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M-SERIES



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"This is all the inheritance I give to my dear family. The religion of Christ will give them one which will make them rich indeed."

—Patrick Henry

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INDUSTRIAL CHAMBER SILENCER

15 TO 20 dBA NOISE REDUCTION

M11 OVERVIEW

The M11 is engineered for light industrial areas where background noise is relatively high and constant. The need for higher degrees of silencing should be minimal, keeps engine exhaust noise within existing levels.

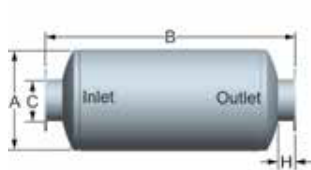
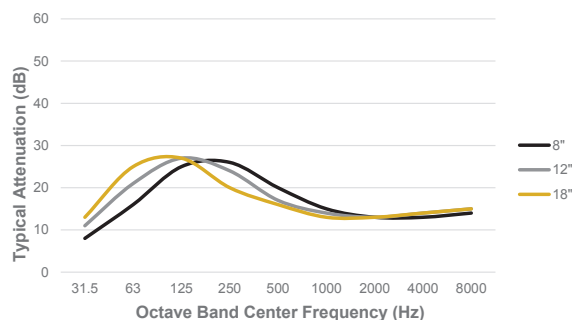
Typical application: Internal combustion engine exhausts in light industry areas with relatively constant background noise.

FEATURES

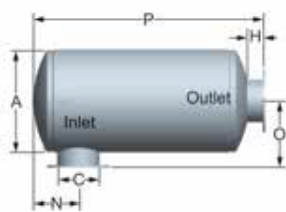
- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- Easily installed in any position
- High heat silicone black finish
- Connections: Sizes 3.5 and under MNPT, 4 and up ANSI pattern flanged
- Two chambers
- Drain connection

OPTIONS / ACCESSORIES

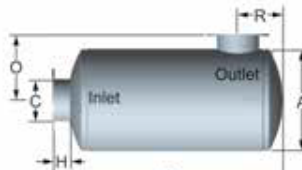
- Explosion relief cover
- Flexible connectors
- Companion flanges
- Cleanout openings
- Custom inlet/outlet size, location and multiple orientations available
- Horizontal or vertical support arrangements
- Aluminized steel, Stainless Steel 304 or 316 construction available
- Special paints and finishes available
- Complete range of exhaust accessories



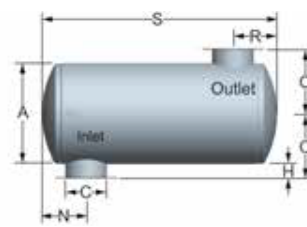
Type 1 - EIEO



Type 2 - SIEO



Type 3 - EISO



Type 4 - SISO

M11												
Part No.*	Size / ØC	ØA	B	N Min	N Max	O	P	R Min	R Max	S	H	Est Wt
M11-1.5	1.5	6	20	3		6	17	3		14	3	10
M11-2	2	6	20	3.5		6	17	3.5		14	3	11
M11-2.5	2.5	7	20	4		6.5	17	4		14	3	15
M11-3	3	8	24	4		7	21	4		18	3	20
M11-3.5	3.5	9	26	4.5	-Consult Factory-	7.5	23	4.5		20	3	26
M11-4	4	10	30	5		9	26	5		22	4	40
M11-5	5	12	34	6		10	30	6		26	4	51
M11-6	6	14	41	6.5		11	37	6.5		33	4	75
M11-8	8	16	48	8.5		12	44	8.5		40	4	108
M11-10	10	18	50	9.5		13	46	9.5		42	4	138
M11-12	12	22	60	11.5		15	56	11.5		52	4	203
M11-14	14	30	70	13.5		20	65	13.5		60	5	394
M11-16	16	36	80	16.5		23	75	16.5		70	5	535
M11-18	18	40	90	17.5		25	85	17.5		80	5	858

- All dimensions are in inches. All weights are in pounds. Weights are approximate.
- Listed sound data is based on typical performance and should not be considered absolute.
- *See [nomenclature guide](#) for additional information on part number creation.



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RESIDENTIAL CHAMBER SILENCER

20 TO 25 dBA NOISE REDUCTION

M22 OVERVIEW

The M22 is engineered for residential and light industrial areas where background noise is relatively high and constant. The need for higher degrees of silencing should be minimal, keeps engine exhaust noise within existing levels.

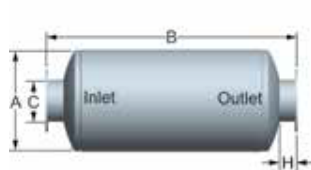
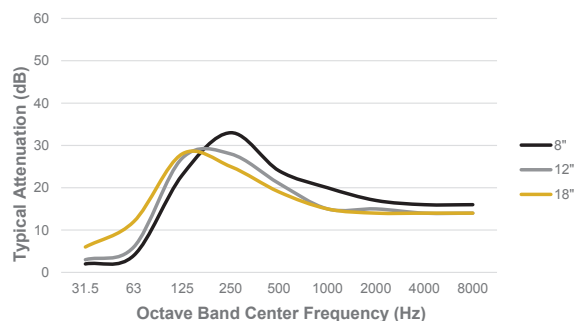
Typical application: Internal combustion engine exhausts in neighborhoods having high traffic or light industry with relatively constant background noise. Residents in these areas are typically accustomed to the noise or make some efforts to shield themselves from the ever present background noise.

FEATURES

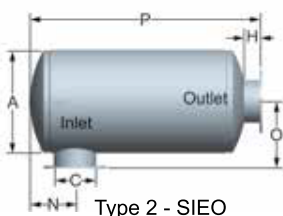
- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- Easily installed in any position
- High heat silicone black finish
- Connections: ANSI pattern flanged
- Two chambers
- Drain connection

OPTIONS / ACCESSORIES

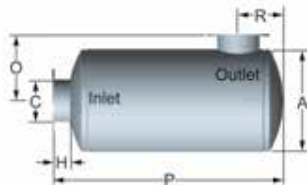
- Explosion relief cover
- Flexible connectors
- Companion flanges
- Cleanout openings
- Custom inlet/outlet size, location and multiple orientations available
- Horizontal or vertical support arrangements
- Aluminized steel, Stainless Steel 304 or 316 construction available
- Special paints and finishes available
- Complete range of exhaust accessories



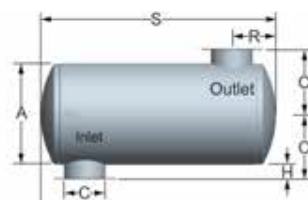
Type 1 - EIEO



Type 2 - SIEO



Type 3 - EISO



Type 4 - SISO

M22

Part No.*	Size / ØC	ØA	B	N Min	N Max	O	P	R Min	R Max	S	H	Est Wt
M22-4	4	14	36	6	11	11	32	6		28	4	60
M22-5	5	16	43	7	15	12	39	7		35	4	80
M22-6	6	18	49	7.5	18	13	45	7.5		41	4	102
M22-8	8	22	59	9.5	23	15	55	9.5		51	4	170
M22-10	10	26	64	11.5	26	17	60	11.5		56	4	270
M22-12	12	30	77	13	32	19	73	13		69	4	415
M22-14	14	36	83	15.5	34	23	78	15.5		73	5	550
M22-16	16	40	90	16.5	36	25	85	16.5		80	5	784
M22-18	18	45	96	18	39	27.5	91	18		86	5	931
M22-20	20	50	109	20.5	47	30	104	20.5		99	5	1357
M22-22	22	54	119	22.5	50	32	114	22.5		109	5	1764
M22-24	24	60	125	24	56	35	120	24		115	5	2105
M22-26	26	64	140	25.5	61	37	135	25.5		13	5	2477
M22-28	28	68	155	26.5	69	39	150	26.5		145	5	2856
M22-30	30	72	166	28	75	41	161	28		156	5	3259

- All dimensions are in inches. All weights are in pounds. Weights are approximate.
- Listed sound data is based on typical performance and should not be considered absolute.
- *See [nomenclature guide](#) for additional information on part number creation.

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CRITICAL CHAMBER SILENCER

25 TO 32 dBA NOISE REDUCTION

M32 OVERVIEW

The M32 is engineered for residential areas where background noise is present, but not objectionable. In these areas, installation of an M32 on an engine exhaust is intended to bring the noise level down to match the ambient noise levels.

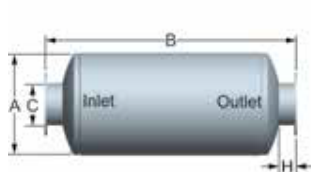
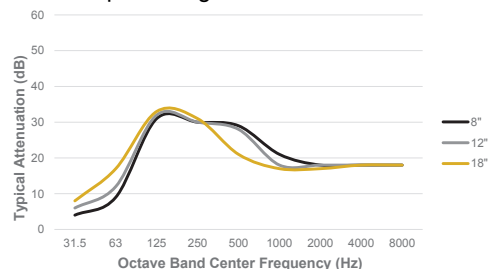
Typical application: Internal combustion engine exhausts in quieter residential area off main traffic areas and away from constant noise sources.

FEATURES

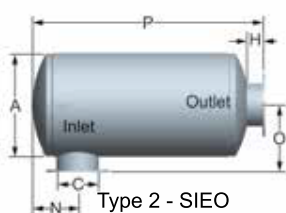
- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- Easily installed in any position
- High heat silicone black finish
- Connections: Sizes 3.5 and under MNPT, 4 and up ANSI pattern flanged
- Two chambers
- Drain connection

OPTIONS / ACCESSORIES

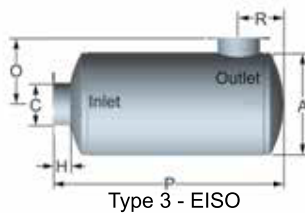
- Explosion relief cover
- Flexible connectors
- Companion flanges
- Cleanout openings
- Custom inlet/outlet size, location and multiple orientations available
- Horizontal or vertical support arrangements
- Aluminized steel, Stainless Steel 304 or 316 construction available
- Special paints and finishes available
- Complete range of exhaust accessories



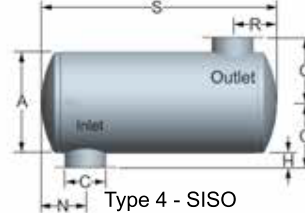
Type 1 - EIEO



Type 2 - SIEO



Type 3 - EISO



Type 4 - SISO

M32

Part No.*	Size / ØC	ØA	B	N Min	N Max	O	P	R Min	R Max	S	H	Est Wt
M32-1	1	6	20	3	5	6	17	3		14	3	10
M32-1.5	1.5	9	30	4	11	7.5	27	4		24	3	23
M32-2	2	9	30	4.5	11	7.5	27	4.5		24	3	24
M32-2.5	2.5	10	34	5	12	8	31	5		28	3	33
M32-3	3	12	38	5.5	15	9	35	5.5		32	3	50
M32-3.5	3.5	14	42	6	16	10	39	6		36	3	65
M32-4	4	14	48	6	17	11	44	6		40	4	75
M32-5	5	16	57	7	23	12	53	7		49	4	100
M32-6	6	18	63	8	25	13	59	8		55	4	126
M32-8	8	22	74	9.5	32	15	70	9.5		66	4	203
M32-10	10	26	87	11.5	39	17	83	11.5		79	4	352
M32-12	12	30	102	13	45	19	98	13		94	4	519
M32-14	14	36	109	15.5	46	23	104	15.5		99	5	674
M32-16	16	40	119	16.5	51	25	114	16.5		109	5	973
M32-18	18	45	127	18	56	27.5	122	18		117	5	1165
M32-20	20	50	137	20.5	61	30	132	20.5		127	5	1656
M32-22	22	54	149	22.5	67	32	144	22.5		139	5	2107
M32-24	24	60	162	24	74	35	157	24		152	5	2566
M32-26	26	64	183	25.5	85	37	178	25.5		173	5	3031
M32-28	28	68	200	26.5	93	39	195	26.5		190	5	3468
M32-30	30	72	216	28	102	41	211	28		206	5	3992

-Consult Factory-

- All dimensions are in inches. All weights are in pounds. Weights are approximate.
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- *See [nomenclature guide](#) for additional information on part number creation.



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PROUD DISTRIBUTOR OF
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SUPER CRITICAL CHAMBER SILENCER

30 TO 38 dBA NOISE REDUCTION

M42 OVERVIEW

The M42 is engineered for quiet residential areas where background noise is relatively low, and super critical grade silencing is required.

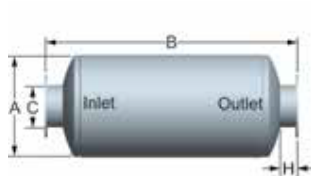
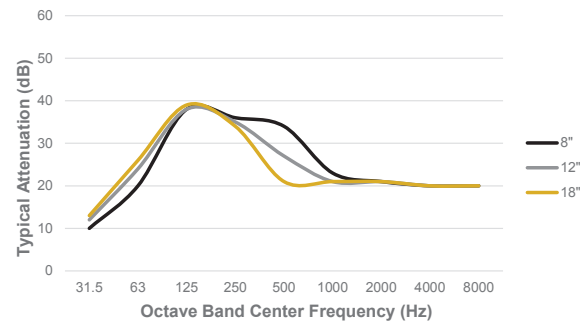
Typical application: Internal combustion engine exhausts in truly quiet residential areas where ambient noise levels are very low and the sound of birds singing and the soft hum of air conditioning units may be the noticeable noise features.

FEATURES

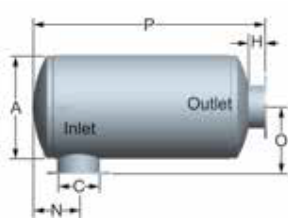
- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- Easily installed in any position
- High heat silicone black finish
- Connections: ANSI pattern flanged
- Two chambers
- Drain connection

OPTIONS / ACCESSORIES

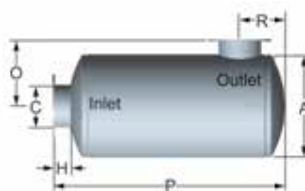
- Explosion relief cover
- Flexible connectors
- Companion flanges
- Cleanout openings
- Custom inlet/outlet size, location and multiple orientations available
- Horizontal or vertical support arrangements
- Aluminized steel, Stainless Steel 304 or 316 construction available
- Special paints and finishes available
- Complete range of exhaust accessories



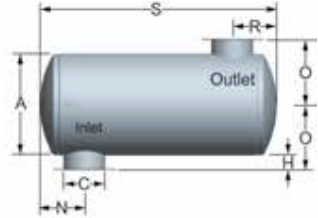
Type 1 - EIEO



Type 2 - SIEO



Type 3 - EISO



Type 4 - SISO

M42

Part No.*	Size / ØC	ØA	B	N Min	N Max	O	P	R Min	R Max	S	H	Est Wt
M42-4	4	16	51	6.5	18	12	47	6.5		43	4	90
M42-5	5	18	62	7	24	13	58	7		54	4	120
M42-6	6	22	69	8.5	26	15	65	8.5		61	4	175
M42-8	8	26	82	10	32	17	78	10		74	4	304
M42-10	10	30	102	12	45	19	98	12		94	4	484
M42-12	12	36	112	15	51	22	108	15		104	4	659
M42-14	14	40	120	15.5	52	25	115	15.5		110	5	930
M42-16	16	45	126	17	55	27.5	121	17		116	5	1140
M42-18	18	50	135	19.5	60	30	130	19.5		125	5	1623
M42-20	20	54	149	21.5	67	32	144	21.5		139	5	2055
M42-22	22	60	157	23	72	35	152	23		147	5	2464
M42-24	24	64	164	24.5	75	37	159	24.5		154	5	2803
M42-26	26	68	184	25.5	85	39	179	25.5		174	5	3282
M42-28	28	72	205	27	97	41	200	27		195	5	3788
M42-30	30	78	220	28.5	104	44	215	28.5		210	5	5293

- All dimensions are in inches. All weights are in pounds. Weights are approximate.
- Listed sound data is based on typical performance and should not be considered absolute.
- *See [nomenclature guide](#) for additional information on part number creation.

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HOSPITAL CHAMBER SILENCER

35 TO 42 dBA NOISE REDUCTION

M52 OVERVIEW

The M52 is engineered for reactive hospital grade noise reduction in heavy industrial areas where machinery operates continuously around a quiet locality. Suitable locations include hospitals, schools and quiet residential districts.

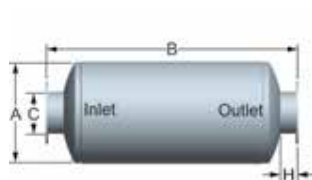
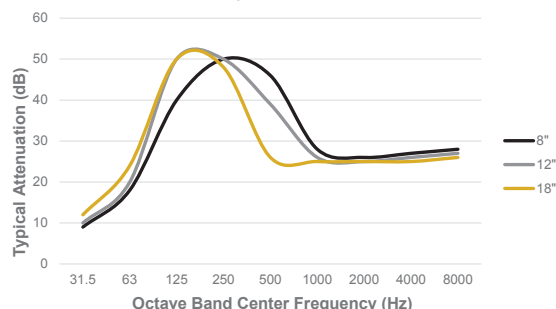
Typical application: Internal combustion engine exhausts in extremely low background noise areas, such as residential or hospital locations away from busy streets.

FEATURES

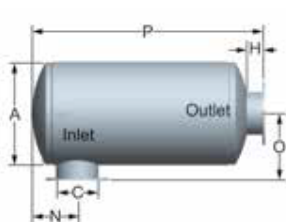
- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- Easily installed in any position
- High heat silicone black finish
- Connections: ANSI pattern flanged
- Sizes 6 and under are two chambered, 8 and above are three chambers
- Drain connection

OPTIONS / ACCESSORIES

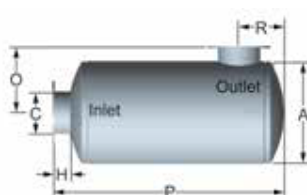
- Explosion relief cover
- Flexible connectors
- Companion flanges
- Cleanout openings
- Custom inlet/outlet size, location and multiple orientations available
- Horizontal or vertical support arrangements
- Aluminized steel, Stainless Steel 304 or 316 construction available
- Special paints and finishes available
- Complete range of exhaust accessories



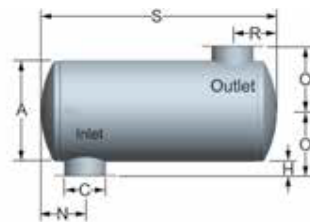
Type 1 - EIEO



Type 2 - SIEO



Type 3 - EISO



Type 4 - SISO

M52

Part No.*	Size / ØC	ØA	B	N Min	N Max	O	P	R Min	R Max	S	H	Est Wt
M52-4	4	18	62	7	26	13	58	7		54	4	177
M52-5	5	22	74	9	32	15	70	9		66	4	271
M52-6	6	26	85	11	38	17	81	11		77	4	342
M52-8	8	30	103	12	26	19	99	12		95	4	548
M52-10	10	36	118	14	32	22	114	14		110	4	783
M52-12	12	36	130	14	36	22	126	14		122	4	870
M52-14	14	40	145	17	37	25	140	17		135	5	1242
M52-16	16	45	156	19	39	27.5	151	19		146	5	1543
M52-18	18	50	171	21	44	30	166	21		161	5	2252
M52-20	20	54	185	22	48	32	180	22		175	5	2818
M52-22	22	60	199	24	51	35	194	24		189	5	3429
M52-24	24	64	212	26	54	37	207	26		202	5	3916
M52-26	26	68	235	27	60	39	230	27		222	5	4576
M52-28	28	72	268	29	71	41	263	29		258	5	5390
M52-30	30	78	278	32	73	44	273	32		268	5	7246

- All dimensions are in inches. All weights are in pounds. Weights are approximate.
- Listed sound data is based on typical performance and should not be considered absolute.
- *See [nomenclature guide](#) for additional information on part number creation.



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HOSPITAL PLUS CHAMBER SILENCER

35 TO 50 dBA NOISE REDUCTION

M62 OVERVIEW

The M62 is engineered for a high degree of silencing in areas requiring hospital plus grade noise reductions. The M62 is a reactive silencer with absorptive type features without resorting to multiple silencers in series or custom designed silencers.

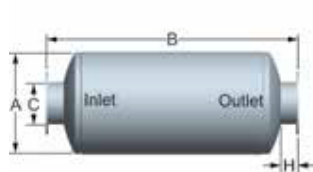
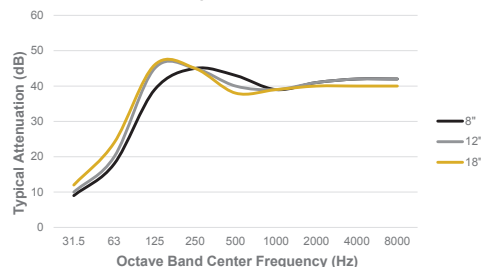
Typical application: Internal combustion engine exhausts in extremely low background noise areas, such as residential or hospital locations away from busy streets.

FEATURES

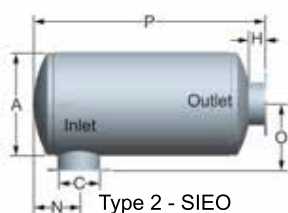
- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- Easily installed in any position
- High heat silicone black finish
- Connections: Sizes 3.5 and under MNPT, 4 and up ANSI pattern flanged
- Sizes 6 and under are two chambered, 8 and above are three chambers
- Drain connection

OPTIONS / ACCESSORIES

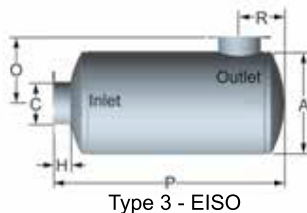
- Explosion relief cover
- Flexible connectors
- Companion flanges
- Cleanout openings
- Custom inlet/outlet size, location and multiple orientations available
- Horizontal or vertical support arrangements
- Aluminized steel, Stainless Steel 304 or 316 construction available
- Special paints and finishes available
- Complete range of exhaust accessories



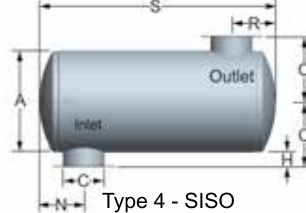
Type 1 - EIEO



Type 2 - SIEO



Type 3 - EISO



Type 4 - SISO

M62

Part No.*	Size / ØC	ØA	B	N Min	N Max	O	P	R Min	R Max	S	H	Est Wt
M62-1.5	1.5	9	36	3.5	14	7.5	33	3.5		30	3	60
M62-2	2	10	40	4.5	16	8	37	4.5		34	3	68
M62-2.5	2.5	12	46	5.5	20	9	43	5.5		40	3	98
M62-3	3	14	50	6	21	10	47	6		44	3	126
M62-3.5	3.5	16	54	7	23	11	51	7		48	3	154
M62-4	4	18	62	7	26	13	58	7		54	4	191
M62-5	5	22	74	9	32	15	70	9		66	4	271
M62-6	6	26	85	11	38	17	81	11		77	4	376
M62-8	8	30	103	12	26	19	99	12		95	4	548
M62-10	10	36	118	14	32	22	114	14		110	4	844
M62-12	12	36	130	14	36	22	126	14		122	4	870
M62-14	14	40	145	17	37	25	140	17		135	5	1359
M62-16	16	45	156	19	39	27.5	151	19		146	5	1543
M62-18	18	50	171	21	44	30	166	21		161	5	2417
M62-20	20	54	185	22	48	32	180	22		175	5	2818
M62-22	22	60	199	24	51	35	194	24		189	5	3590
M62-24	24	64	212	26	54	37	207	26		202	5	3916
M62-26	26	68	235	27	60	39	230	27		225	5	4770
M62-28	28	72	268	29	71	41	263	29		258	5	5390
M62-30	30	78	278	32	73	44	273	32		268	5	7679

-Consult Factory -

- All dimensions are in inches. All weights are in pounds. Weights are approximate.
- Listed sound data is based on typical performance and should not be considered absolute.
- *See [nomenclature guide](#) for additional information on part number creation.

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EXTREME CHAMBER SILENCER

40 TO 55 dBA NOISE REDUCTION

M72 OVERVIEW

The M72 is engineered for areas requiring extreme grade noise reductions and is a reactive and absorptive silencer designed to achieve maximum attenuation as well as minimize radiated noise from breakout, without resorting to multiple silencers in series or custom designed silencers.

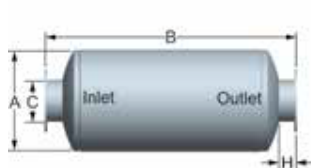
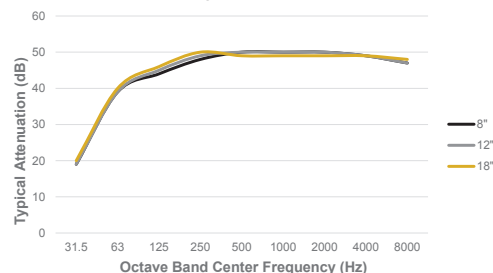
Typical application: Internal combustion engine exhausts in extremely low background noise areas, such as residential or hospital locations away from busy streets.

FEATURES

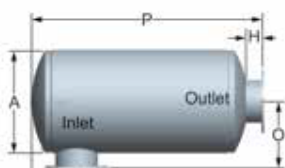
- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- Easily installed in any position
- High heat silicone black finish
- Connections: Sizes 3.5 and under MNPT, 4 and up ANSI pattern flanged
- Sizes 6 and under are two chambered, 8 and above are three chambers
- Drain connection

OPTIONS / ACCESSORIES

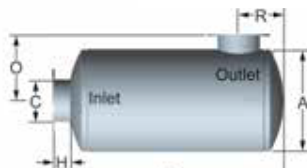
- Explosion relief cover
- Flexible connectors
- Companion flanges
- Cleanout openings
- Custom inlet/outlet size, location and multiple orientations available
- Horizontal or vertical support arrangements
- Aluminized steel, Stainless Steel 304 or 316 construction available
- Special paints and finishes available
- Complete range of exhaust accessories



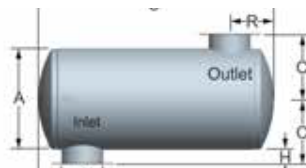
Type 1 - EIEO



Type 2 - SIEO



Type 3 - EISO



Type 4 - SISO

M72

Part No.*	Size / ØC	ØA	B	N Min	N Max	O	P	R Min	R Max	S	H	Est Wt
M72-1.5	1.5	12	60	5		9	57	5		54	3	188
M72-2	2	12	64	6		9	61	6		58	3	204
M72-2.5	2.5	14	70	7		10	67	7		64	3	264
M72-3	3	16	74	7		11	71	7		68	3	329
M72-3.5	3.5	18	78	8		12	75	8		72	3	389
M72-4	4	22	84	8		15	80	8		76	4	498
M72-5	5	26	97	10		17	93	10		89	4	698
M72-6	6	30	110	12		19	106	12		102	4	944
M72-8	8	36	134	13		22	130	13		126	4	1511
M72-10	10	40	150	15		24	146	15		144	4	1910
M72-12	12	40	158	15		24	154	15		150	4	2084
M72-14	14	45	174	18		27.5	169	18		164	5	2549
M72-16	16	50	194	21		30	189	21		184	5	3237
M72-18	18	54	208	23		32	203	23		198	5	3944
M72-20	20	60	226	25		35	221	25		216	5	5443
M72-22	22	64	228	26		37	223	26		218	5	6006
M72-24	24	68	233	27		39	228	27		223	5	6638
M72-26	26	72	234	29		41	229	29		224	5	7196
M72-28	28	78	244	30		44	239	30		234	5	9513
M72-30	30	84	254	32		47	249	32		244	5	10807

- All dimensions are in inches. All weights are in pounds. Weights are approximate.
- Listed sound data is based on typical performance and should not be considered absolute.
- *See [nomenclature guide](#) for additional information on part number creation.



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SUPER EXTREME CHAMBER SILENCER

45 TO 60 dBA NOISE REDUCTION

M82 OVERVIEW

The M82 is engineered for the highest degree of silencing in areas requiring super extreme grade noise reductions. The M82 is presently the top-of-the-line reactive and absorptive silencer designed to achieve maximum attenuation as well as minimize radiated noise from breakout, without resorting to multiple silencers in series or custom designed silencers.

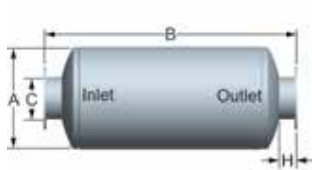
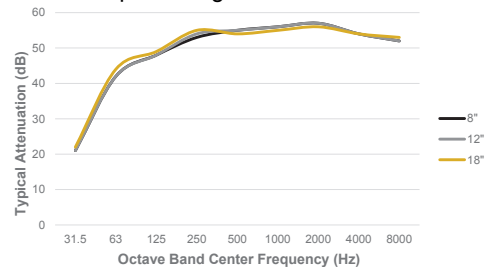
Typical application: Internal combustion engine exhausts in extremely low background noise areas, such as residential or hospital locations away from busy streets.

FEATURES

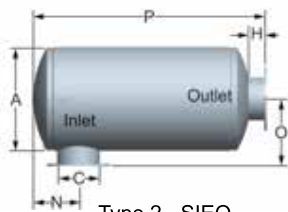
- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- Easily installed in any position
- High heat silicone black finish
- Connections: Sizes 3.5 and under MNPT, 4 and up ANSI pattern flanged
- Sizes 6 and under are two chambered, 8 and above are three chambers
- Drain connection

OPTIONS / ACCESSORIES

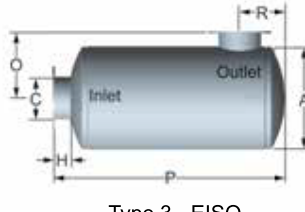
- Explosion relief cover
- Flexible connectors
- Companion flanges
- Cleanout openings
- Custom inlet/outlet size, location and multiple orientations available
- Horizontal or vertical support arrangements
- Aluminized steel, Stainless Steel 304 or 316 construction available
- Special paints and finishes available
- Complete range of exhaust accessories



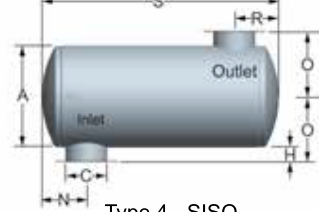
Type 1 - EIEO



Type 2 - SIEO



Type 3 - EISO



Type 4 - SISO

M82

Part No.*	Size / ØC	ØA	B	N Min	N Max	O	P	R Min	R Max	S	H	Est Wt
M82-1.5	1.5	18	70	6		12	67	6		64	3	384
M82-2	2	20	74	6		13	71	6		68	3	460
M82-2.5	2.5	20	80	7		13	77	7		74	3	504
M82-3	3	22	84	8		14	81	8		78	3	583
M82-3.5	3.5	24	88	9		15	85	9		82	3	695
M82-4	4	26	94	10		17	90	10		86	4	788
M82-5	5	26	108	11	-Consult Factory-	17	104	11	-Consult Factory-	100	4	913
M82-6	6	30	118	13		19	114	13		110	4	1172
M82-8	8	36	134	14		22	130	14		126	4	1715
M82-10	10	40	150	16		24	146	16		142	4	2164
M82-12	12	40	158	16		24	154	16		150	4	2356
M82-14	14	45	174	19		27.5	169	19		164	5	3017
M82-16	16	50	194	22		30	189	22		184	5	3805
M82-18	18	54	208	24		32	203	24		198	5	4502
M82-20	20	60	226	26		35	221	26		216	5	6185
M82-22	22	64	228	27		37	223	27		218	5	7086
M82-24	24	68	233	28		39	228	28		223	5	7810
M82-26	26	72	234	30		41	229	30		224	5	8419
M82-28	28	78	244	31		44	239	31		234	5	11045
M82-30	30	84	254	33		47	249	33		244	5	12545

- All dimensions are in inches. All weights are in pounds. Weights are approximate.
- Listed sound data is based on typical performance and should not be considered absolute.
- *See [nomenclature guide](#) for additional information on part number creation.

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MSA-SERIES



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Please consult your sales person.**

"I have but one lamp by which my feet are guided, and that is the lamp of experience."

—Patrick Henry



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PROUD DISTRIBUTOR OF
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INDUSTRIAL SPARK ARRESTING CHAMBER SILENCER

12 TO 20 dBA NOISE REDUCTION

MSA10 OVERVIEW

The MSA10 silencer is engineered to provide an industrial grade attenuation with a highly efficient spark arrestor. Designed for use on the exhaust system of internal combustion engines where a fire hazard or dirt nuisance would exist from particles of carbon or ash in the exhaust stream.

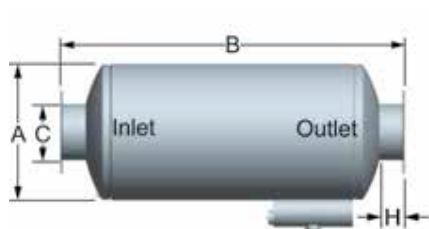
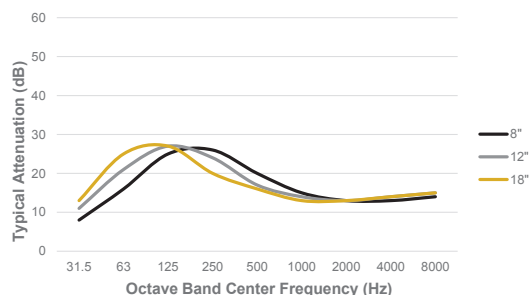
Typical Applications: Internal combustion engine exhausts, marine service, refineries/hazardous environments, and offshore drilling/production platforms

FEATURES

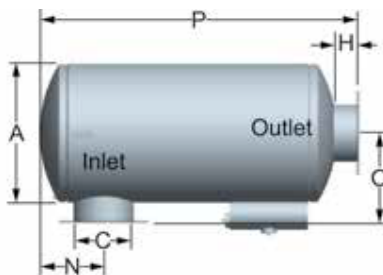
- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- Easily installed in any position
- High heat silicone black finish
- Connections: ANSI pattern flanged
- Two chambers
- Drain connection

OPTIONS / ACCESSORIES

- Explosion relief cover
- Flexible connectors
- Companion flanges
- Cleanout openings
- Custom inlet/outlet size, location and multiple orientations available
- Horizontal or vertical support arrangements
- Aluminized steel, Stainless Steel 304 or 316 construction available
- Special paints and finishes available
- Complete range of exhaust accessories



Type 1 - EIEO



Type 2 - SIEO

MSA10

Part No.*	Size / ØC	ØA	B	N Min	N Max	O	P	H	Est Wt
MSA10-4	4	10	30	5		9	26	4	40
MSA10-5	5	12	34	6		10	30	4	51
MSA10-6	6	14	41	6.5		11	37	4	75
MSA10-8	8	16	48	8.5		12	44	4	108
MSA10-10	10	18	50	9.5		13	46	4	138
MSA10-12	12	22	60	11.5		15	56	4	203
MSA10-14	14	30	70	13.5		20	65	5	394
MSA10-16	16	36	80	16.5		23	75	5	535
MSA10-18	18	40	90	17.5		25	85	5	858

-Consult Factory-

- All dimensions are in inches. All weights are in pounds. Weights are approximate.
- Listed sound data is based on typical performance and should not be considered absolute.
- *See [nomenclature guide](#) for additional information on part number creation.

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RESIDENTIAL SPARK ARRESTING CHAMBER SILENCER

20 TO 25 dBA NOISE REDUCTION

MSA11 OVERVIEW

The MSA11 silencer is engineered to provide a residential grade attenuation with a highly efficient spark arrestor. Designed for use on the exhaust system of internal combustion engines where a fire hazard or dirt nuisance would exist from particles of carbon or ash in the exhaust stream.

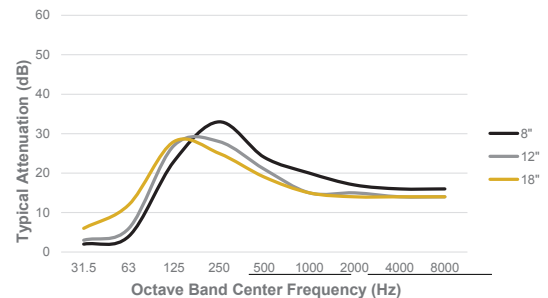
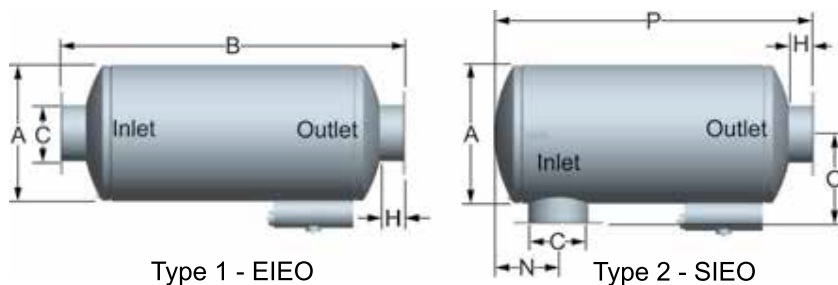
Typical Applications: Internal combustion engine exhausts, marine service, refineries/hazardous environments, and offshore drilling/production platforms

FEATURES

- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- Easily installed in any position
- High heat silicone black finish
- Connections: Sizes 3.5 and under MNPT, 4 and up ANSI pattern flanged
- Two chambers
- Drain connection

OPTIONS / ACCESSORIES

- Explosion relief cover
- Flexible connectors
- Companion flanges
- Cleanout openings
- Custom inlet/outlet size, location and multiple orientations available
- Horizontal or vertical support arrangements
- Aluminized steel, Stainless Steel 304 or 316 construction available
- Special paints and finishes available
- Complete range of exhaust accessories



MSA11

Part No.*	Size / ØC	ØA	B	N Min	N Max	O	P	H	Est Wt
MSA11-1.5	1.5	9	20	3.5		7.5	17	3	20
MSA11-2	2	9	20	4		7.5	17	3	21
MSA11-2.5	2.5	10	24	4.5		8	21	3	28
MSA11-3	3	12	26	5		9	23	3	41
MSA11-3.5	3.5	14	30	5.5		10	27	3	55
MSA11-4	4	14	36	6		11	32	4	64
MSA11-5	5	16	43	7		12	39	4	88
MSA11-6	6	18	49	7.5		13	45	4	110
MSA11-8	8	22	59	9.5		15	55	4	178
MSA11-10	10	26	64	11.5		17	60	4	280
MSA11-12	12	30	77	13		19	73	4	416
MSA11-14	14	36	83	15.5		23	78	5	558
MSA11-16	16	40	90	16.5		25	85	5	793
MSA11-18	18	45	96	18		27.5	91	5	950
MSA11-20	20	50	109	20.5		30	104	5	1392
MSA11-22	22	54	119	22.5		32	114	5	1806
MSA11-24	24	60	125	24		35	120	5	2187
MSA11-26	26	64	140	25.5		37	135	5	2586
MSA11-28	28	68	155	26.5		39	150	5	2984
MSA11-30	30	72	166	28		41	161	5	3445

-Consult Factory-

- All dimensions are in inches. All weights are in pounds. Weights are approximate.
- Listed sound data is based on typical performance and should not be considered absolute.
- *See [nomenclature guide](#) for additional information on part number creation.



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CRITICAL SPARK ARRESTING CHAMBER SILENCER

25 TO 32 dBA NOISE REDUCTION

MSA22 OVERVIEW

The MSA22 silencer is engineered to provide a critical grade attenuation with a highly efficient spark arrestor. Designed for use on the exhaust system of internal combustion engines where a fire hazard or dirt nuisance would exist from particles of carbon or ash in the exhaust stream.

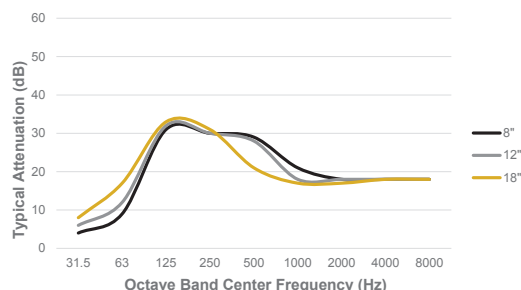
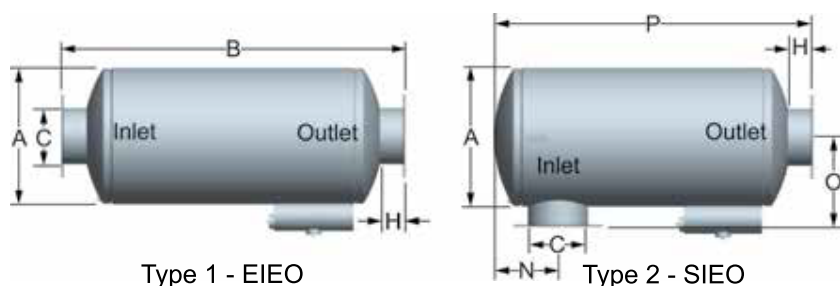
Typical Applications: Internal combustion engine exhausts, marine service, refineries/hazardous environments, and offshore drilling/production platforms

FEATURES

- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- Easily installed in any position
- High heat silicone black finish
- Connections: Sizes 3.5 and under MNPT, 4 and up ANSI pattern flanged
- Two chambers
- Drain connection

OPTIONS / ACCESSORIES

- Explosion relief cover
- Flexible connectors
- Companion flanges
- Cleanout openings
- Custom inlet/outlet size, location and multiple orientations available
- Horizontal or vertical support arrangements
- Aluminized steel, Stainless Steel 304 or 316 construction available
- Special paints and finishes available
- Complete range of exhaust accessories



MSA22									
Part No.*	Size / ØC	ØA	B	N Min	N Max	O	P	H	Est Wt
MSA22-1.5	1.5	9	30	4		7.5	27	3	27
MSA22-2	2	9	30	4.5		7.5	27	3	28
MSA22-2.5	2.5	10	34	5		8	31	3	37
MSA22-3	3	12	38	5.5		9	35	3	54
MSA22-3.5	3.5	14	42	6		10	39	3	70
MSA22-4	4	14	48	6		11	44	4	77
MSA22-5	5	16	57	7		12	53	4	108
MSA22-6	6	18	63	8		13	59	4	132
MSA22-8	8	22	74	9.5		15	70	4	205
MSA22-10	10	26	87	11.5		17	83	4	356
MSA22-12	12	30	102	13		19	98	4	518
MSA22-14	14	36	109	15.5		23	104	5	687
MSA22-16	16	40	119	16.5		25	114	5	976
MSA22-18	18	45	127	18		27.5	122	5	1169
MSA22-20	20	50	137	20.5		30	132	5	1676
MSA22-22	22	54	149	22.5		32	144	5	2127
MSA22-24	24	60	162	24		35	157	5	2627
MSA22-26	26	64	183	25.5		37	178	5	3106
MSA22-28	28	68	200	26.5		39	195	5	3561
MSA22-30	30	72	216	28		41	211	5	4140

- All dimensions are in inches. All weights are in pounds. Weights are approximate.
- Listed sound data is based on typical performance and should not be considered absolute.
- *See [nomenclature guide](#) for additional information on part number creation.

SUPER CRITICAL SPARK ARRESTING CHAMBER SILENCER

30 TO 38 dBA NOISE REDUCTION

MSA33 OVERVIEW

The MSA33 silencer is engineered to provide a super critical grade attenuation with a highly efficient spark arrestor. Designed for use on the exhaust system of internal combustion engines where a fire hazard or dirt nuisance would exist from particles of carbon or ash in the exhaust stream. Great for quiet residential areas where background noise is relatively low and super critical grade silencing with a spark arresting feature is required

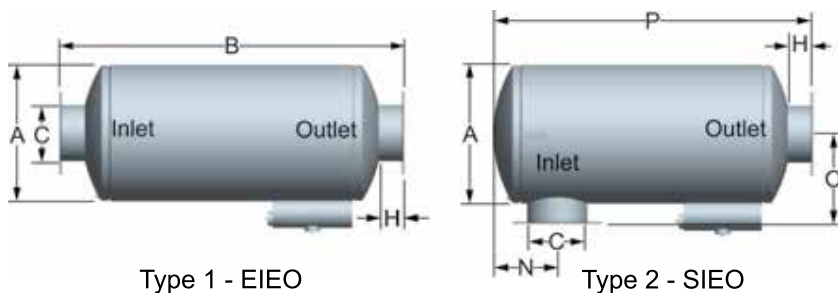
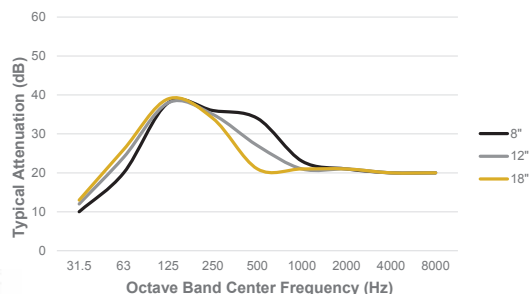
Typical Applications: Internal combustion engine exhausts, marine service, refineries/hazardous environments, and offshore drilling/production platforms

FEATURES

- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- Easily installed in any position
- High heat silicone black finish
- Connections: ANSI pattern flanged
- Two chambers
- Drain connection

OPTIONS / ACCESSORIES

- Explosion relief cover
- Flexible connectors
- Companion flanges
- Cleanout openings
- Custom inlet/outlet size, location and multiple orientations available
- Horizontal or vertical support arrangements
- Aluminized steel, Stainless Steel 304 or 316 construction available
- Special paints and finishes available
- Complete range of exhaust accessories



MSA33

Part No.*	Size / ØC	ØA	B	N Min	N Max	O	P	H	Est Wt
MSA33-4	4	16	51	6.5		12	47	4	94
MSA33-5	5	18	62	7		13	58	4	130
MSA33-6	6	22	69	8.5		15	65	4	186
MSA33-8	8	26	82	10		17	78	4	318
MSA33-10	10	30	102	12		19	98	4	494
MSA33-12	12	36	112	15		22	108	4	690
MSA33-14	14	40	120	15.5		25	115	5	968
MSA33-16	16	45	126	17		27.5	121	5	1155
MSA33-18	18	50	135	19.5		30	130	5	1636
MSA33-20	20	54	149	21.5		32	144	5	2086
MSA33-22	22	60	157	23		35	152	5	2492
MSA33-24	24	64	164	24.5		37	159	5	2831
MSA33-26	26	68	184	25.5		39	179	5	3316
MSA33-28	28	72	205	27		41	200	5	3821
MSA33-30	30	78	220	28.5		44	215	5	5324

-Consult Factory-



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- All dimensions are in inches. All weights are in pounds. Weights are approximate.
- Listed sound data is based on typical performance and should not be considered absolute.
- *See [nomenclature guide](#) for additional information on part number creation.

HOSPITAL SPARK ARRESTING CHAMBER SILENCER

35 TO 42 dBA NOISE REDUCTION

MSA44 OVERVIEW

The MSA44 silencer is engineered to provide a hospital grade attenuation with a highly efficient spark arrestor. Designed for use on the exhaust system of internal combustion engines where a fire hazard or dirt nuisance would exist from particles of carbon or ash in the exhaust stream. Suitable for use where background noise is extremely low, such as residential or hospital locations away from busy streets.

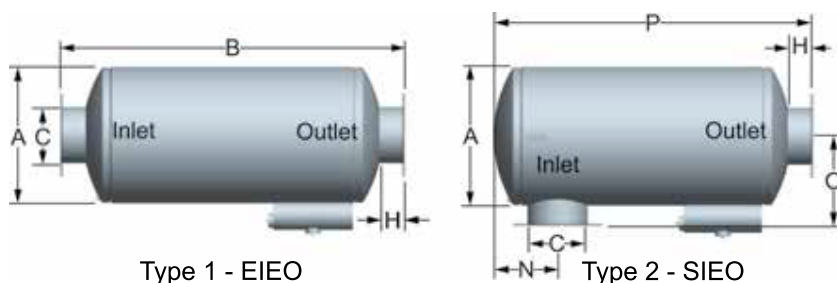
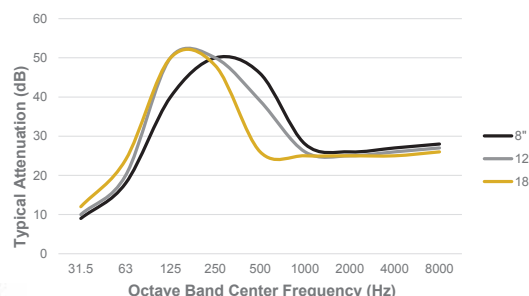
Typical Applications: Internal combustion engine exhausts, marine service, refineries/hazardous environments, and offshore drilling/production platforms

FEATURES

- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- Easily installed in any position
- High heat silicone black finish
- Connections: ANSI pattern flanged
- Sizes 6 and under are two chambered, 8 and above are three chambers
- Drain connection

OPTIONS / ACCESSORIES

- Explosion relief cover
- Flexible connectors
- Companion flanges
- Cleanout openings
- Custom inlet/outlet size, location and multiple orientations available
- Horizontal or vertical support arrangements
- Aluminized steel, Stainless Steel 304 or 316 construction available
- Special paints and finishes available
- Complete range of exhaust accessories



MSA44									
Part No.*	Size / ØC	ØA	B	N Min	N Max	O	P	H	Est Wt
MSA44-4	4	18	62	7		13	58	4	119
MSA44-5	5	22	74	9		15	70	4	189
MSA44-6	6	26	85	11		17	81	4	305
MSA44-8	8	30	103	12		19	99	4	517
MSA44-10	10	36	118	14		22	114	4	730
MSA44-12	12	36	130	14		22	126	4	820
MSA44-14	14	40	145	17		25	140	5	1188
MSA44-16	16	45	156	19		27.5	151	5	1461
MSA44-18	18	50	171	21		30	166	5	2111
MSA44-20	20	54	185	22		32	180	5	2664
MSA44-22	22	60	199	24		35	194	5	3237
MSA44-24	24	64	212	26		37	207	5	3693
MSA44-26	26	66	235	27		39	230	5	4313
MSA44-28	28	72	268	29		41	263	5	5053
MSA44-30	30	78	278	32		44	273	5	6866

-Consult Factory-

- All dimensions are in inches. All weights are in pounds. Weights are approximate.
- Listed sound data is based on typical performance and should not be considered absolute.
- *See [nomenclature guide](#) for additional information on part number creation.

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HOSPITAL PLUS SPARK ARRESTING CHAMBER SILENCER

35 TO 50 dBA NOISE REDUCTION

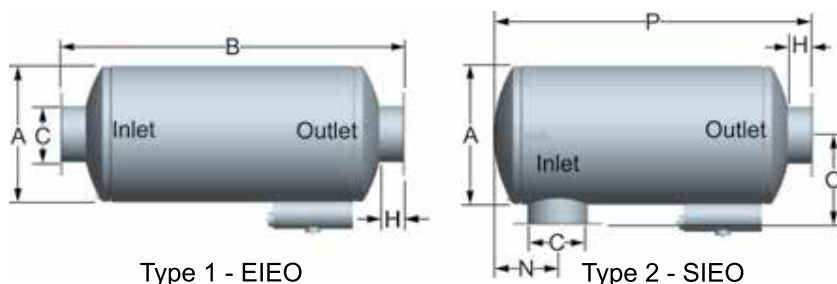
MSA55 OVERVIEW

The MSA55 silencer is engineered to provide the highest grade attenuation with a highly efficient spark arrestor. The MSA55 is a reactive silencer with absorptive type features without resorting to multiple silencers in series or custom designed silencers. Designed for use on the exhaust system of internal combustion engines where a fire hazard or dirt nuisance would exist from particles of carbon or ash in the exhaust stream. Suitable for use where background noise is extremely low, such as residential or hospital locations away from busy streets.

Typical Applications: Internal combustion engine exhausts, marine service, refineries/hazardous environments, and offshore drilling/production platforms

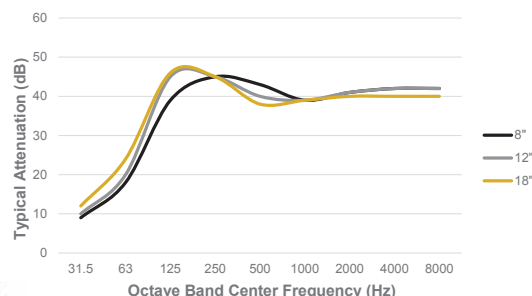
FEATURES

- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- Easily installed in any position
- High heat silicone black finish
- Connections: ANSI pattern flanged
- Three chambers
- Drain connection



OPTIONS / ACCESSORIES

- Explosion relief cover
- Flexible connectors
- Companion flanges
- Cleanout openings
- Custom inlet/outlet size, location and multiple orientations available
- Horizontal or vertical support arrangements
- Aluminized steel, Stainless Steel 304 or 316 construction available
- Special paints and finishes available
- Complete range of exhaust accessories



MSA55

Part No.*	Size / ØC	ØA	B	N Min	N Max	O	P	H	Est Wt
MSA55-4	4	18	62	7		13	58	4	200
MSA55-5	5	22	74	9		15	70	4	314
MSA55-6	6	26	85	11		17	81	4	382
MSA55-8	8	30	103	12		19	99	4	590
MSA55-10	10	36	118	14		22	114	4	829
MSA55-12	12	36	130	14		22	126	4	953
MSA55-14	14	40	145	17		25	140	5	1345
MSA55-16	16	45	156	19		27.5	151	5	1628
MSA55-18	18	50	171	21		30	166	5	2371
MSA55-20	20	54	185	22		32	180	5	2969
MSA55-22	22	60	199	24		35	194	5	3562
MSA55-24	24	64	212	26		37	207	5	4048
MSA55-26	26	68	235	27		39	230	5	4737
MSA55-28	28	72	268	29		41	263	5	5692
MSA55-30	30	78	278	32		44	273	5	7573

-Consult Factory-

- All dimensions are in inches. All weights are in pounds. Weights are approximate.
- Listed sound data is based on typical performance and should not be considered absolute.
- *See [nomenclature guide](#) for additional information on part number creation.



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M-11 ACCESSORIES



**Other accessories are also available.
Please consult your salesperson.**

"I know of no way of judging the future but by the past."

—Patrick Henry

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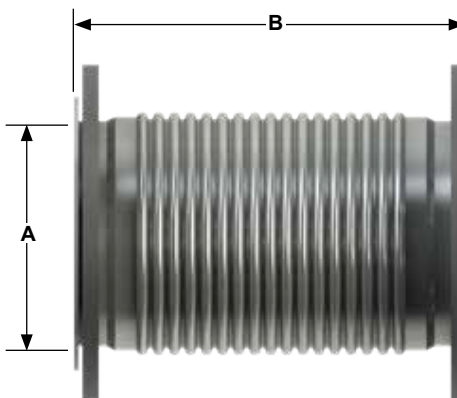
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M-11 BELLOWS EXPANSION JOINTS / BELLOWS

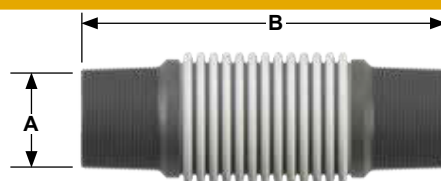
Floating ANSI Flange / ANSI Flange

Part Number	A	B
M-11-1F1-3512	3.5	12
M-11-1F1-412	4	12
M-11-1F1-512	5	12
M-11-1F1-612	6	12
M-11-1F1-618	6	18
M-11-1F1-812	8	12
M-11-1F1-818	8	18
M-11-1F1-1012	10	12
M-11-1F1-1018	10	18
M-11-1F1-1212	12	12
M-11-1F1-1218	12	18
M-11-1F1-1412	14	12
M-11-1F1-1418	14	18
M-11-1F1-1612	16	12
M-11-1F1-1618	16	18
M-11-1F1-1812	18	12
M-11-1F1-1818	18	18
M-11-1F1-2012	20	12
M-11-1F1-2018	20	18
M-11-1F1-2212	22	12
M-11-1F1-2218	22	18
M-11-1F1-2412	24	12
M-11-1F1-2418	24	18
M-11-1F1-2612	26	12
M-11-1F1-2618	26	18
M-11-1F1-2812	28	12
M-11-1F1-2818	28	18
M-11-1F1-3012	30	12
M-11-1F1-3018	30	18



Male NPT / Male NPT

Part Number	A	B
M-11-22-3514	3.5	14
M-11-22-414	4	14
M-11-22-516	5	16
M-11-22-618	6	18



Threaded pipe nipples may be replaced with plain pipe stubs.

- All dimensions are in inches.
- Other sizes available, call for details.
- All ANSI flanges may be replaced with a standard Caterpillar, Cummins, or MTU engine flanges.
- Bellows are 321 stainless steel. End connections are carbon steel. Connections available in stainless steel.
- Bellows flow liners are recommended for exhaust 6" and below when gas/stream flow conditions are greater than or equal to 4 ft/second/inch of diameter and for exhaust 8" and above when gas/stream flow conditions are greater than or equal to 25 ft/second.



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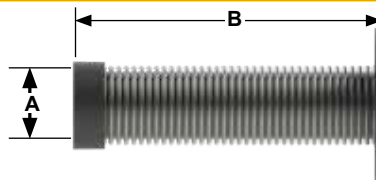
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M-11 BELLOWS

EXPANSION JOINTS / BELLOWS

Female Half Coupling / ANSI Flange

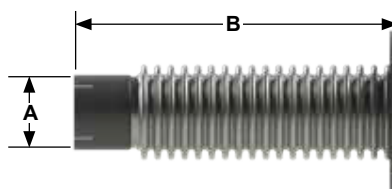
Part Number	A	B
M-11-31-3514	3.5	14
M-11-31-414	4	14
M-11-31-516	5	16
M-11-31-618	6	18



Slotted ID Cuff / ANSI Flange

Part Number	A	B
M-11-41-3514	3.5	14
M-11-41-414	4	14
M-11-41-514	5	14
M-11-41-618	6	18

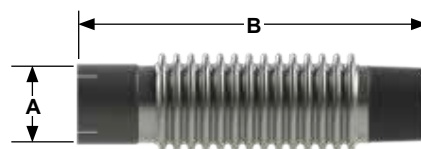
Cuff may be replaced by plain tube.



Slotted ID Cuff / Male NPT

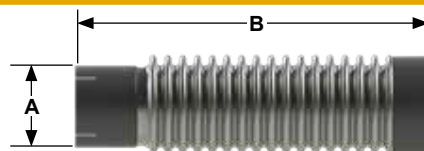
Part Number	A	B
M-11-42-3514	3.5	14
M-11-42-414	4	14
M-11-42-516	5	16
M-11-42-618	6	18

Threaded pipe nipples may be replaced with plain pipe stubs.



Slotted ID Cuff / Female Half Coupling

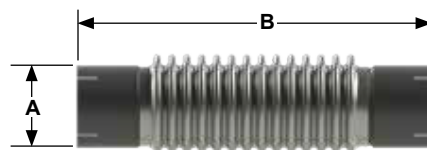
Part Number	A	B
M-11-43-3514	3.5	14
M-11-43-414	4	14



Slotted ID Cuff / Slotted ID Cuff

Part Number	A	B
M-11-44-3518	3.5	18
M-11-44-418	4	18
M-11-44-518	5	18
M-11-44-618	6	18
M-11-44-818	8	18
M-11-44-1018	10	18
M-11-44-1218	12	18

Tube ends may be substituted.

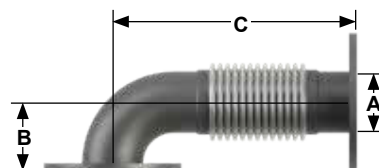


- All dimensions are in inches.
- Other sizes available, call for details.
- All ANSI flanges may be replaced with a standard Caterpillar, Cummins, or MTU engine flanges.
- Bellows are 321 stainless steel. End connections are carbon steel. Connections available in stainless steel.
- Bellows flow liners are recommended for exhaust 6" and below when gas/stream flow conditions are greater than or equal to 4 ft/second/inch of diameter and for exhaust 8" and above when gas/stream flow conditions are greater than or equal to 25 ft/second.

M-11 BELLOWS EXPANSION JOINTS / BELLOWS

Floating ANSI Flange / 90° Elbow / Floating ANSI Flange

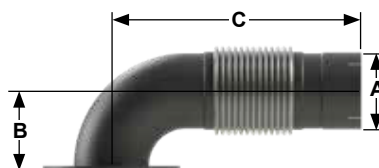
Part Number	A	B	C
M-11-1F61F-400-B45C16	4	4.5	16
M-11-1F61F-500-B55C16	5	5.5	16
M-11-1F61F-600-B65C18	6	6.5	18
M-11-1F61F-800-B9C18	8	9	18
M-11-1F61F-1000-B11C24	10	11	24
M-11-1F61F-1200-B13C24	12	13	24



Floating ANSI Flange / 90° Elbow / Slotted ID Cuff

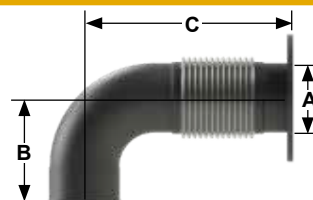
Part Number	A	B	C
M-11-1F64-400-B45C18	4	4.5	18
M-11-1F64-500-B55C18	5	5.5	18
M-11-1F64-600-B65C20	6	6.5	20

Tube ends may be substituted.



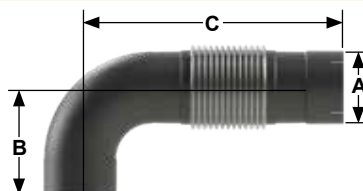
Flared Flange / 90° Elbow / Floating ANSI Flange

Part Number	A	B	C
M-11-761F-500-B8C18	5	8	18
M-11-761F-600-B9C18	6	9	18



Flared Flange / 90° Elbow / Slotted ID Cuff

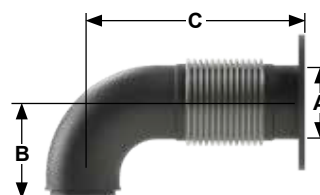
Part Number	A	B	C
M-11-764-350-B5C18	3.5	5	18
M-11-764-400-B5.5C18	4	5.5	18
M-11-764-500-B8C20	5	8	20
M-11-764-600-B9C22	6	9	22



Machined Turbo Flange / 90° Elbow / Floating ANSI Flange

Part Number	A	B	C
M-11-861F-500-B6.63C18	5	6.63	18
M-11-861F-600-B7.63C18	6	7.63	18
M-11-DD-861F-600-B9.47C20	6	9.47	20

Both 5" and 6" connectors are equipped with a 5" machined turbo flange.



- All dimensions are in inches.
- Other sizes available, call for details.
- All ANSI flanges may be replaced with a standard Caterpillar, Cummins, or MTU engine flanges.
- Bellows are 321 stainless steel. End connections are carbon steel.
- Connections available in stainless steel.
- Bellows flow liners are recommended for exhaust 6" and below when gas/stream flow conditions are greater than or equal to 4 ft/second/inch of diameter and for exhaust 8" and above when gas/stream flow conditions are greater than or equal to 25 ft/second.



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