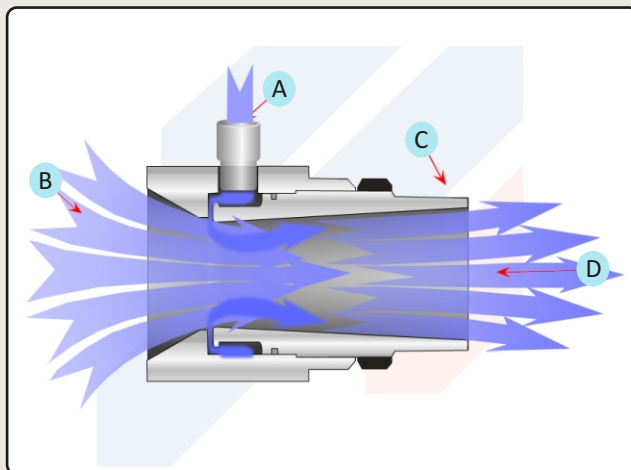


ADJUSTABLE AIR AMPLIFIER - HOW IT WORKS:

A large volume of surrounding air is induced into the Amplifier at point (A) by the action of a small amount of compressed air which enters the annular chamber at point (B) that is then throttled through a small ring Nozzle at high velocity and into the inside of the Amplifier over a coanda profile. The compressed air stream clings to the coanda profile as it enters the inside walls of the Amplifier and thereby creating a vacuum that induces the outside air converting the pressure into amplified airflow. The amplified airflow leaves at the exit at point (C). Airflow is further amplified downstream at point (D) by entraining additional air from the surroundings at the exit.



ADJUSTABLE AIR AMPLIFIER SPECIFICATIONS:

Normally set to a .002" (.05mm) gap, if greater air force is required, the gap is adjustable.

ADJUSTABLE AIR AMPLIFIER RATIOS (APPROX.)

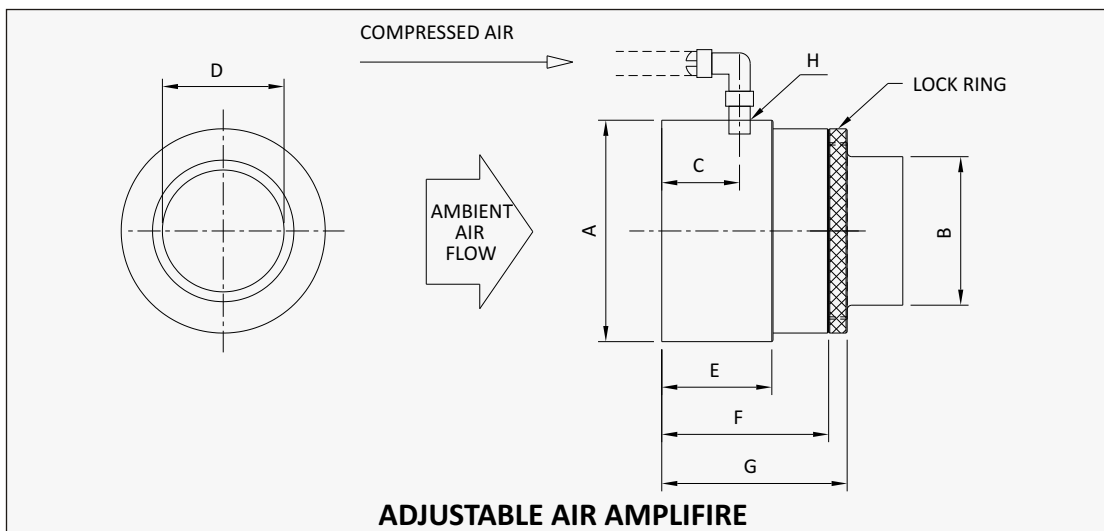
Model 40001: 15:1

Model 40002: 16:1

Model 40003: 17:1

Model	OUTSIDE DIAMETER OF OUTLET	A	B	C	D	E	F	G	H* NPT
40001	1 1/4"	2.0	1.25	1.0	.98	1.38	1.88	2.88	1/4"
	19mm	50.8	31.8	25.4	24.9	35	47.8	73.2	
40002	2"	3.0	2.0	1.06	1.64	1.5	2.25	3.25	3/8"
	51mm	76.2	50.8	26.9	41.7	38	57.2	82.6	
40003	4"	5.5	4.0	1.5	3.02	2.6	3.5	5.0	1/2"
	101mm	140	102	38.1	76.7	66	89	127	

*BSP Threads or Adaptors can be supplied depending on country location.

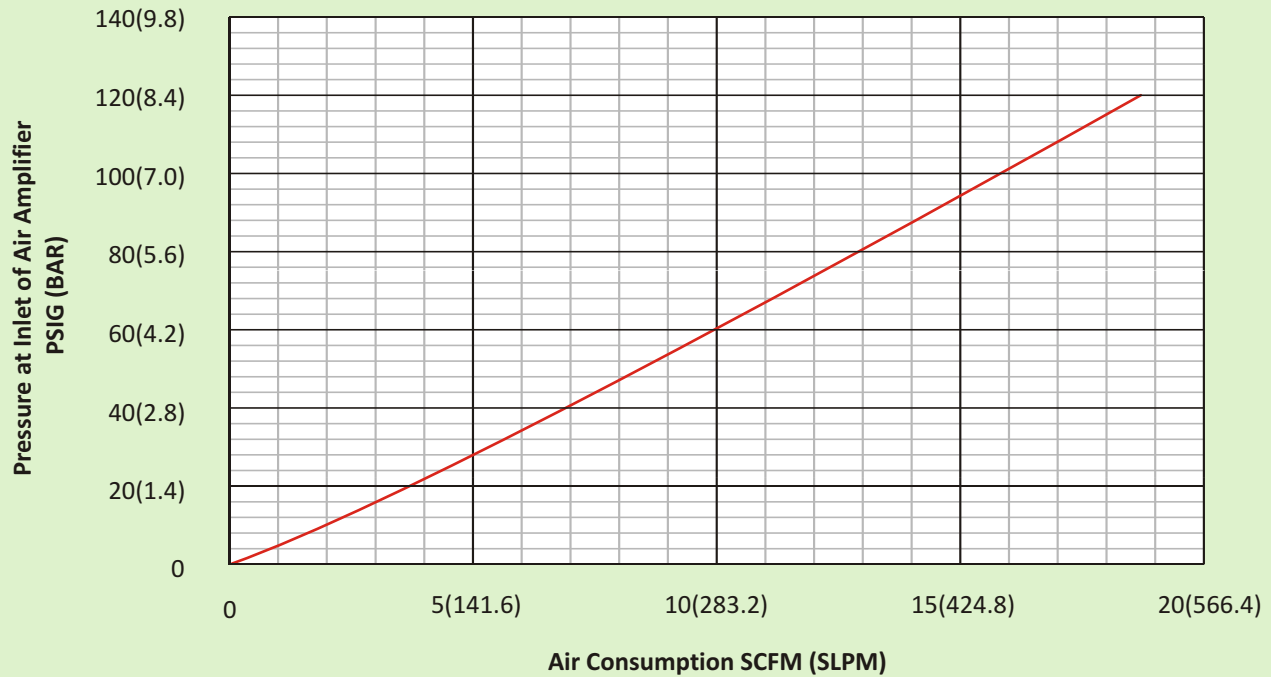


ADJUSTABLE AIR AMPLIFIER

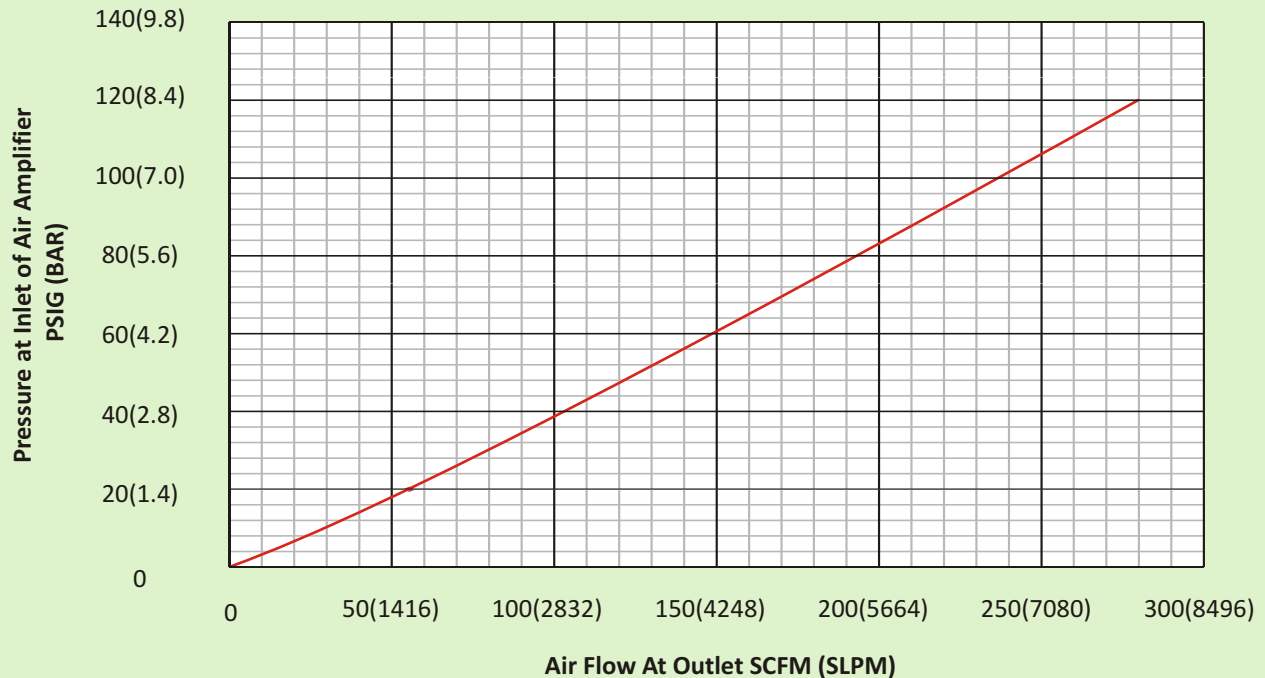
40001 & 40001S

AMPLIFICATION RATIO = 15:1 (SEE ADDENDUM - I)

Pressure vs. Air Consumption for Model 40001 & 40001S Adjustable Air Amplifier

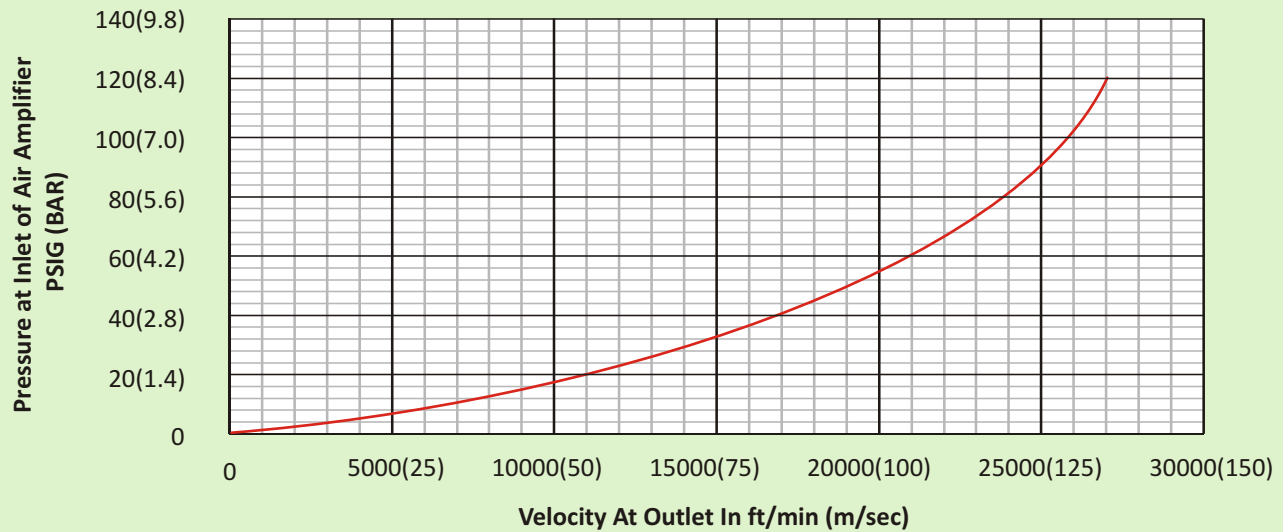


Pressure vs. Air Flow At Outlet for Model 40001 & 40001S Adjustable Air Amplifier

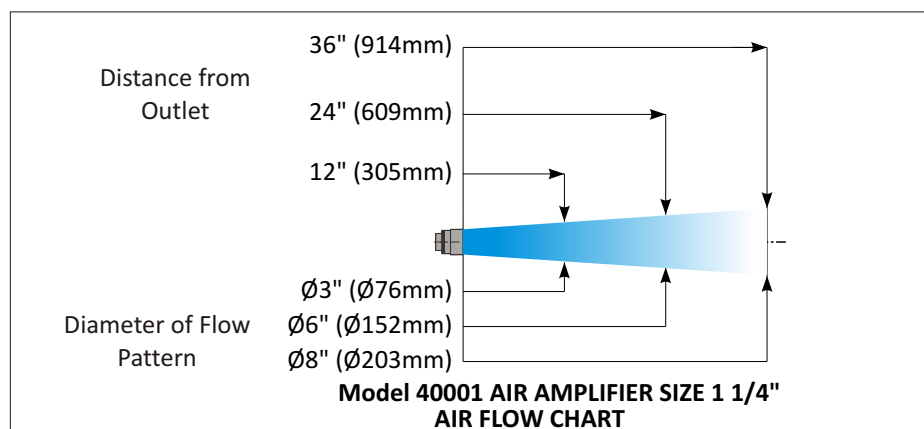
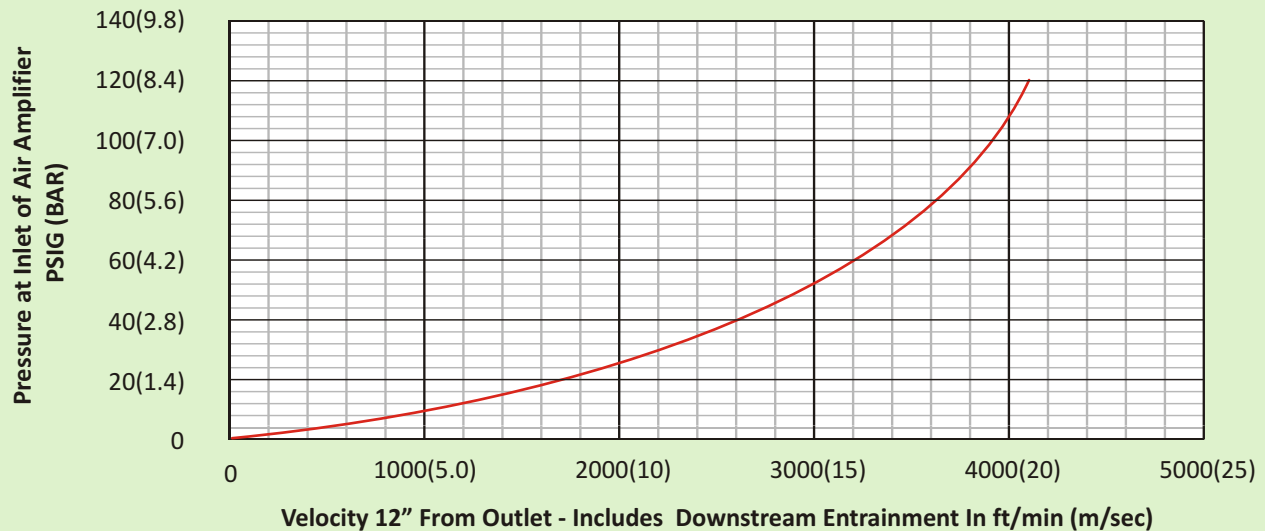


40001 & 40001S

Pressure vs. Velocity At Outlet for Model 40001 & 40001S Adjustable Air Amplifier



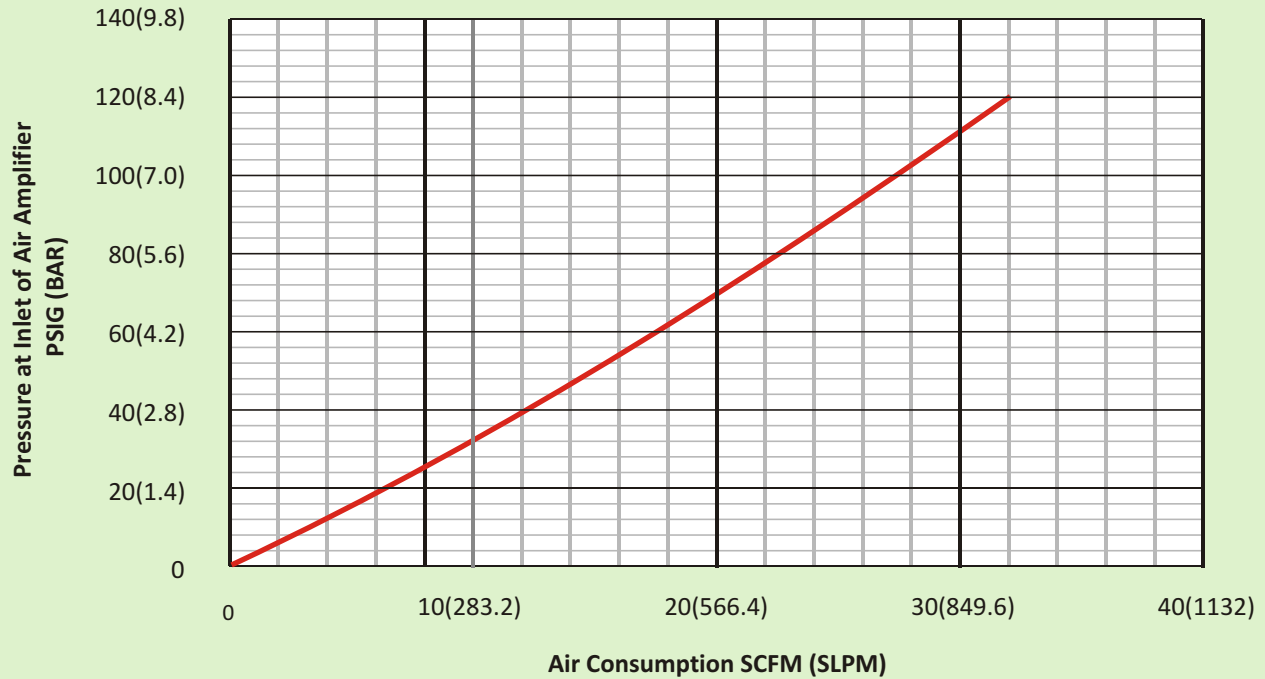
Pressure vs. Velocity 12" From Outlet for Model 40001 & 40001S Adjustable Air Amplifier



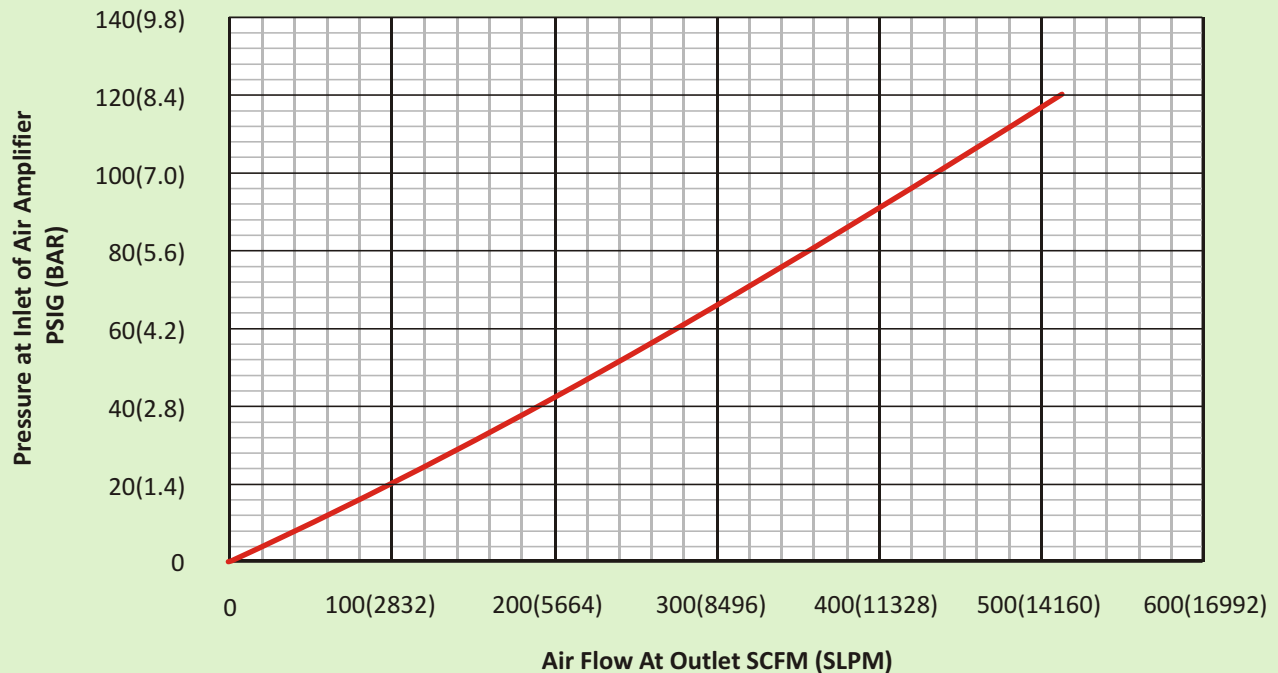
40002 & 40002S

AMPLIFICATION RATIO = 16:1 (SEE ADDENDUM - I)

Pressure vs. Air Consumption for Model 40002 & 40002S Adjustable Air Amplifier

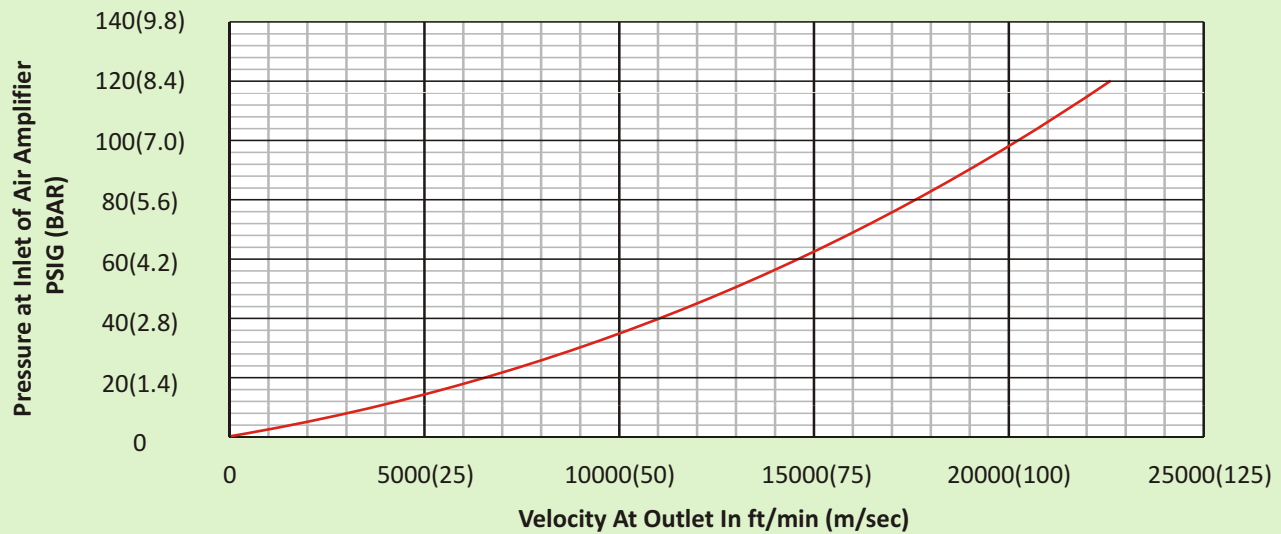


Pressure vs. Air Flow At Outlet for Model 40002 & 40002S Adjustable Air Amplifier

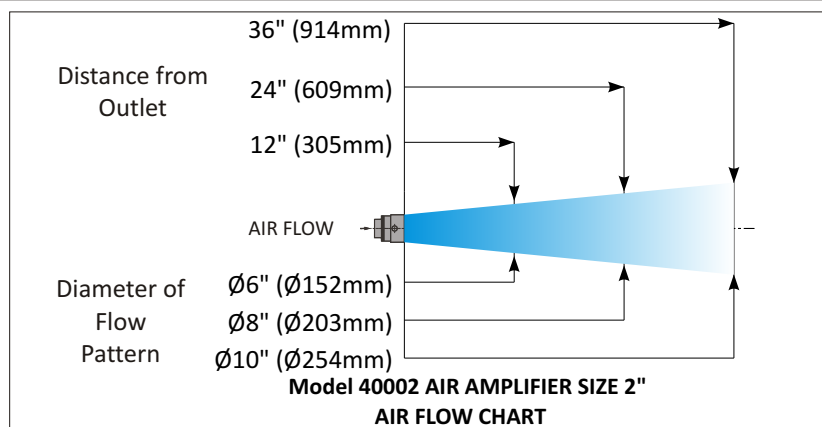
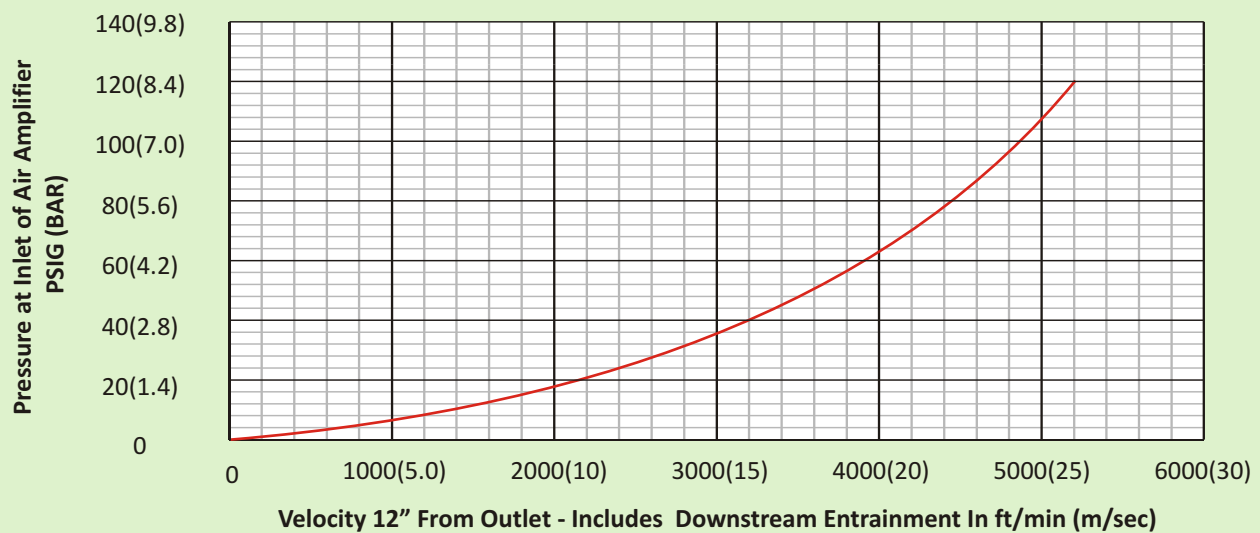


40002 & 40002S

Pressure vs. Velocity At Outlet for Model 40002 & 40002S Adjustable Air Amplifier



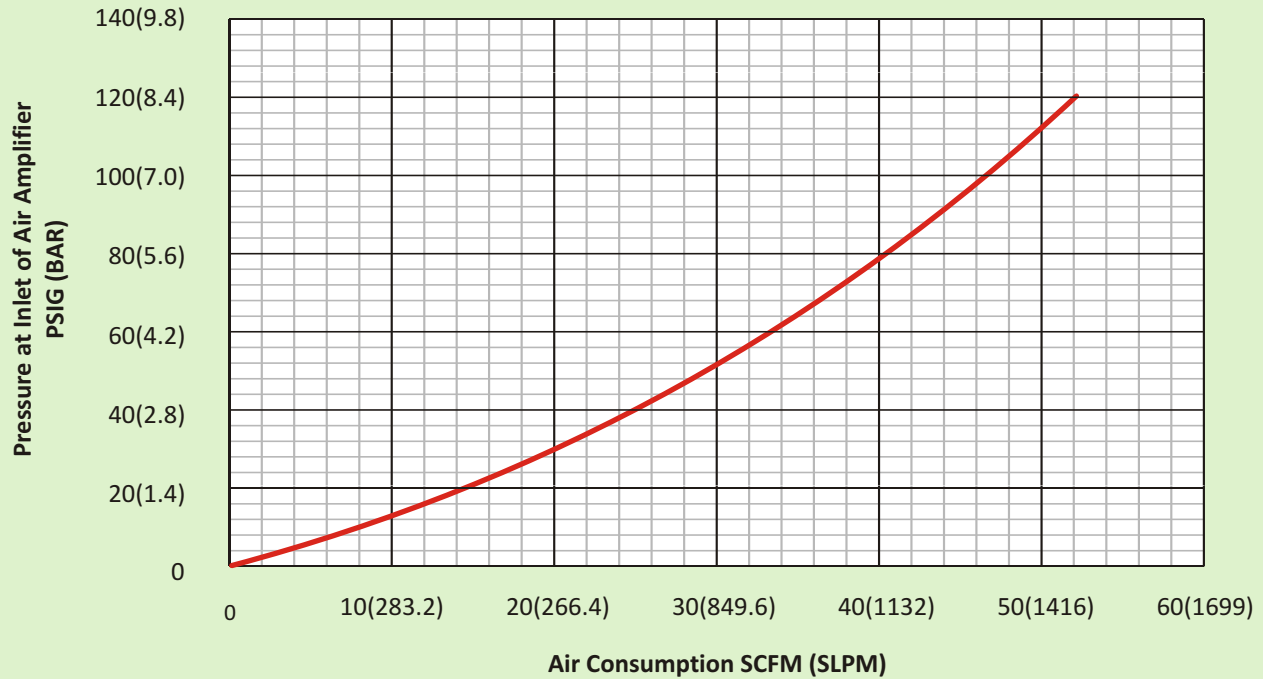
Pressure vs. Velocity 12" From Outlet for Model 40002 & 40002S Adjustable Air Amplifier



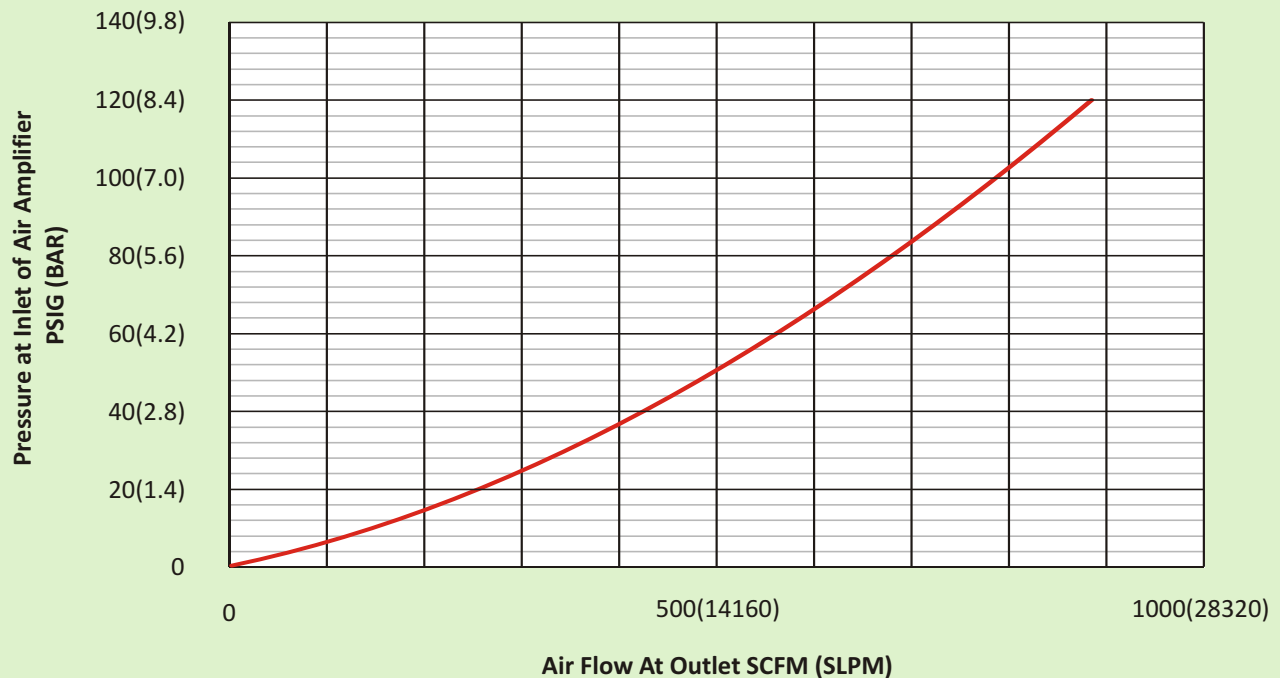
40003 & 40003S

AMPLIFICATION RATIO = 16:1 (SEE ADDENDUM - I)

Pressure vs. Air Consumption for Model 40003 & 40003S Adjustable Air Amplifier

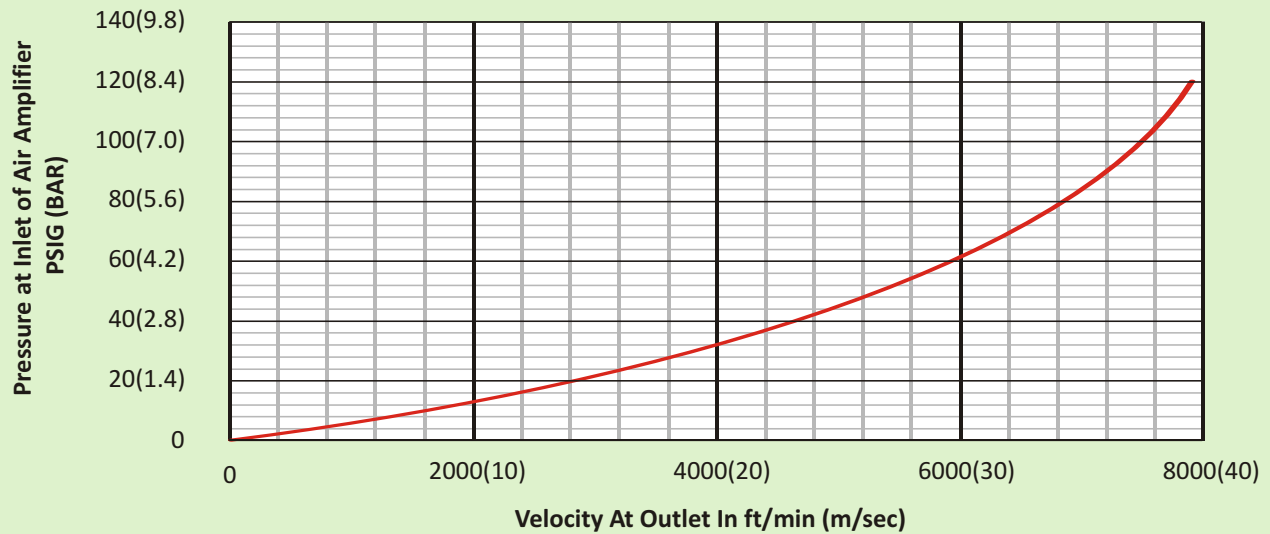


Pressure vs. Air Flow At Outlet for Model 40003 & 40003S Adjustable Air Amplifier

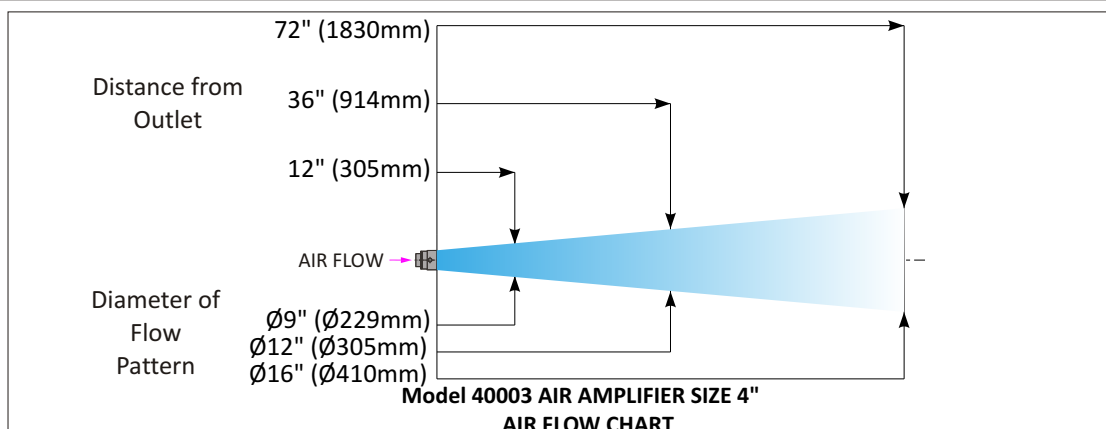
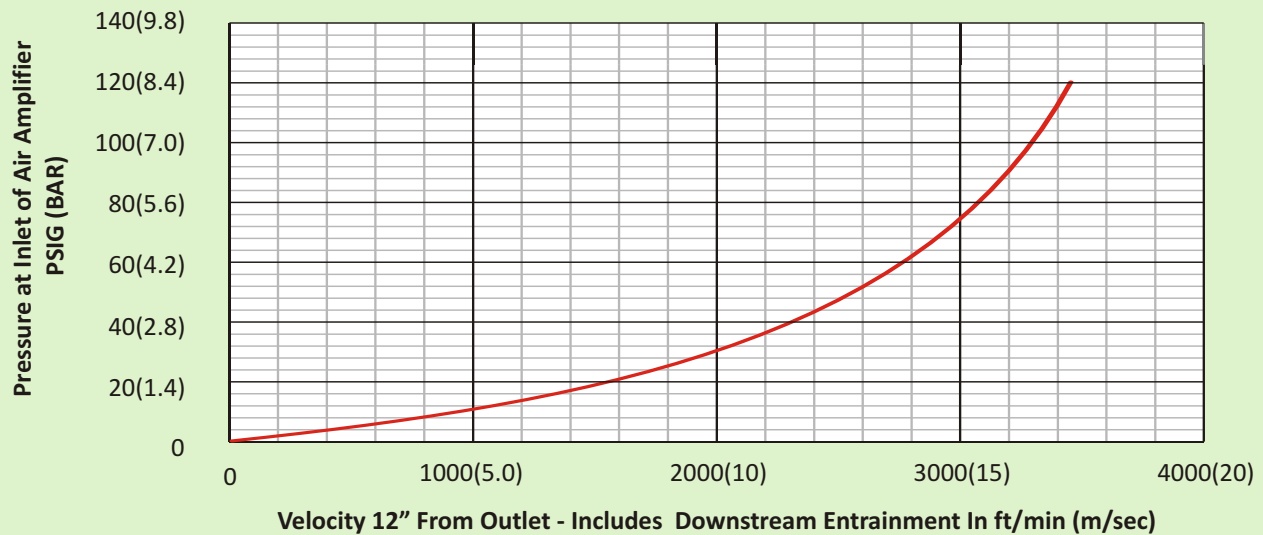


40003 & 40003S

Pressure vs. Velocity At Outlet for Model 40003 & 40003S Adjustable Air Amplifier



Pressure vs. Velocity 12" From Outlet for Model 40003 & 40003S Adjustable Air Amplifier



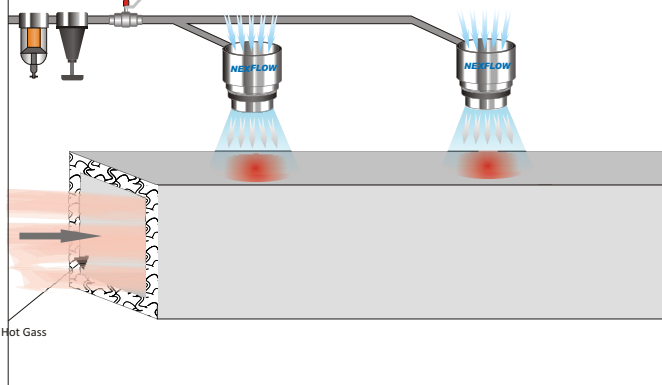
ADJUSTABLE AIR AMPLIFIERS - ALUMINUM

PART NO.	DESCRIPTION
40001	1-1/4" Adjustable Aluminum Air Amplifier
40002	2" Adjustable Aluminum Air Amplifier
40003	4" Adjustable Aluminum Air Amplifier
41001	1-1/4" Adjustable Aluminum Amplifier plus Filter with Auto Drain
41002	2" Adjustable Aluminum Amplifier plus Filter with Auto Drain
41003	4" Adjustable Aluminum Amplifier plus Filter with Auto drain
42001	1-1/4" Adj. Aluminum Amplifier plus Filter with Auto Drain plus Regulator with Gauge
42002	2" Adj. Aluminum Amplifier plus Filter with Auto Drain plus Regulator with Gauge
42003	4" Adj. Aluminum Amplifier plus Filter with Auto Drain plus Regulator with Gauge

ADJUSTABLE AIR AMPLIFIERS - STAINLESS STEEL

PART NO.	DESCRIPTION
40001S	1-1/4" Adjustable Stainless Steel Air Amplifier
40002S	2" Adjustable Stainless Steel Air Amplifier
40003S	4" Adjustable Stainless Steel Air Amplifier
41001S	1-1/4" Adjustable Stainless Steel Amplifier plus Filter with Auto Drain
41002S	2" Adjustable Stainless Steel Amplifier plus Filter with Auto Drain
41003S	4" Adjustable Stainless Steel Amplifier plus Filter with Auto Drain
42001S	1-1/4" Adjustable Stainless Steel Amplifier plus Filter with Auto Drain plus Regulator with Gauge
42002S	2" Adjustable Stainless Steel Amplifier plus Filter with Auto Drain plus Regulator with Gauge
42003S	4" Adjustable Aluminum Steel Amplifier plus Filter with Auto Drain plus Regulator with Gauge

Model 40002S Stainless Steel Adjustable Air Amplifiers cool hot spots on a duct where insulation has worn away until downtime can be scheduled.



Model 40001 Adjustable Air Amplifier vents dust from a machining operation.

