

Air nozzles



As a rule, any flat fan or solid stream nozzle can be operated with air instead of liquid.

However, you'll obtain the best results using the nozzle designs we specially engineered for applications of compressed air or saturated steam. For further details, please refer to the next pages.

In addition to air, various nozzle types are also suited for injecting saturated steam. Typical applications of Lechler air nozzles are, for instance, efficient blowing off and blowing out, cooling, drying or cleaning.

Multi-channel air nozzles

In many industries and workshops compressed air has become an indispensable tool.

Compressed air is needed for cleaning, blowing off, drying, conveying and for numerous other applications.

Where uncontrolled compressed air is applied, very often annoying, high-frequency hiss noises arise, which may cause serious harm to hearing. These »noises« are produced by turbulences generated at the air outlet. Their intensity depends on the shape of the nozzle orifice and on the air pressure. This means: the better and stronger the air jet is supposed to be, the higher the health-injuring noise level and the higher the air consumption and its cost.

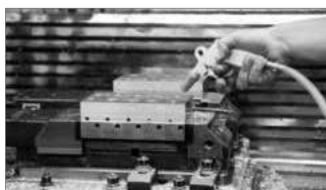
The solution: Lechler multi-channel air nozzles, featuring a significantly reduced sound level, high blowing power and low air consumption.

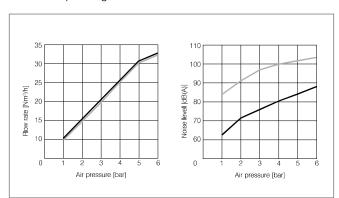
The performance of multichannel air nozzles is based on partitioning the air inflow into single air jets. 16 air channels, arranged to ensure optimum flow conditions, provide for a particularly uniform, straight and powerful overall air jet.



In comparison to single-hole air nozzles the advantages are as follows:

- Reduction of the noise level of up to 12 dB
- Low service air pressure with the same blowing power
- Lower air consumption
- Better blowing effect over a longer reach
- Lower operating costs





Comparison of a conventional, single-hole nozzle with the Lechler multi-channel round jet nozzle type 600.326

Lechler multi-channel round jet nozzle

Conventional single-hole nozzle

Note for calculation of measuring values:

Blowing power: Blowing distance vertical 50 mm on a scale, area 400 x 500 mm.

Air nozzles

Flat fan nozzles for air	Series	Air consumption [m 3 /h] at p = 2 bar	Connection	Application/ Design	Page
	600.130 600.484 Particularly silent!	8.00 - 18.00	1/4 BSPP 1/4 BSPP NPT 1/4 M 12 x 1.25 Quick release cuppling NW5	Blowing off and blowing out, cleaning, drying, cooling, conveying with air. Multi-channel flat fan nozzle. Plastic versions.	6.5
	600.283 600.493 600.562	7.50 – 30.00	1/8 BSPP 1/4 BSPP 1/4 NPT	Blowing off and blowing out, cleaning, drying, cooling, conveying with air. Multi-channel flat fan nozzle. Metallic versions.	6.6
	679	2.60 – 32.80	Assembly with 3/8 lock nut	Blowing off liquids, cooling, reheating, drying. Easy nozzle changing. Simple jet alignment.	6.7
	686	1.00 – 16.00	1/8 BSPT	Blowing off liquids, cooling, reheating, drying. Tongue-type nozzle.	6.8

For more information please ask for our special brochure "Nozzles and Accessories for Compressed Air".



Air nozzles

Solid stream nozzles for air	Series	A	Air consumption [m3/h] at $p = 2$ bar	Connection	Application/ Design	Page
	600.326 Particularly silent!		15.00	1/4 BSPP M 12 x 1,25	Targeted blowing out and blowing off with the aid of air guns. Multi-channel round jet nozzle, producing a powerful air jet with punctiform impact pattern.	6.9
	600.388		8,60	1/8 BSPP M 12 x 1.25	Targeted blowing out and blowing off with the aid of air guns. Multi-channel round jet nozzle. Compact design. Especially for blowing out of pocket holes.	6.9
10	544		1.00 – 16.00	1/8 BSPT 1/4 BSPT	Targeted blowing out and blowing off. Powerful air jet with punctiform impact pattern.	6.10
	540 541	240°	39.30 – 325.00	1/2 BSPP	Injection of steam into liquids, injection of compressed air into bulk goods, gas injection. Multi-channel solid stream nozzle.	6.11

For more information please ask for our special brochure »Nozzles and Accessories for Compressed Air«.



Multi-channel flat fan nozzles for air

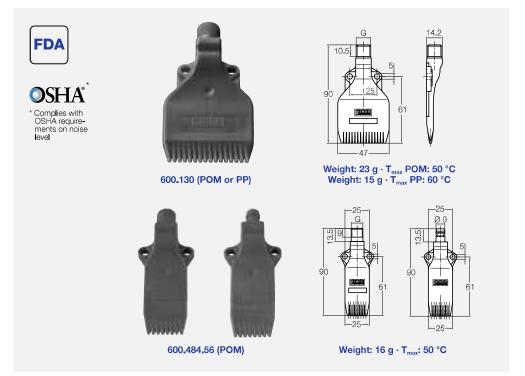
Whisperblast®, Plastic versions Series 600.130/600.484



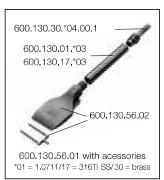
Highly efficient air stream, acting upon areas. Reduced noise levels. Low air consumption.

Applications:

Blowing off and blowing out, cleaning, drying, cooling, conveying with air.







Item 600.130.56.01 does not meet FDA/(EC) No. 1935/2004

Technical Data		
So do pressure [bar]	85 80 70 70 70 80 70 70 80 80 80 70 80 80 80 80 80 80 80 80 80 8	95 30 30 20 484
	7pc 0001100 1ypc 0	00.404



Socket Ordering no. 095.016.30.14.23.0

Material: Brass

For connection of series 600.130 with compressed air guns.

Ordering no.										
	Mat	no.	Code							
Туре	\$2 a	56 WOd	1/4 BSPP	1/4 NPT	M12 x 1.25	Quick connection NW 5				
600.130	0	0	AC	BC	-	-				
600.130 with plug	-	0	02	-	-	-				
600.130 with plug, Hose barb (D = 8 mm) and Extension tube, steel (L = 85 mm)	-	0	01	-	-	-				
600.484	-	0	AC	BC	HG	00				

Example	Type	+	Mat. no.	+	Code	=	Ordering no.
of ordering:	600.130.	+	56	+	AC	=	600.130.56.AC



Ball joints see page 9.8



Multi-channel flat fan nozzles for air

Whisperblast®, metalic versions Series 600.283/600.493/600.562

Particularly silent!

Metalic versions for higher temperatures. Highly efficient air stream, acting upon areas. Reduced noise levels. Low air consumption.

Applications:

Blowing off and blowing out, cleaning, drying, cooling, conveying with air.



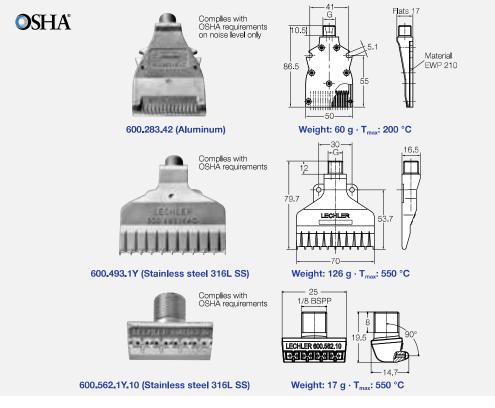
Socket Ordering no. 095.016.30.14.23.0

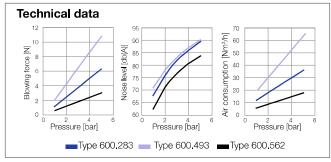
Material: Brass

For connection with compressed air guns for the following series:

- 600.283
- -600.493

For more information please ask for our special brochure »Nozzles and Accessories for Compressed Air«.







Ball joints see page 9.8

Ordering no.										
	Mat	. no.	Code							
Туре	Aluminum 75	Stainless t	1/8 BSPP	1/4 BSPP	1/4 NPT					
600.283	0	-	-	AC	BC					
600.493	-	0	=	AC	BC					
600,562,1Y,10	-	0	0	-	-					

Example	Type	+	Mat. no.	+	Code	=	Ordering no.
of ordering:	600.283.	+	42	+	AC	=	600.283.42.AC

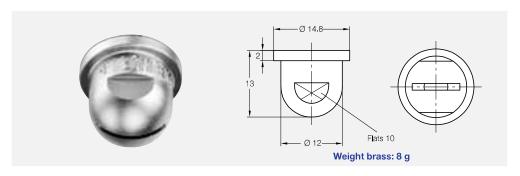


Flat fan nozzles for air or saturated steam **Series 679**

Particularly wide-angle, powerful air jet. Assembling with retaining nut. Easy nozzle changing. Simple jet alignment.

Applications:

Blowing off liquids, cooling, reheating, drying.



Spray	Ordering no.			A					***			
angle	angle		Mat. no. [mm]			V _n Air	[m³/h]		M Saturated steam [kg/h]			
$\ A\ $	17 30		30			p [k	[bar]			p [bar]		
	Туре	316Ti SS	Brass		0.5	2.0	5.0	10.0	0.5	2.0	5.0	10.0
approx.	679.037	-	0	1.2	1.50	3.00	6.00	11.00	1.20	2.30	4.60	8.30
70°-90°	679.085	0	0	1.3	2.00	4.00	8.00	14.70	1.60	3.10	6.10	11.10
	679.117	0	0	1.5	2.10	4.20	8.40	15.40	1.70	3.30	6.50	11.70
	679.165	0	0	1.8	2.60	5.10	10,30	18.80	2.00	4.10	8.00	14,30
	679.255	0	0	2.1	3.60	7.30	14.50	26.60	2.80	5.70	11.20	20.20
	679.365	0	0	2.8	6.30	12.70	25.40	46.50	5.00	10.00	19.60	35.30
	679.415	0	0	3.6	10.20	20.30	40.70	74.60	8.00	16.00	31.40	56.70
	679.495	0	0	4.3	15.60	31.10	62.20	114.00	12,40	24.80	48.50	87.60

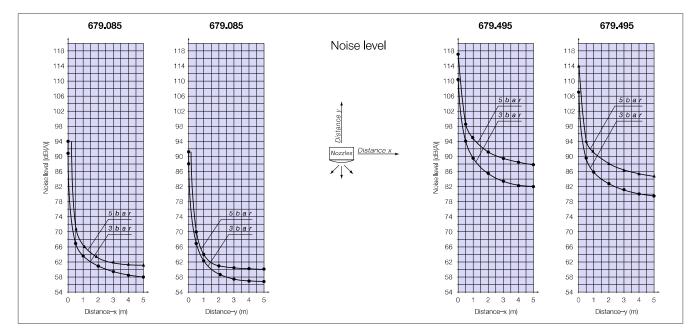
A = equivalent bore diameter

Example Type + Mat. no. = Ordering no. of ordering: 679.037. + 30 = 679.037.30

The folded page at the end of the catalogue will give you a survey on the various assembly possibilities. For complete assembly accessories, please refer to »Accessories«.



For assembling possibilities please refer to folded page.

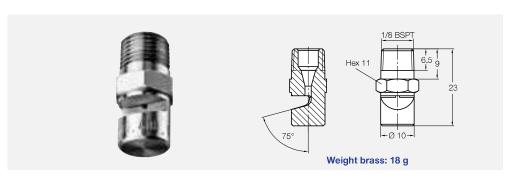




Tongue-type nozzles for air or saturated steam **Series 686**

Wide-angle, powerful air jet.

Applications: Blowing off liquids, cooling, reheating, drying.



Spray	Orderin	ig no.			В	n		Ů _n Air [m³/h]			N.	M Saturated steam [kg/h]			
angle		Mat	. no.	Code	Ø [mm]	'	V _n All [III711]			IV	Jaiuraleu	Steam [kg/	'']		
		16	30		[i i ii i i j			p [t	oar]			p [k	oar]		
$\ \mathcal{M}\ $	_														
	Туре	303 SS	Brass	1/8 BSPT			1.0	2.0	5.0	10.0	1.0	2.0	5.0	10.0	
approx.	686.408	0	0	CA	1.0	75°	1.07	1.60	3.20	5.86	0.88	1.31	2.57	4.64	
27-47°	686.488	0	0	CA	1.3	75°	1.76	2.64	5.29	9.69	1.46	2.17	4.25	7.67	
approx.	686.528	0	0	CA	1.5	75°	2.20	3.31	6.61	12.13	1.83	2.71	5.31	9.59	
70°	686.568	0	0	CA	1.7	75°	2.73	4.09	8.19	15.01	2.27	3.36	6.57	11.87	
	686,608	0	0	CA	1.9	75°	3,35	5,02	10.04	18,40	2,78	4.11	8,06	14.55	
	686.688	0	0	CA	2.4	75°	5.45	8.18	16.36	30.00	4.53	6.71	13.14	23.72	
	686.728	0	0	CA	2.7	75°	6.88	10.33	20.65	37.86	5.71	8.46	16.58	29.94	
	686.808	0	0	CA	3.4	75°	10.89	16.33	32.66	59.87	9.04	13,28	26.22	47.35	

B = bore diameter

Exam	ole	Type	+	Mat. no.	+	Code	=	Ordering no.
of ord	ering:	686.408	+	16	+	CA	=	686.408.16.CA

The folded page at the end of the catalogue will give you a survey on the various assembly possibilities. For complete assembly accessories, please refer to »Accessories«.



Ball joints see page 9.8

Multi-channel round jet nozzles for air

Series 600.326/600.388



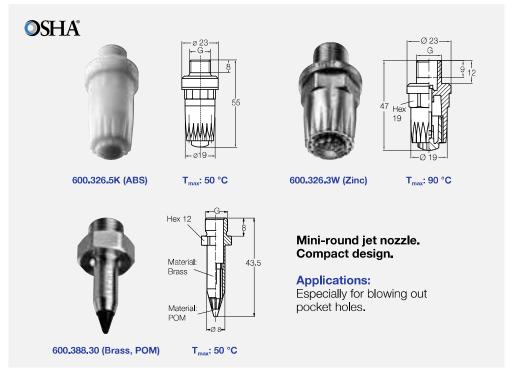
Powerful air jet, producing punctiform impact patterns. Low noise level. Low air consumption.

Applications:

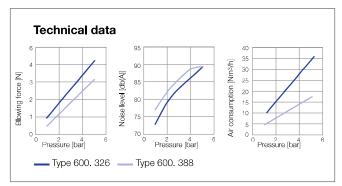
Targeted blowing out and blowing off with compressed air guns.

Reduction of noise level of up to 12 dB (A).











Ball joints see page 9.8

Ordering no.				
Туре	Code	Connection thread G	Weight	
600,326,5K	AC	1/4 BSPP	9 g	
(Material: ABS)	HG	M 12 x 1.25		
600.326.3W	AC	1/4 BSPP	47.0	
(Material: Zinc)	HG	M 12 x 1.25	47 g	
600,388,30	AA	1/8 BSPP	10	
(Material: Brass/POM)	HG	M 12 x 1.25	12 g	

Example	Туре	+	Code	=	Ordering no.
of ordering:	600.326.5K	+	AC	=	600.326.5K.AC

Solid stream nozzles for air or saturated steam **Series 544**

Powerful air jet, producing punctiform impact patterns.

Applications:

Targeted blowing out and blowing off.



Ordering no.				В									
	Mat. no.	l Code		Ø [mm]		V _n Air	[m³/h]		M Saturated steam [kg/h]				
	16				p [bar]				p [bar]				
Туре	303 SS	1/8 BSPT	1/4 BSPT		1.0	2,0	3.0	5.0	1.0	2.0	3.0	5.0	
544.360	0	CA	СС	1.05	0.93	1.40	1.92	2.88	0.77	1.14	1.64	2.42	
544.400	0	CA	CC	1.30	1.43	2.14	2.94	4.41	1.18	1.75	2.51	3.71	
544,480	0	CA	CC	1.33	1,67	2.51	3,42	5,13	1.39	2.06	2.92	4.23	
544.560	0	CA	CC	1.69	2.58	3.87	5.27	7.90	2.14	3.18	4.50	6.66	
544.640	0	CA	CC	2.09	4.33	6.50	8.81	13.22	3.60	5.33	7.52	11.13	
544.720	0	CA	CC	2.66	6.85	10.27	14.00	21.02	5.68	8.42	11.96	17.70	
544.800	0	CA	СС	3.30	10.75	16.12	21.87	32.81	8.92	13.21	18.66	27.63	

B = bore diameter

Example Type + Mat. no. + Code = Ordering no. of ordering: 544,360 + 16 + CA = 544,360,16,CA



Ball joints see page 9.8

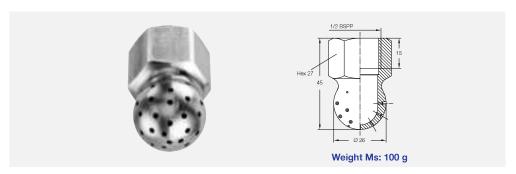


Cluster solid stream nozzles for air or saturated steam **Series 540/541**

Powerful air jet with 40 individual bore holes.

Applications:

Injection of steam into liquids, injection of compressed air into bulk goods, gas injection (acid and neutralization baths).



Spray angle	Ordering no.	Mat. no.	B Ø [mm]		V _n Air			M Saturated steam [kg/h] p [bar]			
	Type	303 SS		1.0	2.0	3.0	5.0	1.0	2.0	3.0	5.0
approx. 240°	540,909 540,989 541,109 541,189 541,239	00000	0.8 1.0 1.5 2.0 2.3	22.80 35.50 83.30 129.70 167.20	34.20 53.30 124.90 194.50 250.80	45.50 71.00 166.50 259.30 334.30	68.30 106.50 249.80 389.00 501.50	18.10 28.20 66.00 103.00 133.20	26.90 41.70 97.70 152.60 197.30	35.50 55.10 129.20 201.70 260.80	52.70 81.70 191.60 299.10 386.60

B = bore diameter

Example	Type	+	Mat. no.	=	Ordering no.
of ordering:	540.909	+	16	=	540.909.16