

Side Channel Blower Silencers

SLCR, SLCRT Series 1/2" - 4"

Features

- Absorptive media pack
- Designed for minimal pressure drop
- For inlet and discharge inline air service
- Corrosive resistant gray powder coat carbon steel: 1/2" to 1 1/2" connections; epoxy coat finish: 2" to 4" connections

Technical Specifications

- Max. temperature (continuous): 107°C (225°F)
- Due to the wide range of equipment and environments, please contact factory for typical noise attenuation for your application

Options

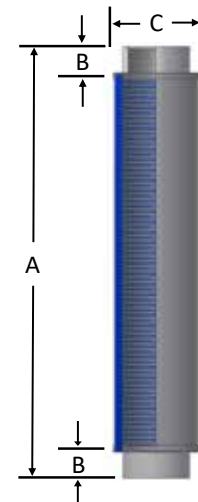
- Flange adapters
- For additional sizes, contact factory
- Special connections
- Hi-temp models



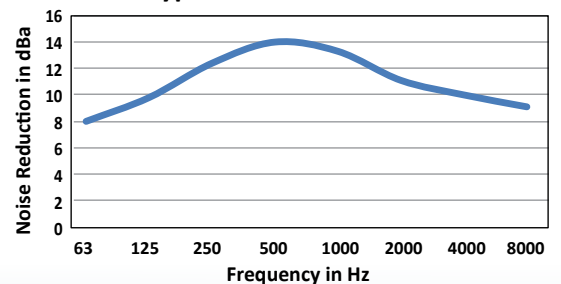
Inlet/Outlet Size	Type	Assembly m ³ /hr Rating	Part Number	Dimensions - mm			Approx. Weight (kg)
				A	B	C	
1"	NPSC	71	SLCR100	304	19	66	1.0
1 1/4"	BSPP	94	SLCR126	304	19	66	1.0
1 1/2"	BSPP	264	SLCR151	306	20	66	1.3
2"	BSPP	459	SLCR201	400	19	93	1.8
2 1/2"	BSPP	655	SLCR251	530	31	118	3.6
3"	BSPP	978	SLCR301	657	40	132	4.5
4"	BSPP	978	SLCR401	627	45	254	12

Inlet/Outlet Size	Type	Assembly m ³ /hr Rating	Part Number	A	B	C	Approx. Weight (kg)
1/2"	MPT	43	SLCRT050	352	43	66	1.0
3/4"	MPT	60	SLCRT075	368	51	79	1.0
1"	MPT	71	SLCRT100	368	51	79	1.0
1 1/4"	BSPT	94	SLCRT126	368	51	66	1.0
1 1/2"	BSPT	264	SLCRT151	356	44	66	1.3
2"	BSPT	459	SLCRT201	470	54	93	1.8
2 1/2"	BSPT	655	SLCRT251	601	67	118	3.6
3"	BSPT	978	SLCRT301	711	67	130	4.5
4"	BSPT	978	SLCRT401	744	102	254	12

Note: MPT and FPT threaded housings are interchangeable with BSPT and BSPP up to 1".



Typical Noise Attenuation



Technical Data

Inlet Filter Silencers, Silencers

Applications & Equipment

- Industrial & Severe Duty
- Blowers - Side Channel & Roots (P.D.)
- Breathers
- Fuel Cells
- Piston Compressors
- Screw Compressors
- Centrifugal Compressors
- Hydraulic Breathers – fine filtration
- Engines
- Fans
- Vacuum Pumps & Systems
- Construction\Contractor Industry
- Medical
- Pneumatic Conveying
- Waste Water Aeration
- Sparging
- Factory Air
- Vacuum Vent Breathers
- Cement Processing
- Power Plants
- Centralized Air Intakes

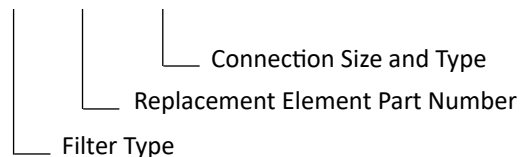
Identification

Standard Solberg assemblies should have an identification label/nameplate that gives the following information:

- Assembly Model #
- Replacement Element #

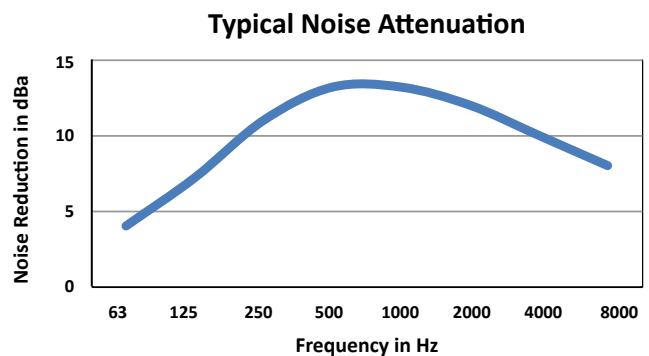
The part number designates the filter type, the element configuration and housing connection size. For example, the following part number identifies the filter as being an “FS” design filter with a “275” element, “P” prefilter and 3” BSPT connection size.

FS-275P-301



Typical Noise Attenuation

See chart for typical noise attenuation for filter silencers. It may vary due to the wide range of applications, installations, and machines.



Choosing the Best Filter for Your Equipment

A. When the connection & airflow is known:

1. Select the appropriate connection style. (i.e.: BSPT, Flange, BSPP, etc.)
 - a. Verify assembly m³/hr (flow) rating. Compare with your required airflow.
(Note: Assembly flow ratings are based on 6,000 FPM or 30m/sec for a given connection size to achieve low pressure drop performance. When required flow exceeds assembly flow rating, the pressure drop through the outlet connection will increase. In such cases select by element m³/hr (flow) rating.)
 - b. Verify that the flow rating matches connection size; skip to “C. Selecting Elements”.

B. When the connection size is unknown, flexible, or the required flow rating exceeds assembly flow rating:

1. Match required flow rating with the element flow rating.
2. Choose related connection size.

C. Selecting Elements: The filter performance is influenced by the actual application duty and the equipment it is installed on. Regular maintenance checks and proper servicing is required.

Application Duty Descriptions:

Industrial Duty: clean workshop or clean outdoor environment - small element sizing is sufficient.

Severe Duty: dirty workshop, wastewater – medium to large element is recommended.

Extreme Duty: cement, steel making, plastics or dusty material conveying – largest element sizing is recommended.

1. Select media required by your application. Options include:
 - a. Standard media
 1. Polyester: all purpose; withstands pulses, moisture, and oily air
 2. Paper: mostly dry, smooth flow applications
 - b. Special Media: for a variety of micron levels and media types, see the “Filter Media Specifications” in the Replacement Element Section or contact Solberg.
2. Select element size by matching the element with the anticipated duty and upsize accordingly.

Filter Assembly Maintenance

Request the appropriate maintenance manual for more in-depth information from your Solberg representative or on our website: www.solbergmfg.com.

Element Maintenance

Solberg elements should be replaced once the pressure drop reaches 37-50 mbar above the initial pressure drop of the installation. Cleaning the element is also an option.

Solberg recommends replacing dirty elements for optimal performance. Any damage which results from by-pass or additional pressure drop created by element cleaning is the sole responsibility of the operator.

Note: The overall performance of a filter element is altered once cleaned. The initial pressure drop after subsequent cleanings will be greater than the original, clean pressure drop of the element. After each cleaning, the pressure drop will continue to increase. Under all circumstances, the initial pressure drop of the element needs to be maintained at less than 37 mbar.

If the pressure drop exceeds 50 mbar at start-up; it should be replaced with a new element. With many types of equipment, the maximum pressure drop allowed will be dictated by the ability of the equipment to perform to its rated capacity. Under all circumstances, the operator should avoid exceeding the manufacturer’s recommended maximum pressure drop for their specific equipment.

