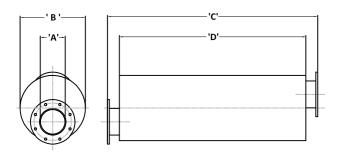


## HSDD & HSDD-SE Type: High Speed **Diffuser & Dissipation Exhaust Gas** Silencers. 30dB(A) Insertion Loss.

## **AXIAL INLET & AXIAL OUTLET VERSIONS**



Silencer Part Number	'A'	'B'	'C'	'D'	Wt. (kg)
HSDD 038 (F&S)	38.1	115.0	640.0	560.0	3.6
HSDD 050 (F&S)	50.8	140.0	850.0	760.0	7.0
HSDD 063 (F&S)	63.5	178.0	990.0	900.0	12.0
HSDD 075 (F&S)	76.2	203.0	1150.0	1000.0	14.8
HSDD 090 (F&S)	88.9	260.0	1150.0	1000.0	30.0
HSDD 100 (F&S)	101.6	280.0	1350.0	1200.0	40.0
HSDD 125 (F)	127.0	360.0	1350.0	1200.0	50.0
HSDD 150 (F)	152.4	410.0	1550.0	1400.0	55.0
HSDD 175 (F)	177.8	460.0	1750.0	1600.0	82.0
HSDD 200 (F)	203.2	510.0	1950.0	1800.0	110.0
HSDD 225 ( F )	228.6	560.0	2150.0	2000.0	160.0
HSDD 250 (F)	254.0	610.0	2350.0	2200.0	280.0
HSDD 300 (F)	304.8	710.0	3000.0	2800.0	400.0
HSDD 350 (F)	355.6	820.0	3200.0	3000.0	550.0

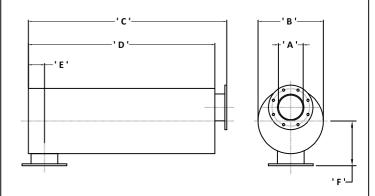
- 'S' denotes B.S.P. Screwed versions are available as standard.
  'F' denotes Flanged Versions are available in BS 10 Table 'D' drillings as standard.
  Plain spigot or slotted spigot connections can be supplied if required.
  All the dimensions and weights given are approximate and may vary under manufacturing
- Columnions.

  All dimensions and weights given are not binding and may change without prior warning.

  Larger sizes are available upon request as well as bespoke design and manufacture.

  All units can be installed vertically or horizontally without detriment acoustically.

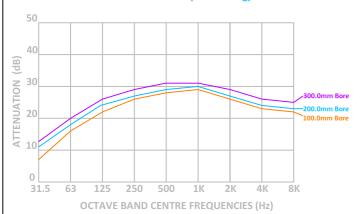
## **RADIAL INLET & AXIAL OUTLET VERSIONS**



						1	
Silencer Part Number	'A'	'B'	'C'	'D'	'E'	'F'	Wt. (kg)
HSDD-SE 038 (F&S)	38.1	115.0	600.0	560.0	50.0	100.0	3.8
HSDD-SE 050 (F&S)	50.8	140.0	905.0	760.0	50.0	115.0	7.4
HSDD-SE 063 (F&S)	63.5	178.0	945.0	900.0	60.0	135.0	12.0
HSDD 075-SE (F&S)	76.2	203.0	1075.0	1000.0	65.0	175.0	14.8
HSDD 090-SE (F&S)	88.9	260.0	1075.0	1000.0	70.0	205.0	30.0
HSDD 100-SE (F&S)	101.6	280.0	1350.0	1200.0	75.0	215.0	44.0
HSDD 125-SE ( F )	127.0	360.0	1275.0	1200.0	90.0	255.0	55.0
HSDD 150-SE ( F )	152.4	410.0	1475.0	1400.0	100.0	280.0	60.0
HSDD 175-SE ( F )	177.8	460.0	1675.0	1600.0	115.0	305.0	89.0
HSDD 200-SE ( F )	203.2	510.0	1875.0	1800.0	127.0	330.0	117.0
HSDD 225-SE ( F )	228.6	560.0	2075.0	2000.0	150.0	355.0	168.0
HSDD 250-SE ( F )	254.0	610.0	2275.0	2200.0	165.0	380.0	290.0
HSDD 300-SE ( F )	304.8	710.0	2900.0	2800.0	190.0	455.0	410.0
HSDD 350-SE ( F )	355.6	820.0	3100.0	3000.0	215.0	510.0	560.0

All units are manufactured from mild carbon steel to BS-EN 10025 S275JR or equal. The standard external protection is one coat heat resisting aluminium paint suitable for elevated temperatures. Alternative finishes including such processes as Aluminium/Zinc metal spray and galvanizing are available at extra cost, if required. Alternative materials of construction are available if required. These include stainless ste Types 321, 316, 3161, 304 304 La swell as Corten A & B, Monel & Brass All units are supplied with drain points if required. guired. These include stainless steel

## **TYPICAL INSERTION LOSS FIGURES FOR HSDD & HSDD-SE TYPE UNITS (Not Binding)**



The HSDD & HSDD-SE (Side-Entry) type, exhaust gas silencer is a small envelope design, simple energy converter utilizing both the modified expansion and reflection qualities of the modified resonator designs with the added ability use the exhaust gas energy to excite individual fibres of differing lengths in the acoustic infill to create friction resulting in heat energy which is then dissipated to the silencer casing or into the exhaust gas stream The design inadvertently also uses the Helmholtz principle to increase the overall insertion loss to approximately 30dB(A) to give a silencer with a lower pressure drop and higher capabilities at the middle frequencies of the octave band width than the HSEA & HSEA-SE range.

Primarily designed for use on high speed engines running up to 4,800 rpm the units are ideal for pump sets, lighting towers and similar applications. It also has uses within the military, commercial vehicle, and off road vehicles all terrain industries. The unit is ideal as as stock type silencer for many varied installations. Due to the the overall effect on the centre frequencies of the octave bandwidth, this design be used singularly or alternatively be close coupled or remotely mounted with a HSLS, HESLS or HXSLS series, dissipative silencer to reduce exhaust gas noise levels to very low acoustic levels for mobile packages with a smaller footprint than the standard ranges of silencers produced.

Consult PGS Engineering Staff for further details prior to order.