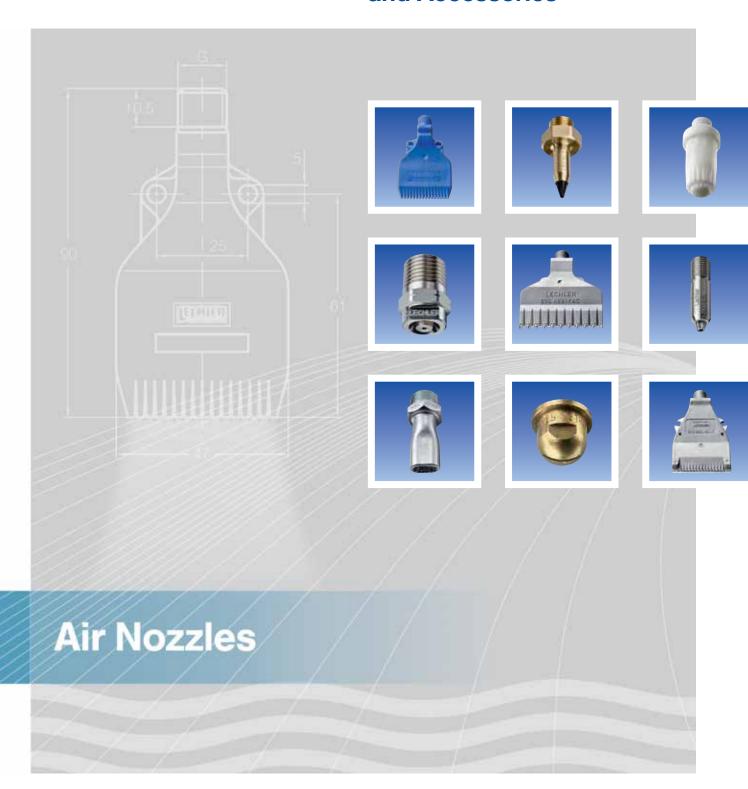


Air Nozzles and Accessories



LECHLER AIR NOZZLES - QUIETLY EFFICIENT

in nozzle technology.

For over 135 years,
we have pioneered
numerous groundbreaking
developments in the field
of nozzle technology.

Comprehensive nozzle
engineering know-how
is combined with a deep
understanding of applicationspecific requirements to
create products that offer
outstanding performance
and reliability.

Leading nozzle technology for compressed air

In many industrial and craft fields, compressed air is an essential aid for drying, cooling, cleaning, transporting, loosening, and mixing. At the same time, the use of compressed air also increases costs and high noise emissions. The critical factor here is the type of nozzle used.

Industries

- Metalworking industry
- Food industry
- Packaging industry
- Electronics industry
- Semiconductor industry
- Plastics industry
- Printing/coating/painting, etc.

Your competent partner – worldwide

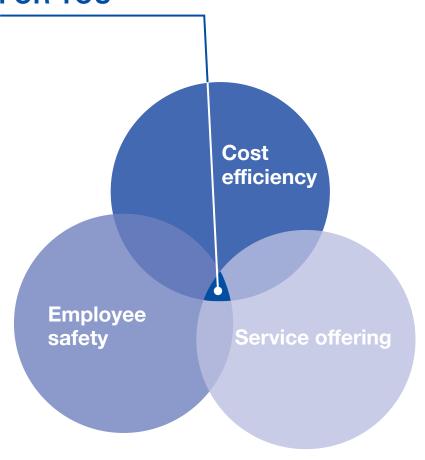
Lechler is headquartered in Metzingen, Germany but is represented all over the world with subsidiaries in the USA, Hungary, England, India, China, France, Belgium, Sweden, Finland, Spain and Italy as well as qualified agents in over 40 countries. We will help you solve your compressed air tasks — wherever you are in the world.

Your advantages

- Reduced noise level
- Lower operating air pressure with same blowing force
- Lower air consumption
- Improved blowing efficiency over larger distances
- Lower operating costs



THREE ADVANTAGES FOR YOU



Cost efficiency

Lechler nozzles make it possible to reduce compressed air consumption by up to 45%, in comparison with open pipes. Furthermore, increasing energy costs and the growing range of applications for compressed air become more evident for the impressive potential savings possible in this area. This is a competitive benefit that has a direct positive impact for your business.

Employee safety

The unique design of our nozzles allows the noise level to be significantly reduced by up to 25 % in comparison with conventional solutions. This also reduces noise-related stress for your employees. Since concentration falls as a result of increased stress, use of low-noise nozzles has a positive effect on production quality.

Service offering

A perfect solution must be optimally tailored to the exact requirements. We will therefore gladly advise you in person about the use of compressed air nozzles and introduce you to new possibilities. Contact us and let us define the best possible solution together for improved quality and optimized process reliability.

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LECHLER AIR NOZZLES HAVE PROVEN THEMSELVES IN MANY INDUSTRIES

Cleaning/blowing off

Lechler Whisperblast® nozzles are preferred over conventional air nozzles due to their low noise levels. The nozzles are very frequently used for blowing off debris. Both permanently installed solutions or a connection to a compressed air gun are possible.



Cooling

In addition to cooling by water, surfaces can also be cooled by air and other gases. The noise level can be reduced even further by means of multi-channel air nozzles. The width of the multi-channel nozzles means that air can be supplied more uniformly to the surface when the nozzles are correspondingly positioned, (i.e.) for cooling components after ultrasonic welding.





Drying

Whisperblast® nozzles remove unnecessary liquid drops, e.g. from bottle necks, so that the attached label can be applied optimally.



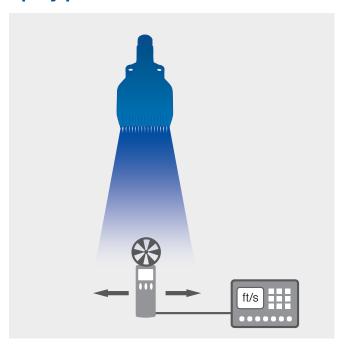
Selecting/sorting Air nozzles can also be used for selecting and sorting applications by operation with short pulses. The picture shows an example from the food industry. Here, bakery buns are being rejected because they do not pass requirements. **lonizing** Air nozzles are used in the semiconductor industry to supply ionized air to the manufacturing process. This prevents the buildup of static electricity. Air curtain If Whisperblast® nozzles are arranged closely together, it is possible to create a closed air curtain. The illustrated test with water clearly shows gapfree swirling at the surface. In summary, this means that dust and other fine particles can be

These are just a few of the possible applications. If your specific application is not listed, please contact us. We will gladly advise you.

kept away from a certain area.

MODERN NOZZLE TECHNOLOGY FOR GREATER EFFICIENCY AND LESS NOISE

Spray pattern measurement



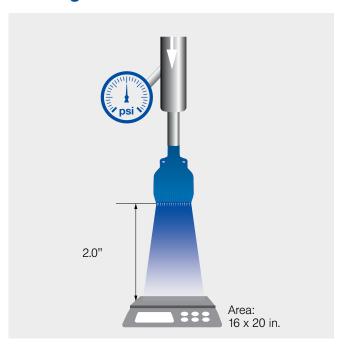
Larger measurable spray pattern

For the spray pattern measurement, the nozzles are clamped in a fixture specially designed for this purpose. An anemometer (windmeter) moves through the air spray at right angles to the jet direction at previously defined distances and at different pressures. The wind speeds measured here define the spray (as specified on the

product pages). An air speed of 2.5 m/s was defined as the limit value on the basis of experience and flow calculations (CFD).

The compact design and unique form of our air nozzles allow for extremely high speeds at close range as well as at larger throw distances.

Blowing force

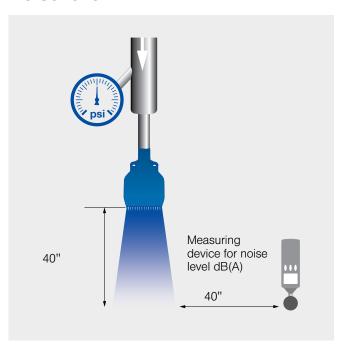


Higher measurable blowing force

In performance, the available blowing force is critical. Our measurements show that Lechler multi-channel nozzles achieve a high blowing force even at large distances. Thanks to this benefit, our nozzle technology opens up new applications for use with compressed air.

Compared with conventional solutions, the competitive advantage that can be realized with Lechler nozzles is evident again.

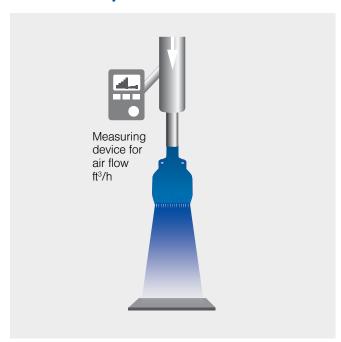
Noise level



Less measurable noise

Conventional air nozzles simply blow air through a hole. The resulting turbulence generates unpleasant, loud hissing noises. Such noises can trigger stress reactions among employees even at relatively low sound pressure levels, thereby impairing both concentration and performance.

Air consumption



Lower measurable air consumption

The generation of compressed air requires energy. Since the energy costs account for an increasingly large share of the overall costs of manufacturing a product, considerable savings can be achieved through the right nozzle selection.

Nozzles from Lechler are designed so that they need less compressed air than conventional nozzles, without compromising performance. As a result, our products help to make production processes more efficient and more environmentally friendly.

WHAT YOU SHOULD KEEP IN MIND WHEN PLANNING

- ① Difference between blowers and compressors
- ② Jet pattern of air nozzles
- ③ Innovative nozzle design
- 4 Materials and connections
- **5** Gases
- **6** Operating medium steam
- Cost savings and noise reduction in comparison to an open pipe

Difference between blowers and compressors

If the term BLOWER is used in fan technology, this normally describes equipment that delivers large gas quantities at low pressures. In contrast, a COMPRESSOR delivers low volume flows at high pressures.

Blowers are often used to make extraction and ventilation processes more efficient, e.g. to guarantee the supply of oxygen in combustion processes. In contrast, compressors are frequently used in everyday life. Whether it is inflating car tires or blowing off metal chips on a drill, compressors are used in a host of applications.

Lechler air nozzles make it possible to perform many different blowing-off and cleaning operations easily, efficiently and with low noise.

② Spray pattern of air nozzles

Air nozzles are used for concentrated, targeted delivery of air or other gases. The nozzles used are normally flat jet or round jet nozzles. Air is also discharged at a specific angle. However, this is not comparable with that of liquids.

Air expands when it is discharged from the nozzle orifice, which leads to expansion of the jet. The spray angle is normally approx. 20°.



Figure 2: Spray expansion of an air nozzle

③ Innovative nozzle design

With conventional air nozzles, air is simply blown through a hole. The produced turbulence creates loud hissing noises. With our specially designed multi-channel air nozzles, we are able to focus and reduce this turbulence. The specially shaped orifices guide

the supplied air uniformly into arranged air channels to ensure optimum flow behavior. This produces a uniform, aligned and powerful air stream. The decrease in turbulence results in lower noise emissions and also measurably reduces air consumption.

4 Materials and connections

Our standard materials for metal nozzles are brass and stainless steels: AISI 303, AISI 316L or AISI 316Ti.

Standard nozzles made of plastic are usually made from PP. PVDF or POM.

It is also important to choose the optimum material for seals. Viton, PTFE, EPDM or EWP are used, depending on the application.

Nozzles are manufactured primarily with threads according to ISO 228, DIN EN 10226 and NPT. A distinction is also made between sealing and non-sealing threads. In the case of non-sealing threads, PTFE tape or thread paste is used for sealing.



The FDA, the U.S. Food & Drug Administration,

is a federal agency which overseas those two industries. Materials used in making Lechler products are compliant with the requirements of FDA regulation 21 CFR for use in food applications.



The regulation (EC) No. 1935/ 2004 of the European Parliament

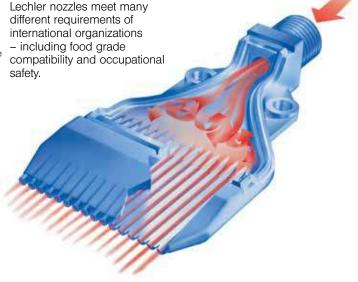
regulates general safety requirements to all food and beverage contact materials.

Within this regulation, it is additionally stipulated that plastics must comply with (EU) 10/2011.

OSHA® The Occupational Safety and Health Administration (OSHA)

is a US federal authority for prevention of accidents at work.

The respective logo on the product pages indicates which requirements are met.



WHAT YOU SHOULD KEEP IN MIND WHEN PLANNING

(5) Gases

The output of gases (i.e. air) is fundamentally different to the output of liquids. Gases are compressible fluids, whereas liquids are considered as incompressible fluids.

Gases can be supplied with practically all nozzles that can also be used for atomizing liquids. However, due to the compressibility and lower density of gases, gas sprays cannot be formed in the same way as with liquids. Gases tend to generate a significantly increased noise level under certain conditions (pressure and nozzle design).

The development of multichannel nozzles with specially shaped nozzle orifices makes it possible to considerably reduce the turbulence in the nozzle that causes noise. In addition, this nozzle design increases blowing force while at the same time reducing air consumption.

The speeds of gases can be very high under certain conditions. If a specific pressure difference is applied to a nozzle, speeds of approx. 1050 ft/s can often occur in the smallest cross section. This speed can even increase shortly after the gas leaves the nozzle. The illustration below shows the speed characteristic in a flow simulation.

6 Operating medium steam

In general, steam must be considered as a gas. However, in certain cases, it must be treated differently to (i.e. air), especially with regards to flow characteristics. Since water is actually liquid under normal conditions, it changes its state of aggregation only subject to certain prerequisites; this means that the flow and thermodynamic properties of steam differ from those of gases. For example, the throughput of steam is always specified as a mass flow in practice. In contrast, gas throughputs are often specified as volume flows. However, one of the most important properties of steam is its density, (i.e.) maintenance of

585

Air speed (m/s)

its gaseous state. If steam is pressurized, it can quickly lose its gaseous state at a given temperature and change to liquid state. This can already take place at moderate pressures and temperatures. Particular attention must be paid to this and other physicalchemical properties if it is desired to use steam as a medium for nozzles.

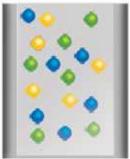
Ocst savings and noise reduction in comparison to an open pipe

The use of compressed air has long been standard in companies. Whether for blowing off debris, sorting out defective parts or simply for drying products after washing. Companies frequently use simple pipes for this purpose. These can be purchased inexpensively and individually shaped and aligned for the specific application.

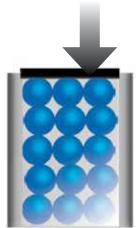
However, this may appear to be an inexpensive solution but usually is very uneconomical in the long run. Thanks to their unique design, the air consumption and noise level of Lechler air nozzles are significantly lower than for comparable open pipes with equivalent bore diameter. The use of Lechler air nozzles is not only a cost savings but it also protects the health and safety of your employees.







Compressible



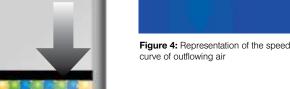


Figure 3: Compressibility behavior: Left water / right air

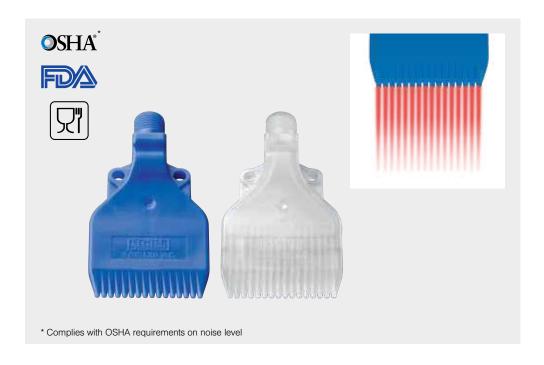


Multi-channel flat jet nozzles for air Whisperblast®, plastic versions Series 600.130.S2/56



Series 600.130.S2/56

The multi-channel flat jet nozzles of the 600.130 series generate a continuous powerful air stream. The noise level and air consumption remain low even at higher air pressures. Since the nozzles are made completely of POM or natural PP, they are also suitable for applications in the food industry or electroplating sector.





Cost savings

21%



Noise reduction

24%



Materials

Natural PP and POM



Blowing force



.45 LBF at 29 psi



Noise level 70 db(A) at 29 psi

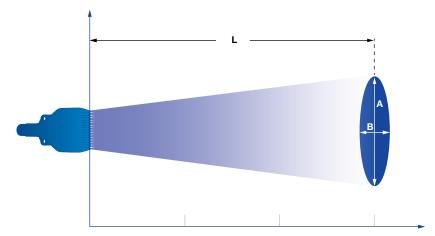


Air consumption V_{LN} =10 SCFM at 29 psi



Pressure $P_{max} = 87 \text{ psi}$



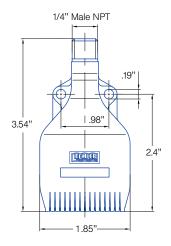


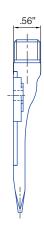
Jet pattern of 600.130 nozzle series



Max. temperature Natural PP: 60°C/ 140°F POM: 50°C/ 122°F

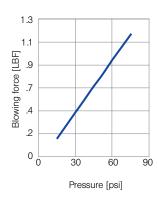
-	Pressure:	14.5 psi	44 psi	72.5 psi				
	Distance L [in]: 24		35	35				
	Jet dimensions at L							
	A [in]:	5.5	9.4	10.2				
	B [in]:	5.1	7.3	8.7				

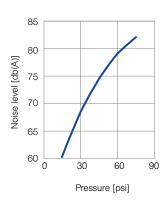


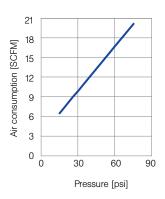




600.130.56.01 with accessories







Ordering no.				
	Mat	. no.	Connection	
	S2	56		
Туре	Natural PP	POM	1/4" Male NPT	
600. 130	0	0	ВС	

Example	Type	+	Mat. no.	+	Conn. =	Ordering no.
of ordering:	600, 130,	+	56	+	AC =	600, 130, 56, AC

Note: The cover strip allows to customize the jet width by closing individual holes.



Multi-channel flat jet nozzles for air Whisperblast®, plastic versions Series 600.332.56



Series 600.332.56

The multi-channel flat jet nozzles of the 600.332 series generate a continuous powerful air jet. The noise level and air consumption remain low even at higher air pressures. The projecting tips at the nozzle outlet prevent air penetration into human skin. These nozzles comply with the OSHA standards.





Cost savings

26%



Noise reduction

21%



Material

POM



Blowing force .45 LBF at 29 psi





Noise level 70 db(A) at 29 psi



Air consumption V_{LN} =10 SCFM at 29 psi

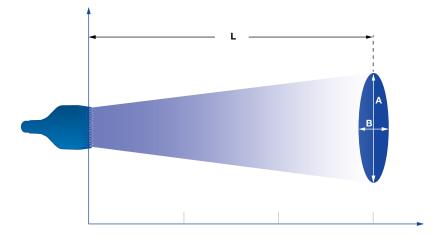


Pressure P_{max}= 87 psi



Max. temperature 50°C/ 122°F

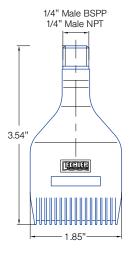
B [in]:



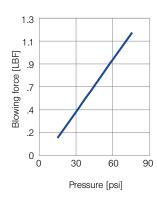
Jet pattern of 600.332 nozzle series

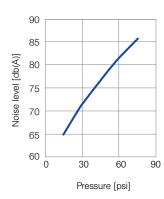
Pressure:	14.5 psi	44 psi	72.5 psi		
Distance L [in]: 24.6		35	35		
Jet dimensions at L					
A [in]: 5		8	9		

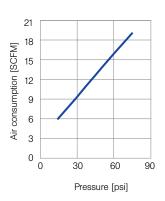
5











Ordering no.				
	Mat. no.	Conn	ection	
Туре	56			
	POM	1/4" Male BSPP	1/4" Male NPT	
600. 332	0	AC	ВС	

Example	Туре	+	Mat. no.	+	Conn.e	= 0	rdering
no.							
of ordering:	600, 332,	+	56	+	AC =	600, 332, 5	56. AC

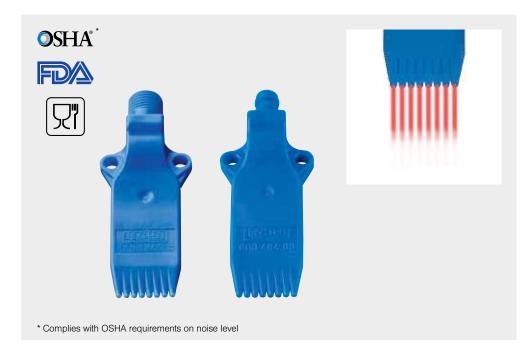


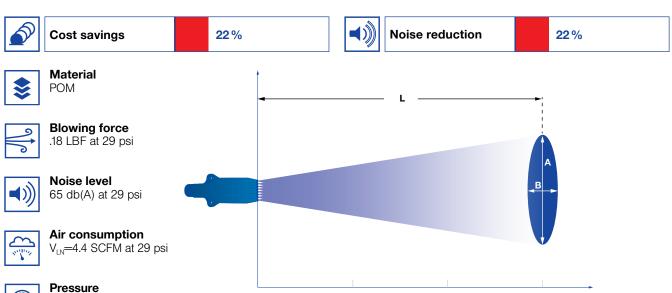
Multi-channel flat jet nozzles for air Whisperblast®, plastic versions Series 600.484.56

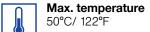


Series 600.484.56

The multi-channel flat jet nozzles of the 600.484 series generate a compact, powerful air jet. Due to its narrow design, this nozzle out performs with its low air consumption and low noise level. Since they are made completely of POM, these nozzles are also suitable for applications in the food industry.



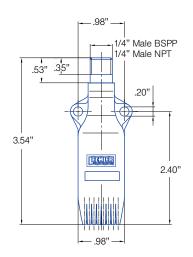




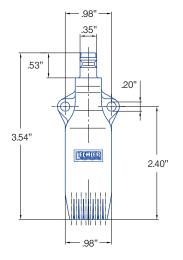
 $P_{max} = 87 \text{ psi}$

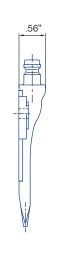
Pressure:	14.5 psi	44 psi	72.5 psi			
Distance L [in]:	13.8	23.6	33.5			
Jet dimensions at L						
A [in]:	4.3	6.7	8.7			
B [in]:	3.2	4.7	6.7			

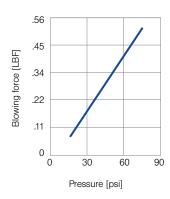
Jet pattern of 600.484 nozzle series

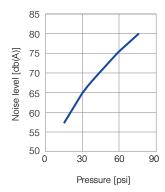


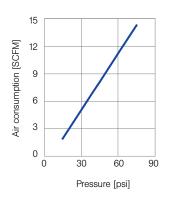












Ordering no.						
	Mat. no.	Connection				
Туре	56					
	POM	Quick connect 1/4" Male BSPP 1/4" Male NPT M12 x 1.25 coupling NW 5				
600. 484	0	AC	ВС	HG	00	

Example Type + Mat. no. + Conn. = Ordering no. of ordering: 600. 484. + 56 + AC = 600. 484. 56. AC



Multi-channel flat jet nozzles for air Whisperblast®, metalic versions **Series 600.130.1Y**



Series 600.130.1Y

The multi-channel flat jet nozzles of the 600.130 series generate a planar, powerful air jet. The noise level and air consumption remain low even at higher air pressures. In the stainless steel version (AISI 316L), these nozzles can therefore be used in applications with the highest loads.





Cost savings

24%

Noise reduction

22%



Material

Stainless steel AISI 316L



Blowing force



.45 LBF at 29 psi



Noise level 70 db(A) at 29 psi



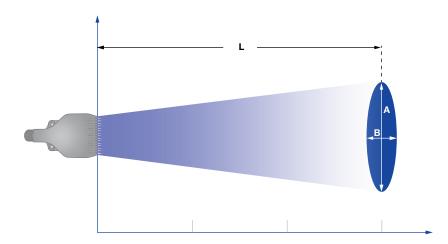
Air consumption V_{LN} =8 SCFM at 29 psi



Pressure $P_{max} = 145 \text{ psi}$

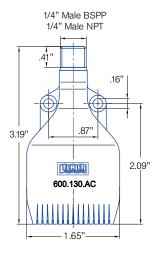


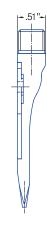
Max. temperature 550°C/ 1022°F

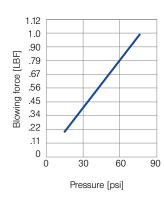


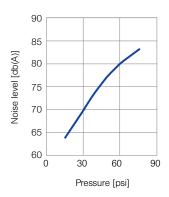
Jet pattern of 600.130 nozzle series

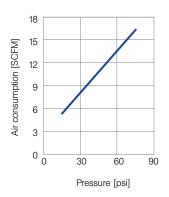
Pressure:	14.5 psi	44 psi	72.5 psi				
Distance L [in]:	11.8	16.7	23.6				
Jet dimensions at L							
A [in]:	3.9	5.5	6.7				
B [in]:	21	31	4.3				











Ordering no.				
	Mat. no.	Conn	ection	
Туре	1Y leeel			
	Stainless AISI 316L	1/4" Male BSPP	1/4" Male NPT	
600. 130	0	AC	ВС	

Example Type + Mat. no. + Conn. = Ordering no. of ordering: 600. 130. + 1Y + AC = 600. 130. 1Y. AC



Multi-channel flat jet nozzles for air Whisperblast®, metalic versions Series 600.283.42

Series 600.283.42

The multi-channel flat jet nozzles of the 600.283 series are made of aluminum and are capable of withstanding significantly higher thermal and mechanical loads than comparable air nozzles made of plastic. In addition, the blowing force also increases at higher air pressures, making this series suitable for very demanding applications.





Cost savings

19%

B [in]:



Noise reduction

18%



Material Aluminum



Blowing force .54 LBF at 29 psi



Noise level 76 db(A) at 29 psi





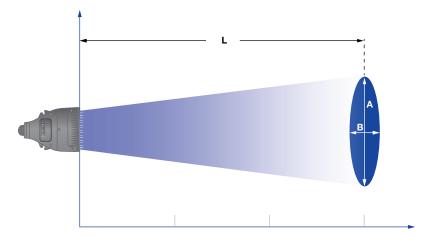
Air consumption V_{LN} =10.6 SCFM at 29 psi



Pressure P_{max}=145 psi



Max. temperature 200°C/392°F



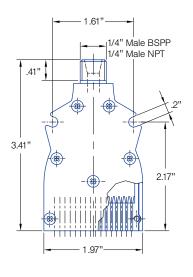
Jet pattern of 600.283 nozzle series

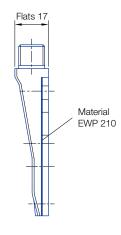
7.1

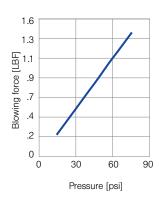
8.3

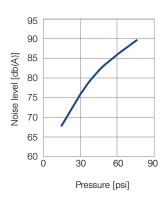
Pressure:	14.5 psi	44 psi	72.5 psi	
Distance L [in]: 29.5		35	35	
A [in]:	6.7	8.3	9.5	

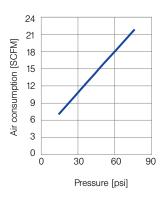
5.9











Ordering no.			
	Mat.	Connection	
	no.	Com	000011
	42		
Туре	Aluminum	1/4" Male BSPP	1/4" Male NPT
600. 283	0	AC	ВС

Example Type + Mat. no. + Conn. = Ordering no. of ordering: 600. 283. + 42 + AC = 600. 283. 42. AC



Multi-channel flat jet nozzles for air Whisperblast®, metalic versions Series 600.606.42

Series 600.606.42

The multi-channel flat jet nozzles of the 600.606 series are made of aluminum and are capable of withstanding significantly higher thermal and mechanical loads than comparable air nozzles made of plastic. In addition, the blowing force also increases at higher air pressures, making this series suitable for demanding applications.





Cost savings

21%

B [in]:



Noise reduction

18%



Material Aluminum



Blowing force .32 LBF at 29 psi





Noise level 68.5 db(A) at 29 psi



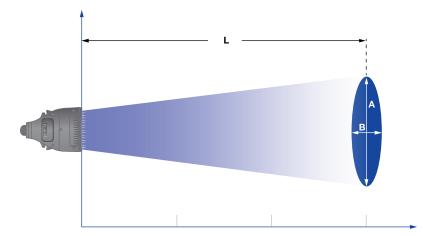
Air consumption V_{LN}=7 SCFM at 29 psi



Pressure P_{max}=145 psi

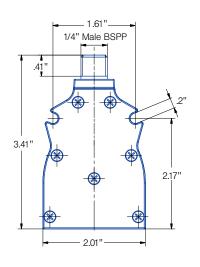


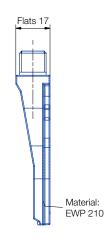
Max. temperature 200°C/392°F

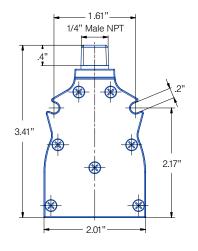


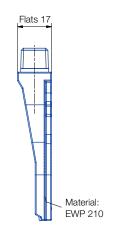
Jet pattern of 600.606 nozzle series

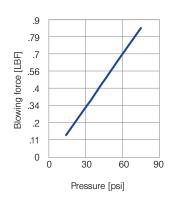
Pressure:	14.5 psi	44 psi	72.5 psi	
Distance L [in]:	24.6	35.4	36.4	
Jet dimensions at L				
A [in]:	5.7	8.3	8.3	

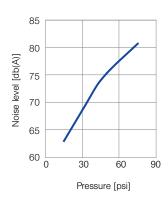


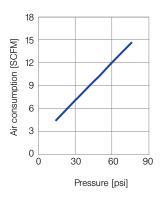












Ordering no.			
	Mat. no.	Connection	
	42		
Туре	Aluminum	1/4" Male BSPP	1/4" Male NPT
600. 606	0	AC	ВС

Example Type + Mat. no. + Conn. = Ordering no. of ordering: 600. 606. + 42 + AC = 600. 606. 42. AC

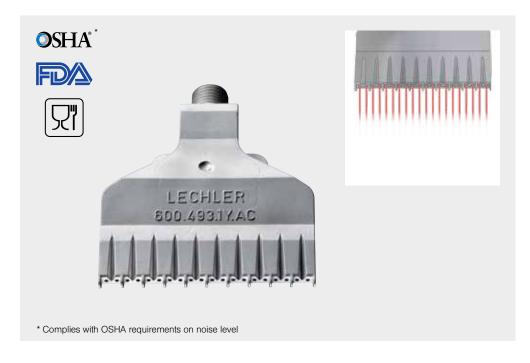


Multi-channel flat jet nozzles for air Whisperblast®, metalic versions Series 600.493.1Y



Series 600.493.1Y

The multi-channel flat jet nozzles of the 600.493 series generate an extremely wide, powerful air jet. Since this nozzle is made completely of stainless steel (AISI 316L), it meets even the highest thermal requirements. The projecting tips at the nozzle outlet prevent air penetration into human skin. These nozzles comply with the OSHA standards.





Cost savings

34%



Noise reduction

21%



Material

Stainless steel AISI 316L



Blowing force .94 LBF at 29 psi



Noise level 78 db(A) at 29 psi



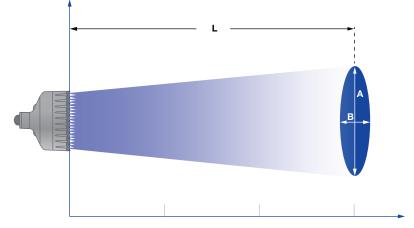
Air consumption

V_{LN}=17.7 SCFM at 29 psi



Pressure

 $P_{max} = 435 \text{ psi}$



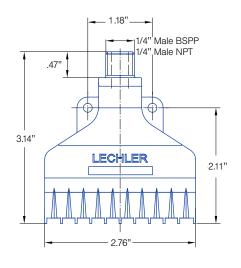


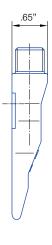


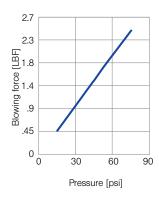
Max. temperature 550°C/ 1022°F

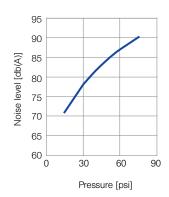
Pressure:	14.5 psi	44 psi	72.5 psi	
Distance L [in]:	35	35	35	
Jet dimensions at L				

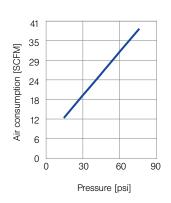
A [in]:	8.3	9.5	10.6
B [in]:	8.3	8.3	11.0











Ordering no.			
	Mat.	Connection	
	no.		
	1Y		
Туре	Stainless steel AISI 316L	1/4" Male BSPP	1/4" Male NPT
600. 493	0	AC	ВС

Example Type + Mat. no. + Conn. = Ordering no. of ordering: 600. 493. + 1Y + AC = 600. 493. 1Y. AC



Multi-channel flat jet nozzles for air Whisperblast®, metalic versions Series 600.562.1Y

Series 600.562.1Y

The multi-channel flat jet nozzles of the 600.562 series are ideal for applications with restricted space. In addition, the nozzle material (AISI 316L) makes them resistant to increased pressures and temperatures.

The projecting tips at the nozzle outlet prevent air penetration into human skin. These nozzles comply with the OSHA standards.





Cost savings

8%



Noise reduction

14%



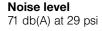
Material

Stainless steel AISI 316L



Blowing force .3 LBF at 29 psi







Air consumption

V_{LN}=5 SCFM at 29 psi

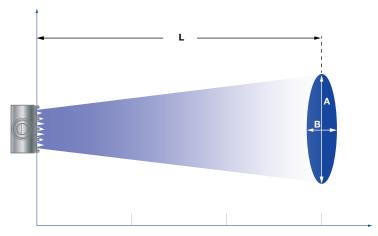


Pressure

 $P_{\text{max}} = 435 \text{ psi}$



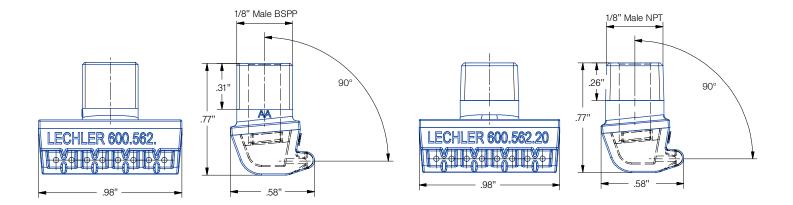
Max. temperature 550°C/ 1022°F

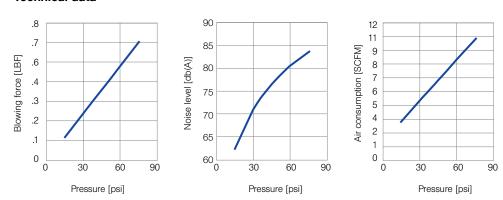


Jet pattern of 600.562 nozzle series

Pressure:	14.5 psi	44 psi	72.5 psi	
Distance L [in]:	20	33.4	35	
Jet dimensions at L				

A [in]:	4.5	7.9	9.1
B [in]:	3.9	6.1	7.5





Ordering no.				
	Mat. no.	Conection		
Туре	Stainless steel AL AISI 316L	1/8" Male BSPP	1/8" Male NPT	
600. 562*	0	10 –		
600. 562	0	-	20	

^{*}Also available with inclination angle 100°

Example Type + Mat. no. + Conn. = Ordering no. of ordering: 600. 562. + 1Y + 10 = 600. 562. 1Y. 10



Mini multi-channel flat jet nozzles for air **Series 600.382.35**

Series 600.382.35

The mini multi-channel flat jet nozzles of the 600.382 series generate a narrow, powerful air jet. Very accurate and economical operation is possible thanks to the narrow orifice.





Cost savings

15%



Noise reduction

12%



Materials

Brass nickel plated, PVC



Blowing force 5 LBF at 29 psi





Noise level 77.5 db(A) at 29 psi



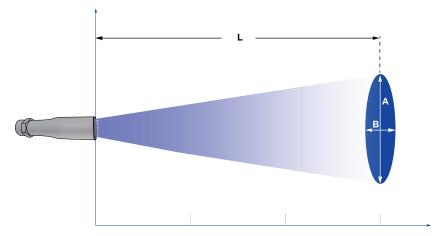
Air consumption V_{LN}=9 SCFM at 29 psi



Pressure P_{max}=145 psi



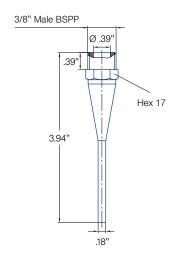
Max. temperature 50°C/ 122°F



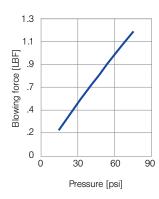
Jet pattern of 600.382.35 nozzle series

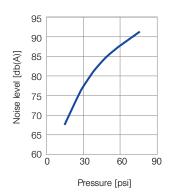
Pressure:	14.5 psi	44 psi	72.5 psi	
Distance L [in]:	18.7	32.5	35	
Jet dimensions at L				

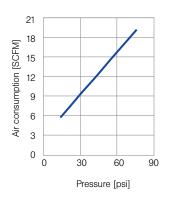
A [in]:	4.3	6.7	7.9
B [in]:	3.4	5.5	7.1











Ordering no.		
	Mat. no.	Connection
	35	
Туре	Brass nickel plated/ PVC	3/8" Male BSPP
600. 382	0	AE

Example	Туре	+	Mat. no.	+	Conn. =	Ordering no.
of ordering:	600. 382.	+	35	+	AE =	600. 382. 35. AE



Intensive multi-channel flat jet nozzles for air **Series 600.383.35**

Series 600.383.35

The intensive multi-channel flat jet nozzles of the 600.383 series generate a concentrated, powerful air jet. Due to the flattened design, the jet depth of this nozzle always remains constant even at changing pressures. This permits precise operation even under changing conditions.





Cost savings

8%

Noise reduction

10%



Materials

Brass nickel plated, PVC



Blowing force



1 LBF at 29 psi



Noise level 86 db(A) at 29 psi



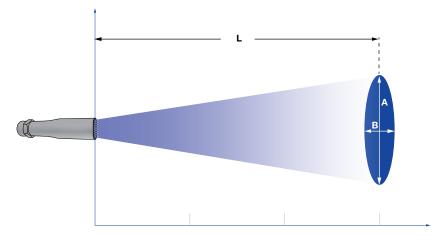
Air consumption V_{LN}=18 SCFM at 29 psi



Pressure P_{max} =145 psi



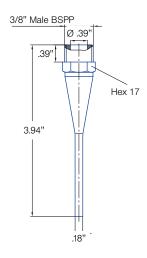
Max. temperature 50°C/ 122°F



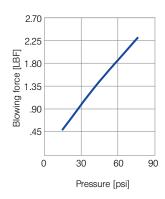
Jet pattern of 600.383.35 nozzle series

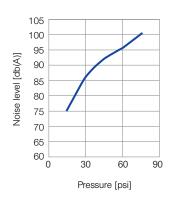
Pressure:	14.5 psi	44 psi	72.5 psi				
Distance L [in]:	35	35	35				
, let dimensions at l							

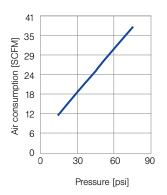
oct dimensions at E						
A [in]:	7.9	16.7	20			
B [in]:	9.1	9.1	9.1			











Ordering no.						
	Mat. no.	Connection				
Туре	Brass nickel gg plated / PVC	3/8" Male BSPP				
600. 383	0	AE				

Example	Type	+	Mat. no.	+	Conn.	=	Ordering no.
of ordering:	600. 383.	+	35	+	AE	=	600. 383. 35. AE

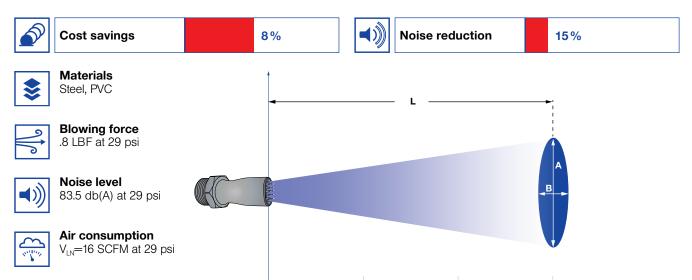


Compact multi-channel flat jet nozzles for air Series 600.386.01

Series 600.386.01

The compact multi-channel flat jet nozzles of the 600.386 series generate a concentrated, powerful air jet. The compact design of this series makes the nozzles particularly suitable for use in locations that are difficult to access. This permits precise operation in very small spaces.





Max. temperature 50°C/ 122°F

B [in]:

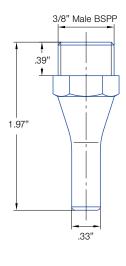
Pressure P_{max}=145 psi

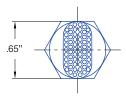
Pressure:	14.5 psi	44 psi	72.5 psi
Distance L [in]:	32.5	35	35
	Jet dimens	ions at L	
A [in]:	6.3	11.8	181

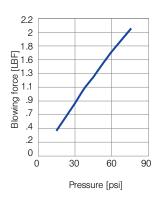
8.5

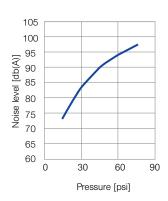
Jet pattern of 600.386.01 nozzle series

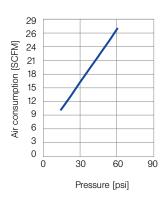
8.5











Ordering no.						
	Mat. no.	Connection				
Туре	Steel/ PVC	3/8" Male BSPP				
600. 386	0	AE				

Example Type + Mat. no. + Conn. = Ordering no. of ordering: 600. 386. + 01 + AE = 600. 386. 01. AE



Maxi multi-channel flat jet nozzles for air Series 600.385.35

Series 600.385.35

The maxi multi-channel flat jet nozzles of the 600.385 series generate a continuous very powerful air jet. Due to the large nozzle cross-section, this nozzle focuses large quantities of air into a concentrated jet that has a powerful impact even over large distances. Despite this, the noise level still remains low.





Cost savings

28 %



Noise reduction

15%



Materials

Brass nickel plated, PVC



Blowing force

2.6 LBF at 29 psi



Noise level

91.5 db(A) at 29 psi



Air consumption

 V_{LN} =59 SCFM at 29 psi

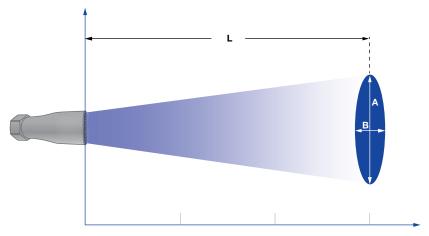


Pressure

 P_{max} =145 psi



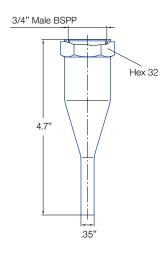
Max. temperature 50°C/ 122°F



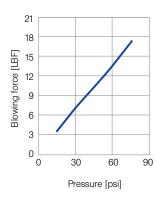
Jet pattern of 600.385.35 nozzle series

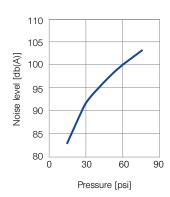
Pressure:	14.5 psi	44 psi	72.5 psi				
Distance L [in]:	30.5	30.5	30.5				
Jet dimensions at L							

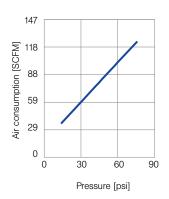
oot aimondono at E					
A [in]:	8.1	10	10.6		
B [in]:	7.9	9.7	10.6		











Ordering no.						
	Mat. no.	Connection				
	35					
Туре	Brass nickel plated/PVC	3/4" Male BSPP				
600. 385	0	AL				

Example	Type	+	Mat. no.	+	Conn. =	Ordering no.
of ordering:	600. 385.	+	35	+	AL =	600. 385. 35. AL



Flat jet slotted nozzle tips for air or saturated steam Series 679

Series 679

The flat jet nozzle tips of the 679 series are characterized by their wide, powerful air jet. Due to the special nozzle design, the jet angle is approx. 70° - 90°. Mounting with a retaining nut allows for an easy installation and alignment of the nozzles.

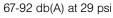




Materials Stainless steel AISI 316Ti, Brass



Noise level



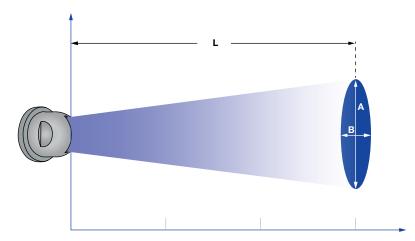


Air consumption see table



Pressure

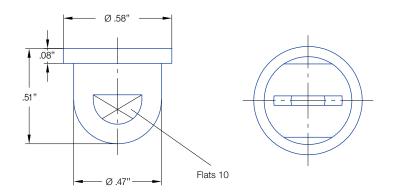
 P_{max} =145 psi



Jet pattern of 679 nozzle series

Pressure:		14.5 psi	44 psi	72.5 psi
679.037	679.037 Distance L [in]:		3.9	5.9
	A [in]:	4.3	10.2	15
	B [in]:	1	1.4	1.8
679.117	Distance L [in]:	1.9	4.9	5.9
	A [in]:	3.9	9.8	12.2
	B [in]:	1	1.2	1.4
679.255	Distance L [in]:	14.8	20	20
	A [in]:	3.5	7.5	11
	B [in]:	3.5	3.5	3.5

Pressure:		14.5 psi	44 psi	72.5 psi
679.415	679.415 Distance L [in]:		35	35
	A [in]:	6.3	11.8	18.1
	B [in]:	8.5	8.5	8.5
679.495	Distance L [in]:	35	35	35
	A [in]:	7.9	16.1	20.1
	B [in]:	9.1	9.1	9.1



Spray	Ordering no.			Equiv.								
angle		Mat. no.		Orifice diameter	Capacity for Air [Standard Cubic Feet per Minute]			Capacity for Saturated Steam [lb/hr]				
$\ A\ $	17 30		30	[in]	in]							
	Туре	AISI 316Ti	Brass		7 psi	29 psi	73 psi	145 psi	7 psi	29 psi	73 psi	145 psi
		4	ш		7 psi	20 psi	70 psi	140 psi	7 poi	20 poi	70 psi	140 pai
approx.	679. 037	-	0	.047	.9	1.8	3.5	6.5	2.6	5.1	10.1	18.3
70°-90°	679. 085	0	0	.051	1.2	2.4	4.7	8.7	3.5	6.8	13.4	24.4
	679. 117	0	0	.059	1.2	2.5	4.9	9.1	3.8	7.3	14.3	25.8
	679. 165	0	0	.071	1.5	3.0	6.1	11.1	4.4	9.0	17.6	31.5
	679. 255	0	0	.083	2.1	4.3	8.5	15.7	6.2	12.6	24.7	44.5
	679. 365	0	0	.110	3.7	7.5	15.0	27.4	11.0	22.0	43.1	77.7
	679. 415	0	0	.142	6.0	12.0	24.0	43.9	17.6	35.1	69.1	124.8
	679. 495	0	0	.169	9.2	18.3	36.6	67.1	27.3	54.6	106.8	192.6

Example Type + Mat. no. = Ordering no. of ordering: 679. 037. + 30 = 679. 037. 30. 00



Flat jet tongue-type nozzles for air or saturated steam Series 686

Series 686

The flat jet tongue-type nozzles of the 686 series are suitable for short blowing distances. The compact design allows for large jet widths even for small spaces. The versions in brass and stainless steel AISI 303 can also be used with high ambient temperatures.





Materials Stainless steel AISI 303, Brass



Noise level

73-84 db(A) at 29 psi



Air consumption



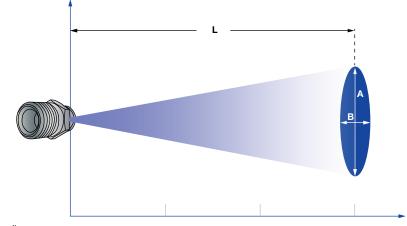


Pressure P_{max} = 435 psi



Max. temperature

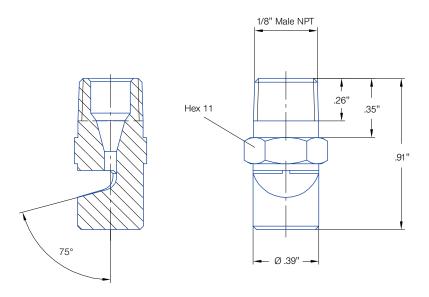
550°C/ 1022°F (Stainless steel) 240°C/ 464°F (Brass)



Jet pattern of	of 686	nozzle	series
----------------	--------	--------	--------

Pressure:		14.5 psi	44 psi	72.5 psi
686.408	Distance L [in]:	1.6	3.2	4.9
	A [in]:	1.4	2	2.4
	B [in]:	.6	1.6	2
686.528	686.528 Distance L [in]:		4.0	5.9
	A [in]:	3	5.5	8.3
	B [in]:	.8	1.6	2
686.608	Distance L [in]:	3.5	6.9	9.8
	A [in]:	5.7	9.1	13.8
	B [in]:	1	1.8	2.2

Pressure:		14.5 psi	44 psi	72.5 psi
686.688	686.688 Distance L [in]:		15.8	20.7
	A [in]:	9.1	22.1	29.1
	B [in]:	1.6	3.2	3.9
686.728	Distance L [in]:	7.1	9.1	14.8
	A [in]:	6.7	14.2	20.1
	B [in]:	2	2	2.8



Spray	Order	ing no.			Equiv.												
angle	Mat. no. Conn. 17 30		Mat. no. Conn.		Orifice diameter	Capacity for Air [Standard Cubic Feet per Minute]			Capacity for Saturated Steam								
$\ A\ $			[in]	[in]													
	Туре	AISI 316Ti	Brass	1/8" Male NPT		10 psi	20 psi	40 psi	60 psi	80 psi	100 psi	10 psi	20 psi	40 psi	60 psi	80 psi	100 psi
approx.	686. 408	0	0	ВА	.039	.4	.5	.8	1.1	1.4	1.7	1.8	2.4	3.5	4.6	5.7	6.6
70°	686. 488	0	0	ВА	.051	.6.2	.9	1.4	1.9	2.4	2.9	2.6	3.7	5.7	7.5	9.3	11
	686. 528	0	0	ВА	.059	.9	1.1	1.9	2.5	3.2	3.8	3.5	5.1	7.5	10	12	14
	686. 568	0	0	ВА	.067	1.0	1.5	2.4	3.4	4.2	5.0	4.6	6.6	10	13	16	19
	686. 608	0	0	BA	.075	1.3	1.8	3.0	4.2	5.3	6.2	5.7	8.2	13	17	20	24
	686. 688	0	0	BA	.094	2.2	2.9	4.7	6.6	8.3	9.9	9.0	13	20	26	32	37
	686. 728	0	0	BA	.106	4.0	5.0	7.9	11	14	17	9.9	16	24	32	39	47
	686. 808	0	0	ВА	.134	6.1	8.0	13	18	23	27	16	25	39	50	62	74

Example Type + Mat. no. + Conn. = Ordering no. of ordering: 686. 408 + 16 + BA = 686. 408. 16. CA



Multi-channel round jet nozzles for air **Series 600.326.5K**

Series 600.326.5K

The multi-channel round jet nozzles of the 600.326 series generate a powerful, circular air jet. The noise level and air consumption remain low even at higher air pressures. The special geometry at the nozzle outlet prevents air penetration into human skin. These nozzles comply with the OSHA standards.





Cost savings

9 %

B [in]:

Noise reduction

17%



Material ABS



Blowing force .5 LBF at 29 psi



Noise level



74 db(A) at 29 psi



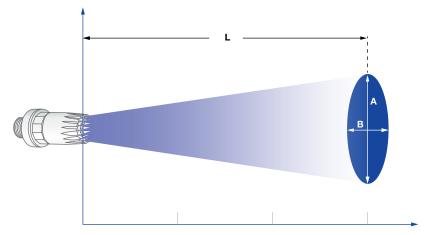
Air consumption V_{LN} =8 SCFM at 29 psi



Pressure $P_{max} = 87 \text{ psi}$



Max. temperature 50°C/ 122°F



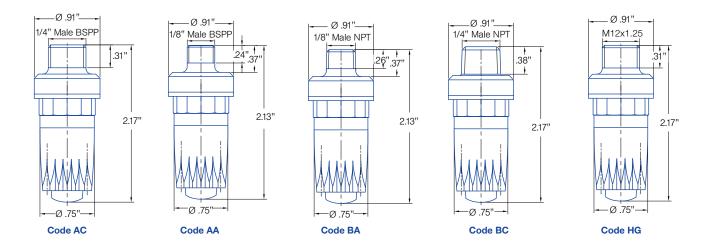
Jet pattern of 600.326.5K nozzle series

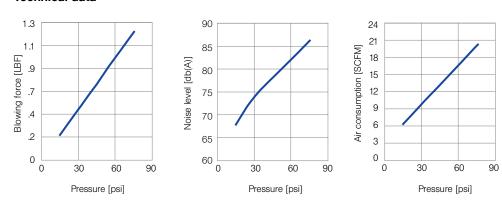
Pressure:	14.5 psi	44 psi	72.5 psi				
Distance L [in]:	28	35	35				
Jet image dimensions at L							
Δ [in]:	63 87		10.2				

8.7

10.2

6.3





Ordering no.				
Туре	Conn.	Connection thread		
600. 326. 5K	00. 326. 5K AC			
(Material: ABS)	AA	1/8" Male BSPP		
	BA	1/8" Male NPT		
	ВС	1/4" Male NPT		
	HG	M12 x 1.25		

Example	Туре	+	Conn.	=	Ordering no.
of ordering:	600. 326. 5K	+	ВС	=	600. 326. 5K. BC



Multi-channel round jet nozzles for air Series 600.326.3W

Series 600.326.3W

The multi-channel round jet nozzles of the 600.326 series generate a powerful, circular air jet. The noise level and air consumption remain low even at higher air pressures. The zinc version permits use at increased pressure and temperature. The special geometry at the nozzle outlet prevents air penetration into human skin. These nozzles comply with the OSHA standards.





Cost savings

8 %

■)

Noise reduction

17%



Material





Blowing force .5 LBF at 29 psi



Noise level 79 db(A) at 29 psi



Air consumption V_{LN}=9 SCFM at 29 psi

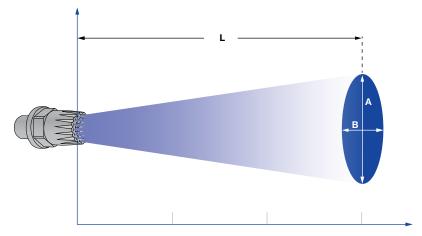




Pressure P_{max}=145 psi



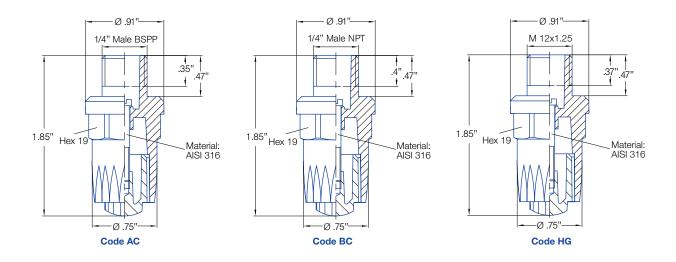
Max. temperature 90°C/ 194°F

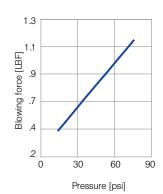


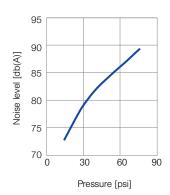
Jet pattern of 600.326.3W nozzle series

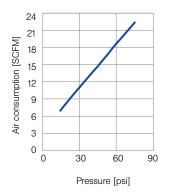
Pressure:	14.5 psi	44 psi	72.5 psi			
Distance L [in]:	28	35	35			
Jet image dimensions at L						

A [in]:	6.3	8.7	10.2
B [in]:	6.3	8.7	10.2









Ordering no.			
Туре	Connection thread		
	AC	1/4" Male BSPP	
600. 326. 3W (Material: Zinc GD-Z410)	ВС	1/4" Male NPT	
(Material: Zillo GB-Z-10)	HG	M 12x1.25	

Example	Туре	+	Conn.	=	Ordering no.
of ordering:	600. 326. 3W	+	AC	-	600. 326. 3W. AC



Mini multi-channel round jet nozzles for air Series 600.388.30

Series 600.388.30

The mini multi-channel round jet nozzles of the 600.388 series generate a point of concentrated air even at large distances. The compact design of this series makes the nozzles particularly suitable for use in locations that are difficult to reach. The special design at the nozzle outlet prevents air penetration into human skin. These nozzles comply with the OSHA standards.





Cost savings

7%



Noise reduction

8%



Materials

Brass, POM



Blowing force .2 LBF at 29 psi



Noise level 77 db(A) at 29 psi





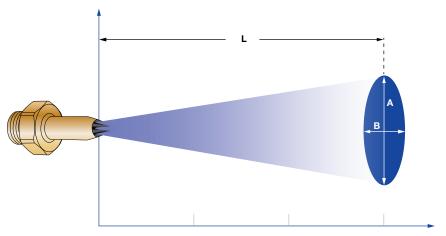
Air consumption V_{LN} =5 SCFM at 29 psi



Pressure P_{max} =145 psi



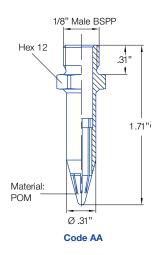
Max. temperature 50°C/ 122°F

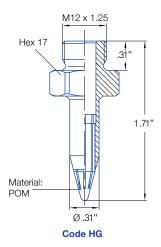


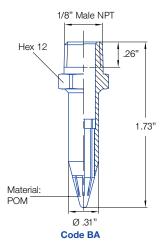
Jet pattern of 600.388 nozzle series

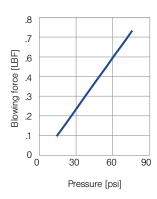
Pressure:	ssure: 14.5 psi		72.5 psi				
Distance L [in]:	20	28	35				
Jet image dimensions at L							
A fin]:	5.1	70	10.2				

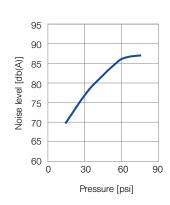
A [in]:	5.1	7.3	10.2
B [in]:	5.1	7.3	10.2

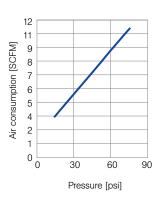












Ordering no.	Connection thread		
Туре			
	AA	1/8" Male BSPP	
600. 388. 30 (Material: Brass/POM)	HG	M 12 x 1.25	
(Material Brass/1 Sill)	BA	1/8" Male NPT	

Example	Туре	+	Conn.	=	Ordering no.
of ordering:	600. 388. 30	+	AA	=	600. 388. 30. AA



Micro multi-channel round jet nozzles for air Series 600.625.1Y

Series 600.625.1Y

The micro multi-channel round jet nozzles of the 600.625 series generate a powerful, point of air jet. Due to its ultra-compact design, this nozzle is particularly suitable for use in locations that are difficult to reach. Since this nozzle is made completely of stainless steel AISI 316L, it meets even the highest thermal requirements. The special design at the nozzle outlet prevents air penetration into human skin. These nozzles comply with the OSHA standards.







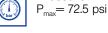
Noise level 63-70 db(A) at 29 psi



Air consumption $V_{LN}=1-2$ SCFM at 29 psi

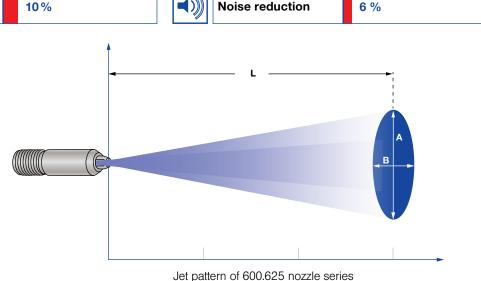


Pressure





Max. temperature 550°C/ 1022°F

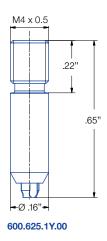


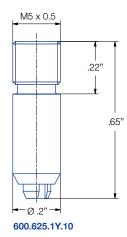
600.	Pressure:		14.5 psi	44 psi	72.5 psi
	600.625.1Y.00	Distance L [in]:	9	16	20
		A [in]:	2.4	3.4	4.3
		B [in]:	2.4	3.4	4.3
	600.625.1Y.10	Distance L [in]:	13.8	24	32.5
		A [in]:	3.2	4.3	6.1

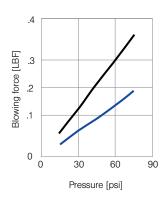
4.3

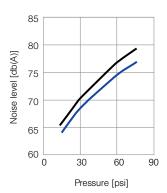
3.2

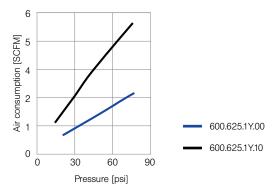
B [in]:











Ordering no.	Ordering no.						
	Mat. no.	Connecti	on thread				
	1Y						
Туре	Stainless steel AISI 316L	M4 x 0.5	M5 x 0.5				
600. 625	0	00	-				
600. 625	0	-	10				

Example Type + Mat. no. + Conn. = Ordering no. of ordering: 600. 625 + 1Y + 00 = 600. 625. 1Y. 00

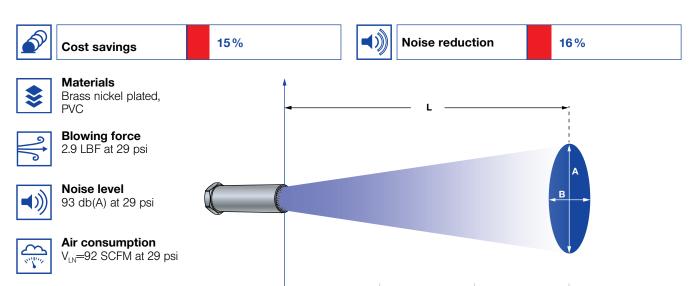


Maxi multi-channel round jet nozzles for air Series 600.387.35

Series 600.387.35

The maxi multi-channel round jet nozzles of the 600.387 series generate a circular, very powerful air jet. Due to the large nozzle cross-section, these nozzles focus large quantities of air into a concentrated jet that has a powerful impact even over large distances. In spite of this, the noise level still remains low.



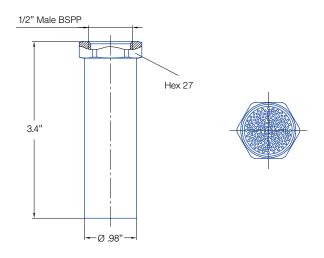


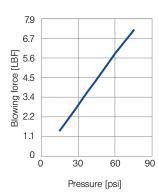
Max. temperature 50°C/ 122°F

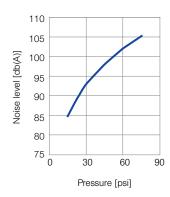
Pressure $P_{max} = 87 \text{ psi}$

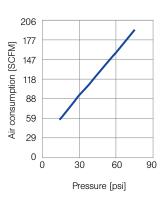
Pressure:	14.5 psi	14.5 psi 44 psi									
Distance L [in]:	31.5	31.5	31.5								
Jet dimensions at L											
A [in]:	8.7	10	12.2								
B [in]:	8.7	10	12.2								

Jet pattern of 600.387 nozzle series









Ordering no.									
	Mat. no.	Connection							
Туре	Brass nickel plated, 52 PVC	1/2" Male BSPP							
600. 387	0	АН							

Example Type + Mat. no. + Conn. = Ordering no. of ordering: 600. 387. + 35 + AH = 600. 387. AH. 00



Solid jet nozzles for air or saturated steam Series 544

Series 544

The solid jet nozzles of the 544 series generate a targeted solid jet of air. These nozzles are from Lechler's standard range, which offer a large choice of different performance ratings. The stainless steel version of this series also permits use at higher temperatures.





Material Stainless steel **AISI 303**



Blowing force

.06-.65 LBF at 29 psi



Noise level

65-90 db(A) at 29 psi



Air consumption

see table



Pressure

 $P_{max} = 435 \text{ psi}$



Max. temperature

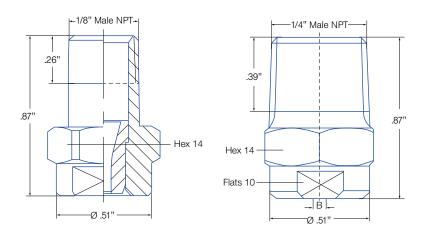
550°C/ 1022°F

Pressure:		14.5 psi	44 psi	72.5 psi
544.360	Distance L [in]:	6.9	12.8	15.8
	A [in]:	2	3	4
	B [in]:	2	3	4
544.480	Distance L [in]:	9.8	15.8	18.7
	A [in]:	2.8	4.7	5.9
	B [in]:	2.8	4.7	5.9
544.640	Distance L [in]:	15.8	25.6	32.5
	A [in]:	4.1	6.9	9
	B [in]:	4.1	6.9	9

	L	BA

Jet pattern of 544 nozzle series

Pressure:		14.5 psi	44 psi	72.5 psi
544.800	Distance L [in]:	29.5	35	35
	A [in]:	7.1	10.2	11
	B [in]:	7.1	10.2	11



Ordering	no.			Orifice											
	Mat. no.	Co	nn.	diameter [in]	[Sta	Capacit andard Cubic	y for Air Feet per Mini	ute]	Capacity for Saturated Steam [lb/hr]						
	16								-						
Туре															
	AISI 303	1/8 NPT	1/4 NPT		10 psi	25 psi	50 psi	75 psi	10 psi	25 psi	50 psi	75 psi			
				0.44	·	·	·	· ·	·	·	·	·			
544. 360	0	BA	ВС	.041	.5	.6	.9	1.3	1.1	2.4	5.8	5.0			
544. 400	0	BA	BC	.051	.6	1.0	1.6	2.3	2.4	5.6	8.3	8.4			
544. 480	0	BA	ВС	.052	.8	1.4	2.1	3.0	3.6	6.1	9.0	13			
544. 560	0	BA	ВС	.065	1.2	2.2	3.5	4.8	5.3	8.2	13	19			
544. 640	0	BA	ВС	.082	2.1	3.4	5.5	7.7	9.5	15	22	32			
544. 720	0	BA	ВС	.104	3.8	5.7	9.7	13	15	20	32	45			
544. 800	0	BA	ВС	.130	5.9	9.1	15	20	21	33	54	75			

Example Type + Mat. no. + Conn. = Ordering no. of ordering: 544. 360 + 16 + BA = 544. 360. 16. BA



Multiple solid stream nozzles for air or saturated steam Series 540 / 541

Series 540 / 541

The multiple solid stream nozzles of the 540/541 allow delivery of gases and other media at an angle of approx. 240° through 40 individual holes. Due to their robust design, these nozzles can be used under difficult conditions, including being immersed in liquid media.





Material Stainless steel AISI 303



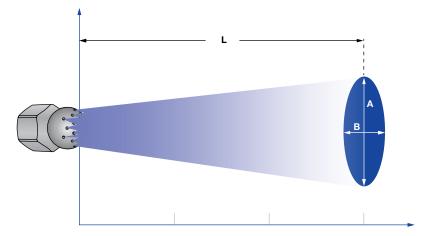
Air consumption see table



Pressure P_{max}=145 psi

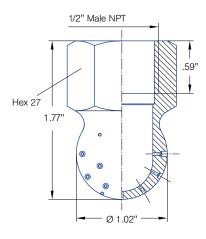


Max. temperature 200°C/ 392°F



Jet pattern of 540 / 541 nozzle series

Pressure:		14.5 psi	44 psi	72.5
540.909	Distance L [in]:	14.8	28.5	33.5
	A [in]:	3.2	6.3	6.7
	B [in]:	3.2	6.3	6.7
541.109	Distance L [in]:	31.5	31.5	31.5
	A [in]:	7.7	11.4	12.8
	B [in]:	7.7	11.4	12.8
541.239	Distance L [in]:	31.5	31.5	31.5
	A [in]:	8.7	8.9	10.2
	B [in]:	8.7	8.9	10.2



Spray	Ordering no.			Orifice										
angle		Mat. no.	Conn.	diameter [in]	[Sta	Capacity for Air [Standard Cubic Feet per Minute]				Capacity for Saturated Steam				
$\ A\ $		16					- ,							
	Туре													
		AISI 303	1/2 NPT		15 psi	29 psi	44 psi	73 psi	15 psi	29 psi	44 psi	73 psi		
approx.	540. 909	0	ВН	.032	13.4	20.1	26.8	40.2	14.7	21.7	29.1	43.6		
240°	540. 989	0	ВН	.039	20.9	31.4	41.8	62.7	22.9	33.7	45.4	67.9		
	541. 109	0	ВН	.059	49.0	73.5	98.0	147.0	53.8	79.3	106.6	159.4		
	541. 189	0	ВН	.079	76.3	114.5	152.6	229.0	83.9	123.7	166.3	248.6		
	541. 239	0	BH	.091	98.4	147.6	196.8	295.2	107.5	158.5	213.2	318.8		

Example Type + Mat. no. + Conn. = Ordering no. of ordering: 540. 909 + 16 BH = 544. 360. 16. BH

Accessories Ball joints / Nuts

Ball joints

For swivel mounting, Lechler ball joints can be used with low-noise flat jet and round jet nozzles. 30° swivel range in all directions. No wearing seals, long-term problem free operation, even with frequent adjustment.



Ordering no.				Dimensions [in]						
	Ma	terial	no.							
Туре	303 SS/316 SS 303 SS Brass					Weight (Brass) lb.				
	ຕ 16	ෆ 16	30	Inlet	Outlet	D ₁	D ₂	Largest HEX	L	Weig
092. 010. xx. BB. BB	-	0	0	1/8" Female NPT	1/8" Female NPT	-	-	7/8	1.70	.09
092. 020. xx. BD. BD	-	0	0	1/4" Female NPT	1/4" Female NPT	-	-	1-1/16	2.37	.13
092. 021. xx. BF. BD	-	0	0	3/8" Female NPT	1/4" Female NPT	-	-	1-1/16	2.30	.18
092. 030. xx. BF. BF	-	0	0	3/8" Female NPT	³ / ₈ " Female NPT	-	-	1-1/8	2.23	.18



092. 020. xx. SD. BB	0	-	-	-	1/8" Female NPT	.79	.59	1-1/16	2.53	.13
092. 030. xx. SF. BF	0	-	-	-	3/8" Female NPT	.87	.59	1-3/16	2.31	.18

Example Type + Material no. (xx) = Ordering no. for ordering: 092. 010. xx. BB. BB + 16 = 092. 010. 16. BB. BB

Retaining nuts

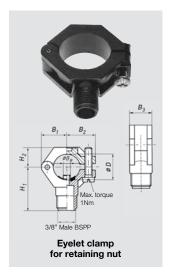


Ordering no								
Туре		terial			[in	u.		rass) lb.
	SS 508 SS 918 SS		00 Brass	For thread G ₁	H ₁	D ₁	Hex	Weight (Brass) lb.
065. 200	0	0	0	³/ ₈ " BSPP	.51	-	1/2"	.06
065. 600	0	0	0	3/ ₄ " BSPP	.51	-	11/4"	.13

Example Type + Material no. = Ordering no. for ordering: 065. 200 + 17 = 065. 200. 17

Accessories Eyelet clamps / Double nipples

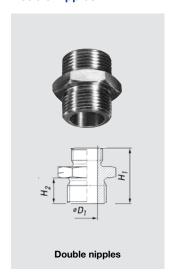
Eyelet clamps



Ordering no.					Dimensions [in]								
	Material no.			μη									
Туре	uoján 51	dd 53	5E	Screw (Material)	Pipe ø	Drill hole diameter	B _R	В ₁	B ₂	B_{3}	H ₁	H ₂	Weight (Nylon)
090. 053	0	0	0	303 SS	3/8"	1/4"	.25	.75	.87	.73	1.36	.57	.05
090. 003	0	0	0		1/_"	1/4"	.25	.84	.94	.73	1.44	.65	.05
090. 013	0	0	0		3/4"	5/ ₁₆ "	.31	.96	1.05	.87	1.56	.69	.06
090. 023	0	0	0		1"	7/ ₁₆ "	.43	1.18	1.22	.87	1.73	.83	.07
090. 033	0	0	0		1 1/4"	1/2"	.51	1.34	1.40	.99	1.89	.99	.09

Example Type + Material no. = Ordering no. for ordering: 090. 053 + 51 = 090. 053. 51

Double nipples



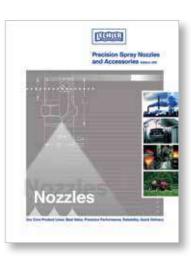
Ordering r	Dimensions												
	Material no.				[in]								
Туре	pels Steel	316 SS 17	00 Brass	dd 53								Weight (Brass) Ib.	
065. 215. xx. 11	-	0	0	-	1/4" Male NPT	3/8" Male BSPP	1.44	.56	-	-	-	11/16	.06
065. 215. xx. 12	-	0	0	-	3/8" Male NPT	3/8" Male BSPP	1.38	.50	-	-	-	11/16	.06
065. 211. xx. 15	-	0	0	-	1/2" Male NPT	3/8" Male BSPP	1.38	.50	-	-	-	7/8	.06
065. 221. xx. 11	-	0	0	-	1/2" Female NPT	3/8" Male BSPP	1.25	.56	-	-	-	11/16	.06
065. 215. xx. 10	-	0	0	-	1/4" Male NPT	¹¹ / ₁₆ "-16	1.44	.56	-	-	-	11/16	.06
065. 211. xx. 10	-	0	0	-	³ / ₈ " Male NPT	11/16"-16	1.25	.50	-	-	-	11/16	.06
065. 211. xx. 14	-	0	0	-	1/2" Male NPT	11/16"-16	1.38	.50	-	-	-	7/8	.06
065. 221. xx. 10	-	0	0	-	1/ ₄ " Female NPT	11/16"-16	1.25	.56	-	-	-	11/16	.06
065. 220. xx. 10	-	0	0	-	3/8" Female NPT	¹¹ / ₁₆ "-16	1.25	.54	-	-	-	7/8	.06

Example Type + Material no. (xx) = Ordering no. for ordering: 065. 215. xx. 11 + 17 = 065. 215. 17. 11

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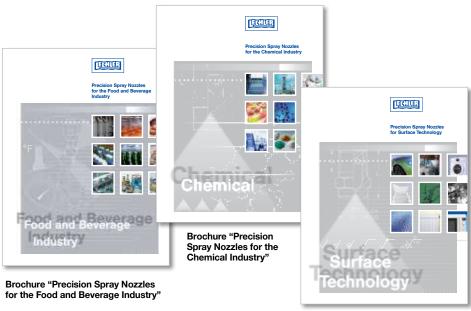


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Brochure "Precision Spray Nozzles for Surface Technology"

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