AVS Danmark ApS • Skelvej 18 • 2640 Hedehusene • +45 46 56 43 43 • www.avsdanmark.dk

AIR NOZZLES

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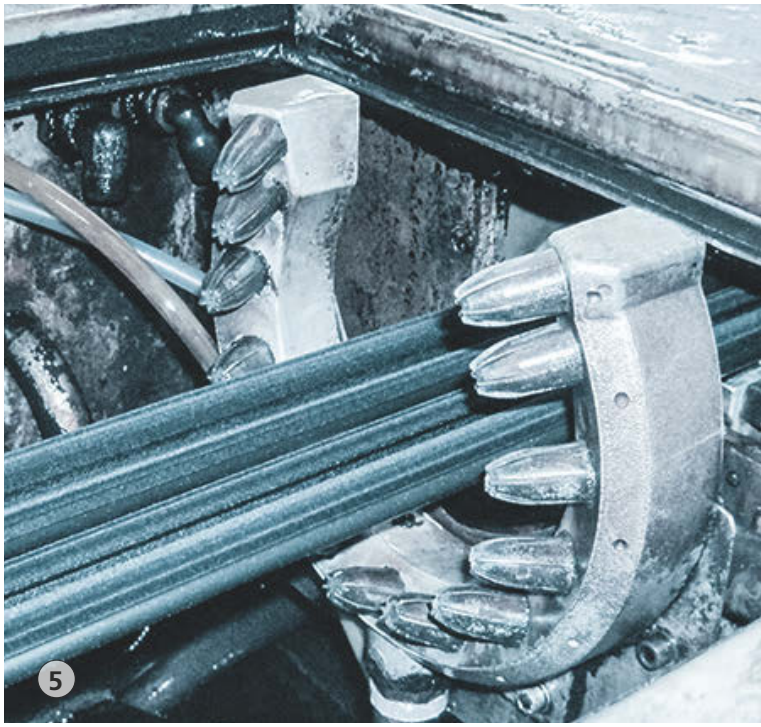
APPLICATIONS

- Cleaning
- Drying
- Cooling
- Ejecting
- Sorting

Open pipe *a common but ineffective installation.*

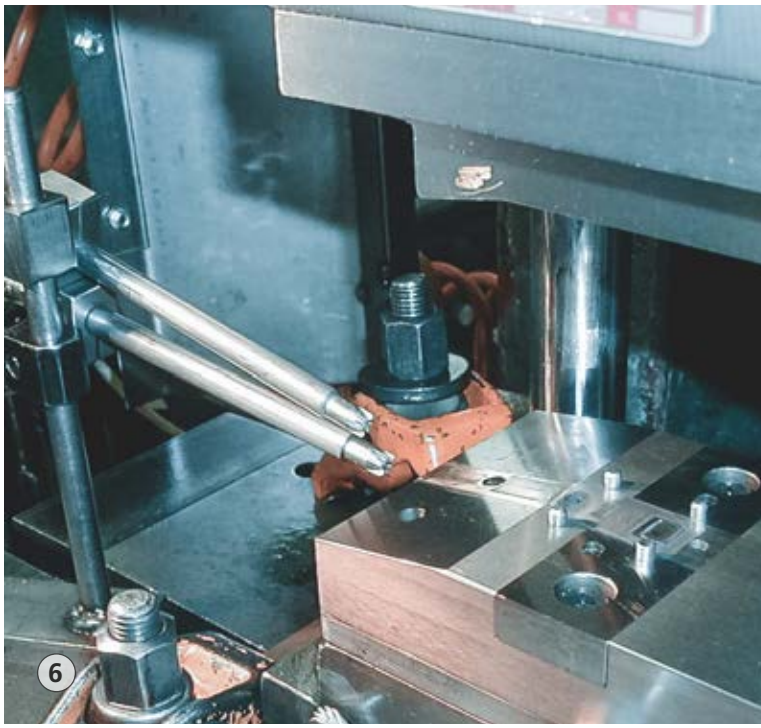
SILVENT 707 L *for optimal efficiency and reduced noise.*

Cleaning *with SILVENT 961 nozzles for reduced noise.*



Cooling *with SILVENT 209 L nozzles for reduced noise and lower air consumption.*

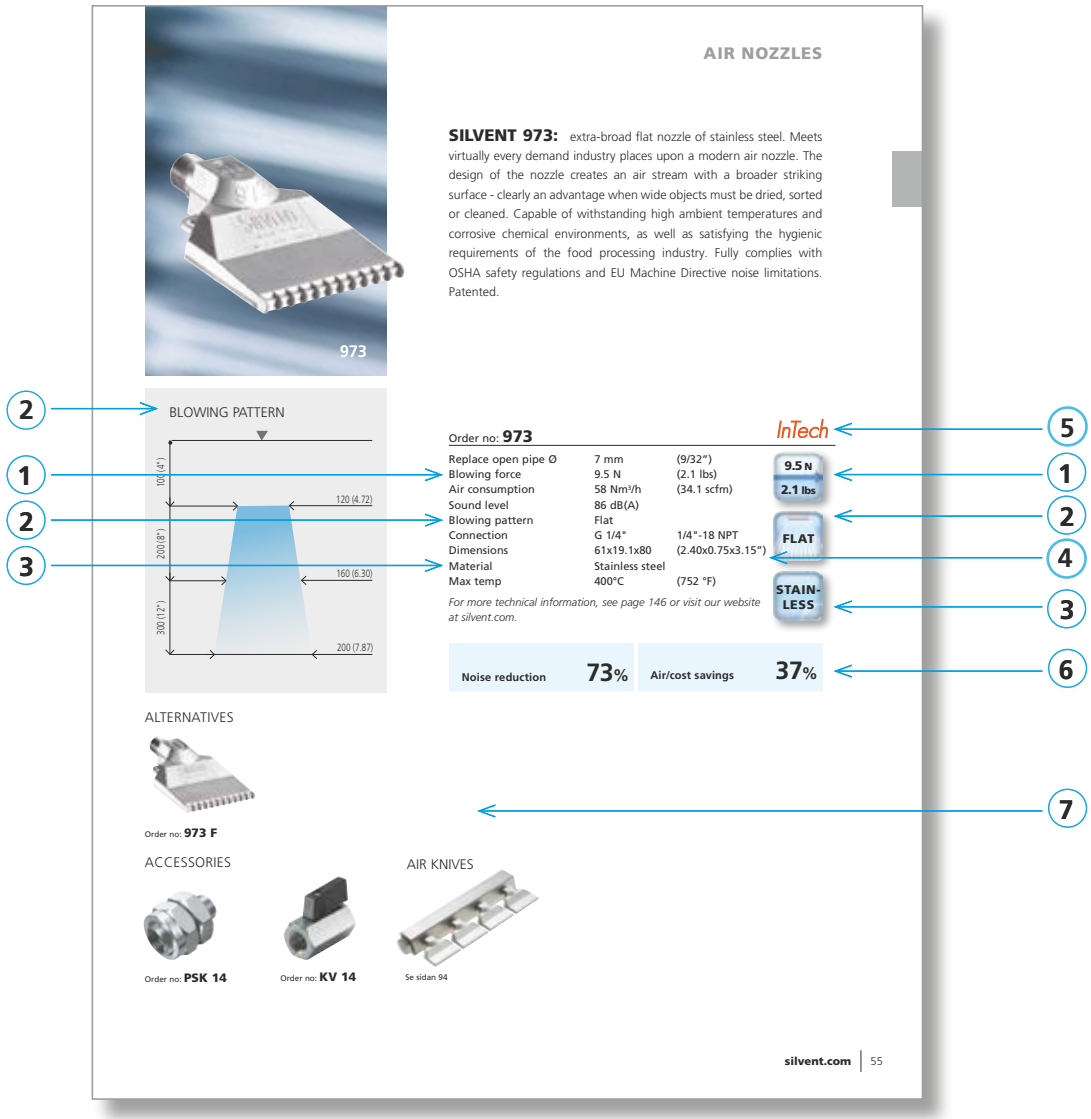
Drying *with SILVENT 973 nozzles for better quality.*



Ejecting *with SILVENT 1003 for reduced air consumption.*

CHOOSING THE RIGHT AIR NOZZLE

It is essential to choose the right air nozzle to ensure that the application will be safe, quiet and effective, as well as economical. Each blowing operation is unique, but taking the factors on the next page into account makes it easy to optimize the blowing application.



1. Blowing force

It is essential to choose the right air nozzle to ensure that the application will be safe, quiet and effective, as well as economical. Blowing force is crucial; if it is inadequate, the blowing application cannot be performed, while if it is oversized, it is not possible to take full advantage of Silvent technology. Blowing force is measured in newtons (N) and ounces (oz) or pounds (lbs). Contact Silvent if you are uncertain about the blowing force required for your application.

2. Blowing pattern

Generates a broad air jet.

Generates a large conical air jet.

Generates a centered conical air jet.

Generates a core jet with supersonic speed and surrounded by a protective airstream.

Extraordinary blowing patterns such as backward blowing, divergent, etc.

3. Material

Handles blowing applications with low ambient temperature and limited mechanical abrasion. From -20° to +70°C (-4° to +158° F).

Tolerates high ambient temperatures, mechanical abrasion, aggressive and corrosion-prone atmosphere as well as requirements for cleanliness. From -20° to +400°C (-4° to +752° F).

Handles temperatures from -20° to +150°C (-4° to +302° F).

Soft contact surface but can withstand high temperatures. Max temperature is 260°C (500°F).

An advanced fiberglass-reinforced polyamide with good performance in terms of moisture, temperature, and chemical environment. Max temperature is 180°C (356°F).

Minimizes the risk of scratching during blowing with compressed air. Max temperature is 70°C (158°F).

4. Dimensions

The dimensions in the catalog are specified as Ø x L, ⬡ x L or W x H x L.

5. InTech

Silvent InTech is a division of Silvent that specializes in integrating Silvent technology in settings such as steel mills. These applications are extremely demanding because of their environment, which means that only selected products can be used in these installations. All products in this catalog that we recommend for InTech applications have this symbol.

6. Advantages

Silvent has conducted research to develop its now well-known and patented Silvent technology. The basic principle is to create a uniform, smooth and straight laminar airflow instead of the turbulent and loud flow found, for example, in open pipes. Silvent's patented technology offers unique advantages, including a substantial reduction in noise and savings in air consumption compared with blowing with an open pipe.

7. Options and accessories

See silvent.com for detailed descriptions of all options and accessories.

PRODUCT OVERVIEW

The air nozzles in this section are divided into groups according to blowing force equivalent to the open pipes they replace.

Replaces open pipe with Ø 2 mm (5/64")

SILVENT **MJ4**
See page 38

Replaces open pipe with Ø 2.5 mm (3/32")

SILVENT **MJ5**
See page 39

Replaces open tube with Ø 3 mm (1/8")

SILVENT **MJ6**
See page 40

Replaces open pipe with Ø 4 mm (5/32")

SILVENT **209 L**
See page 41

SILVENT **512**
See page 42

SILVENT **011**
See page 43

SILVENT **701**
See page 44

SILVENT **811**
See page 45

SILVENT **921**
See page 46

SILVENT **961**
See page 47

SILVENT **971**
See page 48

SILVENT **209**
See page 49

New!

Replaces open pipe with Ø 5 mm (3/16")

SILVENT **801**
See page 50

SILVENT **700 M**
See page 51

SILVENT **1011**
See page 52

New!

Replaces open pipe with Ø 6 mm (1/4")

SILVENT **920 A**
See page 53

SILVENT **9002W**
See page 54

Replaces open pipe with Ø 7 mm (9/32")

SILVENT **973**
See page 55

SILVENT **703**
See page 56

New!

Replaces open pipe with Ø 8 mm (5/16")

SILVENT **703 L**
See page 57

SILVENT **804**
See page 58

New!

SILVENT **404 L**
See page 59

Replaces open pipe with Ø 10 mm (3/8")

SILVENT **2005**
See page 60

SILVENT **705**
See page 61

SILVENT **9005W** New!
See page 62

SILVENT **705 L**
See page 63

Replaces open pipe with Ø 12 mm (1/2")

SILVENT **707 L**
See page 64

SILVENT **407 L**
See page 65

SILVENT **808** New!
See page 66

Replaces open pipe with Ø 14 mm (9/16")

SILVENT **710**
See page 67

SILVENT **710 L** New!
See page 68

Replaces open pipe with Ø 16 mm (5/8")

SILVENT **412 L**
See page 69

Replaces open pipe with Ø 17 mm (11/16")

SILVENT **715 C**
See page 70

SILVENT **9015W** New!
See page 71

Replaces open pipe with Ø 18 mm (23/32")

SILVENT **715 LA** New!
See page 72

Replaces open pipe with Ø 20 mm (3/4")

SILVENT **720**
See page 73

Replaces open pipe with Ø 25 mm (1")

SILVENT **730 C**
See page 74

SILVENT **735 LA** New!
See page 75

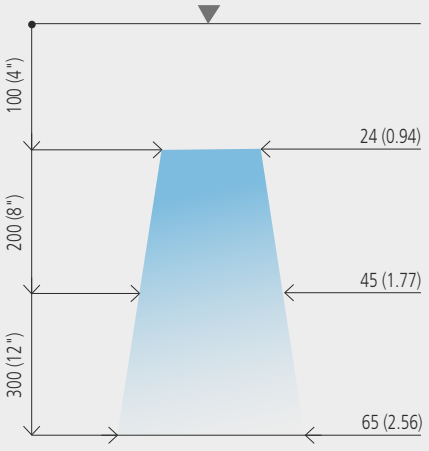
Replaces open pipe with Ø 38 mm (1 1/2")

SILVENT **780 LA** New!
See page 76

SILVENT **Special** New!
See pages 77 – 83

SILVENT MJ4: micro-nozzle of stainless steel with central hole surrounded by slots. Generates a concentrated air stream while limiting both sound level and air consumption to a minimum. Small dimensions make this nozzle suitable for incorporation into most machine designs. Meets EU Machine Directive stipulations on airborne noise in machines. Patented.

BLOWING PATTERN



Order no: **MJ4**

Replace open pipe Ø	2 mm	(5/64")
Blowing force	0.9 N	(3.2 oz)
Air consumption	4 Nm³/h	(2.4 scfm)
Sound level	76 dB(A)	
Blowing pattern	Concentrated	
Connection	M4x0.5	
Dimensions	Ø4x16.5	(Ø0.16x0.65")
Material	Stainless steel	
Max temp	400°C	(752 °F)

0.9 N
3.2 oz
CONC.
STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **43%**

Air/cost savings **50%**

ALTERNATIVES

New!

Order no: **MJ40**

ACCESSORIES (MJ40)

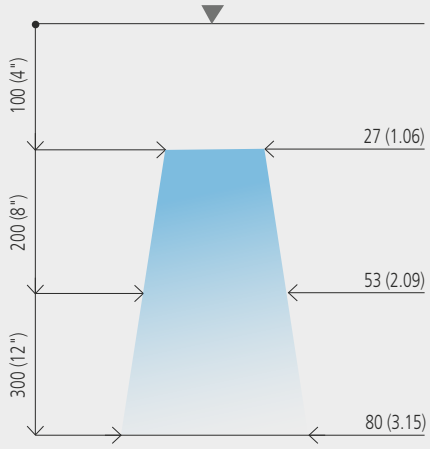
Order no: **PSK 18**

Order no: **FV 18**

Order no: **KV 18**

SILVENT MJ5: micro-nozzle of stainless steel with a central hole surrounded by slots. Generates a concentrated air stream while limiting both sound level and air consumption to a minimum. Small dimensions make this nozzle suitable for incorporation into most machine designs. Meets EU Machine Directive stipulations on airborne noise in machines. Patented.

BLOWING PATTERN



Order no: **MJ5**

Replace open pipe Ø	2.5 mm	(3/32")
Blowing force	1.8 N	(6.4 oz)
Air consumption	10 Nm³/h	(5.9 scfm)
Sound level	79 dB(A)	
Blowing pattern	Concentrated	
Connection	M5x0.5	
Dimensions	Ø5x17	(Ø0.20x0.67")
Material	Stainless steel	
Max temp	400°C	(752 °F)

1.8 N
6.4 oz
CONC.
STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **43%**

Air/cost savings **17%**

ALTERNATIVES

◀ New!

Order no: **MJ50**

ACCESSORIES (MJ50)

Order no: **PSK 18**

Order no: **FV 18**

Order no: **KV 18**

SILVENT MJ6: micro-nozzle of stainless steel with a central hole surrounded by slots. Generates a concentrated air stream while limiting both sound level and air consumption to a minimum. Small dimensions make this nozzle suitable for incorporation into most machine designs. Meets EU Machine Directive stipulations on airborne noise in machines. Patented.

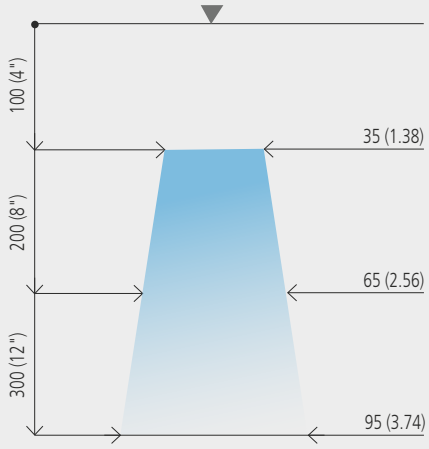
Order no: **MJ6**

Replace open pipe Ø	3 mm	(1/8")
Blowing force	2.5 N	(8.8 oz)
Air consumption	14 Nm³/h	(8.2 scfm)
Sound level	82 dB(A)	
Blowing pattern	Concentrated	
Connection	M6x0.75	
Dimensions	Ø6x17	(Ø0.24x0.67")
Material	Stainless steel	
Max temp	400°C	(752 °F)

2.5 N
8.8 oz
CONC.
STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

BLOWING PATTERN



Noise reduction **43%**

Air/cost savings **18%**

ALTERNATIVES

◀ New!

Order no: **MJ60**

ACCESSORIES (MJ60)

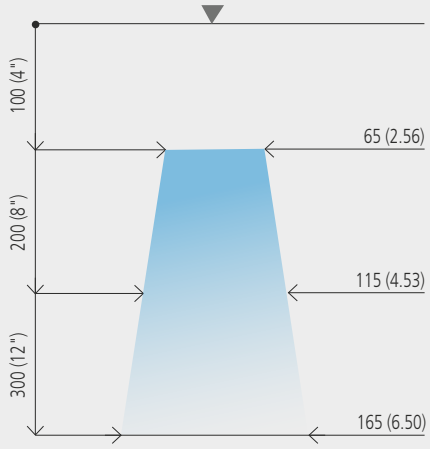
Order no: **PSK 18**

Order no: **FV 18**

Order no: **KV 18**

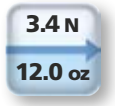
SILVENT 209 L is part of a new generation of patented Laval nozzles. It is a refinement of Silvent's 208 and 209 nozzle series and represents an entirely new phase in blowing technology. The effect is achieved by surrounding a core jet moving at supersonic speed with a protective sheath of air running parallel to the direction of the central stream. There is a mix of divergent slots and holes around the Laval orifice that generates a quiet, powerful and laminar air flow. This nozzle provides extremely efficient blowing that utilizes your compressed air optimally. Fully complies with OSHA safety standards and the noise limitations of the EU Machine Directive. Patented.

BLOWING PATTERN



Order no: **209 L**

Replace open pipe Ø	4 mm	(5/32")
Blowing force	3.4 N	(12.0 oz)
Air consumption	17 Nm³/h	(10.0 scfm)
Sound level	78 dB(A)	
Blowing pattern	Laval	
Connection	G 1/4"	1/4"-18 NPT
Dimensions	Ø19x44	(Ø0.75x1.73")
Material	Zinc	
Max temp	70°C	(158 °F)



For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **69%**

Air/cost savings **43%**

ALTERNATIVES

Order no: **208 L**

Order no: **209 L-S**

Order no: **208 L-S**

Order no: **2120 L**

Order no: **2120 L-S**

Order no: **220 L-280 L**

Order no: **221 L-281 L**

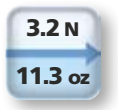
Order no: **222 L-282 L**

Order no: **293 L**

SILVENT 512: slot nozzle that generates a directed air jet. Suitable for all-purpose blowing and blowing in confined spaces. Compact size makes this nozzle a popular choice for use in machines and tools where clearance is limited. Combines advantages of low noise level and low air consumption with high blowing force. Meets OSHA safety regulations stipulating that air pressure in direct contact with skin must not exceed 210 kPa (30 psi). Also meets EU Machine Directive noise restrictions. Patented.

Order no: **512**

Replace open pipe Ø	4 mm	(5/32")
Blowing force	3.2 N	(11.3 oz)
Air consumption	19 Nm³/h	(11.2 scfm)
Sound level	79 dB(A)	
Blowing pattern	Concentrated	
Connection	G 1/8"	1/8"-27 NPT
Dimensions	Ø12x30.3	(Ø0.47x1.19")
Material	Zinc	
Max temp	70°C	(158 °F)

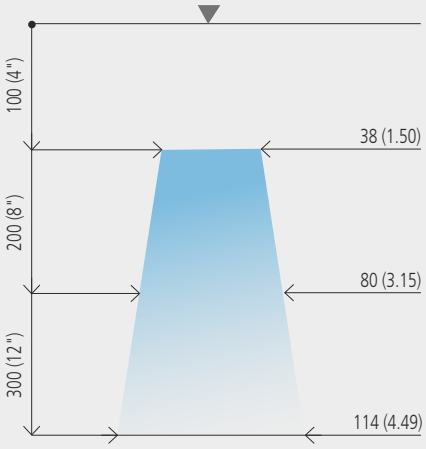


For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **67%**

Air/cost savings **37%**

BLOWING PATTERN



ALTERNATIVES

Order no: **511**

Order no: **5001**

Order no: **5003**

Order no: **620-680**

Order no: **291**

ACCESSORIES

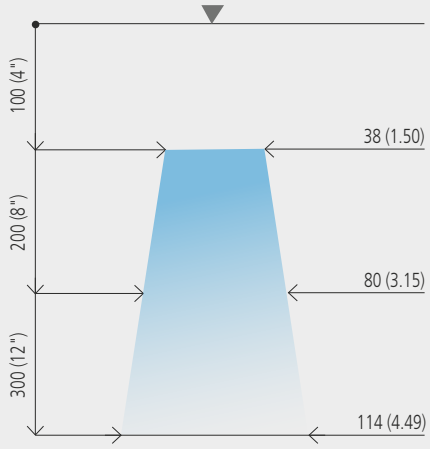
Order no: **PSK 18**

Order no: **FV 18**

Order no: **KV 18**

SILVENT 011: a robust stainless steel nozzle. Stainless steel is necessary in applications involving e.g. high ambient temperatures, the food processing industry, or intensive mechanical nozzle wear. Noise level is halved and energy savings are considerable in comparison with "open pipe blowing". Withstands tough conditions and fulfills OSHA safety requirements limiting air pressure in direct contact with skin to 210 kPa (30 psi). Also meets EU Machine Directive noise restrictions. Patented.

BLOWING PATTERN



Order no: **011**

Replace open pipe Ø	4 mm	(5/32")
Blowing force	3.2 N	(11.3 oz)
Air consumption	19 Nm³/h	(11.2 scfm)
Sound level	81 dB(A)	
Blowing pattern	Concentrated	
Connection	G 1/8"	1/8"-27 NPT
Dimensions	Ø12x39.5	(Ø0.47x1.56")
Material	Stainless steel	
Max temp	400°C	(752 °F)

3.2 N
11.3 oz
CONC.
STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **62%**

Air/cost savings **37%**

ALTERNATIVES

Order no: **0071**

Order no: **0073**

Order no: **292**

ACCESSORIES

Order no: **PSK 18**

Order no: **FV 18**

Order no: **KV 18**

SILVENT 701: specially made entirely of stainless steel with aerodynamic slots to allow optimal utilization of compressed air while keeping the noise level to a minimum. The high ambient temperatures of a glass works or the stringent hygienic requirements of the food processing industry are examples of typical areas of application. Blowing force of 3.2 N (11.3 oz). Part of SILVENT's 700 series together with 703, 705, 710 and 720. Fully meets OSHA safety regulations and EU Machine Directive noise restrictions. Patented.

Order no: **701**

InTech

Replace open pipe Ø	4 mm	(5/32")
Blowing force	3.2 N	(11.3 oz)
Air consumption	21 Nm³/h	(12.4 scfm)
Sound level	82 dB(A)	
Blowing pattern	Wide	
Connection	G 1/2"	1/2"-14 NPT
Dimensions	Ø23x33	(Ø0.91x1.30")
Material	Stainless steel	
Max temp	400°C	(752 °F)

3.2 N
11.3 oz

WIDE

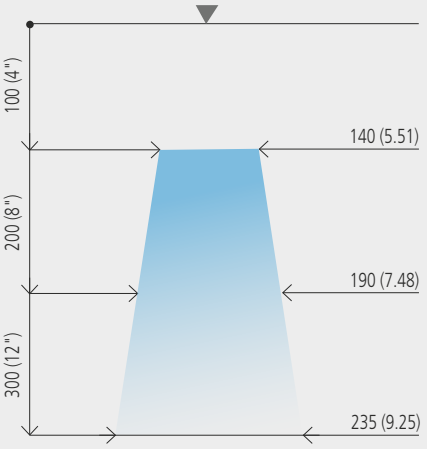
STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **60%**

Air/cost savings **30%**

BLOWING PATTERN



ALTERNATIVES

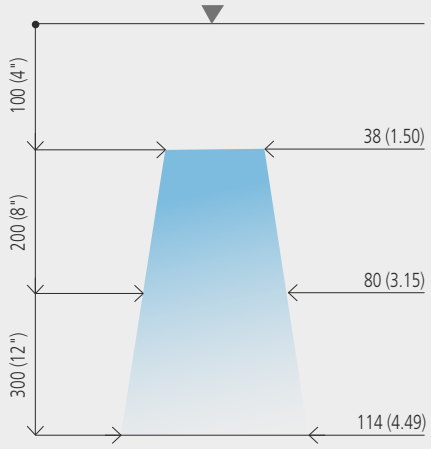
Order no: **701 A**

◀ New!

Order no: **701 LP**

SILVENT 811: "PEEK" nozzle with a central orifice. Withstands aggressive chemical environments, corrosive cutting fluids and temperatures of up to 260°C (500°F). Protects sensitive products against scratching and impact. 1/8" male connection thread. Additional technical specifications are provided in the table below. Fully complies with EU Machine Directive noise limitations and OSHA safety regulations.

BLOWING PATTERN



Order no: **811**

Replace open pipe Ø	4 mm	(5/32")
Blowing force	2.7 N	(9.5 oz)
Air consumption	15.2 Nm³/h	(8.9 scfm)
Sound level	80 dB(A)	
Blowing pattern	Concentrated	
Connection	G 1/8"	1/8"-27 NPT
Dimensions	Ø12x32	(Ø0.47x1.26")
Material	PEEK	
Max temp	260°C	(500 °F)

2.7 N
9.5 oz
CONC.
PEEK

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **65%**

Air/cost savings **50%**

ew!

ALTERNATIVES

Order no: **8001**

ACCESSORIES

Order no: **PSK 18**

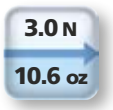
Order no: **FV 18**

Order no: **KV 18**

SILVENT 921: flat nozzle that generates a broad and efficient blowing pattern. Outstanding for use wherever a wide but thin striking surface is required. Flat nozzles are suitable for most areas of application, such as: drying, transporting, cooling, cleaning etc. Often used in manifold systems, providing silent and highly efficient air knives. Made of zinc with 1/8" male connection thread. The exhaust ports are protected from external forces by fins. Fully complies with EU Machine Directive noise limitations and OSHA safety regulations. Patented.

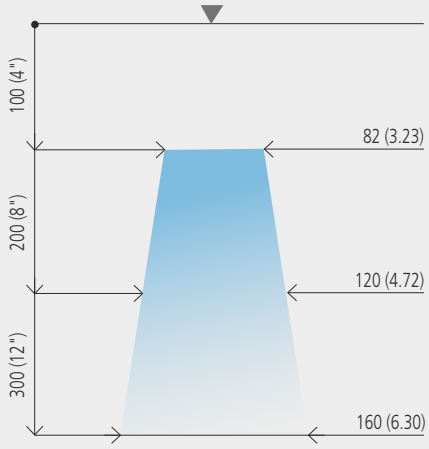
Order no: **921**

Replace open pipe Ø	4 mm	(5/32")
Blowing force	3.0 N	(10.6 oz)
Air consumption	17 Nm³/h	(10.0 scfm)
Sound level	80 dB(A)	
Blowing pattern	Flat	
Connection	G 1/8"	1/8"-27 NPT
Dimensions	23.9x11x55	(0.94x0.43x2.17")
Material	Zinc	
Max temp	70°C	(158 °F)



For more technical information, see page 146 or visit our website at silvent.com.

BLOWING PATTERN



Noise reduction **65%**

Air/cost savings **43%**

ACCESSORIES

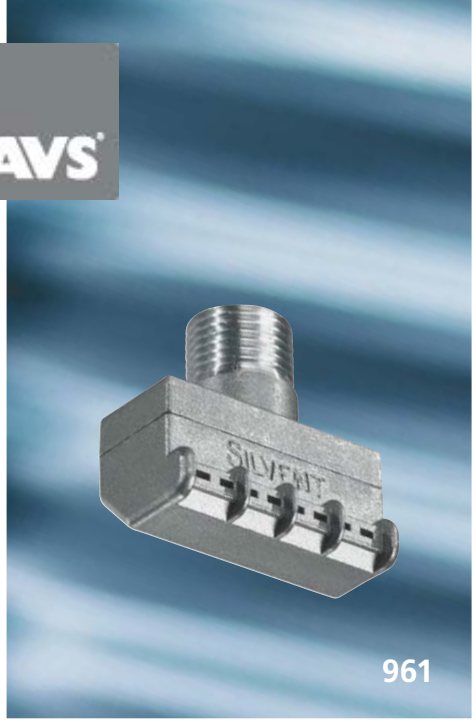
Order no: **PSK 18**

Order no: **FV 18**

Order no: **KV 18**

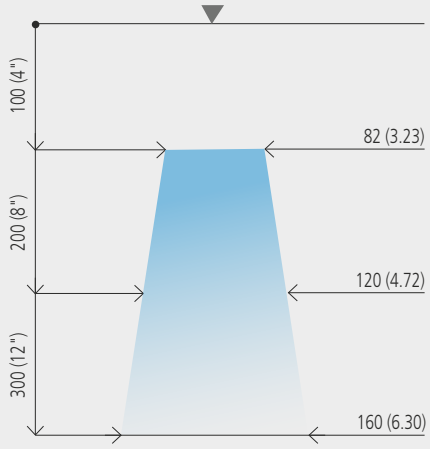
DON'T JUST EXPERIENCE THE DIFFERENCE. MEASURE IT. **Is the noise exposure level too high? Is the noise level harmful? Over 85 dB(A)?** Taking simple measurements in production is often the first step toward a better workplace environment. Order an SPL unit and start measuring.

Order no: **SPL**



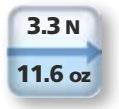
SILVENT 961: a small, angled flat nozzle that generates a broad but thin blowing pattern. Small mounting dimensions make it especially suitable for machine designs where space limitations are a problem. In many cases mounting is facilitated by the fact that the blowing angle is perpendicular to the plane 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.

BLOWING PATTERN



Order no: **961**

Replace open pipe Ø	4 mm	(5/32")
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
Dimensions	23.9x23.5x13.4	(0.94x0.93x0.53")
Material	Zinc	
Max temp	70°C	(158 °F)



For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **60%**

Air/cost savings **33%**

ACCESSORIES

Order no: **PSK 18**

Order no: **FV 18**

Order no: **KV 18**

AIR KNIVES

See page 95

SILVENT 971: flat nozzle of stainless steel. Meets virtually every demand industry places upon a modern air nozzle. The design of the nozzle creates an air stream with a broader striking surface - clearly an advantage when wide objects must be dried, sorted or cleaned. Capable of withstanding high ambient temperatures and corrosive chemical environments, as well as satisfying the hygienic requirements of the food processing industry. Fully complies with OSHA safety regulations and EU Machine Directive noise limitations. Patented.

Order no: **971**

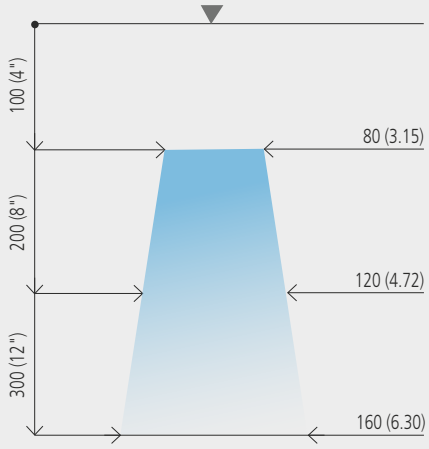
Replace open pipe Ø	4 mm	(5/32")
Blowing force	3.8 N	(13.4 oz)
Air consumption	21 Nm³/h	(12.4 scfm)
Sound level	81 dB(A)	
Blowing pattern	Flat	
Connection	G 1/8"	1/8"-27 NPT
Dimensions	23.6x17x70	(0.93x0.67x2.76")
Material	Stainless steel	
Max temp	400°C	(752 °F)

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **62%**

Air/cost savings **30%**

BLOWING PATTERN



ALTERNATIVES

Order no: **971 F**

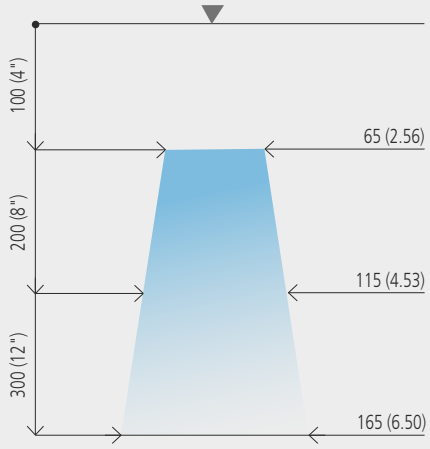
ACCESSORIES

Order no: **PSK 18**

Order no: **KV 18**

SILVENT 209: used in most types of applications. Made of zinc with 1/4" male connection thread. These nozzles have been installed in thousands of different applications throughout the world - applications where the noise level has been cut in half and energy consumption drastically reduced. The protective fins prevent direct contact between skin and the exhaust ports. With this design, the nozzle fulfills the OSHA requirements of a dead-end static pressure of 210 kPa (30 psi) and EU Machine Directive noise limitations.

BLOWING PATTERN



Order no: **209**

Replace open pipe Ø	4 mm	(5/32")
Blowing force	3.5 N	(12.4 oz)
Air consumption	19 Nm³/h	(11.2 scfm)
Sound level	80 dB(A)	
Blowing pattern	Wide	
Connection	G 1/4"	1/4"-18 NPT
Dimensions	Ø19x47	(Ø0.75x1.85")
Material	Zinc	
Max temp	70°C	(158 °F)

3.5 N
12.4 oz
WIDE
ZINC

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **65%**

Air/cost savings **37%**

ALTERNATIVES

Order no: **208**

Order no: **210**

Order no: **211**

Order no: **215**

Order no: **216**

Order no: **217**

Order no: **218**

Order no: **2120**

Order no: **209-S1**

Order no: **200**

New!

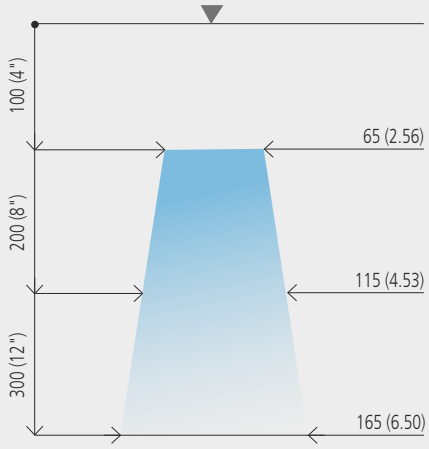
SILVENT 801 is an energy-efficient Laval nozzle that is part of Silvent's new "SILVENT SOFT™" series. The air nozzle is specially made in EPDM rubber to minimize the risk of scratches, such as on the surface of tools. The product meets the unique combination of demands for a scratch-free surface and high blowing force by applying Silvent's patented Laval technology. Silvent Laval technology 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 SILVENT SOFT 801 is ideal for all industries in which equipment and products are handled that cannot be damaged during compressed air blowing. Fully compliant with EU Machinery Directive noise limits and OSHA safety regulations. Patented.

Order no: **801**

Replace open pipe Ø	5 mm	(3/16")
Blowing force	4.0 N	(14.1 oz)
Air consumption	23 Nm³/h	(13.5 scfm)
Sound level	81.1 dB(A)	
Blowing pattern	Laval	
Connection	G 1/4"	1/4"-18 NPT
Dimensions	Ø26 x 32	(Ø1 x 1.26")
Material	EPDM	
Max temp	70°C	(158 °F)

For more technical information, see page 146 or visit our website at silvent.com.

BLOWING PATTERN



Noise reduction **71%**

Air/cost savings **51%**

ACCESSORIES

Order no: **FV 14**

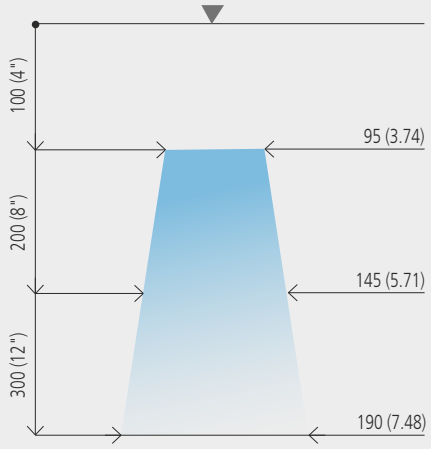
Order no: **820**

Order no: **830**

Order no: **840**

SILVENT 700 M: specially made entirely of stainless steel with aerodynamic slots to allow optimal utilization of compressed air while keeping the noise level to a minimum. Hexagonal design fits a 14 mm (0.55") wrench. Features smaller dimensions than other nozzles in SILVENT's 700 series and therefore the right choice in applications where clearance is a problem. Designed for applications where SILVENT's standard nozzles may display certain limitations, e.g. high ambient temperatures, hygienic requirements, mechanical wear, etc. Meets OSHA safety regulations and EU Machine Directive noise restrictions. Patented.

BLOWING PATTERN



Order no: **700 M**

Replace open pipe Ø	5 mm	(3/16")
Blowing force	4.2 N	(14.8 oz)
Air consumption	25 Nm³/h	(14.7 scfm)
Sound level	84 dB(A)	
Blowing pattern	Concentrated	
Connection	G 1/8"	1/8"-27 NPT
Dimensions	Ø14x23	(Ø0.55x0.91")
Material	Stainless steel	
Max temp	400°C	(752 °F)

4.2 N
14.8 oz
CONC.
STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **65%**

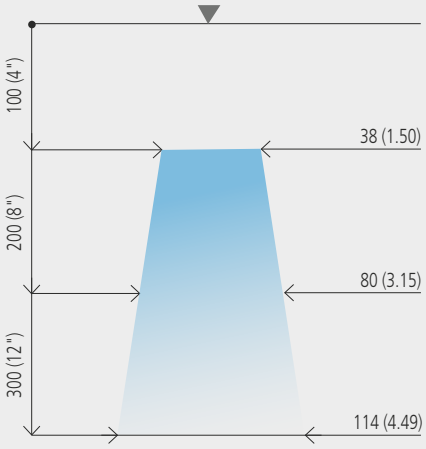
Air/cost savings **47%**

ACCESSORIES

Order no: **FV 18**

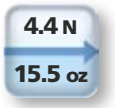
SILVENT 1011: stainless steel Laval nozzle with 1/8" male thread. The Laval hole in the center creates a concentrated, supersonic jet of air. Surrounding the hole there are a number of diverging slots that generate a powerful, quiet and laminar air stream. This combination utilizes compressed air optimally. Halves the noise level and reduces air consumption dramatically, while maintaining the force of "open pipe blowing". The nozzle and the surrounding fins prevent dead end static pressure from exceeding 210 kPa (30 psi). Fully complies with EU Machine Directive noise limitations and OSHA safety regulations. Patented.

BLOWING PATTERN



Order no: **1011**

Replace open pipe Ø	5 mm	(3/16")
Blowing force	4.4 N	(15.5 oz)
Air consumption	26 Nm³/h	(15.3 scfm)
Sound level	84 dB(A)	
Blowing pattern	Laval	
Connection	G 1/8"	1/8"-27 NPT
Dimensions	Ø12x27	(Ø0.47x1.06")
Material	Stainless steel	
Max temp	400°C	(752 °F)



For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **65%**

Air/cost savings **45%**

ALTERNATIVES

Order no: **1001**

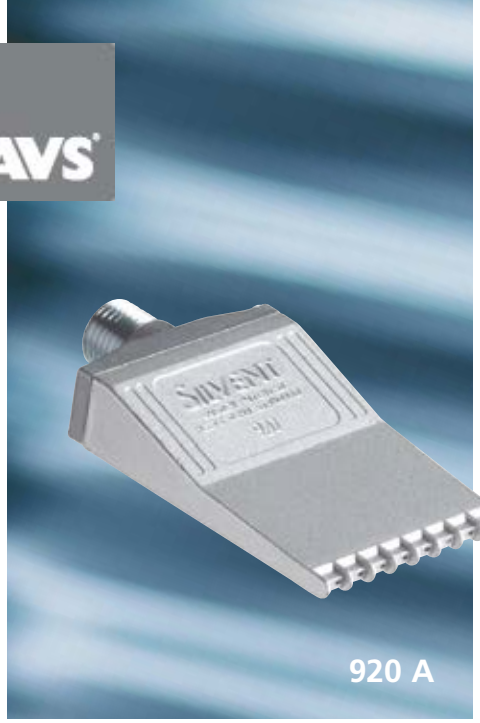
Order no: **1003**

ACCESSORIES

Order no: **PSK 18**

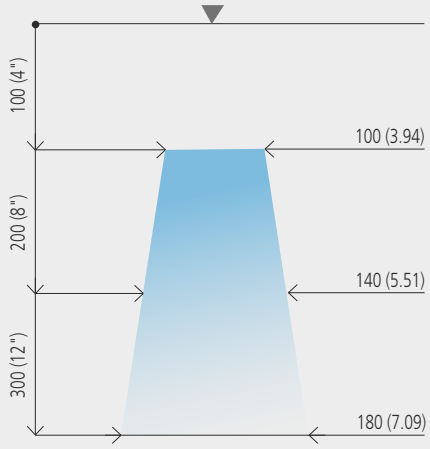
Order no: **FV 18**

Order no: **KV 18**



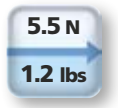
SILVENT 920 A: flat nozzle that generates a broad and efficient blowing pattern. Outstanding for use wherever a wide but thin striking surface is required. Flat nozzles are suitable for most areas of application, such as: drying, transporting, cooling, cleaning etc. Often used in manifold systems, providing silent and highly efficient air knives. Made of zinc with 1/4" male connection thread. The exhaust ports are protected from external forces by fins. Fully complies with EU Machine Directive noise limitations and OSHA safety regulations. Patented.

BLOWING PATTERN



Order no: **920 A**

Replace open pipe Ø	6 mm	(1/4")
Blowing force	5.5 N	(1.2 lbs)
Air consumption	30 Nm³/h	(17.7 scfm)
Sound level	81 dB(A)	
Blowing pattern	Flat	
Connection	G 1/4"	1/4"-18 NPT
Dimensions	46.3x14.3x80	(1.82x0.56x3.15")
Material	Zinc	
Max temp	70°C	(158 °F)



For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **77%**

Air/cost savings **55%**

ALTERNATIVES

Order no: **920 B**

Order no: **920 R**

Order no: **220 F-280 F**

Order no: **294**

ACCESSORIES

Order no: **FV 14**

Order no: **KV 14**

Order no: **PSK 14**

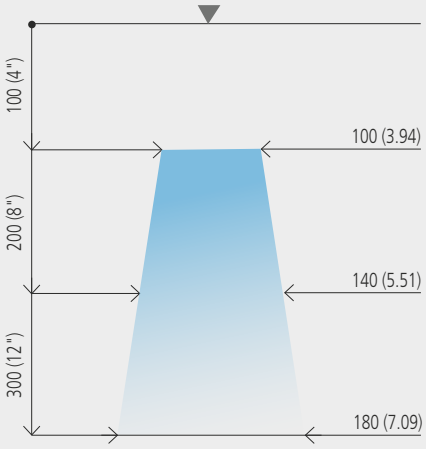
AIR KNIVES

See page 96

New!

SILVENT 9002W: an energy-efficient flat nozzle that generates a strong, efficient blowing force at an exceptionally low noise level. Compressed air is optimally used in this flat nozzle, which through its unique design introduces a completely new blowing technology feature. The aerodynamic nozzle design achieves the effect by maximizing entrainment of air. Each orifice is also uniquely designed to optimize the entrainment area. The air nozzle – SILVENT 9002W – is made exclusively of Zytel, a high-performance material without which the unique and truly complex Laval orifices would not be possible. These small orifices combined with the aerodynamic slots of the nozzle provide high efficiency. Fully complies with EU Machine Directive noise limitations and OSHA safety regulations. Patented.

BLOWING PATTERN



Order no: **9002W**

Replace open pipe Ø	6 mm	(1/4")	
Blowing force	6.0 N	(1.3 lbs)	6.0 N / 1.3 lbs
Air consumption	30.0 Nm³/h	(17.7 scfm)	
Sound level	80 dB(A)		
Blowing pattern	Flat		FLAT
Connection	G 1/4"	1/4"-18 NPT	
Dimensions	47.2x17.6x64	(1.86x0.69x2.52")	
Material	Zytel		ZYTEL
Max temp	180°C	(356 °F)	

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **78%**

Air/cost savings **55%**

ALTERNATIVES

Order no: **220 W-280 W**

Order no: **294 W**

ACCESSORIES

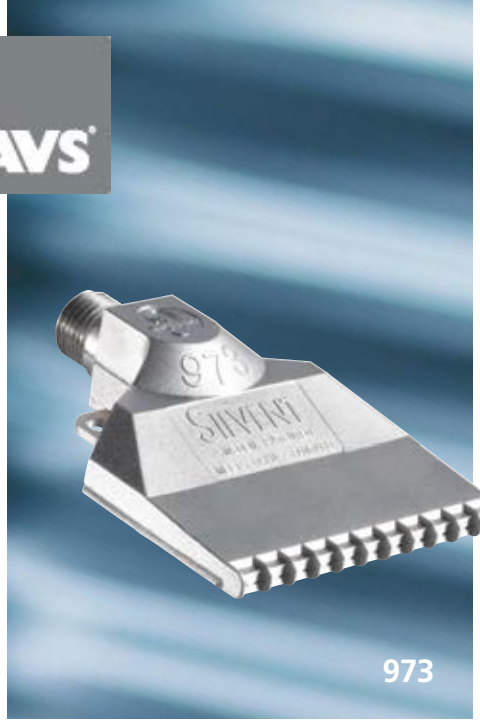
Order no: **PSK 14**

Order no: **FV 14**

Order no: **KV 14**

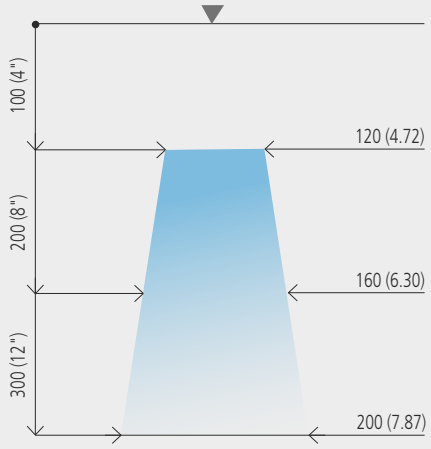
AIR KNIVES

See page 92



SILVENT 973: extra-broad flat nozzle of stainless steel. Meets virtually every demand industry places upon a modern air nozzle. The design of the nozzle creates an air stream with a broader striking surface - clearly an advantage when wide objects must be dried, sorted or cleaned. Capable of withstanding high ambient temperatures and corrosive chemical environments, as well as satisfying the hygienic requirements of the food processing industry. Fully complies with OSHA safety regulations and EU Machine Directive noise limitations. Patented.

BLOWING PATTERN



Order no: **973**

InTech

Replace open pipe Ø	7 mm	(9/32")
Blowing force	9.5 N	(2.1 lbs)
Air consumption	58 Nm³/h	(34.1 scfm)
Sound level	86 dB(A)	
Blowing pattern	Flat	
Connection	G 1/4"	1/4"-18 NPT
Dimensions	61x19.1x80	(2.40x0.75x3.15")
Material	Stainless steel	
Max temp	400°C	(752 °F)

9.5 N
2.1 lbs
FLAT
STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **73%**

Air/cost savings **37%**

ALTERNATIVES

Order no: **973 F**

ACCESSORIES

Order no: **PSK 14**

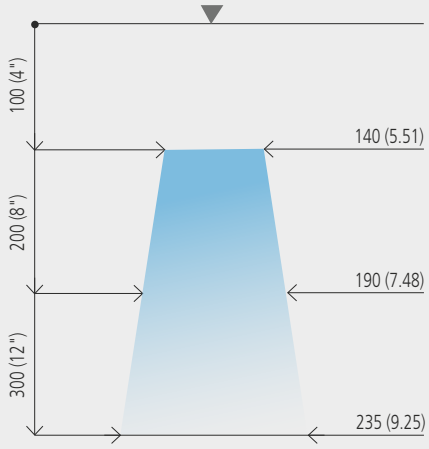
Order no: **KV 14**

AIR KNIVES

See page 94

SILVENT 703: specially made entirely of stainless steel with aerodynamic slots to allow optimal utilization of compressed air while keeping the noise level to a minimum. The high ambient temperatures of a glass works, the extreme blowing forces used in a steel mill or the stringent hygienic requirements of the food processing industry are examples of typical areas of application. Blowing force approx. 3 times stronger than SILVENT 701 (9.6 N (2.1 lbs)). Part of SILVENT's 700 series, together with 701, 705, 710 and 720. Fully meets OSHA safety regulations and EU Machine Directive noise restrictions. Patented.

BLOWING PATTERN



Order no: **703**

InTech

Replace open pipe Ø	7 mm	(9/32")
Blowing force	9.6 N	(2.1 lbs)
Air consumption	57 Nm³/h	(33.5 scfm)
Sound level	89 dB(A)	
Blowing pattern	Wide	
Connection	G 1/2"	1/2"-14 NPT
Dimensions	Ø23x33	(Ø0.91x1.30")
Material	Stainless steel	
Max temp	400°C	(752 °F)

9.6 N
2.1 lbs
WIDE
STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **67%**

Air/cost savings **38%**

ALTERNATIVES

Order no: **703 A**

Order no: **295**

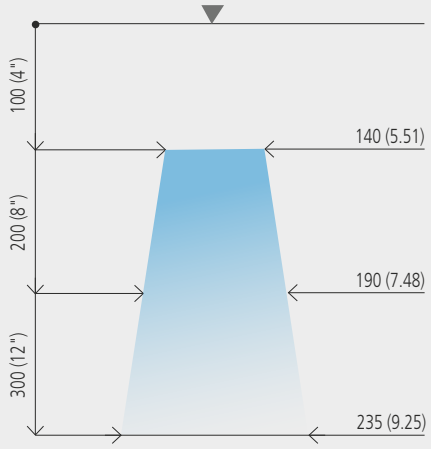
◀ New!

Order no: **703 LP**

New!

SILVENT 703 L is a stainless steel Laval nozzle. Compressed air is optimally used in this air nozzle, which introduced a whole new dimension to blowing technology. 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 703 L 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. Because of the protective sheath of air, the surrounding air does not slow down the core stream, which can be used to full effect. The gas flow prevents turbulence, thereby lowering noise levels. Fully compliant with EU Machinery Directive noise limits and OSHA safety regulations. Patented.

BLOWING PATTERN



Order no: **703 L**

InTech

Replace open pipe Ø	8 mm	(5/16")
Blowing force	10.6 N	(2.3 lbs)
Air consumption	60.0 Nm³/h	(35.3 scfm)
Sound level	91 dB(A)	
Blowing pattern	Laval	
Connection	G 1/2"	1/2"-14 NPT
Dimensions	Ø23x33	(Ø0.91x1.30")
Material	Stainless steel	
Max temp	400°C	(752 °F)

10.6 N
2.3 lbs

LAVAL

STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **69%**

Air/cost savings **49%**

ALTERNATIVES

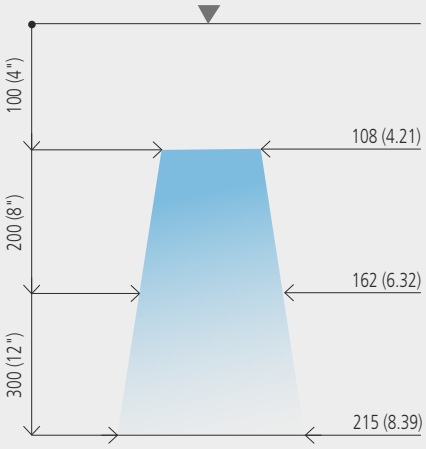
Order no: **703 LA**

Order no: **703 L LP**

New!

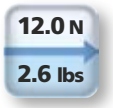
SILVENT 804: an energy-efficient Laval nozzle that is part of Silvent's new "SILVENT SOFT™" series. The air nozzle is specially made in EPDM rubber to minimize the risk of scratches, such as on the surface of tools. The product meets the unique combination of demands for a scratch-free surface and high blowing force by applying Silvent's patented Laval technology. Silvent Laval technology 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 SILVENT SOFT 804 is ideal for all industries in which equipment and products are handled that cannot be damaged during compressed air blowing. Fully compliant with EU Machinery Directive noise limits and OSHA safety regulations. Patented.

BLOWING PATTERN



Order no: **804**

Replace open pipe Ø	8 mm	(5/16")
Blowing force	12.0 N	(2.6 lbs)
Air consumption	70.0 Nm³/h	(41.2 scfm)
Sound level	90 dB(A)	
Blowing pattern	Laval	
Connection	G 3/8"	3/8"-18 NPT
Dimensions	Ø28 x 35	(Ø1.10 x 1.38")
Material	EPDM	
Max temp	70°C	(158 °F)



For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **71%**

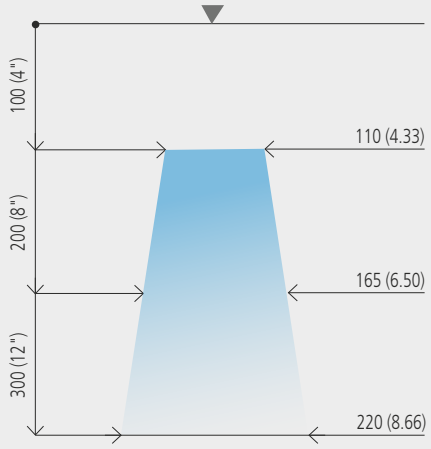
Air/cost savings **41%**

DON'T JUST EXPERIENCE THE DIFFERENCE. MEASURE IT. **Is the noise exposure level too high? Is the noise level harmful? Over 85 dB(A)?** Taking simple measurements in production is often the first step toward a better workplace environment. Order an SPL unit and start measuring.

Order no: **SPL**

SILVENT 404 L: for a broader air cone and high blowing force. Perfect for ejection of parts from punch presses and molds. Drying, cleaning, transport and cooling are other areas of application for this product. Meets OSHA safety standards and the noise limitations of the EU Machine Directive. Patented.

BLOWING PATTERN



Order no: **404 L**

Replace open pipe Ø	8 mm	(5/16")
Blowing force	13.6 N	(3.0 lbs)
Air consumption	68 Nm³/h	(40.0 scfm)
Sound level	84 dB(A)	
Blowing pattern	Wide	
Connection	G 3/8"	3/8"-18 NPT
Dimensions	Ø55x60.7	(Ø2.17x2.39")
Material	Zinc	
Max temp	70°C	(158 °F)

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **81%**

Air/cost savings **42%**

ALTERNATIVES

Order no: **1104 L**

Order no: **1204 L**

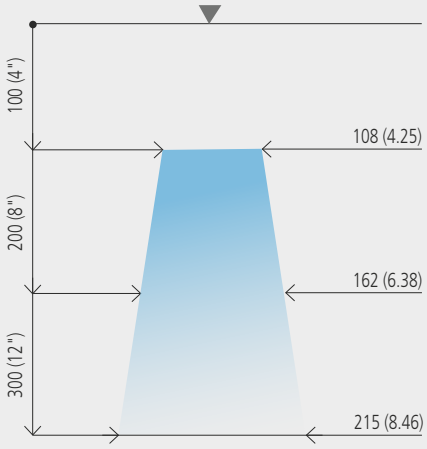
SILVENT 2005: an aluminum nozzle with aerodynamic slots. Produces a strong, quiet and effective air stream. The blowing force is approx. 5 times that of SILVENT's 209 and 511 nozzles. Despite its powerful force, both the sound level and energy consumption are low in comparison with 10 mm (3/8") open pipe blowing. Fully complies with EU Machine Directive noise limitations and OSHA safety regulations. Patented.

Order no: **2005**

Replace open pipe Ø	10 mm	(3/8")
Blowing force	14.5 N	(3.2 lbs)
Air consumption	98 Nm³/h	(57.7 scfm)
Sound level	93.5 dB(A)	
Blowing pattern	Wide	
Connection	G 3/8"	3/8"-18 NPT
Dimensions	Ø19x46	(Ø0.75x1.81")
Material	Aluminum	
Max temp	150°C	(302 °F)

For more technical information, see page 146 or visit our website at silvent.com.

BLOWING PATTERN



Noise reduction **71%**

Air/cost savings **47%**

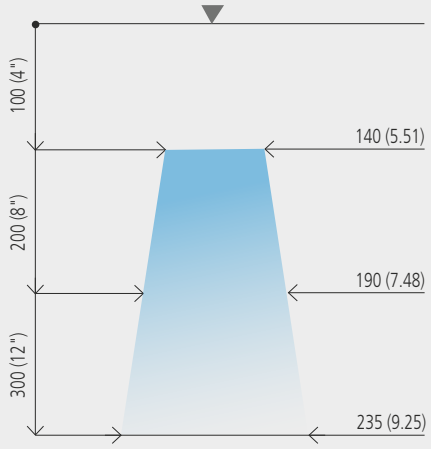
ACCESSORIES

Order no: **PSK 38**

Order no: **KV 38**

SILVENT 705: specially made entirely of stainless steel with aerodynamic slots to allow optimal utilization of compressed air while keeping the noise level to a minimum. Blowing force approx. 5 times stronger than SILVENT 701 (15 N (3.3 lbs)). Used in industries that require high blowing forces, e.g. steel mills. Withstands high ambient temperatures. Part of SILVENT's 700 series together with 701, 703, 710 and 720. Fully meets OSHA safety regulations and EU Machine Directive noise restrictions. Patented.

BLOWING PATTERN



Order no: **705**

InTech

Replace open pipe Ø	10 mm	(3/8")
Blowing force	15.0 N	(3.3 lbs)
Air consumption	95 Nm³/h	(55.9 scfm)
Sound level	92 dB(A)	
Blowing pattern	Wide	
Connection	G 1/2"	1/2"-14 NPT
Dimensions	Ø23x33	(Ø0.91x1.30")
Material	Stainless steel	
Max temp	400°C	(752 °F)

15.0 N
3.3 lbs
WIDE
STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **75%**

Air/cost savings **49%**

ALTERNATIVES

Order no: **705 A**

Order no: **296**

◀ New!

Order no: **705 LP**

New!

SILVENT 9005W: an energy-efficient flat nozzle that generates a strong, efficient blowing force at an exceptionally low noise level. Compressed air is optimally used in this flat nozzle, which through its unique design introduces a completely new blowing technology feature. The aerodynamic nozzle design achieves the effect by maximizing entrainment of air. Each orifice is also uniquely designed to optimize the entrainment area. The air nozzle – SILVENT 9005W – is made exclusively of Zytel, a high-performance material without which the unique and truly complex Laval orifices would not be possible. These small orifices combined with the aerodynamic slots of the nozzle provide high efficiency. The nozzle is ideal for blowing applications that require extra blowing force and an extra wide air cone. Fully complies with EU Machine Directive noise limitations and OSHA safety regulations. Patented.

Order no: **9005W**

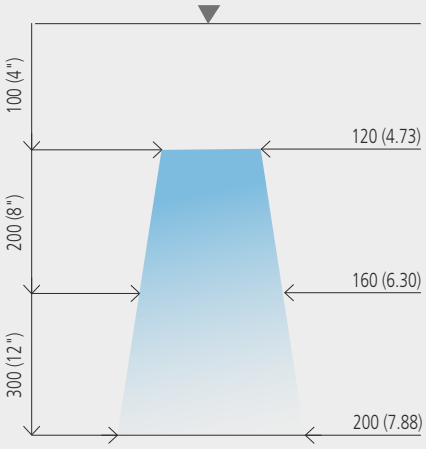
Replace open pipe Ø	10 mm	(3/8")
Blowing force	15.0 N	(3.3 lbs)
Air consumption	76.0 Nm³/h	(44.7 scfm)
Sound level	87 dB(A)	
Blowing pattern	Flat	
Connection	G 1/4"	1/4"-18 NPT
Dimensions	70.2x17.6x64	(2.76x0.69x2.52")
Material	Zytel	
Max temp	180°C	(356 °F)

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **82%**

Air/cost savings **59%**

BLOWING PATTERN



ACCESSORIES

Order no: **PSK 14**

Order no: **FV 14**

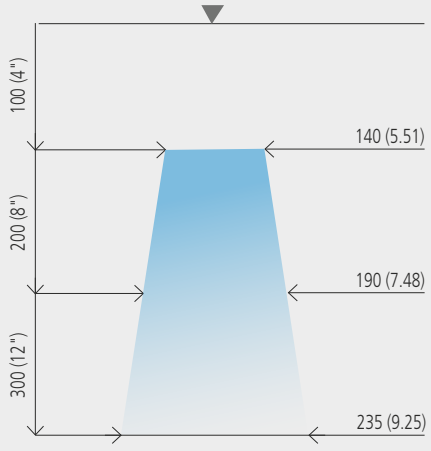
Order no: **KV 14**

AIR KNIVES

See page 92

SILVENT 705 L: a stainless steel Laval nozzle. Compressed air is utilized optimally in this nozzle, and its introduction constitutes a new dimension in blowing technology. 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 central stream of air in the Silvent 705 L 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 leaving the nozzle. The protective sheath of air prevents the core stream from being slowed down by the surrounding air and allows it to be utilized at full effect. This hinders the creation of turbulence and thereby lowers the sound level. Fully meets the EU Machine Directive's noise limitation requirements and OSHA's safety regulations. Patented.

BLOWING PATTERN



Order no: **705 L**

InTech

Replace open pipe Ø	10 mm	(3/8")
Blowing force	17.0 N	(3.8 lbs)
Air consumption	95 Nm³/h	(55.9 scfm)
Sound level	93 dB(A)	
Blowing pattern	Laval	
Connection	G 1/2"	1/2"-14 NPT
Dimensions	Ø23x33	(Ø0.91x1.30")
Material	Stainless steel	
Max temp	400°C	(752 °F)

17.0 N
3.8 lbs

LAVAL

STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **73%**

Air/cost savings **49%**

ALTERNATIVES

◀ New!

Order no: **705 LA**

◀ New!

Order no: **705 L LP**

SILVENT 707 L: a stainless steel Laval nozzle. Compressed air is utilized optimally in this nozzle and its introduction constitutes a new dimension in blowing technology. 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 central stream of air in the SILVENT 707 L 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 leaving the nozzle. The protective sheath of air prevents the core stream from being slowed down by the surrounding air and allows it to be utilized at full effect. This hinders the creation of turbulence and thereby lowers the sound level. Fully meets the EU Machine Directive's noise limitation requirements and OSHA's safety regulations. Patented.

Order no: **707 L**

InTech

Replace open pipe Ø	12 mm	(1/2")
Blowing force	21.0 N	(4.6 lbs)
Air consumption	120 Nm³/h	(70.6 scfm)
Sound level	94 dB(A)	
Blowing pattern	Laval	
Connection	G 1/2"	1/2"-14 NPT
Dimensions	Ø23x33	(Ø0.91x1.30")
Material	Stainless steel	
Max temp	400°C	(752 °F)

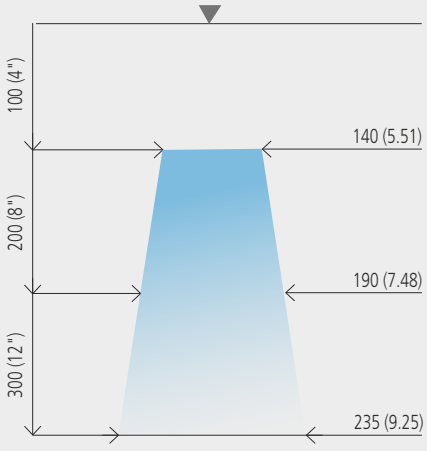
21.0 N
4.6 lbs
LAVAL
STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **78%**

Air/cost savings **55%**

BLOWING PATTERN



ALTERNATIVES

◀ New!

Order no: **707 LA**

Order no: **707 C**

◀ New!

Order no: **707 CA**

◀ New!

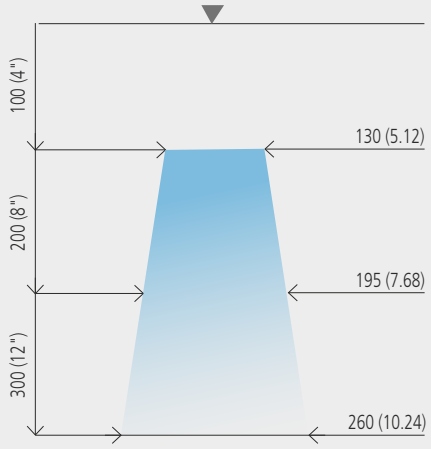
Order no: **707 L LP**

◀ New!

Order no: **707 C LP**

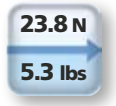
SILVENT 407 L: for operations that require high blowing force and longer blowing range. Typical areas of application include use in steel mills, paper mills and foundries for cleaning, cooling, drying etc. Fully complies with the noise limitations of the EU Machine Directive and OSHA safety standards. Patented.

BLOWING PATTERN



Order no: **407 L**

Replace open pipe Ø	12 mm	(1/2")
Blowing force	23.8 N	(5.3 lbs)
Air consumption	119 Nm³/h	(70.0 scfm)
Sound level	86 dB(A)	
Blowing pattern	Wide	
Connection	G 1/2"	1/2"-14 NPT
Dimensions	Ø67x63.7	(Ø2.64x2.51")
Material	Zinc	
Max temp	70°C	(158 °F)



For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **88%**

Air/cost savings **55%**

ALTERNATIVES

Order no: **1107 L**

Order no: **1207 L**

ACCESSORIES

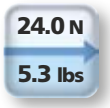
Order no: **PSKM 12**

New!

SILVENT 808: an energy-efficient Laval nozzle that is part of Silvent's new "SILVENT SOFT™" series. The air nozzle is specially made in EPDM rubber to minimize the risk of scratches, such as on the surface of tools. The product meets the unique combination of demands for a scratch-free surface and high blowing force by applying Silvent's patented Laval technology. Silvent Laval technology 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 SILVENT SOFT 808 is ideal for all industries in which equipment and products are handled that cannot be damaged during compressed air blowing. Fully compliant with EU Machinery Directive noise limits and OSHA safety regulations. Patented.

Order no: **808**

Replace open pipe Ø	12 mm	(1/2")
Blowing force	24.0 N	(5.3 lbs)
Air consumption	128.0 Nm³/h	(75.3 scfm)
Sound level	96.2 dB(A)	
Blowing pattern	Laval	
Connection	G 1/2"	1/2"-14 NPT
Dimensions	Ø35 x 44	(Ø1.38 x 1.72")
Material	EPDM	
Max temp	70°C	(158 °F)

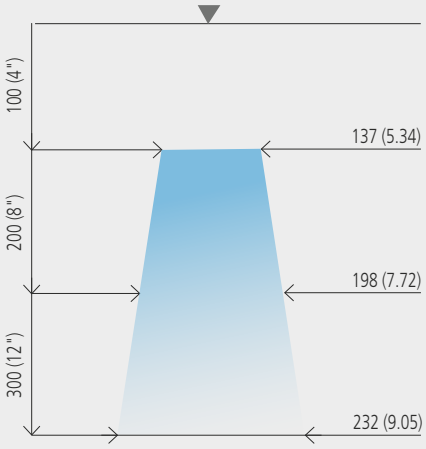


For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **75%**

Air/cost savings **52%**

BLOWING PATTERN

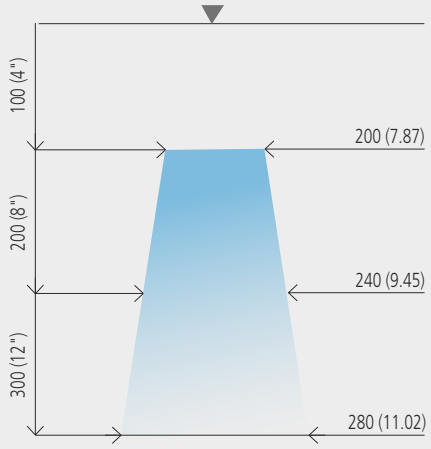


ACCESSORIES

Order no: **PSKM 12**

SILVENT 710: specially made entirely of stainless steel with aerodynamic slots to allow optimal utilization of compressed air while keeping the noise level to a minimum. Blowing force approx. 10 times stronger than SILVENT 701 (30.0 N (6.6 lbs)).The high ambient temperatures of a glass works, the extreme blowing forces used in a steel mill or the stringent hygienic requirements of the food processing industry are examples of typical areas of application. Part of SILVENT's 700 series, together with 701, 703, 705 and 720. Fully meets OSHA safety regulations and EU Machine Directive noise restrictions. Patented.

BLOWING PATTERN



Order no: **710**

InTech

Replace open pipe Ø	14 mm	(9/16")
Blowing force	30.0 N	(6.6 lbs)
Air consumption	216 Nm³/h	(127.1 scfm)
Sound level	99 dB(A)	
Blowing pattern	Wide	
Connection	G 3/4"	3/4"-14 NPT
Dimensions	Ø41x40	(Ø1.61x1.57")
Material	Stainless steel	
Max temp	400°C	(752 °F)

For more technical information, see page 146 or visit our website at silvent.com.

30.0 N
6.6 lbs

WIDE

STAIN-LESS

Noise reduction **75%**

Air/cost savings **41%**

ALTERNATIVES

Order no: **710 A**

Order no: **1710**

Order no: **2710**

◀ New!

Order no: **710 TA**

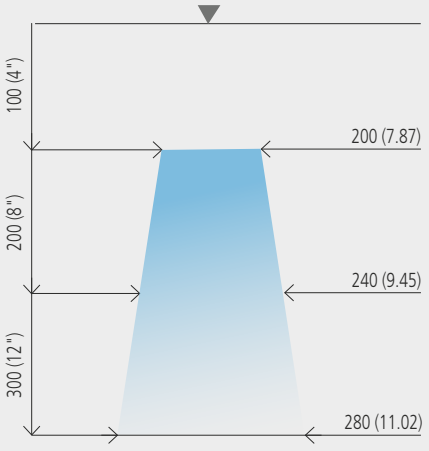
◀ New!

Order no: **710 LP**

New!

SILVENT 710 L: with a stainless steel Laval nozzle. Compressed air is utilized optimally in this nozzle, and its introduction constitutes a new dimension in blowing technology. 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 central stream of air in the SILVENT 710 L 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 protective sheath of air prevents the core stream from being slowed down by the surrounding air and allows it to be utilized at full effect. Turbulence is minimized, thereby lowering the sound level. Fully complies with EU Machine Directive noise limitations and OSHA safety regulations. Patented.

BLOWING PATTERN



Order no: **710 L**

InTech

Replace open pipe Ø	14 mm	(9/16")
Blowing force	33.0 N	(7.3 lbs)
Air consumption	216 Nm³/h	(127.1 scfm)
Sound level	100 dB(A)	
Blowing pattern	Laval	
Connection	G 3/4"	3/4"-14 NPT
Dimensions	Ø41x40	(Ø1.61x1.57")
Material	Stainless steel	
Max temp	400°C	(752 °F)

33.0 N
7.3 lbs

LAVAL

STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **73%**

Air/cost savings **41%**

ALTERNATIVES

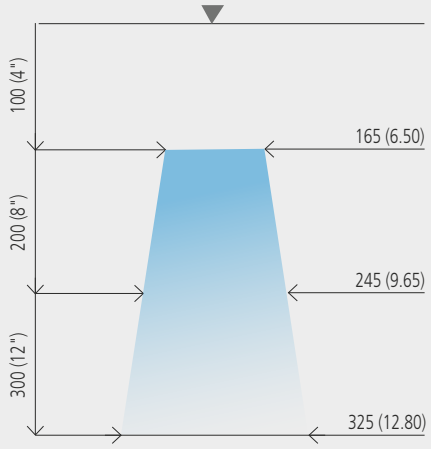
Order no: **710 LA**

Order no: **710 L TA**

Order no: **710 L LP**

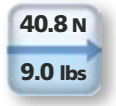
SILVENT 412 L: for operations that require high blowing force and longer blowing range. Typical areas of application include use in steel mills, paper mills and foundries for cleaning, cooling, drying etc. Fully complies with the noise limitations of the EU Machine Directive and OSHA safety standards. Patented.

BLOWING PATTERN



Order no: **412 L**

Replace open pipe Ø	16 mm	(5/8")
Blowing force	40.8 N	(9.0 lbs)
Air consumption	204 Nm³/h	(120.1 scfm)
Sound level	88 dB(A)	
Blowing pattern	Wide	
Connection	G 3/4"	3/4"-14 NPT
Dimensions	Ø92x66.7	(Ø3.62x2.63")
Material	Zinc	
Max temp	70°C	(158 °F)



For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **89%**

Air/cost savings **57%**

ALTERNATIVES

Order no: **1112 L**

Order no: **1212 L**

ACCESSORIES

Order no: **UBJ 34**

SILVENT 715 C: with aerodynamic slots to allow optimal utilization of compressed air while keeping the noise level to a minimum. Blowing force approx. 15 times stronger than SILVENT 701 (45.0 N (9.9 lbs)). For applications requiring more concentrated force on the center of the object to be cleaned, dried, cooled, transported etc. The extra slot nozzle in the middle increases air velocity and thereby blowing force, while retaining the air cone pattern of a SILVENT 710. Specially made entirely of stainless steel. Part of SILVENT's 700 C series, together with 707 C and 730 C. Fully meets OSHA safety regulations and EU Machine Directive noise restrictions. Patented.

Order no: **715 C**

InTech

Replace open pipe Ø	17 mm	(11/16")
Blowing force	45.0 N	(9.9 lbs)
Air consumption	311 Nm³/h	(183.0 scfm)
Sound level	100 dB(A)	
Blowing pattern	Concentrated	
Connection	G 3/4"	3/4"-14 NPT
Dimensions	Ø41x47	(Ø1.61x1.85")
Material	Stainless steel	
Max temp	400°C	(752 °F)

45.0 N 9.9 lbs

CONC.

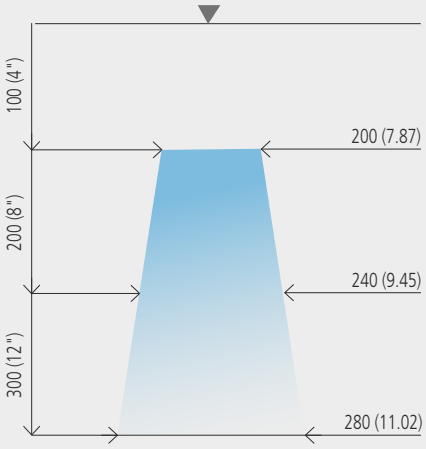
STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **80%**

Air/cost savings **42%**

BLOWING PATTERN



ALTERNATIVES

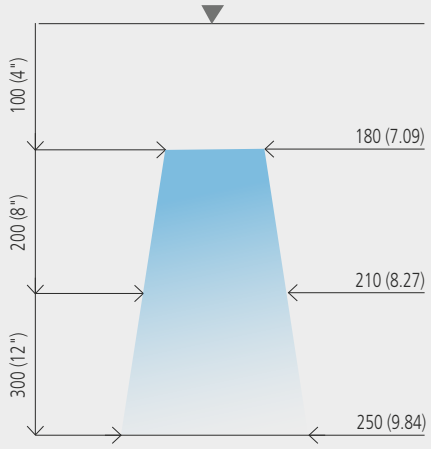
◀ New!

Order no: **715 CA**

New!

SILVENT 9015W: an energy-efficient flat nozzle that generates a strong, efficient blowing force at an exceptionally low noise level. Compressed air is optimally used in this flat nozzle, which through its unique design introduces a completely new blowing technology feature. The aerodynamic nozzle design achieves the effect by maximizing entrainment of air. Each orifice is also uniquely designed to optimize the entrainment area. The air nozzle – SILVENT 9015W – is made exclusively of Zytel, a high-performance material without which the unique and truly complex Laval orifices would not be possible. These small orifices combined with the aerodynamic slots of the nozzle provide high efficiency. Fully complies with EU Machine Directive noise limitations and OSHA safety regulations. Patented.

BLOWING PATTERN



Order no: **9015W**

InTech

Replace open pipe Ø	17 mm	(11/16")
Blowing force	45.0 N	(9.9 lbs)
Air consumption	228.0 Nm³/h	(134.2 scfm)
Sound level	94 dB(A)	
Blowing pattern	Flat	
Connection	G 1/2"	1/2"-14 NPT
Dimensions	141.3x95x26.3	(5.56x3.74x1.04")
Material	Zytel	
Max temp	180°C	(356 °F)

45.0 N
9.9 lbs
FLAT
ZYTEL

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **87%**

Air/cost savings **57%**

ACCESSORIES

Order no: **PSK 12**

Order no: **KV 12**

DON'T JUST EXPERIENCE THE DIFFERENCE. MEASURE IT. **Is the noise exposure level too high? Is the noise level harmful? Over 85 dB(A)?** Taking simple measurements in production is often the first step toward a better workplace environment. Order an SPL unit and start measuring.

Order no: **SPL**

New!

SILVENT 715 LA: an adjustable Laval nozzle. The nozzle position can be regulated 30° from the centre line, making it easy to fine tune the blowing angle. Compressed air is utilized optimally in this nozzle, and its introduction constitutes a new dimension in blowing technology. 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 central stream of air in the SILVENT 715 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 protective sheath of air prevents the core stream from being slowed down by the surrounding air and allows it to be utilized at full effect. Turbulence is minimized, thereby lowering the sound level. Fully complies with EU Machine Directive noise limitations and OSHA safety regulations. Patented.

Order no: **715 LA**

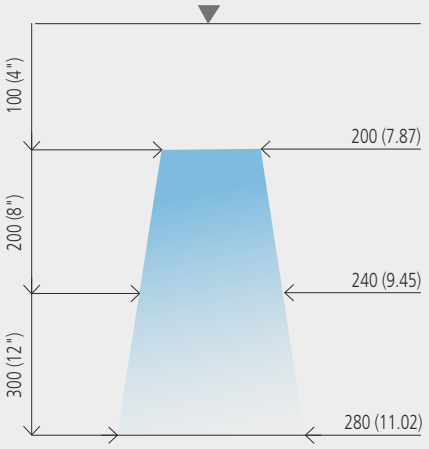
InTech

Replace open pipe Ø	18 mm	(23/32")
Blowing force	54.0 N	(11.9 lbs)
Air consumption	312 Nm³/h	(183.6 scfm)
Sound level	104 dB(A)	
Blowing pattern	Laval	
Connection	G 3/4"	3/4"-14 NPT
Dimensions	Ø50x84	(Ø1.97x3.31")
Material	Stainless steel	
Max temp	400°C	(752 °F)

54.0 N
11.9 lbs
LAVAL
STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

BLOWING PATTERN



Noise reduction **75%**

Air/cost savings **48%**

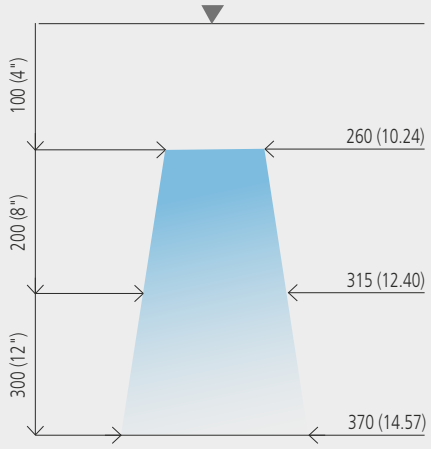
ALTERNATIVES

Order no: **715 L**

Order no: **715 L LP**

SILVENT 720: specially made entirely of stainless steel with aerodynamic slots to allow optimal utilization of compressed air while keeping the noise level to a minimum. Blowing force approx. 20 times stronger than SILVENT 701 (68.0 N (15.0 lbs)).The high ambient temperatures of a glass works, the extreme blowing forces used in a steel mill or the stringent hygienic requirements of the food processing industry are examples of typical areas of application. Part of SILVENT's 700 series, together with 701, 703, 705 and 710. Fully meets OSHA safety regulations and EU Machine Directive noise restrictions. Patented.

BLOWING PATTERN



Order no: **720**

InTech

Replace open pipe Ø	20 mm	(3/4")
Blowing force	68.0 N	(15.0 lbs)
Air consumption	420 Nm³/h	(247.2 scfm)
Sound level	104 dB(A)	
Blowing pattern	Wide	
Connection	G 1"	1"-11 1/2 NPT
Dimensions	Ø60x52	(Ø2.36x2.05")
Material	Stainless steel	
Max temp	400°C	(752 °F)

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **78%**

Air/cost savings **43%**

ALTERNATIVES

Order no: **720 A**

SILVENT 730 C: with aerodynamic slots to allow optimal utilization of compressed air while keeping the noise level to a minimum. Blowing force approx. 30 times stronger than SILVENT 701 (98.0 N (21.6 lbs)). For applications requiring more concentrated force on the center of the object to be cleaned, dried, cooled, transported etc. The extra slot nozzle in the middle increases air velocity and thereby blowing force, while retaining the air cone pattern of a SILVENT 720. Specially made entirely of stainless steel. Part of SILVENT's 700 C series, together with 707 C and 715 C. Fully meets OSHA safety regulations and EU Machine Directive noise restrictions. Patented.

Order no: **730 C**

InTech

Replace open pipe Ø	25 mm	(1")
Blowing force	98.0 N	(21.6 lbs)
Air consumption	636 Nm³/h	(374.3 scfm)
Sound level	105 dB(A)	
Blowing pattern	Concentrated	
Connection	G 1"	1"-11 1/2 NPT
Dimensions	Ø60x57	(Ø2.36x2.24")
Material	Stainless steel	
Max temp	400°C	(752 °F)

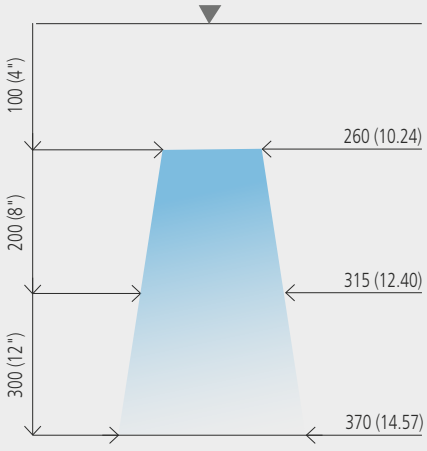
98.0 N
21.6 lbs
CONC.
STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **84%**

Air/cost savings **45%**

BLOWING PATTERN



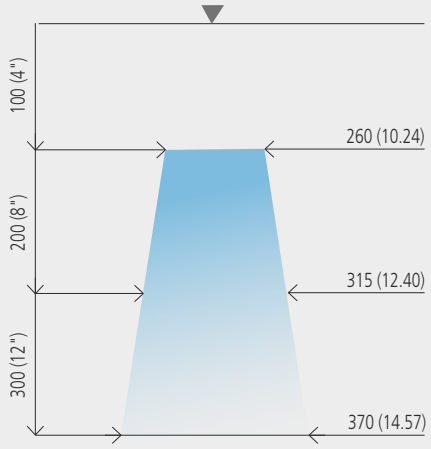
ALTERNATIVES

◀ New!

Order no: **730 CA**

SILVENT 735 LA: an adjustable Laval nozzle. The nozzle position can be regulated 30° from the centre line, making it easy to fine tune the blowing angle. Compressed air is utilized optimally in this nozzle, and its introduction constitutes a new dimension in blowing technology. 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 central stream of air in the SILVENT 735 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 protective sheath of air prevents the core stream from being slowed down by the surrounding air and allows it to be utilized at full effect. Turbulence is minimized, thereby lowering the sound level. Fully complies with EU Machine Directive noise limitations and OSHA safety regulations. Patented.

BLOWING PATTERN



Order no: **735 LA**

InTech

Replace open pipe Ø	25 mm	(1")
Blowing force	127.0 N	(28.0 lbs)
Air consumption	768 Nm³/h	(452.0 scfm)
Sound level	109 dB(A)	
Blowing pattern	Laval	
Connection	G 1"	1"-11 1/2 NPT
Dimensions	Ø60x114	(Ø2.36x4.49")
Material	Stainless steel	
Max temp	400°C	(752 °F)

For more technical information, see page 146 or visit our website at silvent.com.

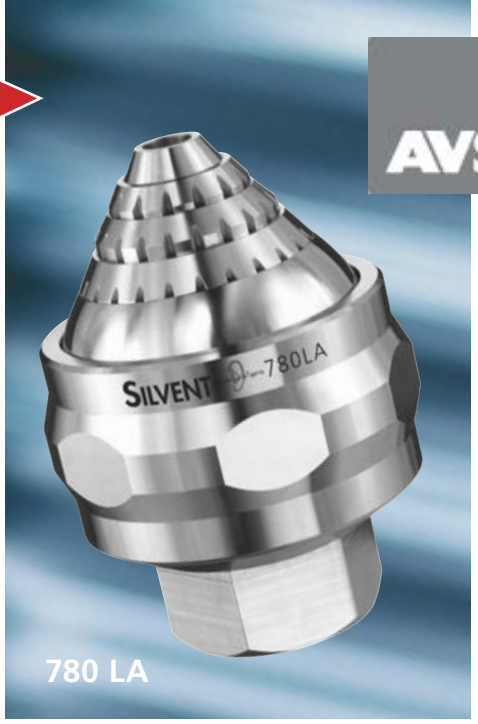
Noise reduction **78%**

Air/cost savings **34%**

ALTERNATIVES

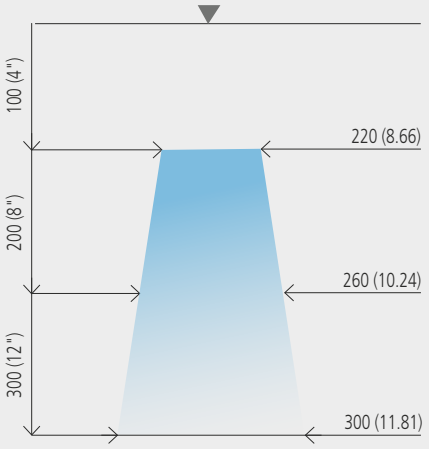
Order no: **735 L**

New!



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. Fully compliant with OSHA safety regulations. Patented.

BLOWING PATTERN



Order no: **780 LA**

InTech

Replace open pipe Ø	38 mm	(1 ½")
Blowing force	270.0 N	(59.6 lbs)
Air consumption	1750 Nm³/h	(1030.0 scfm)
Sound level	119 dB(A)	
Blowing pattern	Laval	
Connection	G 1 1/2"	1 1/2"-11 1/2 NPT
Dimensions	Ø110x152	(Ø4.33x5.98")
Material	Stainless steel	
Max temp	400°C	(752 °F)

270.0 N
59.6 lbs
LAVAL
STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **75%**

Air/cost savings **35%**

ALTERNATIVES

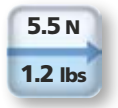
Order no: **780 L**

SILVENT 910: back-blow nozzle used for blowing clean inside pipes or channels. Cleaning out pipe during and after tooling has always been a problem. Blowing clean using conventional methods is impossible as chips are blown further into the pipe rather than out. SILVENT 910 can handle blow-out of pipe with diameters from 25 mm (1") up to 100 mm (4"). The nozzles are based upon and manufactured in accordance with Silvent's patents, which means that both noise level and air consumption are kept to a minimum. Fully complies with EU Machine Directive noise limitations and OSHA safety regulations.

PRINCIPLE SKETCH

Order no: **910**

Replace open pipe Ø	7 mm	(9/32")
Blowing force	5.5 N	(1.2 lbs)
Air consumption	38 Nm³/h	(22.4 scfm)
Sound level	86 dB(A)	
Blowing pattern	Misc.	
Connection	G 1/4"	1/4"-18 NPT
Dimensions	Ø18x17.5	(Ø0.71x0.69")
Material	Stainless steel	
Max temp	250°C	(482 °F)



For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **73%**

Air/cost savings **59%**

ALTERNATIVES

Order no: **912**

SILVENT 915: dispersion nozzle that generates a broad and circular air cone pattern. Designed for applications where air must be spread over a greater area at a short blowing distance. Works best when the blowing distance does not exceed 150 mm (6”). When blowing inside pipe and ducts the inside diameter should be between Ø 25 - 100 mm (1” - 4”). The standard exhaust angle is 45°. However, the design of the nozzle permits the angle of the exhaust holes to be modified. Upon request, angles of 90° or 135° are available. Low noise level and air consumption. Fully complies with EU Machine Directive noise limitations and OSHA safety regulations.

PRINCIPLE SKETCH

Order no: **915**

Replace open pipe Ø	6 mm	(1/4”)
Blowing force	5.5 N	(1.2 lbs)
Air consumption	38 Nm³/h	(22.4 scfm)
Sound level	86 dB(A)	
Blowing pattern	Misc.	
Connection	G 1/4"	1/4"-18 NPT
Dimensions	Ø20x27	(Ø0.79x1.06”)
Material	Stainless steel	
Max temp	400°C	(752 °F)

5.5 N
1.2 lbs
MISC.
STAIN-LESS

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **67%**

Air/cost savings **43%**

ALTERNATIVES

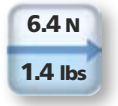
Order no: **915-90**

Order no: **915-135**

SILVENT 952: self-rotating nozzle designed to provide efficient and even blow-off of large areas. For example, wide polishing machines used in the wood working industry make use of rotating nozzles to achieve even and efficient blow-off of the entire wood surface. Conventional open pipe blow-off results in spotty blowing that fails to cover the whole surface and, therefore, uneven quality. An integrated dust removal system is normally used in connection with the rotating nozzles in these wide polishing machines, disposing of waste in an efficient and environmentally sound manner. As the nozzles rotate at high speed and force, the accompanying safety instructions must be followed during installation and use. SILVENT will gladly supply these safety regulations upon request, as well as in conjunction with initial delivery. Fully complies with EU Machine Directive noise limitations. Patented.

Order no: **952**

Replace open pipe Ø	6 mm	(1/4")
Blowing force	6.4 N	(1.4 lbs)
Air consumption	38 Nm³/h	(22.4 scfm)
Sound level	83 dB(A)	
Blowing pattern	Misc.	
Connection	M27x2	
Dimensions	160x34x125	(6.30x1.34x4.92")
Material	Zinc	
Max temp	70°C	(158 °F)



For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **73%**

Air/cost savings **43%**

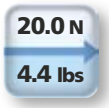
ACCESSORIES

Order no: **2252**

SILVENT 453: the smallest version of Silvent's doughnut nozzles with just an inner ring of nozzles. This is our most commonly used type of doughnut nozzle. Finding the blowing pattern that is most suitable for the majority of blow-off processes is the result of years of experience with previous generations of doughnut nozzles. These nozzles are designed for continuous production and the cleaning or drying of cables, sections, pipes, hoses etc. The SILVENT 453 allows problem-free insertion and removal of material with diameters of 5 mm to 25 mm (0.2"-1.0"). There are attachment lugs for easy and safe mounting. Fully complies with the noise limitations of the EU Machine Directive and OSHA safety standards. Patented.

Order no: **453**

Replace open pipe Ø	10 mm	(3/8")
Blowing force	20.0 N	(4.4 lbs)
Air consumption	114 Nm³/h	(67.1 scfm)
Sound level	90 dB(A)	
Blowing pattern	Misc.	
Connection	G 1/2"	1/2"-14 NPT
Dimensions	113x120x38	(4.45x4.72x1.50")
Material	Zinc	
Max temp	70°C	(158 °F)

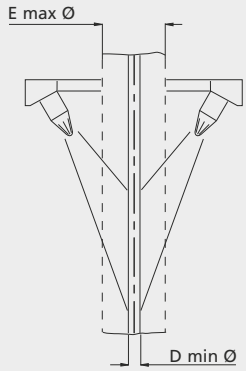


For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **78%**

Air/cost savings **38%**

BLOWING PATTERN



D min Ø		E max Ø	
mm	"	mm	"
5	0.2	25	1

Max. Ø feed 454 = 55 mm (2.2")

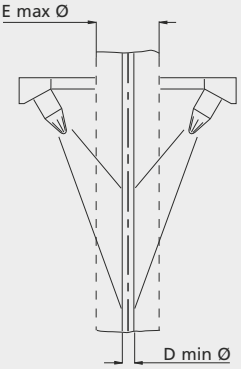
ALTERNATIVES

Order no: **454**

Order no: **455**

SILVENT 464: a doughnut nozzle with just an outer ring of flat nozzles that offers the very lowest noise level and air consumption. Perfectly adequate for the removal of lightweight matter and lesser amounts of liquid. Provides plenty of blowing force for applications such as drying or cleaning of cable, pipe, hose or sections passing through the doughnut at moderate speeds. Efficient and uniform 360° coverage is guaranteed - even at the opening in the doughnut, where extra powerful nozzles are mounted at the optimal blowing angle. SILVENT 464 allows problem-free insertion and removal of material with diameters of 25 to 105 mm (1.0" – 4.1") through the opening in the doughnut. There are attachment lugs for easy and safe mounting. Fully complies with the noise limitations of the EU Machine Directive and OSHA safety standards. Patented.

BLOWING PATTERN



D min Ø		E max Ø	
mm	"	mm	"
25	1	105	4.1

Max. Ø feed 464 = 140 mm (5.5")

Order no: **464**

Replace open pipe Ø	16 mm	(5/8")
Blowing force	32.0 N	(7.1 lbs)
Air consumption	234 Nm³/h	(137.7 scfm)
Sound level	92 dB(A)	
Blowing pattern	Misc.	
Connection	G 3/4"	3/4"-14 NPT
Dimensions	235x205x56	(9.25x8.07x2.20")
Material	Zinc	
Max temp	70°C	(158 °F)

32.0 N
7.1 lbs
MISC.
ZINC

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **88%**

Air/cost savings **51%**

ALTERNATIVES

Order no: **463 L**

Order no: **465 L**

SILVENT 475 L: with its double nozzle ring, is entirely unique. Two different blowing patterns unite to achieve maximum results. The outer ring provides initial cleaning and prepares the surfaces for the inner system, which then completes the drying or cleaning process. The system is designed to clean or dry cables, pipes, sections, hoses, etc. that require extra high blowing force or pass through the doughnut at high speed. Efficient and uniform 360° coverage is guaranteed - even at the opening in the doughnut, where extra powerful nozzles are mounted at the optimal blowing angle. SILVENT 475 L allows problem-free insertion and removal of material with diameters of 100 to 205 mm (4" – 8.1") through the opening in the doughnut. It features robust attachment lugs for easy and safe mounting. Fully complies with the noise limitations of the EU Machine Directive and OSHA safety standards. Patented.

Order no: **475 L**

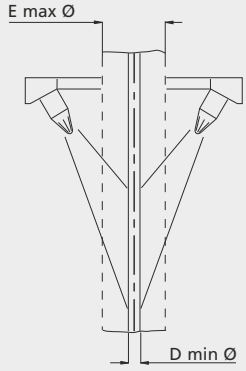
Replace open pipe Ø	25 mm	(1")	
Blowing force	148.9 N	(32.9 lbs)	148.9 N / 32.9 lbs
Air consumption	948 Nm³/h	(558.0 scfm)	
Sound level	104 dB(A)		
Blowing pattern	Misc.		MISC.
Connection	G 3/4"	3/4"-14 NPT	
Dimensions	365x336x78	(14.37x13.23x3.07")	
Material	Zinc & Aluminum		
Max temp	70°C	(158 °F)	MISC.

For more technical information, see page 146 or visit our website at silvent.com.

Noise reduction **85%**

Air/cost savings **18%**

BLOWING PATTERN



D min Ø		E max Ø	
mm	"	mm	"
100	4	205	8.1

Max. Ø feed 474 = 270 mm (10.6")

ALTERNATIVES

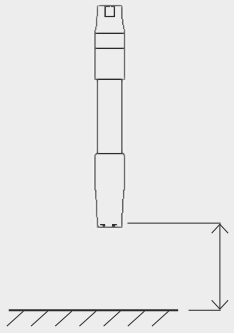
Order no: **473 L**

Order no: **474**

New!

SILVENT F 1 is a cooling nozzle with FRIGUS technology that is especially designed for spot cooling where unwanted heat occurs due to material milling, drilling, grinding, turning etc. Maintaining a reduced temperature during machining operations facilitates the process and extends tool life. F 1 generates a low noise level. Its revolutionary design is compact and the unit is simple to install. It is easy to replace your standard nozzle with a FRIGUS cooling nozzle. F 1 cools the target while blowing away chips and enhancing quality. FRIGUS technology provides the possibility to quickly and easily adjust both the air consumption and cold fraction you need. This simple, unique control design allows you to set air consumption in relation to your refrigeration requirements. F 1 also complies with the noise limitations of the EU Machine Directive and OSHA safety standards. Patented.

BLOWING DISTANCE



To obtain best cooling effect from the cooling nozzle, use as short blowing distance as possible from the nozzle to the object. Recommended max blowing distance = 30 mm (1.18").

Order no: **F 1**

Refrigeration	0 - 150 kcal/h	(0 - 594 Btu/h)
Air consumption	0 - 30 Nm³/h	(0 - 17.7 scfm)
Temperature reduction	0 - 55°C	0 - 99°F
Connection	G 1/4"	1/4" - 18 NPT
Dimensions	Ø22x169	(Ø0.87x6.65")
Material (nozzle)	Zytel	
Factory pre-set values		
Refrigeration	110 kcal/h	(436 Btu/h)
Air consumption	17 Nm³/h	(10 scfm)
Temperature reduction	38°C	68.4°F
Sound level	76 dB(A)	

MISC. CONC. ZYTEL

**Values apply at a compressed air inlet temperature of 21°C (70°F).*

For more technical information, see page 146 or visit our website at silvent.com.

ALTERNATIVES

Order no: **F 1-M2**

Order no: **F 1-M3**

Order no: **F 1-M4**

Order no: **F 1-X2 – F 1-X4**

ACCESSORIES

Order no: **820**

Order no: **830**

Order no: **840**