

Air Nozzles

SILVENT 780 LA



InTech

Stainless steel Laval nozzle

SILVENT 780 LA: a stainless steel adjustable Laval nozzle that generates an enormous blowing force. Compressed air is optimally used in this nozzle, which introduced a completely new blowing technology feature. The effect is achieved by surrounding a core of air traveling at supersonic speed with a protective sheath of air moving parallel to the central air jet. The core stream in the SILVENT 780 LA is generated by a Laval nozzle. The design of the nozzle converts all of the energy stored in the compressed air into kinetic energy without permitting the air jet to expand laterally after it has passed through the nozzle. The adjustable blowing angle allows a maximum of 30° adjustability around the center line. The time for installation and adjusting to the correct blowing angle is significantly reduced.

TECHNICAL DATA

Replace open pipe Ø (mm)	38
Blowing force (N)	270.0
Air consumption (Nm ³ /h)	1750
Sound level (dB(A))	119
Nozzle technology	Laval
Material (nozzle)	1.4305 (303)
Connection	G 1 1/2"
Weight (g)	3484
Max temp (°C)	400
Max op. pressure (MPa)	1.0

Noise reduction* **20 dB(A)** Energy savings* **927 Nm³/h**

*Benefits when replacing an open pipe

Feed pressure = 500 (kPa)

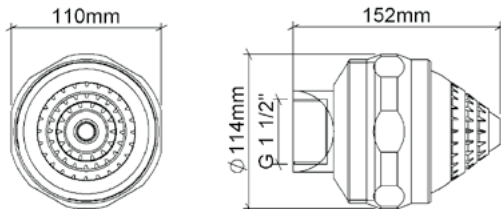
Material specification: EN 1.4305, Cu

Blowing properties at different pressures (kPa)

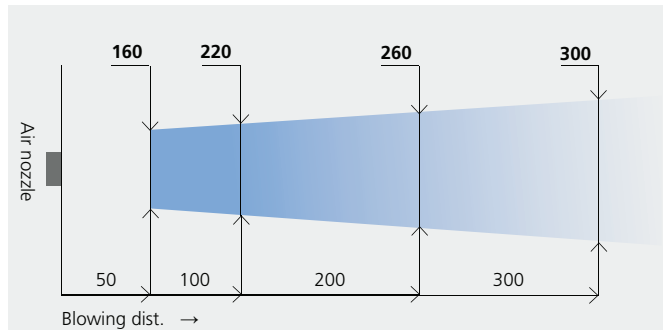
780 LA	200	400	600	800	1000
Blowing force (N)	130.0	230.0	320.0	420.0	520.0
Air consumption (Nm ³ /h)	950.0	1550.0	2150.0	2750.0	3350.0
Sound level (dB(A))	111.0	117.5	120.0	122.0	123.5

For further information, see page 194 or visit silvent.com.

Dimensions



Blowing coverage (mm)



ALTERNATIVES

780 L



SILVENT 780 L is a version of the 780 LA that does not allow adjustment of the blowing angle. Otherwise its performance is similar to the 780 LA. Size: (Ø85x102 (Ø3.35x4.02")).