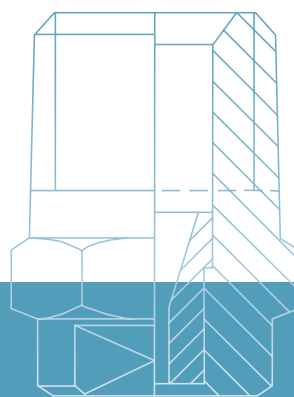


SOLID STREAM NOZZLES



Solid stream
nozzles

SOLID STREAM NOZZLES

OVERVIEW OF TYPES



Lechler solid stream nozzles are characterized by a stable and powerful jet stream, with low pressure and high pressure variants available. When concentrated spray power is required, e.g. in cleaning processes, the precision of Lechler solid stream nozzles enhances the productivity and performance for every installation.

Low pressure and high pressure solid stream nozzles



- Concentrated solid jet stream, minimal atomization
- High impact
- Suitable for cleaning and washing processes
- Injection
- Targeted cooling
- Pasteurization

International nozzle code

High pressure solid stream nozzle designations are governed by international standards. The two digits specify the flow rate in US gallons per minute at 40 psi. Our high pressure solid stream nozzles (series 546/548/550) are specified with this international nozzle code.

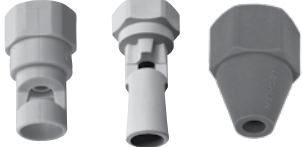
02

Flow rate in US gal/min at 40 psi

SOLID STREAM NOZZLES OVERVIEW OF SERIES



		Solid stream nozzles				
						
Series		544	546	548	550	
Information on page		259	260	261	262	
Pressure range	Low pressure	•				
	High pressure		•	•	•	
 Flow rate	Low ≤ 5.28 gal/min	• (at p = 75 psi)	• (at p = 1160 psi)	• (at p = 1160 psi)	• (at p = 1160 psi)	
	High > 5.28 gal/min		• (at p = 1160 psi)	• (at p = 1160 psi)	• (at p = 1160 psi)	
 Nozzle material	Stainless steel	•	•	•	•	
	Brass	•				
	Polypropylene					
 Nozzle connection		1/8 NPT 1/4 NPT	1/4 BSPT 1/4 NPT	Assembly with retaining nut 3/8 BSPP	1/8 BSPT 1/8 NPT	

					
	500.262 / 500.428	599.028/009 Needle Jet	599.128 Trimming	099 Screen	599.040 High Pressure
	259	260	261	261	262
	•				
		•	•	•	•
	• (at p = 40 psi)	• (at p = 1000 psi)	• (at p = 1000 psi)		• (at p = 1000 psi)
	• (at p = 60 psi)				
		•	•	•	•
	•				
	3/4 BSPP 3/8 BSPP	9/16"-24 NPT	1/8 NPT	Inlet 1/8 NPT Outlet 3/8 NPT	1/8"-27 Male NPT

Low pressure solid stream nozzles

Series 544

Properties:

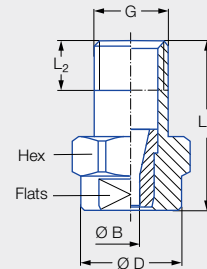
- Concentrated solid stream jet
- High impact

Applications:

- Cleaning and washing processes
- Injection
- Targeted cooling
- Pasteurization



Series 544



Code	G	Dimensions [in]					Weight [lb] (Brass)
		L ₁	L ₂	Ø D	Hex	Flats	
BA	1/8 NPT	0.87	0.26	0.51	9/16	10	0.03
BC	1/4 NPT	0.87	0.39	0.51	9/16	10	0.04

Ordering no.					Bore diameter B [in]	V̇ water [gal/min]									
Type	Mat. no.		Code			p [psi]									
	16	30	1/8 NPT	1/4 NPT											
	Stainless steel 303	Brass				10	20	30	40	60	Liters per min. 5 bar	80	100	200	400
544.110	●	●	BA	BC	0.009	0.006	0.008	0.010	0.012	0.014	0.06	0.017	0.019	0.026	0.037
544.160	●		BA	BC	0.013	0.009	0.012	0.015	0.018	0.022	0.09	0.025	0.028	0.039	0.056
544.200	●	●	BA	BC	0.015	0.016	0.022	0.027	0.031	0.038	0.16	0.044	0.050	0.070	0.099
544.240	●		BA	BC	0.020	0.02	0.03	0.04	0.05	0.06	0.25	0.07	0.08	0.11	0.15
544.280	●		BA	BC	0.025	0.04	0.05	0.07	0.08	0.09	0.40	0.11	0.12	0.17	0.25
544.320	●	●	BA	BC	0.031	0.06	0.08	0.11	0.12	0.15	0.63	0.17	0.19	0.27	0.39
544.360	●	●	BA	BC	0.041	0.10	0.14	0.17	0.19	0.24	1.00	0.27	0.31	0.44	0.62
544.400	●	●	BA	BC	0.051	0.15	0.22	0.27	0.31	0.38	1.58	0.44	0.49	0.69	0.98
544.480	●	●	BA	BC	0.052	0.25	0.35	0.43	0.49	0.61	2.53	0.70	0.78	1.11	1.57
544.560	●	●	BA	BC	0.065	0.38	0.55	0.67	0.77	0.95	3.95	1.09	1.22	1.73	2.45
544.640	●	●	BA	BC	0.082	0.62	0.87	1.07	1.24	1.52	6.32	1.75	1.96	2.77	3.92
544.720	●	●	BA	BC	0.105	0.97	1.38	1.69	1.95	2.39	9.96	2.76	3.09	4.37	6.18
544.800	●	●	BA	BC	0.130	1.55	2.19	2.69	3.10	3.80	15.81	4.38	4.90	6.93	9.81

Conversion formula for this series: $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{p_2}{p_1}}$

Ordering Type + Material no. + Code = Ordering no.
example: 544.110 + 16 + BA = 544.110.16.BA



Assembly accessories can be found in Chapter 12 "Accessories".

High pressure solid stream nozzles

Series 546

Properties:

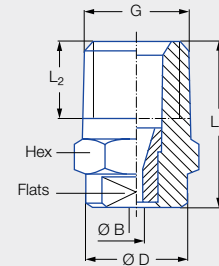
- Concentrated solid stream jet
- High impact
- Housing 303 SS, insert: Hardened stainless steel 420F

Applications:

- Cleaning and washing processes



Series 546



G	Dimensions [in]					Weight [lb]	p _{max} ¹ [psi]
	L ₁	L ₂	Ø D	Hex	Flats		
1/4 BSPT	0.87	0.39	0.51	9/16	10	0.04	approx. 10,150
1/4 NPT	0.87	0.39	0.51	9/16	10	0.04	approx. 10,150

¹ Applies only to operation at constant pressure.

Ordering no.				Bore diameter B [in]	V̇ water [gal/min]								
US gal/min at 40 psi	Type	Code			p [psi]								
		1/4 BSPT	1/4 NPT		300	450	725	Liters per min. 80 bar	1000	1500	2000	3000	4500
01	546.300.A3	00	07	0.024	0.27	0.33	0.42	2.04	0.50	0.61	0.71	0.86	1.06
02	546.360.A3	00	07	0.033	0.55	0.67	0.85	4.08	1.00	1.22	1.41	1.73	2.12
025	546.380.A3	00	07	0.037	0.68	0.84	1.06	5.10	1.25	1.53	1.77	2.16	2.65
027	546.390.A3	00	07	0.039	0.74	0.90	1.15	5.50	1.35	1.65	1.91	2.33	2.86
03	546.400.A3	00	07	0.040	0.82	1.01	1.28	6.12	1.50	1.84	2.12	2.60	3.18
034	546.410.A3	00	07	0.042	0.93	1.14	1.45	6.93	1.70	2.08	2.40	2.94	3.60
035	546.420.A3	00	07	0.044	0.96	1.17	1.49	7.14	1.75	2.14	2.47	3.03	3.71
038	546.440.A3	00	07	0.045	1.04	1.27	1.62	7.75	1.90	2.33	2.69	3.29	4.03
04	546.450.A3	00	07	0.047	1.09	1.34	1.70	8.16	2.00	2.45	2.83	3.46	4.24
045	546.470.A3	00	07	0.050	1.23	1.51	1.92	9.18	2.25	2.76	3.18	3.90	4.77
05	546.480.A3	00	07	0.052	1.37	1.68	2.13	10.20	2.50	3.06	3.54	4.33	5.30
055	546.500.A3	00	07	0.055	1.51	1.84	2.34	11.22	2.75	3.37	3.89	4.76	5.84
06	546.520.A3	00	07	0.057	1.64	2.01	2.55	12.24	3.00	3.67	4.24	5.20	6.37
065	546.530.A3	00	07	0.059	1.78	2.18	2.77	13.26	3.25	3.98	4.60	5.63	6.90
070	546.540.A3	00	07	0.062	1.92	2.35	2.98	14.28	3.50	4.29	4.95	6.06	7.43
074	546.550.A3	00	07	0.064	2.03	2.48	3.15	15.09	3.70	4.53	5.23	6.41	7.85
08	546.570.A3	00	07	0.067	2.19	2.68	3.40	16.31	4.00	4.90	5.65	6.93	8.48
087	546.580.A3	00	07	0.069	2.38	2.92	3.70	17.74	4.35	5.33	6.15	7.53	9.23
089	546.590.A3	00	07	0.070	2.44	2.98	3.79	18.15	4.45	5.45	6.29	7.71	9.44
10	546.600.A3	00	07	0.074	2.74	3.35	4.25	20.38	5.00	6.12	7.07	8.66	10.60
11	546.620.A3	00	07	0.078	3.01	3.69	4.68	22.42	5.50	6.73	7.77	9.52	11.66
124	546.640.A3	00	07	0.082	3.39	4.16	5.28	25.28	6.20	7.59	8.77	10.74	13.15
131	546.650.A3	00	07	0.085	3.59	4.39	5.58	26.71	6.55	8.02	9.26	11.34	13.89
139	546.660.A3	00	07	0.087	3.81	4.66	5.92	28.34	6.95	8.51	9.83	12.04	14.74
15	546.670.A3	00	07	0.090	4.11	5.03	6.38	30.58	7.50	9.18	10.60	12.99	15.91
165	546.690.A3	00	07	0.095	4.52	5.53	7.02	33.64	8.25	10.10	11.66	14.29	17.50
174	546.700.A3	00	07	0.098	4.76	5.83	7.41	35.47	8.70	10.65	12.30	15.07	18.45
183	546.710.A3	00	07	0.100	5.01	6.14	7.79	37.31	9.15	11.21	12.94	15.85	19.41
20	546.720.A3	00	07	0.105	5.48	6.71	8.51	40.78	10.00	12.25	14.14	17.32	21.21
218	546.740.A3	00	07	0.109	5.97	7.31	9.28	44.44	10.90	13.35	15.41	18.88	23.12
25	546.760.A3	00	07	0.117	6.85	8.38	10.64	50.97	12.50	15.31	17.68	21.65	26.52
294	546.790.A3	00	07	0.127	8.05	9.86	12.52	59.94	14.70	18.00	20.79	25.46	31.18
310	546.800.A3	00	07	0.130	8.49	10.40	13.19	63.20	15.50	18.98	12.92	26.84	32.88

Conversion formula for this series: $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{p_2}{p_1}}$

Ordering Type + Code = Ordering no.
example: 546.300.A3 + 00 = 546.300.A3.00



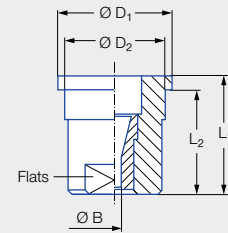
Assembly accessories can be found in Chapter 12 "Accessories".

High pressure solid stream nozzles

Series 548

Properties:

- Concentrated solid stream jet
- High impact
- Housing 303 SS, insert: Hardened stainless steel 420F
- Assembly with retaining nut



Applications:

- Cleaning and washing processes

Series 548

Code	Dimensions [in]					Weight [lb]	p _{max} ¹ [psi]
	L ₁	L ₂	Ø D ₁	Ø D ₂	Flats		
Assembly with retaining nut 3/8 BSPP	0.63	0.55	0.58	0.50	10	.03	approx. 4,350

¹ Applies only to operation at constant pressure.

Ordering no.		Bore diameter B [in]	V water [gal/min]								
US gal/min at 40 psi	Type		p [psi]								
			300	450	725	Liters per min. 80 bar	1000	1500	2000	3000	4500
01	548.300.A3.29	0.024	0.27	0.33	0.42	2.04	0.50	0.61	0.71	0.86	1.06
02	548.360.A3.29	0.033	0.55	0.67	0.85	4.08	1.00	1.22	1.41	1.73	2.12
025	548.380.A3.29	0.037	0.68	0.84	1.06	5.10	1.25	1.53	1.77	2.16	2.65
027	548.390.A3.29	0.039	0.74	0.90	1.15	5.50	1.35	1.65	1.91	2.33	2.86
03	548.400.A3.29	0.040	0.82	1.01	1.28	6.12	1.50	1.84	2.12	2.60	3.18
034	548.410.A3.29	0.042	0.93	1.14	1.45	6.93	1.70	2.08	2.40	2.94	3.60
035	548.420.A3.29	0.044	0.96	1.17	1.49	7.14	1.75	2.14	2.47	3.03	3.71
038	548.440.A3.29	0.045	1.04	1.27	1.62	7.75	1.90	2.33	2.69	3.29	4.03
04	548.450.A3.29	0.047	1.09	1.34	1.70	8.16	2.00	2.45	2.83	3.46	4.24
045	548.470.A3.29	0.050	1.23	1.51	1.92	9.18	2.25	2.76	3.18	3.90	4.77
05	548.480.A3.29	0.052	1.37	1.68	2.13	10.20	2.50	3.06	3.54	4.33	5.30
055	548.500.A3.29	0.055	1.51	1.84	2.34	11.22	2.75	3.37	3.89	4.76	5.84
06	548.520.A3.29	0.057	1.64	2.01	2.55	12.24	3.00	3.67	4.24	5.20	6.37
065	548.530.A3.29	0.059	1.78	2.18	2.77	13.26	3.25	3.98	4.60	5.63	6.90
070	548.540.A3.29	0.062	1.92	2.35	2.98	14.28	3.50	4.29	4.95	6.06	7.43
074	548.550.A3.29	0.064	2.03	2.48	3.15	15.09	3.70	4.53	5.23	6.41	7.85
08	548.570.A3.29	0.067	2.19	2.68	3.40	16.31	4.00	4.90	5.65	6.93	8.48
087	548.580.A3.29	0.069	2.38	2.92	3.70	17.74	4.35	5.33	6.15	7.53	9.23
089	548.590.A3.29	0.070	2.44	2.98	3.79	18.15	4.45	5.45	6.29	7.71	9.44
10	548.600.A3.29	0.074	2.74	3.35	4.25	20.38	5.00	6.12	7.07	8.66	10.60
11	548.620.A3.29	0.078	3.01	3.69	4.68	22.42	5.50	6.73	7.77	9.52	11.66
124	548.640.A3.29	0.082	3.39	4.16	5.28	25.28	6.20	7.59	8.77	10.74	13.15
131	548.650.A3.29	0.085	3.59	4.39	5.58	26.71	6.55	8.02	9.26	11.34	13.89
139	548.660.A3.29	0.087	3.81	4.66	5.92	28.34	6.95	8.51	9.83	12.04	14.74
15	548.670.A3.29	0.090	4.11	5.03	6.38	30.58	7.50	9.18	10.60	12.99	15.91
165	548.690.A3.29	0.095	4.52	5.53	7.02	33.64	8.25	10.10	11.66	14.29	17.50
174	548.700.A3.29	0.098	4.76	5.83	7.41	35.47	8.70	10.65	12.30	15.07	18.45
183	548.710.A3.29	0.100	5.01	6.14	7.79	37.31	9.15	11.21	12.94	15.85	19.41
20	548.720.A3.29	0.105	5.48	6.71	8.51	40.78	10.00	12.25	14.14	17.32	21.21
218	548.740.A3.29	0.109	5.97	7.31	9.28	44.44	10.90	13.35	15.41	18.88	23.12
25	548.760.A3.29	0.117	6.85	8.38	10.64	50.97	12.50	15.31	17.68	21.65	26.52
294	548.790.A3.29	0.127	8.05	9.86	12.52	59.94	14.70	18.00	20.79	25.46	31.18
310	548.800.A3.29	0.130	8.49	10.40	13.19	63.20	15.50	18.98	22.92	26.84	32.88

Conversion formula for this series: $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{p_2}{p_1}}$



Assembly accessories can be found in Chapter 12 "Accessories".

High pressure solid stream nozzles

Series 550

Properties:

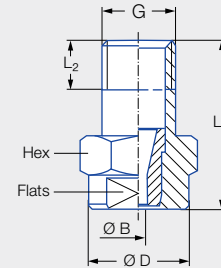
- Concentrated solid stream jet
- High impact
- Housing 303, insert:
Hardened stainless steel 1.4034 S

Applications:

- Cleaning and washing processes



Series 550



G	Dimensions [in]					Weight [lb]	p _{max} ¹ [psi]
	L ₁	L ₂	Ø D	Hex	Flats		
1/8 BSPT	0.87	0.26	0.51	9/16	10	0.03	approx. 10,150
1/8 NPT	0.87	0.26	0.51	9/16	10	0.03	approx. 10,150

¹ Applies only to operation at constant pressure.

Ordering no.				Bore diameter B [in]	V̇ water [gal/min]								
US gal/min at 40 psi	Type	Code			p [psi]								
		1/8 BSPT	1/8 NPT		300	450	725	Liters per min. 80 bar	1000	1500	2000	3000	4500
01	550.300.A3	00	07	0.024	0.27	0.33	0.42	2.04	0.50	0.61	0.71	0.86	1.06
02	550.360.A3	00	07	0.033	0.55	0.67	0.85	4.08	1.00	1.22	1.41	1.73	2.12
025	550.380.A3	00	07	0.037	0.68	0.84	1.06	5.10	1.25	1.53	1.77	2.16	2.65
027	550.390.A3	00	07	0.039	0.74	0.90	1.15	5.50	1.35	1.65	1.91	2.33	2.86
03	550.400.A3	00	07	0.040	0.82	1.01	1.28	6.12	1.50	1.84	2.12	2.60	3.18
034	550.410.A3	00	07	0.042	0.93	1.14	1.45	6.93	1.70	2.08	2.40	2.94	3.60
035	550.420.A3	00	07	0.044	0.96	1.17	1.49	7.14	1.75	2.14	2.47	3.03	3.71
038	550.440.A3	00	07	0.045	1.04	1.27	1.62	7.75	1.90	2.33	2.69	3.29	4.03
04	550.450.A3	00	07	0.047	1.09	1.34	1.70	8.16	2.00	2.45	2.83	3.46	4.24
045	550.470.A3	00	07	0.050	1.23	1.51	1.92	9.18	2.25	2.76	3.18	3.90	4.77
05	550.480.A3	00	07	0.052	1.37	1.68	2.13	10.20	2.50	3.06	3.54	4.33	5.30
055	550.500.A3	00	07	0.055	1.51	1.84	2.34	11.22	2.75	3.37	3.89	4.76	5.84
06	550.520.A3	00	07	0.057	1.64	2.01	2.55	12.24	3.00	3.67	4.24	5.20	6.37
065	550.530.A3	00	07	0.059	1.78	2.18	2.77	13.26	3.25	3.98	4.60	5.63	6.90
070	550.540.A3	00	07	0.062	1.92	2.35	2.98	14.28	3.50	4.29	4.95	6.06	7.43
074	550.550.A3	00	07	0.064	2.03	2.48	3.15	15.09	3.70	4.53	5.23	6.41	7.85
08	550.570.A3	00	07	0.067	2.19	2.68	3.40	16.31	4.00	4.90	5.65	6.93	8.48
087	550.580.A3	00	07	0.069	2.38	2.92	3.70	17.74	4.35	5.33	6.15	7.53	9.23
089	550.590.A3	00	07	0.070	2.44	2.98	3.79	18.15	4.45	5.45	6.29	7.71	9.44
10	550.600.A3	00	07	0.074	2.74	3.35	4.25	20.38	5.00	6.12	7.07	8.66	10.60
11	550.620.A3	00	07	0.078	3.01	3.69	4.68	22.42	5.50	6.73	7.77	9.52	11.66
124	550.640.A3	00	07	0.082	3.39	4.16	5.28	25.28	6.20	7.59	8.77	10.74	13.15
131	550.650.A3	00	07	0.085	3.59	4.39	5.58	26.71	6.55	8.02	9.26	11.34	13.89
139	550.660.A3	00	07	0.087	3.81	4.66	5.92	28.34	6.95	8.51	9.83	12.04	14.74
15	550.670.A3	00	07	0.090	4.11	5.03	6.38	30.58	7.50	9.18	10.60	12.99	15.91
165	550.690.A3	00	07	0.095	4.52	5.53	7.02	33.64	8.25	10.10	11.66	14.29	17.50
174	550.700.A3	00	07	0.098	4.76	5.83	7.41	35.47	8.70	10.65	12.30	15.07	18.45
183	550.710.A3	00	07	0.100	5.01	6.14	7.79	37.31	9.15	11.21	12.94	15.85	19.41
20	550.720.A3	00	07	0.105	5.48	6.71	8.51	40.78	10.00	12.25	14.14	17.32	21.21
218	550.740.A3	00	07	0.109	5.97	7.31	9.28	44.44	10.90	13.35	15.41	18.88	23.12
25	550.760.A3	00	07	0.117	6.85	8.38	10.64	50.97	12.50	15.31	17.68	21.65	26.52
294	550.790.A3	00	07	0.127	8.05	9.86	12.52	59.94	14.70	18.00	20.79	25.46	31.18
310	550.800.A3	00	07	0.130	8.49	10.40	13.19	63.20	15.50	18.98	22.92	26.84	32.88

Conversion formula for this series: $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{p_2}{p_1}}$

Ordering Type + Code = Ordering no.
example: 550.300.A3 + 00 = 550.300.A3.00



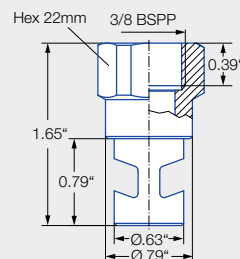
Assembly accessories can be found in Chapter 12 "Accessories".

Eductor nozzles Series 500.262/500.428

- Large cross sections to minimize risk of blockage
- From 29 to 145 psi
- Tank mixing
- Liquid circulation
- Preventing sedimentation

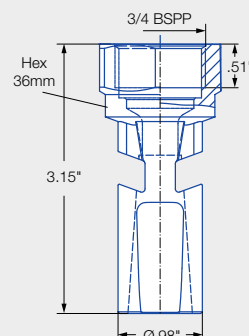
a 500.262.53.xx

Fiberglass inforced polypropylene



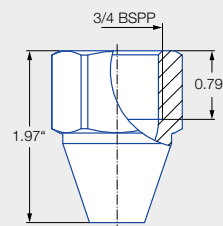
b 500. 262. 53. 20

Fiberglass inforced polypropylene



c 500. 428. 53. 00

Fiberglass inforced polypropylene



Spray angle	Ordering number	Orifice diam. [in.]	V̇ water [gal/min]					
	Type		p [psi]					
			30 psi	40 psi	60 psi	Liters per min. 6 bar	80 psi	100 psi
a	500.262.53.02	0.087	1.2	1.4	1.7	7.7	2.0	2.2
	500.262.53.04	0.142	3.0	3.4	4.2	19.2	4.9	5.4
	500.262.53.06	0.177	4.9	5.7	7.0	31.8	8.1	9.0
	500.262.53.08	0.236	8.5	9.8	12.0	54.8	13.9	15.5
b	500.262.53.20	0.417	25.8	29.8	36.5	166.5	42.2	47.0
c	500.428.53.00	0.382	23.3	26.9	32.9	150.1	38.0	42.5

Other sizes on request.

» Solid stream nozzles

Series 599

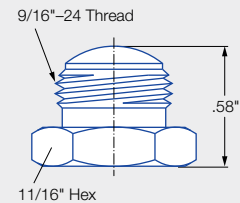
Features:

- For high pressure showers
- Standard material: 316 SS
- Variant 1 for longer service life
- Variant 2 clog resistant

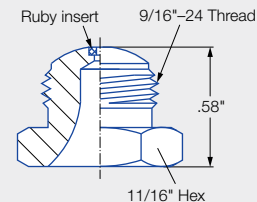
Applications:

- Paper production
- High pressure cleaning

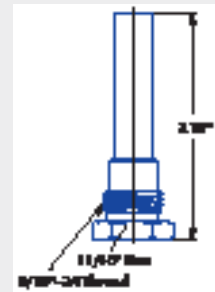
Needle Jet Nozzle Series 599. 009. 17



Needle Jet Nozzle with Ruby Orifice Series 599. 009. 8J



Needle Jet Nozzle with Clog Preventer Series 599. 028. 17



Ordering number			Orifice diameter
Standard Nozzle	Standard with Ruby Orifice***	Clog Resistant****	
599.009.17.00.14	599.009.8J.00.14	599.028.17.00.14	.014" (0.36 mm)
599.009.17.00.28	599.009.8J.00.28	599.028.17.00.28	.028" (0.71 mm)
599.009.17.00.33	599.009.8J.00.33*	599.028.17.00.33	.033" (0.84 mm)
599.009.17.00.40	599.009.8J.00.40	599.028.17.00.40	.040" (1.0 mm)
599.009.17.00.55	599.009.8J.00.55	599.028.17.00.55	.055" (1.40 mm)
599.009.17.00.70	599.009.8J.00.70**	599.028.17.00.70	.070" (1.78 mm)
599.009.17.00.94	599.009.8J.00.94	599.028.17.00.94	.094" (2.39 mm)
599.009.17.01.25	599.009.8J.01.25	599.028.17.01.25	.125" (3.18 mm)

* Actual orifice diameter of this ruby orifice nozzle is .032".

** Actual orifice diameter of this ruby orifice nozzle is .073".

*** With highly resistant ruby orifice for longer service.

**** For showers without self-cleaning features. When spraying down, the extension draws fresh water from the shower above the sediment level.

Solid stream nozzles Trimming Series 599

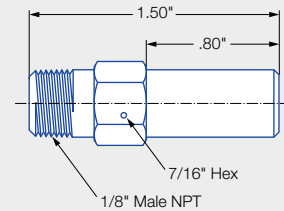
Features:

- Excellent wear resistance due to ruby orifice
- Outstanding precision
- Long operational life

Applications:

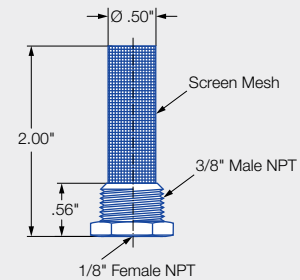
- Paper production
- Trimming
- High pressure cleaning
- Jet cuttings

- Trimming
- Weight: .05 lb.



Screen 099. 104. 17

- Trimming
- Weight: .05 lb.



Ordering number	Orifice diam. [in.]	V water [gal/min]							
		p [psi]							
		100 psi	200 psi	300 psi	400 psi	500 psi	600 psi	800 psi	1000 psi
599.128.8J.BA.15	.015	.05	.07	.09	.10	.11	.12	.14	.16
599.128.8J.BA.20	.020	.09	.13	.16	.18	.20	.22	.25	.28
599.128.8J.BA.25	.025	.14	.20	.24	.28	.31	.34	.40	.44
599.128.8J.BA.30	.030	.20	.28	.35	.40	.45	.49	.57	.63
599.128.8J.BA.35	.035	.28	.40	.48	.56	.63	.69	.79	.89
599.128.8J.BA.40	.040	.36	.51	.62	.72	.80	.88	1.02	1.14
599.128.8J.BA.45	.045	.45	.64	.78	.90	1.01	1.10	1.27	1.42
599.128.8J.BA.50	.050	.55	.78	.95	1.10	1.23	1.35	1.56	1.74

Notice:

The ruby orifice produces a tightly collimated solid stream for precise, predictable cutting action.

The optional strainer offers a convenient way to protect against clogging caused by stray fibers or loose bits of debris in your liquid supply.

The ruby orifice is permanently mounted in a brass housing. The optional strainer is 316 stainless steel.

Series 599 with Screen 099



Ordering number	Meshsize
Screen	
099.104.17.BE.05	50
099.104.17.BE.10	100
099.104.17.BE.20	200

Conversion formula for this series: $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{p_2}{p_1}}$

High pressure Series 599

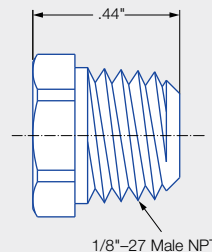
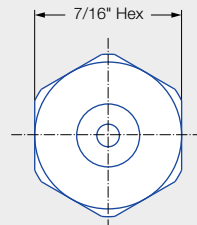


Features:

- For tight clearance installation
- Very precise, collimated stream
- Wide range of pressures
- Minimized clogging
- Facilitated cleaning
- Material 316 SS

Applications:

- Paper production
- High pressure cleaning



1/8"-27 Male NPT

Series 599

Ordering number	Orifice Diameter
599.040.17.00.15	.015" (0.38 mm)
599.040.17.00.25	.025" (0.64 mm)
599.040.17.00.31	.031" (0.79 mm)
599.040.17.00.40	.040" (1.0 mm)

