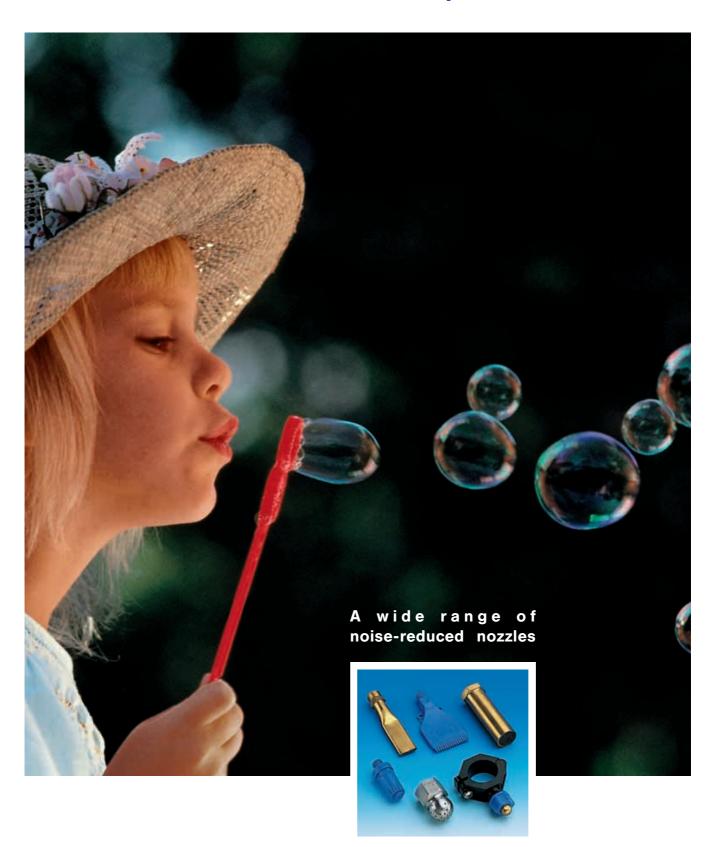


Nozzles and Accessories for Compressed Air

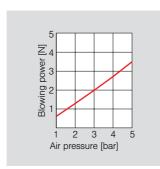


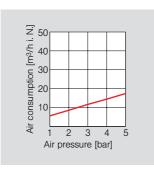
Compressed Air can Make the Process More Efficient

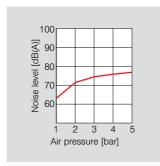
In many industries compressed air is a vital aid for drying, cooling and transporting, blowing-off and cleaning, loosening and mixing and assists thereby the economical realization of processes. The range of applications has not reached its limit. In all these applications two aspects should be taken into consideration: Generating compressed air requires money and the high-frequency noise, this occurs mainly at high pressures and by using single orifice nozzles and can damage hearing. Therefore it is necessary to use compressed air as economically as possible and to use modern technics of low noise.

Lechler has combined its total know-how of nozzle technology, the practical experience concerning applications and newest trends of research and has provided a special offer to this subject. Should it not be possible for you to find a solution for a special case within this wide range, please contact our specialists.

Example for measuring

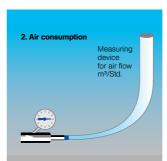


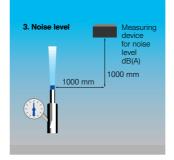




Measuring method







Blowing power, air consumption and noise level are the three decisive criterions for the selection of air nozzles. In order to reach comparable values Lechler uses measuring methods, which are typical in the industry.

Modern Nozzle Technics for More Efficiency and Less Noise.

By the development of new multiple spray nozzles with specially formed nozzle orifices, the noise causing turbulences at the air exit have been considerably reduced; at the same time an improvement of the efficiency was reached by the nozzle construction. Thus it is possible to reduce the air pressure – and also the air consumption – but maintain a constant blowing power.

This positive effect was reached mainly by dividing the air stream into smaller air streams. Hereby the incoming compressed air is led evenly into air channels, which are favourably arranged with regard to streaming. The result is a particularly even and powerful total air stream.

The advantages for practical use are convincing:

More comfortable working conditions

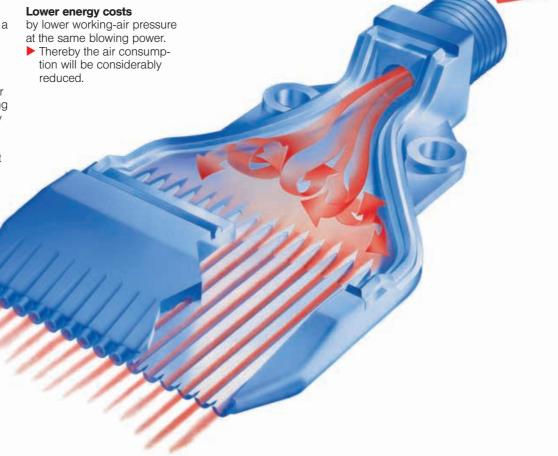
by reducing the noise level by up to 12 dB.

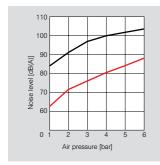
This corresponds to a reduction by a half of the noise for the human ear.

Higher capacity

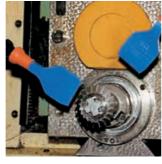
by better blowing power from larger distances and by an evenly directed air stream.

► Thereby the efficiency will be considerably increased. This new technology of using compressed air offers new areas for application.











The new Lechler compressed air nozzles have already proven successful in practice in many operations.



Low-noise flat jet nozzles



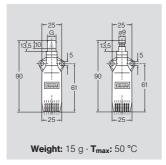


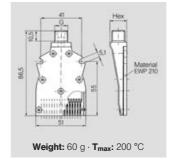


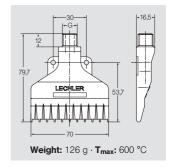












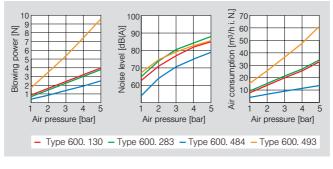
Multiple spray flat jet nozzle series 600. 130 / 600. 484 / 600. 283 / 600. 493

- Powerful air stream, directed on the surface
- Low noise level
- Low air consumption
- Standard nozzle with a big variety of applications
- Aluminium version for high mechanical/thermal stress

Applications:

Blowing-off, cleaning, drying, cooling, transporting.





Ordering n	0.	Thread connection G	Accessories
Туре	Code		
600. 130. 56	ВС	1/4 NPT	
(material:	AC	G 1/4 A ISO 228	
POM)	02	G 1/4 A ISO 228	Plug
	01	G 1/4 A ISO 228	Plug
			Hose nipple
			(D = 8 mm),
			Clamping piece, steel
			(L = 85 mm)
600. 484. 56	AC	G 1/4 A ISO 228	
(material:	BC	1/4 NPT	
POM)	HG	M12 x 1,25	
	00	Quick Connection	
		NW5	
600. 283. 42	AC	G 1/4 A ISO 228	
(material:	BC	1/4 NPT	
aluminium)			
600. 493. 1Y	AC	G 1/4 A ISO 228	
(material: stain-	BC	1/4 NPT	
less steel 316L)			

Example	Туре	+ Code	=	Ordering no.
for ordering:	600. 130. 56	+ AC	=	600. 130. 56. AC



Nozzle row see page 12



Low-noise flat jet nozzles

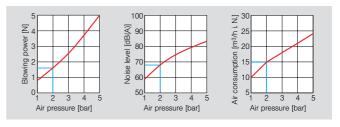


Mini-flat jet nozzle type 600.382.30.AE

Exceptionally low air consumption

Weight: 35 g ⋅ **T**_{max}: 90°C **V**_{Air}: 15 m³/h at 2 bar **Connection:** ³/8 BSPP



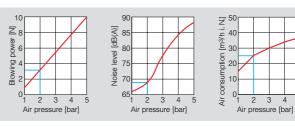


Intensive-flat jet nozzle type 600.383.30.AE

Exceptionally high blowing power

Weight: $36 \text{ g} \cdot T_{\text{max}}$: 90°C \dot{V}_{Air} : $25 \text{ m}^3\text{/h}$ at 2 bar Connection: 3/8 BSPP



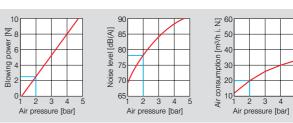


Compact-flat jet nozzle type 600.386.01.AE

 Exceptionally short form for narrow positions

Weight: 38 g · **T**_{max}: 90°C **V**_{Air}: 20 m³/h at 2 bar **Connection:** ³/8 BSPP



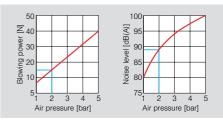


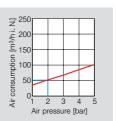
Maxi-flat jet nozzle type 600.385.30.AL

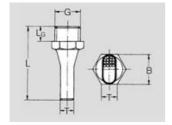
Suitable for low-noise blowing of big air quantities

Weight: 155 g \cdot T_{max}: 90°C $\dot{\mathbf{V}}_{Air}$: 51 m³/h at 2 bar Connection: 3 /4 BSPP









Ordering no.	Material	G BSPP	L [mm]	L _G [mm]	S [mm]	T [mm]
600. 382. 30 AE	Brass/PVC	3/8	100	10	21,5	4,5
600. 383. 30. AE	Brass/PVC	3/8	100	10	21,0	6,0
600. 386. 01. AE	Steel/PVC	3/8	50	10	16,5	8,5
600. 385. 30. AL	Brass/PVC	3/4	120	-	43,0	9,0



Low-noise round jet nozzles

Multiple round jet nozzle series 600.326

- Powerful, focused impinging air stream
- Low noise level
- Low air consumption
- Standard nozzle with big varieties of application
- Mainly suitable in connection with an usual hand held air gun

Applications:

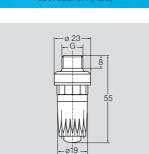
Precise blowing-off, drying and cooling.

Zinc-version is not for use with steam or in steam atmosphere.



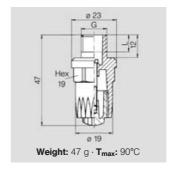
Type 600.326.5K.HG in connection with typical compressed air gun

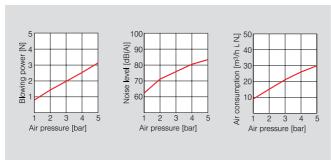




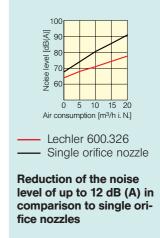
Weight: 9 g \cdot T_{max}: 50°C







Ordering no.		Thread connection G
Туре	Code	
600. 326. 5K	BA	1/8 NPT
(Material: ABS)	BC	1/4 NPT
	AC	1/4 BSPP
	HG	M 12 x 1,25
600. 326. 3W	AC	1/4 BSPP
(Material: Zinc)	HG	M 12 x 1,25



► Reduction of noise up to 60 %.



Example Type + Code = Ordering no. for ordering: 600. 326. 5K + AC = 600. 326. 5K. AC



Low-noise round jet nozzles

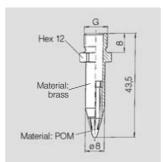
Mini-multiple round jet nozzles

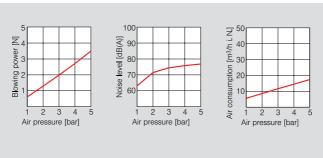
series 600.388

- Particularly high blowing
- Compact form
- Mainly suitable for positions where access is limited and also for blowingout blind holes

Material: Brass/POM Weight: 12 g · T_{max}: 50°C







Orderin	g no.		Thread connection G					
Туре		Code						
600. 388. 30)	AA	1/8 BSPP					
(Material: Brass/	POM)	HG		M 12 x 1,25				
Example for ordering:	Type 600. 38	88. 30	+ Code + AA	= Ordering no. = 600. 388. 30. AA				

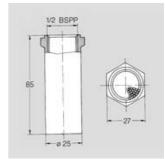
Maxi-multiple round jet nozzle type 600.387.30.AH

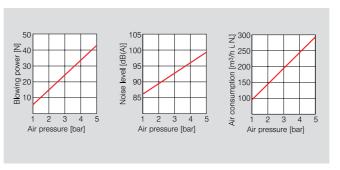
Particularly high blowing power, even for long

distances

Material: Brass/PVC Weight: 100 g · T_{max}: 90°C







Compressed Air Nozzles for Special Applications

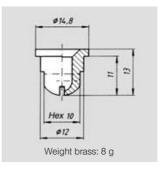


Flat jet slot nozzles

Flat jet slot nozzle for air and saturated steam series 679

- Wide, strong air stream
- Easy, adjustable mounting
- Easy, spray adjustment



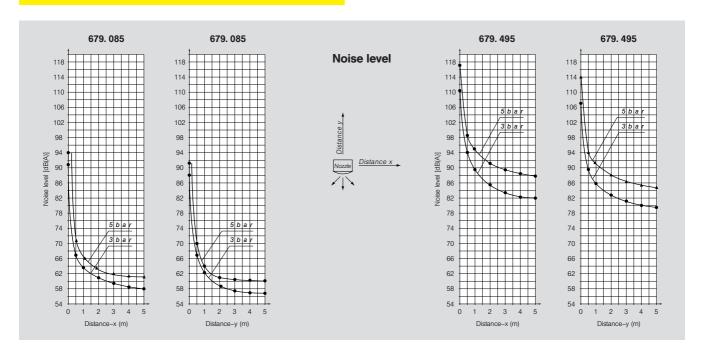




Ordering	no.		A		۷n Air[n	n3/h i. N.]		M Saturated steam [kg/h]					
Туре	Mat	. no.	Ø [mm]										
	17	30											
					p [bar]			p [t	oar]			
	=	ဟ											
	1.4571	Brass		0,5	2,0	5,0	10,0	0,5	2,0	5,0	10,0		
679. 037	_	0	1,2	1,40	2,60	5,40	11,00	0,50	1,50	3,20	6,10		
679. 085	0	0	1,3	1,20	3,00	6,00	11,10	0,90	1,90	3,70	6,70		
679. 117	0	0	1,5	1,70	3,50	7,80	15,00	0,80	2,30	5,10	9,50		
679. 165	0	0	1,8	2,20	5,30	10,70	19,50	1,70	3,30	6,60	11,80		
679. 255	0	0	2,1	3,20	7,90	15,70	28,80	2,50	4,90	9,70	17,50		
679. 365	0	0	2,8	5,40	13,10	26,20	48,10	4,10	8,20	16,10	29,10		
679. 415	0	0	3,6	8,90	21,70	43,30	79,40	6,80	13,60	26,70	48,10		
679. 495	0	0	4,3	13,40	32,80	65,60	120,20	10,30	20,60	40,40	72,90		

A = equivalent bore diameter

Example	Туре	+ Mater	ial no. =	Ordering no.
for ordering:	679. 037	+ 30	=	679. 037. 30







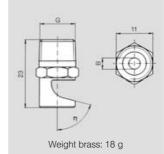
Compressed Air Nozzles for Special Applications

Flat jet tongue type nozzles / Multiple solid jet nozzles

Flat jet tongue type nozzle for air and saturated steam series 686

- Air stream on an extremely wide area
- Suitable for short blowing distances





Orderi	ng no			В	η		Vn Air [n	n3/h i. N.]			M Saturated	steam [kg/h]		
Туре	Mat	. no.	Code	[mm]										
	16	30	вѕрт											
			Ba				p [l	bar]			p [t	oar]		
	1.4305	Brass	1/8			1,0	2,0	5,0	10,0	1,0	2,0	5,0	10,0	
686. 408		0	CA	1,0	75°	0,70	1,00	2,10	3,70	0,90	1,30	2,40	4,00	
686. 488	0	0	CA	1,3	75°	1,20	1,70	3,60	6,20	1,40	2,10	3,90	6,50	
686. 528	0	0	CA	1,5	75°	1,60	2,30	4,80	8,40	1,90	2,80	5,20	8,70	
686. 568	0	0	CA	1,7	75°	2,00	3,00	6,30	11,00	2,50	3,70	6,90	11,50	
686. 608	0	0	CA	1,9	75°	2,50	3,70	7,80	13,50	3,10	4,60	8,60	14,30	
686. 688	0	0	CA	2,4	75°	4,00	5,90	12,40	21,50	4,90	7,30	13,60	22,70	
686. 728	0	0	CA	2,7	75°	7,10	10,00	21,20	38,20	5,70	9,20	16,40	29,20	
686. 808	0	0	CA	3,4	75°	11,20	16,00	33,70	60,60	9,00	14,60	26,00	46,30	

B = bore diameter

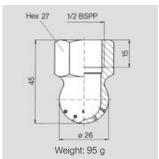
Multiple solid jet nozzle for air and saturated steam series 540/541

■ Even complete air distribution by 40 single bores

Applications:

Steam atomization into liquids, aeration of bulk material, loosening, atomization of gas into acid and neutralizing baths, liquid circulation, acceleration of chemical reactions and processes.





A	Ordering n	10.	В		V _n Air [n	1 ³ /h i. N.]		M Saturated steam [kg/h]					
	Туре	Mat.	Ø [mm]										
O		no. 16											
angle					p [l	oar]			p [bar]			
ay a		05/ SS											
Spray		1.4305/ 303 SS		1,0	2,0	3,0	5,0	1,0	2,0	3,0	5,0		
appr.	540. 909	0	0,8	26,20	39,30	52,50	78,70	21,80	32,00	38,20	58,60		
240°	540. 989	0	1,0	41,00	61,50	82,00	102,00	34,00	50,00	59,70	91,50		
	541. 109	0	1,5	92,20	138,00	184,00	231,00	76,60	113,00	134,00	206,00		
	541. 189	0	2,0	164,00	246,00	328,00	492,00	136,00	200,00	239,00	366,00		
	541. 239	0	2,3	217,00	325,00	434,00	651,00	180,00	265,00	316,00	484,00		

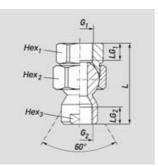
B = bore diameter

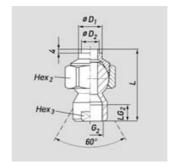
Ball joint

- For moveable assembly of low-noise flat jet and round jet nozzles
- Swiveling range:30 degrees any direction
- Durable metal version, without wear-prone gaskets











- Material polypropylene
- Swivelling on one plane
- Less expensive alternative to metal ball joints
- Swivelling range 90° left/right

G1: NPT 1/4 inside thread G2: 3/8 BSPP outside thread

Connection	Ordering no.					Dimensions										
	Туре	Mat	terial	no.	Code	[mm]										
		16 F 0	16	30	ŏ											€ G
		7.4571 316 SS														bras
			202	SS												Weight (brass)
		1.4305 303 SS	1.4305	Brass		D ₁	D ₂		G ₂	L _{G1}	LG2		Hex 1	Hex 2	Hex3	Wei
	092, 020		0	0	AD	_	_	G1/4	G1/4	12.0	11.5	60,3	27	27	17	60 g
											,-					
Ball joints with thread connection	092. 021	-	0	0	AF	-	-	G ³ /8	G1/4	12.0	11,5	58,3	27	27	17	80 g
	092. 030	-	0	0	AF	-	-	G ³ /8	G ³ /8	12.0	12,0	56,7	27	30	19	80 g
	092. 020	0	-	-	SD	20,0	15,0	-	G1/4	-	11,5	64,3	-	27	17	60 g
Ball joints with welding connection	092. 030	0	-	-	SF	22,0	15,0	-	G ³ /8	-	12,0	58,7	-	30	19	80 g

Example	Туре	+	Material no.	+	Code	=	Ordering no.
for ordering:	092. 020	+	16	+	SD	=	092. 020. 16. SD

Flexible pneumatic tube

Material:

Rubber tube, covered by metal braid; steel core

Connections:

Air supply: 3/8 BSPP Nozzle side: 1/4 BSPP $\mathbf{T_{max}} = 100^{\circ}\mathbf{C} \cdot \mathbf{p_{max}} = 15 \text{ bar}$

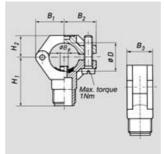


Ordering no.	Length [mm]	Suitable for nozzle series
Z. SPZ. 150. 02. AE. AD. 0	150	600, 130
Z. SPZ. 300. 02. AE. AD. 0	300	600. 283 600. 326
Z. SPZ. 450. 02. AE. AD. 0	450	000. 320

Clamps

- For flat jet slot nozzles series 679
- Easy fixing of nozzles with nut
- Adjustment of stream without any problems





Ordering no.					Dimensions								
Туре	Material no.				[mm]								⊕
	51	53 eue	5E										olyamid
	Polyamide	Polypropylene	PVDF	Screw	Pipe	D	BR				H1		Weight (Polyamide)
	<u> </u>	<u> </u>	<u> </u>	0)	Ø	Ø	Ø	B1	B 2	Вз	H1	H ₂	
090. 003	0	0	0	1305	1/2"	20- 22,0	6,2	21,2	23,8	18,5	36,5	16,5	20 g
090. 013	0	0	0	Material 1.4305	3/4"	25- 27,5	7,8	24,5	26,5	22,0	39,5	17,5	25 g
090. 023	0	0	0	Mate	1"	32- 34,5	10,8	30,0	31,0	22,0	44,0	21,0	32 g

Double nipple



Ordering		Dimensions									
Туре	Mat	. no.	[mm]								
	17 28 17	30									
	1.457 316 S	Brass	G1 BSPP	G ₂ BSPP	H ₁	H 2	D ₁	D ₂	Hex	Weight (Brass)	
065. 215	0	0	3/8	1/4	25	10	10	7	22	30 g	
065. 211	0	0	3/8	3/8	25	10	11,5	-	22	25 g	

Nuts



C	ng no.										
Туре		Ma	terial	no.			orass				
	16	17	30	56	5E						Weight (brass)
	4305, 3 SS	1571, 6 SS	Brass	POM	VDF						Weig
	30	1. 8.	ä	2	₹	BSPP	H1	H ₂	D	Hex	
065. 200	0	0	0	-	-	3/8	13,0	10,0	12,8	22	25 g
065. 200	-	-	-	0	0	3/8	14,5	11,5	12,8	22	25 g

Multiple Nozzle Base



Lechler GmbH
Precision Nozzles · Nozzle Systems
P.O. Box 13 23
72544 Metzingen / Germany
Phone +49 (0) 71 23 - 962 - 0
Fax +49 (0) 71 23 - 962 - 333

E-mail: info@lechler.de Internet: www.lechler.com

Multiple Nozzle Base order No. 600.130.56.05 with 5 Whisperblast nozzles type 600.130.56.AC

Materials:

Nozzles: POM, nozzle

base: PVC

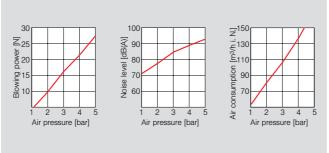
Thread: G 3/8" BSPP

Applications:

Cover big working

ranges
Air curtain





Lechler is also your partner for all liquid atomization applications.

Our new catalogue includes a wide range of products in an unsurpassed quality. Most of the products can be delivered immediately ex stock.

Please ask for it!



Edition 04/07 · GB · 500 · LEC07072 · www.walliser-partner.de · S · Subject to technical modifications.