

ALUAFS, ISOAFS-ALU, SONOAFS-ALU, COMBIAFS

Pressure Loss Characteristics

TABLE-1 PRESSURE LOSS DIAGRAM

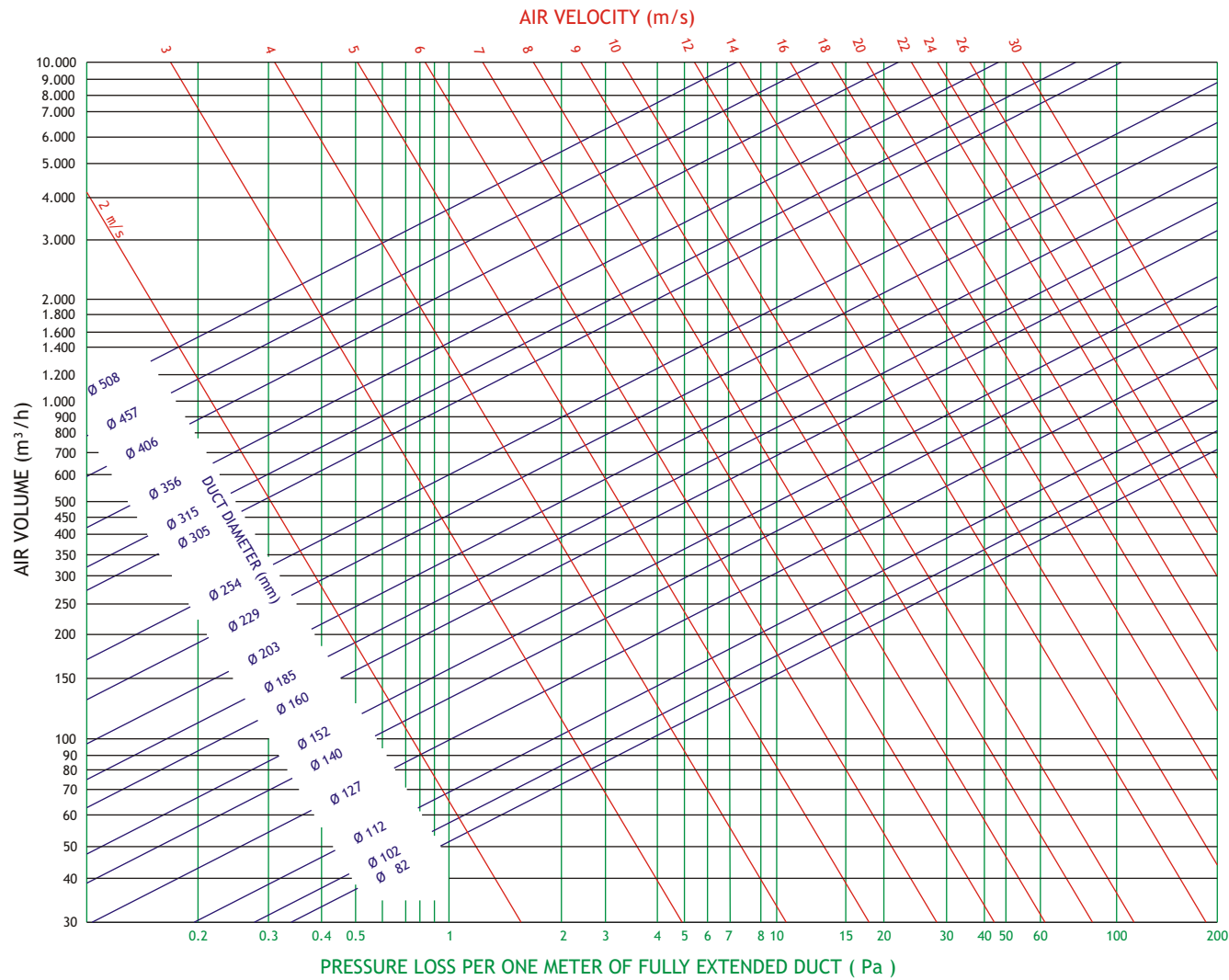
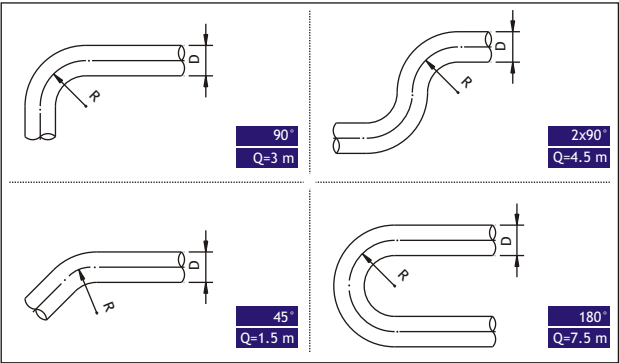


TABLE-2 BEND LOSS COEFFICIENTS



Temperature	-20°C	-0°C	+20°C	+40°C	+60°C	+80°C	+100°C
Correction Fac.	1.158	1.073	1.000	0.936	0.880	0.830	0.785

(R / D = 1)

EQUIVALENT LENGTH

$$Z = Q \times \frac{D}{300}$$

Z = Equavalent length, m
Q = Bend loss coefficient
D = Duct diameter, mm

EXAMPLE

Air Velocity = 5 m/s
Duct Diameter = 203 mm
Pressure Loss = ?
90° Bend = 1 piece
Duct Length = 4 m

Pressure Loss for 1 m Duct = 3 Pa(TABLE-1)
Bend Loss Coefficient = 3 (TABLE-2)
Equivalent Length = $3 \times \frac{203}{300} = 2.03 \text{ m}$
Pressure Loss = $(2.03 + 4) \text{ m} \times 3 \text{ Pa/m} = 18.09 \text{ Pa}$

POLYAFS, ISOAFS-POLY

Pressure Loss Characteristics

TABLE-1 PRESSURE LOSS DIAGRAM

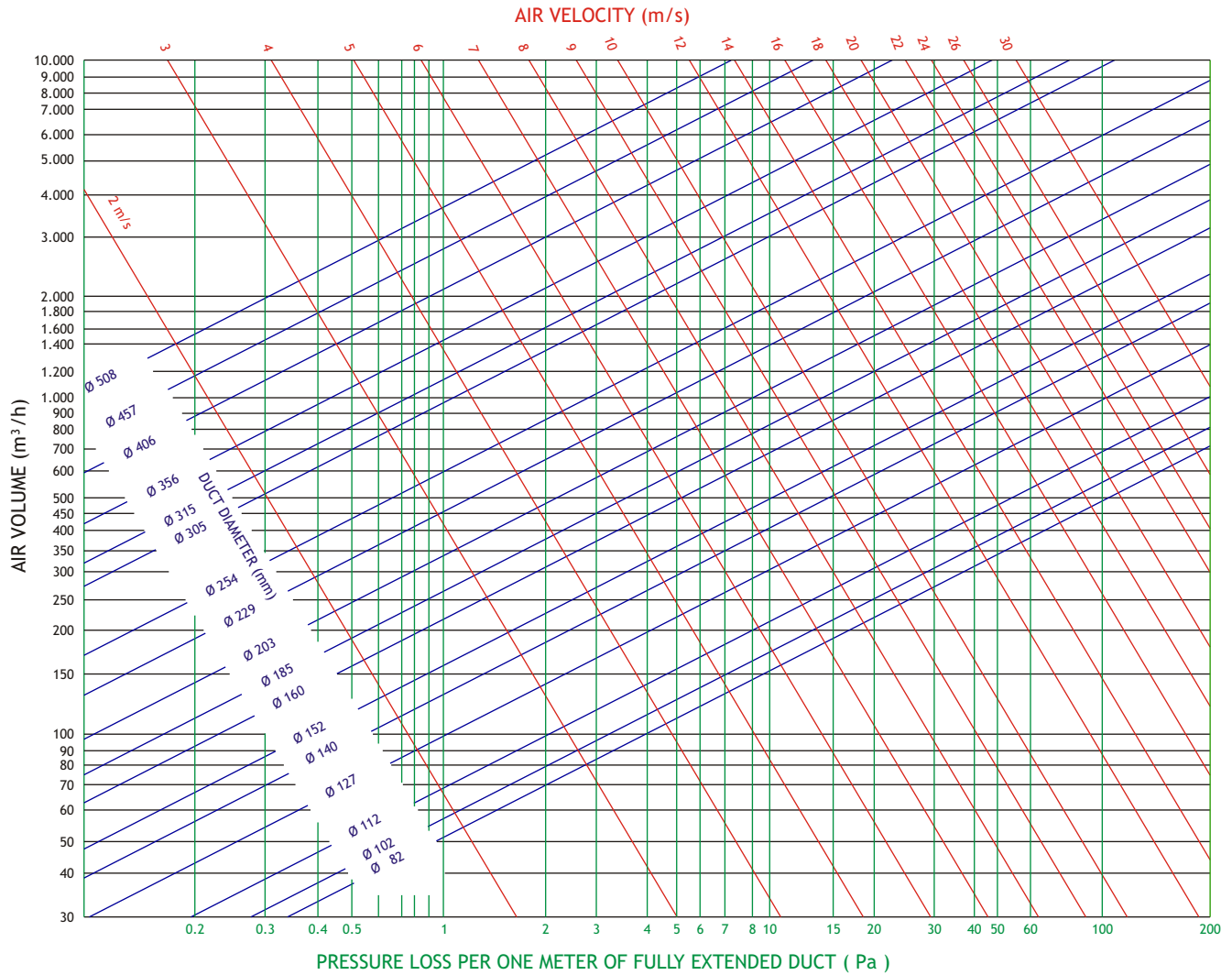
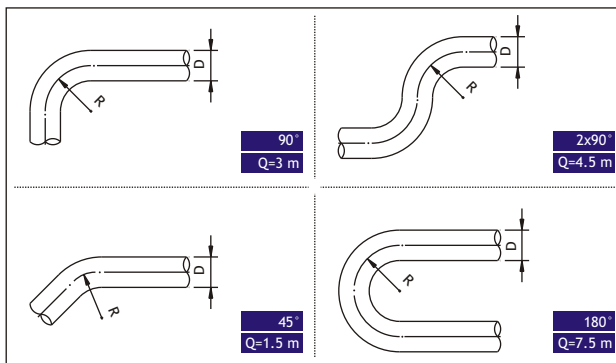


TABLE-2 BEND LOSS COEFFICIENTS



Temperature	-20°C	-0°C	+20°C	+40°C	+60°C	+80°C	+100°C
Correction Fac.	1.158	1.073	1.000	0.936	0.880	0.830	0.785

(R / D = 1)

EQUIVALENT LENGTH

$$Z = Q \times \frac{D}{300}$$

Z = Equavalent length, m
 Q = Bend loss coefficient
 D = Duct diameter, mm

EXAMPLE

Air Velocity = 5 m/s
 Duct Diameter = 203 mm
 Pressure Loss = ?
 90° Bend = 1 piece
 Duct Length = 4 m

Pressure Loss for 1 m Duct = 3.04 Pa (TABLE-1)

Bend Loss Coefficient = 3 (TABLE-2)

Equivalent Length = $3 \times \frac{203}{300} = 2.03$ m

Pressure Loss = (2.03 + 4) m x 3.04 Pa/m
 = 18.33 Pa

SEMI~~A~~FS, SEMI~~A~~FS-INOX

Pressure Loss Characteristics

TABLE-1 PRESSURE LOSS DIAGRAM

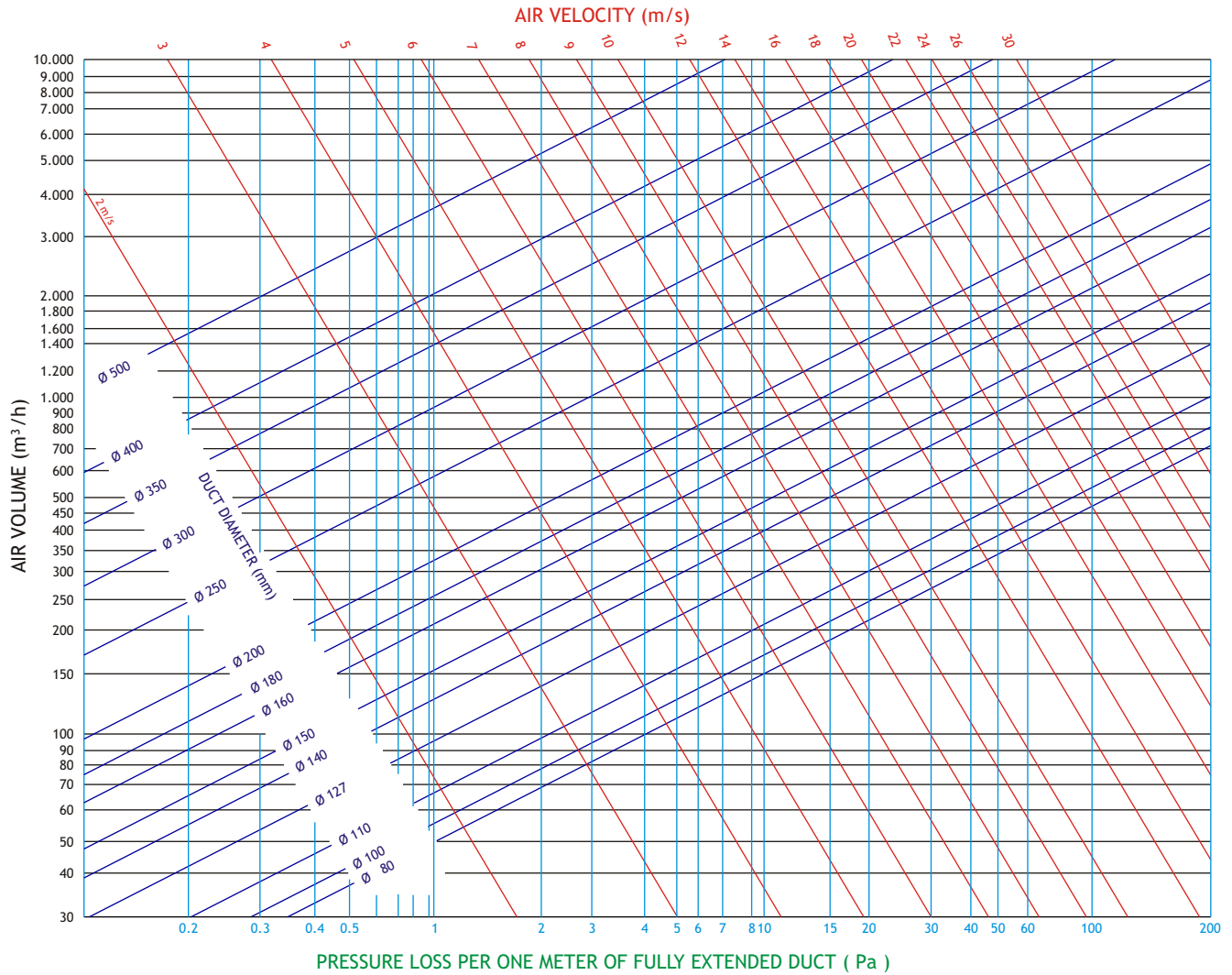
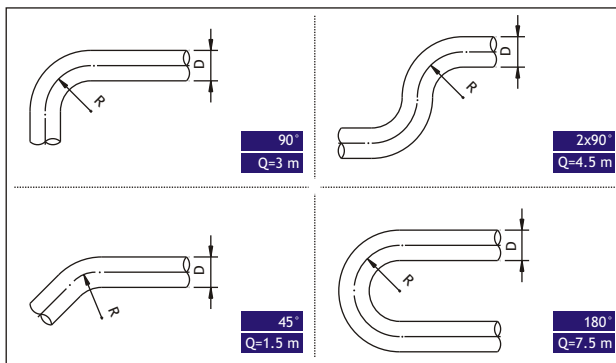


TABLE-2 BEND LOSS COEFFICIENTS



Temperature	-20°C	-0°C	+20°C	+40°C	+60°C	+80°C	+100°C
Correction Fac.	1.158	1.073	1.000	0.936	0.880	0.830	0.785

SEMI~~A~~FS (R/D=1)
SEMI~~A~~FS-INOX (R/D=5)

EQUIVALENT LENGTH

$$Z = Q \times \frac{D}{300}$$

Z = Equavalent length, m
 Q = Bend loss coefficient
 D = Duct diameter, mm

EXAMPLE

Air Velocity = 5 m/s
 Duct Diameter = 203 mm
 Pressure Loss = ?

90° Bend = 1 piece
 Duct Length = 4 m

Pressure Loss for 1 m Duct = 3.12Pa (TABLE-1)

Bend Loss Coefficient = 3 (TABLE-2)

Equivalent Length = $3 \times \frac{200}{300} = 2.0$ m

Pressure Loss = $(2.0 + 4) \text{ m} \times 3.12 \text{ Pa/m}$
 = 18.72 Pa

PVCAFS, ISOAFS-PVC

Pressure Loss Characteristics

TABLE-1 PRESSURE LOSS DIAGRAM

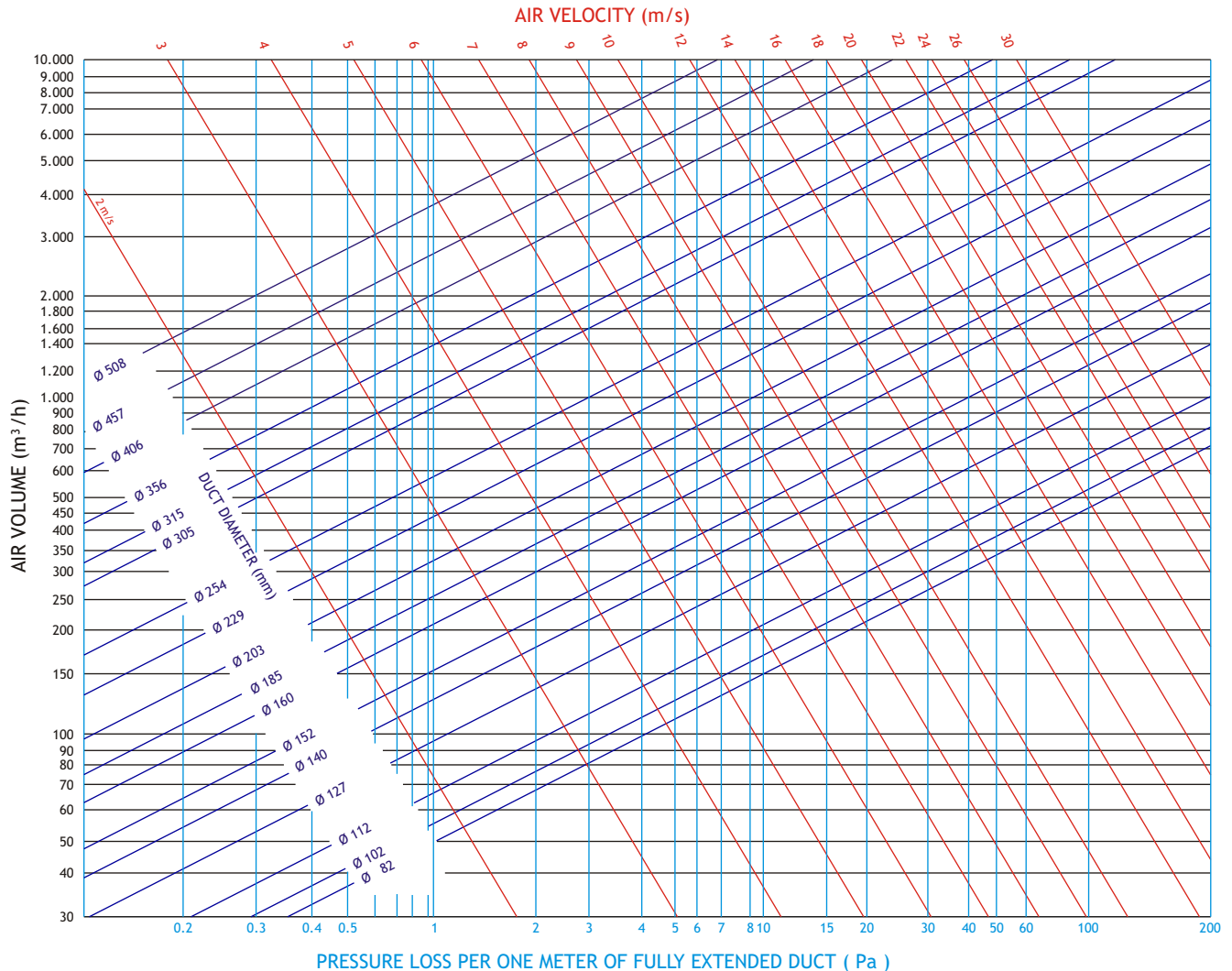
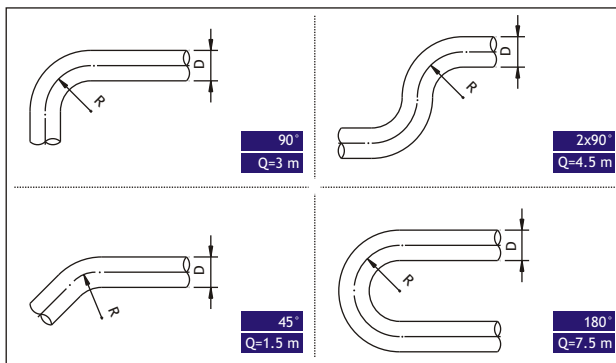


TABLE-2 BEND LOSS COEFFICIENTS



Temperature	-20°C	-0°C	+20°C	+40°C	+60°C	+80°C
Correction Fac.	1.158	1.073	1.000	0.936	0.880	0.830

(R / D = 1)

EQUIVALENT LENGTH

$$Z = Q \times \frac{D}{300}$$

Z = Equavalent length, m
 Q = Bend loss coefficient
 D = Duct diameter, mm

EXAMPLE

Air Velocity = 5 m/s
 Duct Diameter = 203 mm
 Pressure Loss = ?
 90° Bend = 1 piece
 Duct Length = 4 m

Pressure Loss for 1 m Duct = 3.22Pa (TABLE-1)

Bend Loss Coefficient = 3 (TABLE-2)

Equivalent Length = $3 \times \frac{203}{300} = 2.03$ m

Pressure Loss = (2.03 + 4)m x 3.22 Pa/m
 = 19.42 Pa

SONOAFS-ALU & SONOAFS-ALU F

Sound Attenuation Characteristics

TABLE - 1

L=1.000 mm

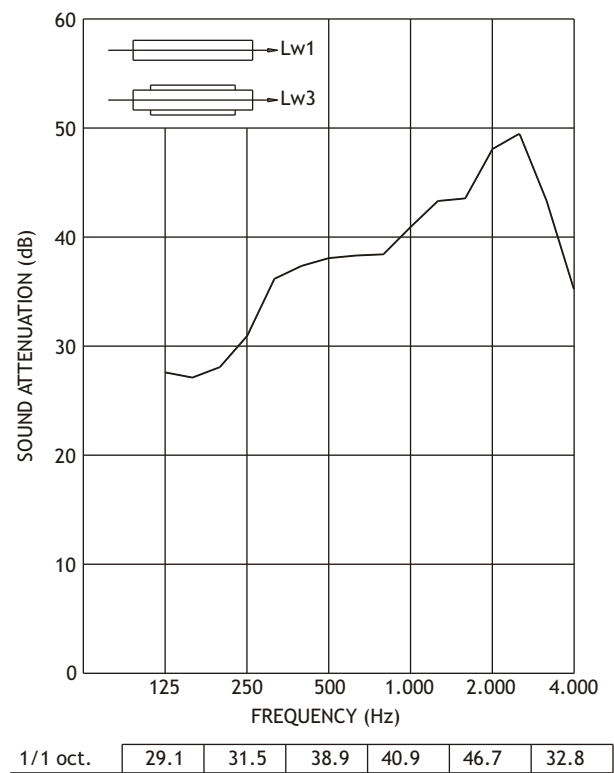
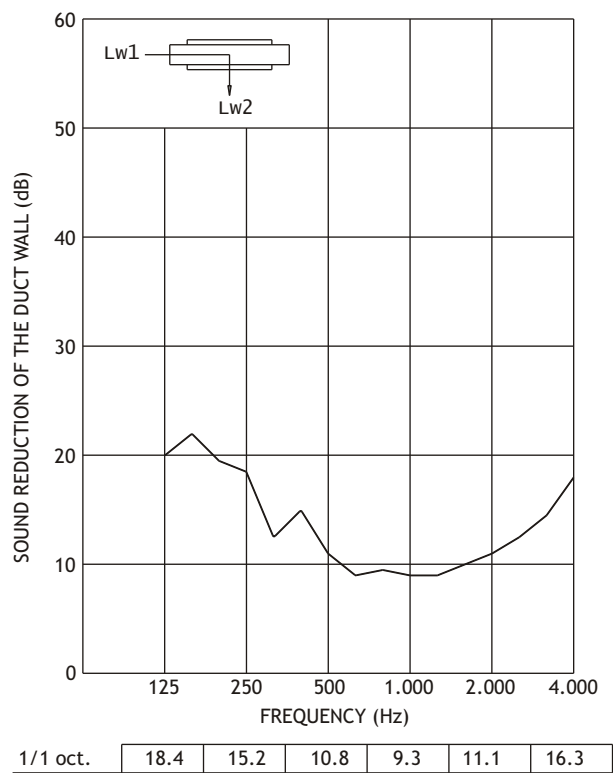
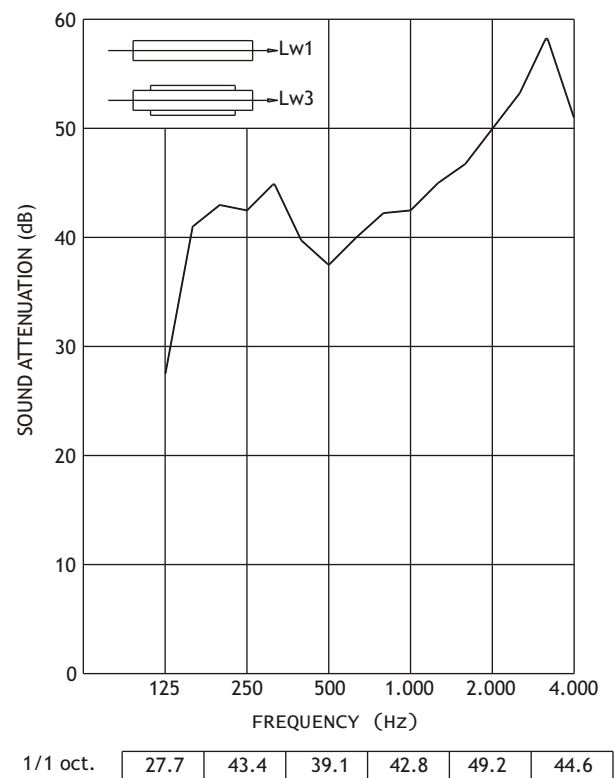
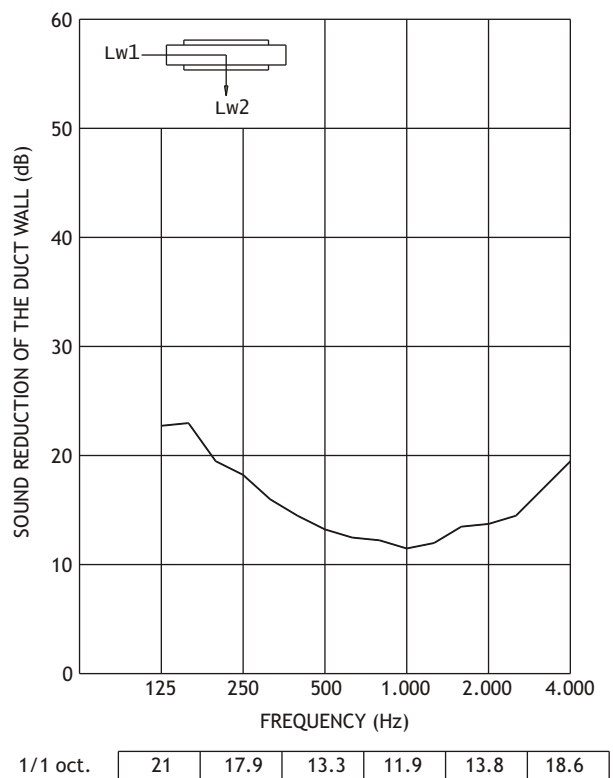


TABLE - 2

L=2.000 mm

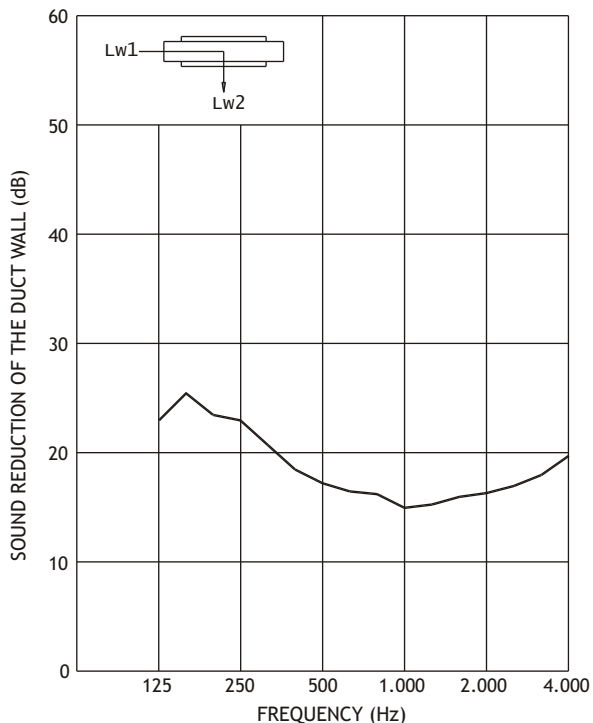


SONOAFS-ALU S, AFS SILENCER, AFS SILENCER HT

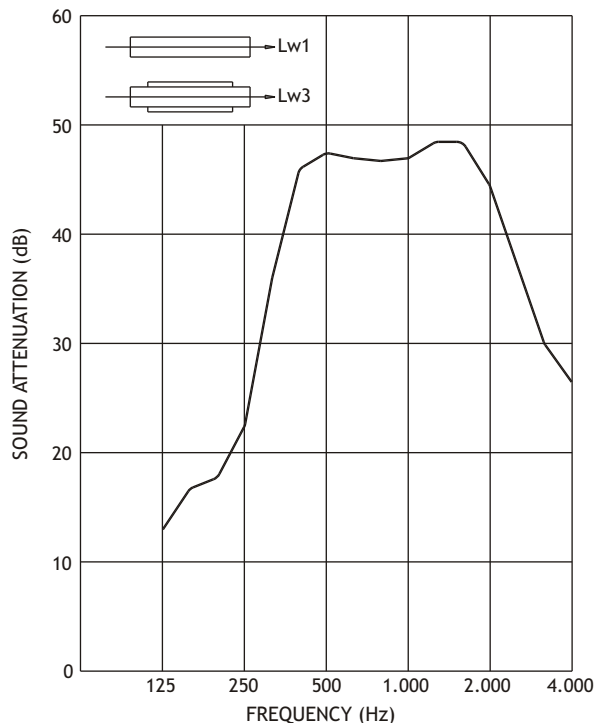
Sound Attenuation Characteristics

TABLE - 1

L=1.000 mm



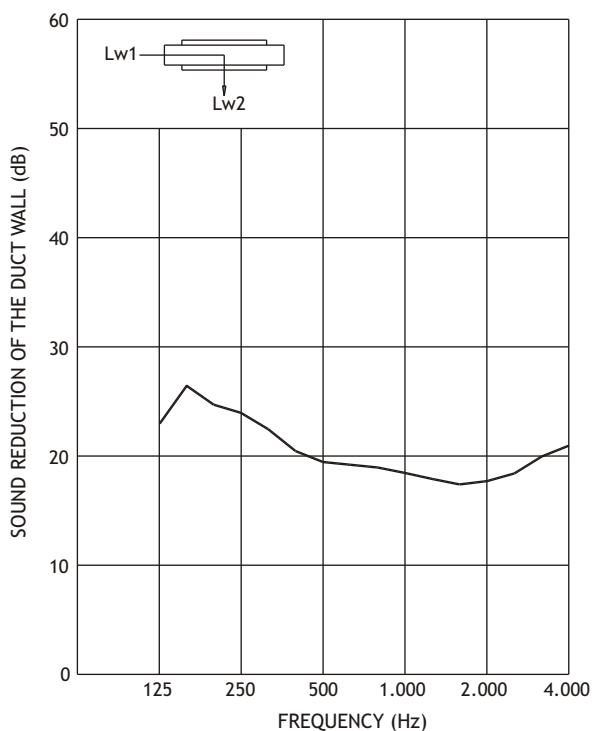
1/1 oct.	20.2	21.8	16.7	14.8	15.6	18.7
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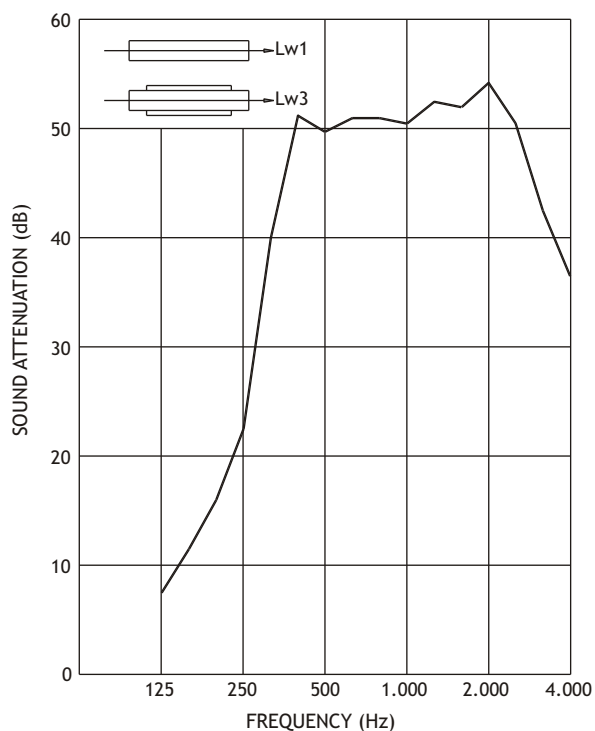
1/1 oct.	11.7	20.6	45.4	46.2	40.8	28.1
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TABLE - 2

L=2.000 mm



1/1 oct.	20.5	23.1	19.2	17.9	17.3	21.3
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1/1 oct.	8.5	19.6	49.9	50.8	51.5	38.0
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