3/h

FILTERED SILENCER DN100-D125 ATEX OVERALL DIMENSIONS



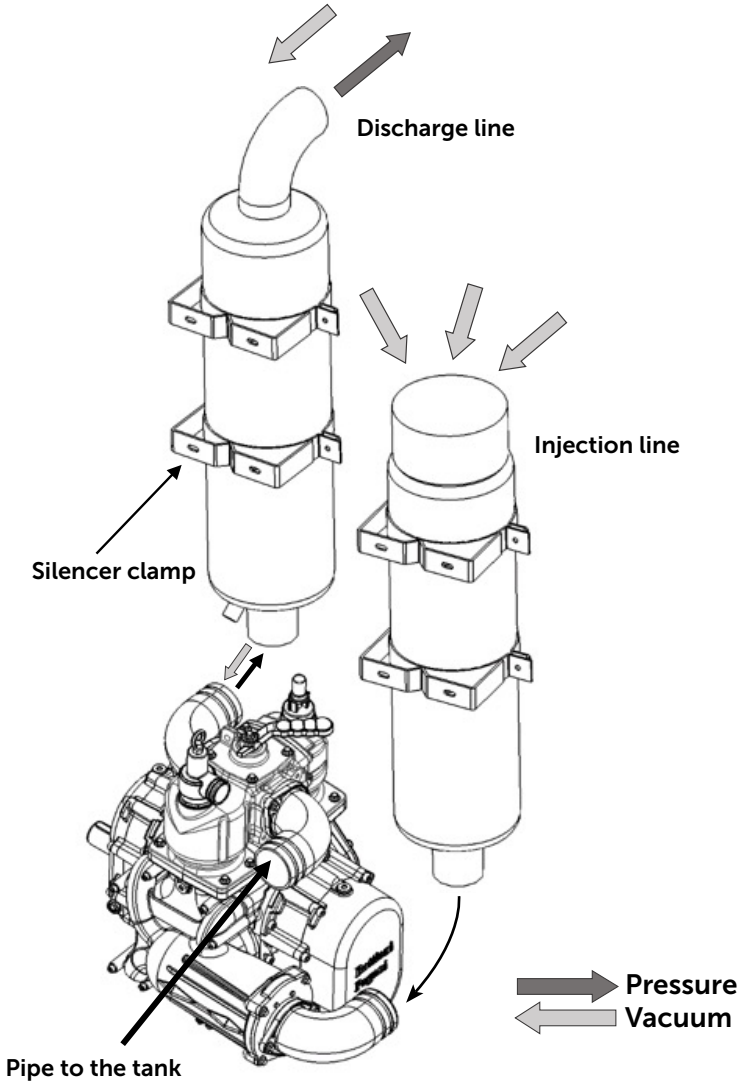


CODE	Description	A	B	C	D	E	F	T	Weight	Qmax
6080200562	FILTERED SILENCER DN100-**CS ATEX	DN100	Ø300	1428	Ø170	Ø210	4xØ18	10	32KG	1800m3/h
6080200563	FILTERED SILENCER DN125-**CS ATEX	DN125	Ø350	1580	Ø200	Ø240	8xØ18	10	44KG	2700m3/h
6080200618	FILTERED SILENCER DN150-**CS ATEX	DN150	Ø450	2011	Ø225	Ø265	8xØ18	10	85KG	4500m3/h
6080200619	FILTERED SILENCER DN150-*SS ATEX	DN150	Ø450	2011	Ø225	Ø265	8xØ18	10	87KG	4500m3/h

* SS = STAINLESS STEEL ** CS = CARBON STEEL

INSTALLATION PRESCRIPTIONS

• The silencers shall be installed in correspondence of the discharge line or the injection line of a vacuum/pressure pump. The silencer shall be installed as closed as possible to the pump to operate at the maximum efficiency and to be effective for maximum noise reduction. Furthermore the length of rubber hoses and pipes shall be kept as short as possible since they are source of noise emissions.
• The silencers shall be installed supported by fastening clamps and by the flange connection available for each models.
• The silencers magbe installed vertically or horizontally.
• The discharge silencer has a built in elbow pipe that prevents rain to enter the silencer body and steers the air flow to the proper direction.
• Hot air flow through the discharge silencer may cause overheating; hence air flow shall be directed away from the suction port of the injection silencer and away from operators.
• Enough clearance shall be available around the suction port of the injection silencer, as poor air injection may cause pump overheating during vacuum operations.
• During pressure operations the discharge silencer works in suction mode therefore the installation shall prevent potentially harmful particles to enter the pump.
• Discharge silencers have a built in threaded connection of ½"GAS to drain any liquids.

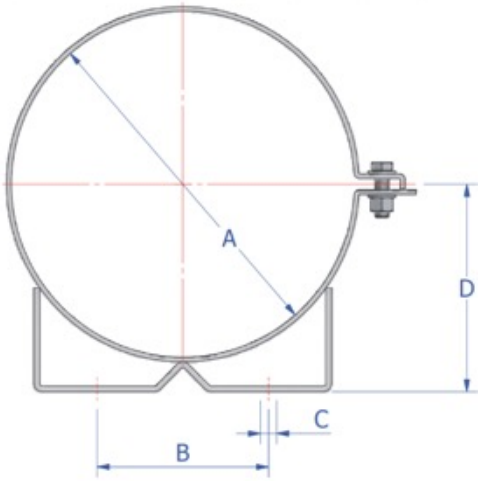


Schematic diagram of the silencers installation

MAINTENANCE

• The cleanance and clanliness of the protection cap perforate sheet shall be cheched weely.
• Filter cartridge of the filtered silencers shall be cleaned monthy.
Open the protection cap cover to remove the filter cartridge to clean it.

AVAILABLE OPTIONAL



CODE	DESCRIPTION	RIF. SILENCER	ØA	B	C	D
5090000129	SILENCER CLAMP **CS – D250	D100	250	150	11	155
5090000164	SILENCER CLAMP **CS – D300	D100-DN100	300	150	11	180
5090000136	SILENCER CLAMP **CS – D350	D120-DN125	350	150	11	205
5090000165	SILENCER CLAMP **CS – D450	DN150	450	300	11	255

** CS = CARBON STEEL

CODE	DESCRIPTION	RIF. SILENCER	ØA	B	C	D
5090000190	SILENCER CLAMP **SS - D250	D100	250	150	11	155
5090000191	SILENCER CLAMP **SS - D300	D100-DN100	300	150	11	180
5090000192	SILENCER CLAMP **SS- D350	D120-DN125	350	150	11	205
5090000193	SILENCER CLAMP **SS - D450	DN150	450	300	11	255

** SS = STAINLESS STEEL

GENERAL WARNING

Place the silencers away from the operators and add appropriate protection guards.
The silencer discharge flow shall be directed away from the operators and away from the intake duct of the truck engine.
Place the injection silencer away from sources of heat (e. g. discharge silencer or truck engine)

The discharge silencer body may reach high temperature in pressure mode operations, that shall be controlled by the appropriate protection devices.

Pay attention to the gas sucked by the pump and discharged by the silencer.

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