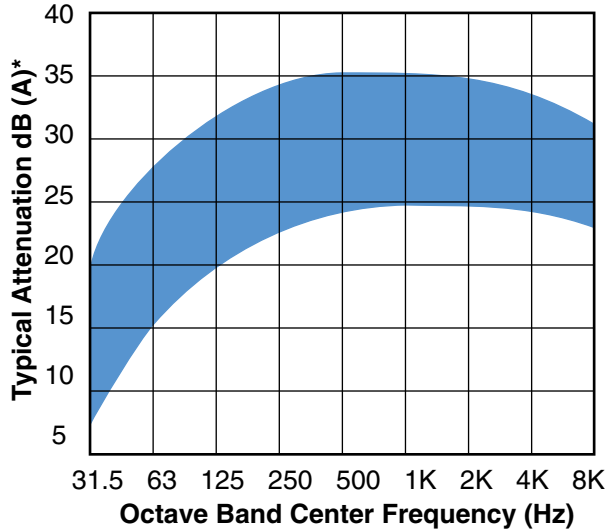


# Critical "300" Level Exhaust Silencers

## Typical Attenuation Curve dB(A)\*

(ACTUAL ATTENUATION MAY VARY ACCORDING TO APPLICATION)



\*Estimated

### Application:

These silencers are recommended where ambient noise is low and a high degree of silencing is necessary.

### Construction:

**Aluminized Steel:** Nelson Silencers through 26" O.D. are fabricated of aluminized steel as standard materials. This material has a maximum operating temperature of 1250°F.

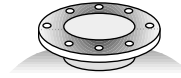
**Mild Steel/Aluminized Steel:** Nelson Silencers 30" O.D. and larger are fabricated of mild steel and aluminized steel. All silencers 30" O.D. and larger have aluminized steel bodies with all other components fabricated from mild steel.

**Silicone Aluminum Paint:** Nelson Silencers through 26" O.D. are given a coat of high heat resistant silicone aluminum paint.

**Primer/Silicone Aluminum Paint:** Nelson Silencers 30" O.D. and larger are given a coat of high heat, rust inhibiting primer and then a topcoat of high heat resistant silicone aluminum paint. Physical properties are maintained up to 900°F\* on aluminized steel and 1100°F\* on mild steel.

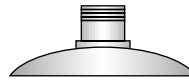
### Sample Specification:

The silencer is to be a Nelson Critical "300" Level Silencer constructed of aluminized steel (26" body diameter and smaller) or mild steel/aluminized steel (larger than 26" body diameter) with all welded construction and suitable for mounting in any position.



### "F" Mounting Flange:

Standard in sizes 4" to 22". Drilling matches 125/150# ASA standard.



### "P" Male Pipe Threads:

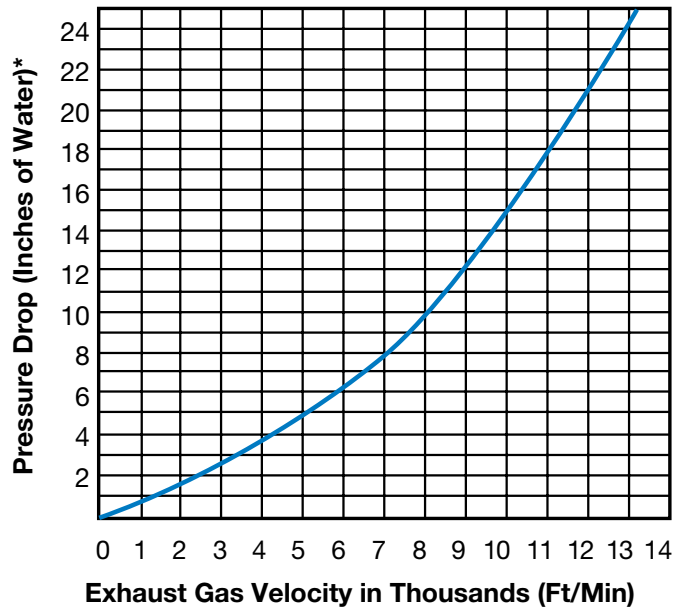
NPT ends offered in sizes 3/4" through 4".

Companion flanges available for 4" to 22".

### Construction Features:

Double wrapped body is standard on all "300" Level Critical Silencers.

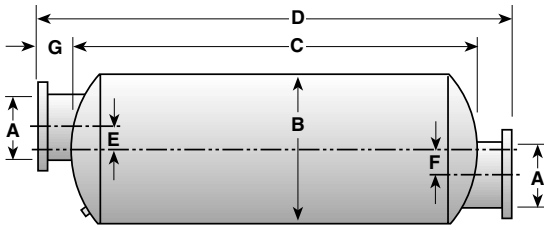
### Pressure Drop



**Note:** When figuring pressure drop for side inlet or middle side inlet add 3" H<sub>2</sub>O to back pressure shown on above curve.

\*Estimated

### Type 1



Part Number	A Nominal Inlet Diameter	B Body Dia. O.D.	C Body Length	D Overall Length	E Offset To C/L	F Offset To C/L	G Inlet Length
41307	.75	4.2	21.3	23.8	0	0	1.3
41310*	1.00	5.0	23.4	27.0	0.75	0.72	1.8
41313	1.25	6.1	27.5	31.2	0	0	1.8
41315	1.50	8.1	30.7	34.6	0	0	1.9
41320	2.00	9.0	40.8	44.0	0	0	1.6
41325	2.50	10.1	47.2	52.0	0	0	2.4
41330	3.00	11.1	49.5	55.6	0	0	3.1
41335	3.50	12.1	51.3	57.0	0	0	2.3
41340*	4.00	12.1	58.3	64.0	1.82	1.80	2.9
41350*	5.00	14.1	63.5	71.4	2.60	2.56	4.0
41360*	6.00	16.1	72.0	80.8	2.00	2.00	4.4
41380	8.00	22.1	78.7	86.0	0	0	3.7
41382	10.00	26.2	79.7	87.0	0	0	3.7
41384	12.00	30.2	104.8	112.0	0	0	3.6
41386	14.00	42.2	108.2	115.0	0	0	3.4
41388	16.00	42.2	156.2	163.0	0	0	3.4
41399	18.00	48.2	133.9	139.9	0	0	3.1
41321	20.00	54.3	159.6	165.5	0	0	3.3
41322	22.00	60.3	161.3	166.8	0	0	2.8

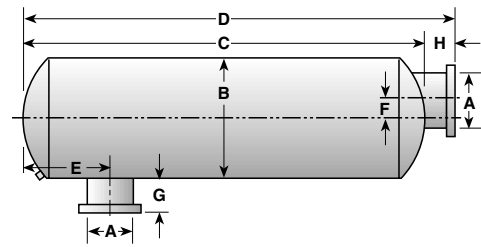
\* Inlet and outlet offset from centerline of silencer as shown in dimension E and F.

Drains are standard on all silencers with a 9" body diameter or larger.

**Note: Specifications are subject to change without notice.**

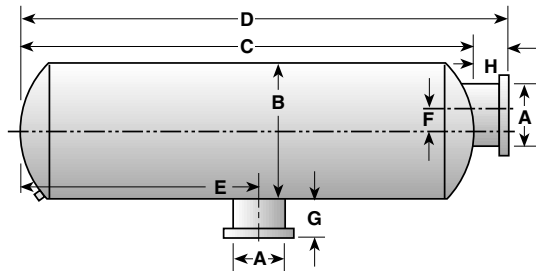
**Note: All dimensions are in inches.**

### Type 3



Part Number	A Nominal Inlet Diameter	B Body Dia. O.D.	C Body Length	D Overall Length	E Offset To C/L	F Offset To C/L	G Inlet Length	H Outlet Length
43320	2.0	9.0	40.8	42.4	3.9	0	2.0	1.6
43325	2.5	10.1	46.6	49.3	3.8	0	2.5	2.7
43330	3.0	11.1	50.0	52.8	4.5	0	3.0	2.8
43335	3.5	12.1	51.4	54.2	5.2	0	3.0	2.8
43340	4.0	12.1	58.4	61.2	5.7	1.8	3.0	2.8
43350	5.0	14.1	63.5	67.4	5.8	2.6	4.0	3.9
43360	6.0	16.1	72.0	76.4	6.5	3.1	4.0	4.4
43380	8.0	22.1	78.7	82.3	11.3	0	4.0	3.6
43382	10.0	26.2	79.9	83.4	12.9	0	4.0	3.5
43384	12.0	30.2	104.8	108.4	14.4	0	4.0	3.6
43386	14.0	42.2	108.2	111.6	16.1	0	4.0	3.4
43388	16.0	42.2	156.2	159.6	16.1	0	4.0	3.4
43399	18.0	48.2	134.0	137.0	19.9	0	4.0	3.0
43321	20.0	54.3	159.7	162.9	22.1	0	4.0	3.2
43322	22.0	60.3	161.3	164.1	22.6	0	4.0	2.8

### Type 4



Part Number	A Nominal Inlet Diameter	B Body Diameter O.D.	C Body Length	D Overall Length	E Offset To C/L	F Offset To C/L	G Inlet Length	H Outlet Length
44740	4.0	12.1	58.4	61.2	29.2	1.8	3.0	2.8
44750	5.0	14.1	63.6	67.5	31.8	2.6	4.0	3.9
44760	6.0	16.1	72.0	76.4	36.0	3.1	4.0	4.4
44780	8.0	22.1	78.7	82.3	39.3	0	4.0	3.6
44782	10.0	26.2	79.9	83.4	39.9	0	4.0	3.5
44784	12.0	30.2	104.8	108.4	52.4	0	4.0	3.6
44786	14.0	42.2	108.2	111.5	54.1	0	4.0	3.3

