# SILVENT 961

SILVENT 961: a small, angled flat nozzle that generates a broad but thin blowing pattern. Small mounting dimensions make it especially suitable for machine designs where space limitations are a problem. In many cases mounting is facilitated by the fact that the blowing angle is perpendicular to the plane of the threads. Can also be mounted in a manifold array, creating compact, quiet and efficient air knives. Made of zinc. The outlet orifices are protected against external forces by fins. SILVENT 961 fulfills the requirements the EU Machine Directive stipulates regarding airborne noise from machines and fully meets OSHA safety regulations. Patented.

| Noise reduction | **60%** | Air/cost savings | **33%** |
|---|---|---|---|

## SPECIFICATIONS

|  | SI units | US units |
|---|---|---|
| Blowing force | 3.3 N | 11.6 oz |
| Air consumption | 19.5 Nm³/h | 11.5 scfm |
| Sound level | 81.5 dB(A) |  |
| Blowing pattern | Flat |  |
| Connection | G 1/8" | 1/8"-27 NPT |
| Connection type | Male |  |
| Dimensions | 23.9x23.5x13.4 mm | 0.94x0.93x0.53 inch |
| Material | Zinc |  |
| Weight | 0.018 kg | 0.040 lbs |
| Max temp | 70 °C | 158 °F |
| Max operating pressure | 1.0 MPa | 143.0 psi |

### Benefits

|  |  |  |
|---|---|---|
| Replace open pipe | 4 mm | 5/32 inch |
| Noise reduction [dB(A)] | 13 dB(A) | 60 % |
| Air/cost savings [Nm³/h] | 10 Nm³/h | 33 scfm |
| OSHA | Yes |  |
| Meet the EU Machine directives | Yes |  |
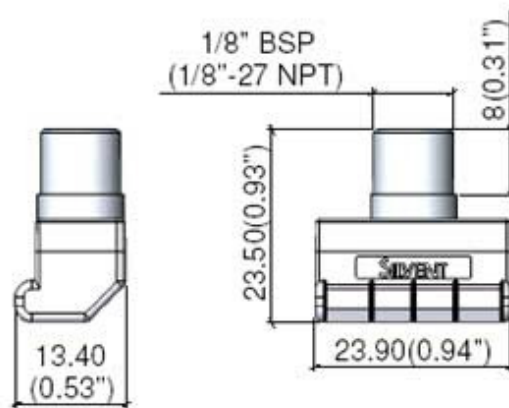
## Blowing properties at different pressures

| SI units (kPa) | 200 | 400 | 600 | 800 | 1000 |
|---|---|---|---|---|---|
| Blowing force (N) | 1.3 | 2.6 | 3.9 | 5.1 | 6.6 |
| Air consumption (Nm³/h) | 9.0 | 15.5 | 22.7 | 29.6 | 36.5 |
| Sound level (dB(A)) | 71.1 | 78.1 | 82.8 | 85.5 | 87.6 |

| US units (psi) | 40 | 60 | 80 | 100 | 120 |
|---|---|---|---|---|---|
| Blowing force (oz) | 6.4 | 9.7 | 12.7 | 15.7 | 19.4 |
| Air consumption (scfm) | 6.9 | 9.4 | 12.4 | 15.2 | 18.1 |
| Sound level (dB(A)) | 73.7 | 78.4 | 82.2 | 84.0 | 85.9 |

## Air cone patterns and velocity distribution

| SI units (mm) | 50 | 100 | 200 | 300 | 400 | 500 |
|---|---|---|---|---|---|---|
| Blowing pattern (width) | 63 | 82 | 120 | 160 | 200 | 240 |
| Blowing pattern (height) | 30 | 50 | 90 | 130 | 170 | 210 |
| Velocity (m/s) | 122 | 100 | 57 | 40 | 36 | 33 |

| US units (inch) | 2 | 4 | 8 | 12 | 16 | 20 |
|---|---|---|---|---|---|---|
| Blowing pattern (width) | 2.48 | 3.23 | 4.72 | 6.30 | 7.87 | 9.45 |
| Blowing pattern (height) | 1.18 | 1.97 | 3.54 | 5.12 | 6.69 | 8.27 |
| Velocity (ft/s) | 400 | 328 | 187 | 131 | 118 | 108 |

**Blowing pattern**