

Silencing Mufflers

EXAIR Silencing Mufflers help to reduce work area noise produced by air exhausting from cylinders, valves and other air powered equipment. Per OSHA Standard 1910.95(a), a worker must not be exposed to sound levels above 90 dBA for any eight hour shift of a 40 hour work week. Silencing Mufflers help plants meet this OSHA requirement by reducing the sound to safe levels below 90 dBA. They also eliminate harmful dead end pressures. Each style of Silencing Muffler shown has a high airflow capacity, with low back pressure. Popular NPT sizes are ideal for new and existing installations.

Reclassifying Mufflers

Reclassifying Mufflers are an upgrade from Sintered Bronze Mufflers (*see next page*). They offer the best noise reduction - up to 35 dB. Available from 1/8 NPT through 1 NPT, Reclassifying Mufflers eliminate oil mist. Exhaust air from cylinders and valves often contain oil mists that can contaminate the workers' breathing air, affecting their health. Per OSHA Standard 29 CFR 1910.1000, a worker's cumulative exposure to oil mist must not exceed 5mg/m³ by volume in any eight hour shift of a 40 hour work week.

The patented wrap design of the removable element separates oil from the exhausted air so virtually no oil is released into the environment. Based on an intake of 50 PPM at 100 PSIG, the Reclassifying Mufflers reclassify and reduce the exhausted oil mist to 0.015 PPM. A reservoir where oil accumulates at the bottom can be drained by attaching a 1/4" tube.

Each Reclassifying Muffler passes a certain volume of air with minimal back pressure restriction so it doesn't interfere with the operation of the cylinder or valve. When used with cylinders, the "Muffler Quick Pick" table (*right*) helps you select the appropriate model based on the actual bore and stroke of the cylinder.



Muffler Quick Pick

Bore (in.)	Stroke (in.)									
	3	6	9	12	18	24	30	36	42	48
0.5										
1.0										
1.5										
2.0										
2.5										
3.0										
3.5										
4.0										
4.5										
5.0										
5.5										
6.0										

- Model 9070
- Model 9071
- Model 9072
- Model 9073
- Model 9074
- Model 9075
- Contact an Application Engineer for more information.

Muffler Needed To Exhaust In
1/2 Second For A Cylinder
Charged To 100 PSIG

Model #	Description		A	B	C	Replacement Element #
9070	Reclassifying Muffler	in	3.13	1.63	1/8 NPT	900553
		mm	80	41		
9071	Reclassifying Muffler	in	3.13	1.63	1/4 NPT	900553
		mm	80	41		
9072	Reclassifying Muffler	in	4.75	2.44	3/8 NPT	900554
		mm	121	62		
9073	Reclassifying Muffler	in	4.75	2.44	1/2 NPT	900554
		mm	121	62		
9074	Reclassifying Muffler	in	6.25	3.31	3/4 NPT	900555
		mm	159	84		
9075	Reclassifying Muffler	in	6.25	3.31	1 NPT	900555
		mm	159	84		



11510 Goldcoast Drive • Cincinnati, OH 45249-1621 • Phone (513) 671-3322
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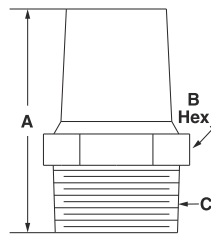
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Accessories

Sintered Bronze Mufflers

EXAIR's low cost Sintered Bronze Mufflers are easy to install in new and existing exhaust ports of valves, cylinders and other air powered equipment. Each Sintered Bronze Muffler is capable of passing a certain volume of air with minimal back pressure restriction so it doesn't interfere with the operation of the cylinder or valve. When used with cylinders, the "Muffler Quick Pick" table helps you select the appropriate model based on the actual bore and stroke of the cylinder. (Note: Model 9089 has a 1/2"-20 UNF straight thread to fit most solenoid valves.)



Model #		Overall Length	Hex	Thread Size
		A	B	C
9080	in	0.72	0.31	#10-32
	mm	18	8	
9081	in	1.13	0.44	1/8 NPT
	mm	29	11	
9082	in	1.38	0.56	1/4 NPT
	mm	35	14	
9083	in	1.50	0.69	3/8 NPT
	mm	38	18	
9084	in	1.88	0.88	1/2 NPT
	mm	48	22	
9085	in	2.25	1.06	3/4 NPT
	mm	57	27	
9086	in	2.91	1.31	1 NPT
	mm	74	33	
9087	in	3.25	1.69	1-1/4 NPT
	mm	83	43	
9088	in	3.69	2	1-1/2 NPT
	mm	94	51	
9089*	in	1.19	0.63	1/2"-20 UNF FEMALE
	mm	30	16	

* Model 9089 for solenoid valves only.



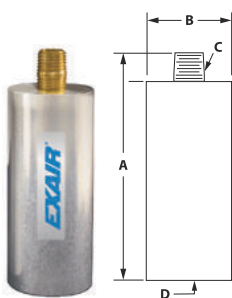
Model 9080	Model 9085
Model 9081	Model 9086
Model 9082	Model 9087
Model 9083	Model 9088
Model 9084	Contact an Application Engineer

Muffler will exhaust cylinder in 1/2 second for a cylinder charged to 100 PSIG

Muffler Quick Pick

Bore (in.)	Stroke (in.)									
	3	6	9	12	18	24	30	36	42	48
0.5										
1.0										
1.5										
2.0										
2.5										
3.0										
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Straight-Through Mufflers



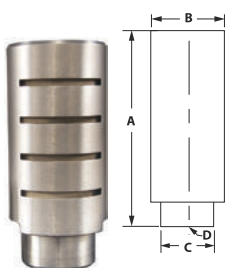
Straight-Through Silencing Mufflers feature a corrosion-resistant aluminum outer shell lined with sound absorbing foam for better noise reduction. The typical noise reduction is up to 20 dB.

Model #	Description		A	B	C	D	Rated Flow
3914	Straight-Through Muffler	in	4	1.50	1/4 MNPT	1/4 FNPT	22 SCFM
		mm	102	38			623 SLPM
3911	Straight-Through Muffler	in	4.13	1.50	3/8 MNPT	3/8 FNPT	50 SCFM
		mm	105	38			1,416 SLPM
3913	Straight-Through Muffler	in	9.75	2	3/4 MNPT	3/4 FNPT	73 SCFM
		mm	248	51			2,066 SLPM

Flow rated at 1/2 PSIG back pressure

Caution: Operations approaching 32°F (0°C) or below could result in freeze-up due to moisture in the compressed air line.

Heavy Duty Mufflers



Heavy Duty Silencing Mufflers feature a corrosion-resistant aluminum outer shell with an internal stainless steel screen that protects valves and cylinders from contamination that could enter through the exhaust ports. This also keeps contaminants such as rust from being ejected at high speed from the exhaust port. The typical noise reduction is up to 14 dB.

Model #	Description		A	B	C	D
3903	Heavy Duty Muffler	in	1.81	0.81	0.63	1/4 FNPT
		mm	46	21	16	
3907	Heavy Duty Muffler	in	4.50	2	1.50	3/4 FNPT
		mm	114	51	38	

Caution: Operations approaching 32°F (0°C) or below could result in freeze-up due to moisture in the compressed air line.