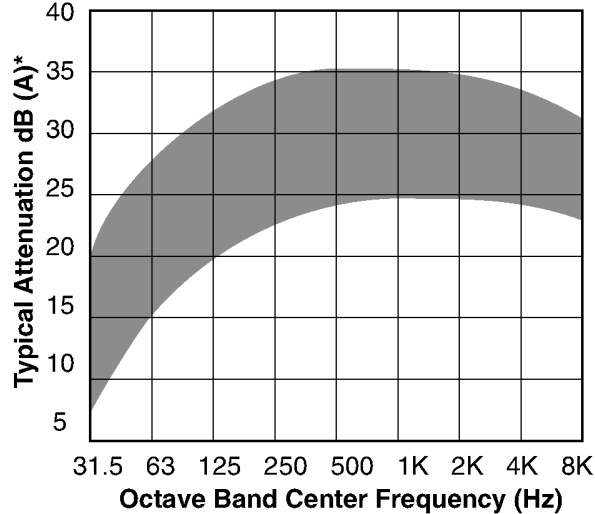


# TAYLOR® POWER SYSTEMS

## Critical 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.

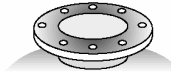
### Construction:

**Aluminized Steel:** 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:** 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.

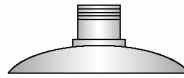
**Silicone Aluminum Paint:** Silencers through 26" O.D. are given a coat of high heat resistant silicone aluminum paint.

**Primer/Silicone Aluminum Paint:** 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.



### "F" Mounting Flange:

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



### "P" Male Pipe Threads:

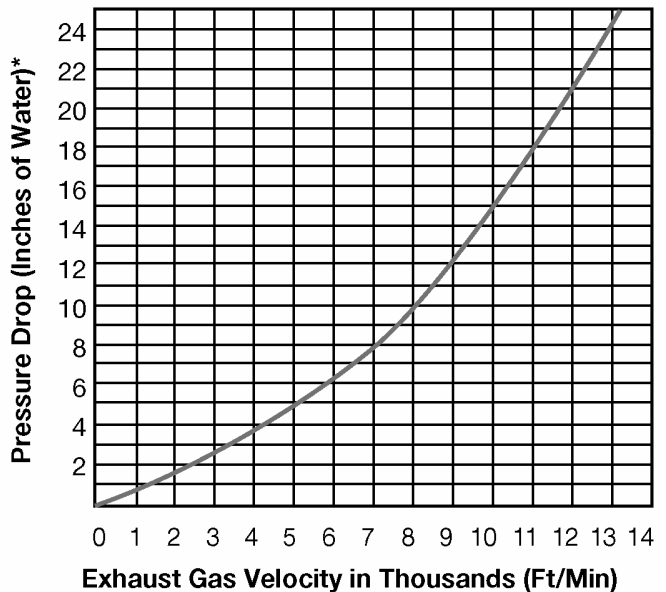
NPT ends offered in sizes 3/4" through 4".

Companion flanges available for 4" to 22".

### Construction Features:

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

### Pressure Drop



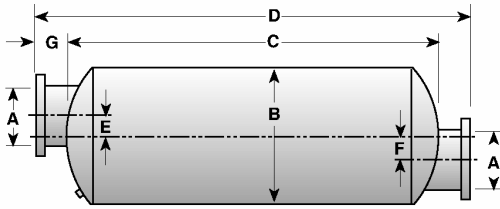
**Note:** When figuring pressure drop for side inlet or middle side inlet add 3" H<sub>2</sub>O to back pressure shown on above curve.

\*Estimated

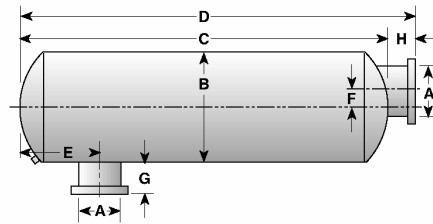
### Sample Specification:

The silencer is to be a Critical 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.

Type 1



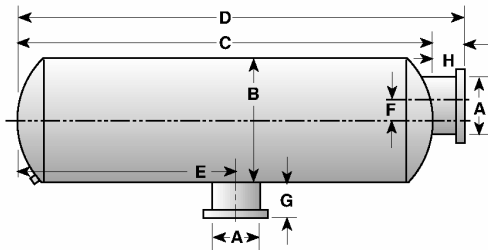
Type 3



| Part Number | A<br>Nominal Inlet Diameter | B<br>Body Dia. O.D. | C<br>Body Length | D<br>Overall Length | E<br>Offset To C/L | F<br>Offset To C/L | G<br>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               |

| Part Number | A<br>Nominal Inlet Diameter | B<br>Body Dia. O.D. | C<br>Body Length | D<br>Overall Length | E<br>Offset To C/L | F<br>Offset To C/L | G<br>Inlet Length | H<br>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



\*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.**

| Part Number | A<br>Nominal Inlet Diameter | B<br>Body Diameter O.D. | C<br>Body Length | D<br>Overall Length | E<br>Offset To C/L | F<br>Offset To C/L | G<br>Inlet Length | H<br>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                |