

SILVENT 745 L



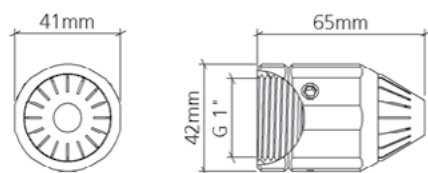
InTech

- Stainless steel Laval nozzle**

SILVENT 745 L is a stainless steel Laval nozzle that optimally utilizes the compressed air, generating very high and concentrated blowing force. The effect is achieved by surrounding a core of air traveling at supersonic speed with a protective film of air moving parallel to the core stream.

The core stream of air in the SILVENT 745 L is generated by a Laval nozzle. The shape of the nozzle, in combination with compact and aerodynamic design, converts all of the energy stored in the compressed air into directed concentrated kinetic energy. The surrounding sheath of air protects the core stream and allows it to be utilized at full effect for a longer distance.

The shape of the nozzle also reduces turbulence, thereby lowering the noise level. The nozzle is developed for use in industries where extremely high and concentrated impact force is required, for example in hot rolling steel mills and paper mills.

Dimensions**TECHNICAL DATA**

Replace open pipe Ø (mm)	25
Blowing force (N)	147.0
Air consumption (Nm³/h)	750
Sound level (dB(A))	118
Nozzle technology	Laval
Material (nozzle)	1.4305 (303)
Connection	G 1"
Weight (g)	312
Max temp (°C)	400
Max op. pressure (MPa)	1.0

Noise reduction **13 dB(A)** Energy savings **409 Nm³/h**

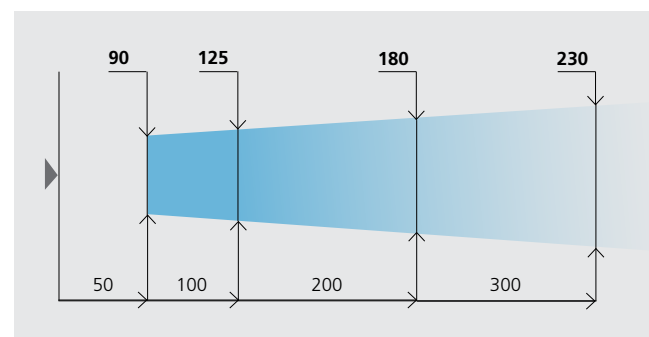
Feed pressure = 500 (kPa)

Material specification: EN 1.4305

Blowing properties at different pressures (kPa)

745 L	200	400	600	800	1000
Blowing force (N)	62.8	118.7	174.6	230.5	286.5
Air consumption (Nm³/h)	375.0	625.0	875.0	1125.0	1375.0
Sound level (dB(A))	107.0	114.0	122.0	125.0	126.0

*For further information, see page 166 or visit silvent.com.

Blowing coverage (mm)**ALTERNATIVES****745 L TA**

SILVENT 745 L TA is an adjustable version of the air nozzle 745 L. The adjustable blowing angle allows a maximum of 20° adjustability around the center line. Otherwise, similar performance and built-in dimensions as the 745 L.