

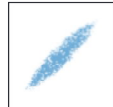
LOW FLOW FLAT FAN NOZZLES

These standard flat fan nozzles are available in a wide range of capacities, spray angles and materials. Nozzles shown on this page cover the low to minimal capacity range from 0.06 to 1.60 litres per minute. The tiny outlet orifices, machined with high precision, may require to be protected from clogging by means of an adequate filter positioned inside the supply line, depending upon the quantity and type of the solid particles suspended in the liquid. These nozzles can be made with a customized inner thread for a VEF filter (*optional). We suggest to buy these nozzles with their related VEF filter.

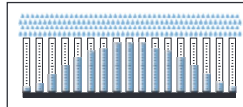


J nozzles series are also available with NPT thread: the code becomes H.

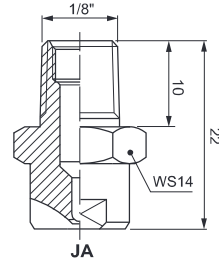
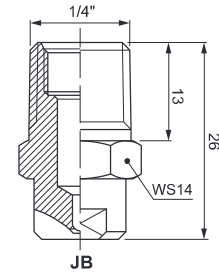
- **Thread specification:** BSPT, NPT
- **Typical applications**
 - Washing:** steel and PCB cleaning
glass substrate cleaning
 - Cooling:** steel cooling, product cooling
 - Other applications:** pre-treatment for coating process, sewage treatment system



Spray section



Convex distribution



	25°	40°	50°	65°	75°	80°	95°	110°	Capacity code	D mm	Capacity at different pressure values (l/min) (bar)							
1/8"	JAD	JAL	JAN	JAR	JAS	JAT	JAV	JAJ										
1/4"	JBD	JBL	JBN	JBR	JBS	JBT	JBV	JBj			0.7	1.0	1.5	2.0	3.0	5.0	7.0	10
0100				•					0100	0.34	0.048	0.06	0.07	0.08	0.10	0.13	0.15	0.18
0130				•					0130	0.38	0.06	0.08	0.09	0.11	0.13	0.17	0.20	0.24
0150	•	•	•	•	•	•	•	•	0150	0.40	0.07	0.09	0.11	0.12	0.15	0.19	0.23	0.27
0200	•	•	•	•	•	•	•	•	0200	0.46	0.096	0.12	0.14	0.16	0.20	0.26	0.31	0.37
0260	•	•	•	•	•	•	•	•	0260	0.53	0.10	0.15	0.18	0.21	0.26	0.34	0.40	0.47
0390	•	•	•	•	•	•	•	•	0390	0.66	0.19	0.23	0.28	0.32	0.39	0.50	0.60	0.71
0590	•	•	•	•	•	•	•	•	0590	0.79	0.28	0.34	0.42	0.48	0.59	0.76	0.90	1.08

LIMIT OF MATERIALS PROCESSING

Hard materials such as stainless steel are extremely difficult to work with small profile drills, therefore not all nozzle sizes are available in all materials. Our sales office will offer you the best choice according to the materials and specifications you require.

Material	0100	0130	0150	0200	0260	0390	0590	0780
B31 - AISI 316L SS				•	•	•	•	•(1)
B1 - AISI 303 SS	•	•	•	•	•	•	•	•(2)
T1 - Brass	•	•	•	•	•	•	•	•(2)

- (1) Low capacity body
(2) Standard capacity body

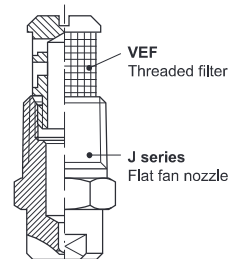
VEF THREADED FILTERS (OPTIONAL)

J series small capacity nozzles have a small diameter and can work with clean liquids. So, if you order small capacity nozzles, we suggest you to order VEF threaded filters too, to avoid clogging. Please see page 91 for more information.

Nozzle type	Thread filter code	Thread size
JA (1/8")	VEF 0411 xx	M7
JB (1/4")	VEF 0138 xx	3/8"UNF



VEF Threaded filter



HOW TO MAKE UP THE NOZZLE CODE

EX.: JAD 0130 B1

J A D 0130 xx

NOZZLE TYPE

CONNECTION

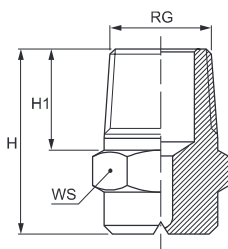
CAPACITY

SPRAY ANGLE

MATERIAL

- A - 1/8"
- B - 1/4"
- D - 25°
- L - 40°
- N - 50°
- R - 65°
- S - 75°
- V - 80°
- V - 95°
- J - 110°

- B1 - AISI 303 Stainless steel
- B31 - AISI 316L Stainless steel
- T1 - Brass



STANDARD CAPACITY FLAT FAN NOZZLES

Standard flat fan nozzles are available in a wide range of different capacities, spray angles, thread sizes and materials. Used in several industrial applications, they produce a mist spray and supply an appropriate force of impact.

Typical applications

Washing: parts cleaning, food cleaning, filter cloth cleaning

Spray: spray of chemicals, disinfectant and lubricating fluids

Cooling: metal parts and vehicles cooling

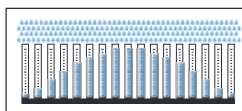
Other applications: water curtain for toxic gases separation, cleaning systems

In steelworks they are used in the pickling process to remove surface oxides layers formed during the hot metalwork.

Thread specification: BSPT, NPT



Spray section



Convex distribution



Spray angle codes

JxA	0°
JxC	20°
JxF	30°
JxM	45°
JxQ	60°
JxU	90°
JxW	120°

Thread size codes (RG)

JA	1/8"
JB	1/4"
JC	3/8"

	JAA 1/8"	JBA 1/4"	JCA 3/8"	Capacity code	D mm	Capacity at different pressure values										(l/min) (bar)
						0.5	1.0	2.0	3.0	4.0	5.0	7.0	10	20		
0°	•	•		0780	0.91	0.32	0.45	0.64	0.78	0.90	1.01	1.19	1.42	2.01		
	•	•		1120	1.10	0.49	0.69	0.98	1.20	1.39	1.55	1.83	2.19	3.10		
	•	•		1160	1.30	0.65	0.92	1.31	1.60	1.85	2.07	2.44	2.92	4.13		
	•	•		1190	1.30	0.78	1.10	1.55	1.90	2.19	2.45	2.90	3.47	4.91		
	•	•		1233	1.50	0.95	1.35	1.90	2.33	2.69	3.01	3.56	4.25	6.02		
	•	•		1310	1.70	1.27	1.79	2.53	3.10	3.58	4.00	4.74	5.66	8.00		
	•	•		1385	1.80	1.57	2.22	3.14	3.85	4.45	4.97	5.88	7.03	9.94		
	•	•		1490	2.10	2.00	2.83	4.00	4.90	5.66	6.33	7.48	8.95	12.7		
	•	•		1581	2.30	2.37	3.35	4.74	5.81	6.71	7.50	8.87	10.6	15.0		
	•	•	•	1780	2.70	3.18	4.50	6.37	7.80	9.01	10.1	11.9	14.2	20.1		
	•	•	•	1980	3.00	4.00	5.66	8.00	9.80	11.3	12.7	15.0	17.9	25.3		
	•	•	•	2124	3.40	5.06	7.16	10.1	12.4	14.3	16.0	18.9	22.6	32.0		
	•	•	•	2153	3.80	6.25	8.83	12.5	15.3	17.7	19.8	23.4	27.9	39.5		
		•	•	2195	4.30	7.96	11.3	15.9	19.5	22.5	25.2	29.8	35.6	50.3		
		•	•	2245	4.80	10.0	14.1	20.0	24.5	28.3	31.6	37.4	44.7	63.3		
		•	•	2274	5.20	11.2	15.8	22.4	27.4	31.6	35.4	41.9	50.0	70.7		
		•	•	2310	5.40	12.7	17.9	25.3	31.0	35.8	40.0	47.4	56.6	80.0		
		•	•	2390	6.00	15.9	22.5	31.8	39.0	45.0	50.3	59.6	71.2	101		
		•	•	2470	6.20	19.2	27.1	38.4	47.0	54.3	60.7	71.8	85.8	121		

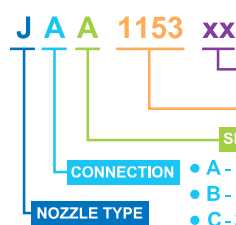
DIMENSIONS AND WEIGHTS

Code	Size (RG)	H	H1	WS	W
unit	inch	mm	mm	mm	gram
JA	1/8"	19.5	11	12	9
JB	1/4"	22.0	12	14	18
JC	3/8"	25.0	14	17	34

IMPORTANT: the nozzle Jxx 0780 B31 is made with "low capacity" body, while when it's fabricated with other materials is made with "standard capacity" body.

HOW TO MAKE UP THE NOZZLE CODE

EX.: JAA 1153 B1



- B1 - AISI 303 Stainless steel
- B31 - AISI 316L Stainless steel
- T1 - Brass
- D1 - PVC (optional)
- E1 - PTFE (optional)

	JAC 1/8"	JBC 1/4"	JCC 3/8"	Capacity code	D mm	Capacity at different pressure values									(l/min) (bar)	
						0.5	1.0	2.0	3.0	4.0	5.0	7.0	10	20		
20°	•	•		0780	0.91	0.32	0.45	0.64	0.78	0.90	1.01	1.19	1.42	2.01		
	•	•		1120	1.10	0.49	0.69	0.98	1.20	1.39	1.55	1.83	2.19	3.10		
	•	•		1160	1.30	0.65	0.92	1.31	1.60	1.85	2.07	2.44	2.92	4.13		
	•	•		1190	1.30	0.78	1.10	1.55	1.90	2.19	2.45	2.90	3.47	4.91		
	•	•		1233	1.50	0.95	1.35	1.90	2.33	2.69	3.01	3.56	4.25	6.02		
	•	•		1310	1.70	1.27	1.79	2.53	3.10	3.58	4.00	4.74	5.66	8.00		
	•	•		1385	1.80	1.57	2.22	3.14	3.85	4.45	4.97	5.88	7.03	9.94		
	•	•		1490	2.10	2.00	2.83	4.00	4.90	5.66	6.33	7.48	8.95	12.7		
	•	•		1581	2.30	2.37	3.35	4.74	5.81	6.71	7.50	8.87	10.6	15.0		
	•	•	•	1780	2.70	3.18	4.50	6.37	7.80	9.01	10.1	11.9	14.2	20.1		
	•	•	•	1980	3.00	4.00	5.66	8.00	9.80	11.3	12.7	15.0	17.9	25.3		
	•	•	•	2124	3.40	5.06	7.16	10.1	12.4	14.3	16.0	18.9	22.6	32.0		
	•	•	•	2153	3.80	6.25	8.83	12.5	15.3	17.7	19.8	23.4	27.9	39.5		
		•	•	2195	4.30	7.96	11.3	15.9	19.5	22.5	25.2	29.8	35.6	50.3		
		•	•	2245	4.80	10.0	14.1	20.0	24.5	28.3	31.6	37.4	44.7	63.3		
		•	•	2274	5.20	11.2	15.8	22.4	27.4	31.6	35.4	41.9	50.0	70.7		
		•	•	2310	5.40	12.7	17.9	25.3	31.0	35.8	40.0	47.4	56.6	80.0		
		•	•	2390	6.00	15.9	22.5	31.8	39.0	45.0	50.3	59.6	71.2	101		
			•	2470	6.20	19.2	27.1	38.4	47.0	54.3	60.7	71.8	85.8	121		

Spray angle codes

JxA	0°
JxC	20°
JxF	30°
JxM	45°
JxQ	60°
JxU	90°
JxW	120°

Thread size codes
(RG)

JA	1/8"
JB	1/4"
JC	3/8"

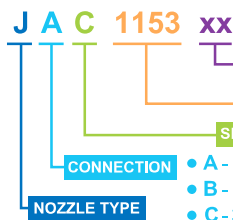
	JAF	JBF	JCF	Code	D	0.5	1.0	2.0	3.0	4.0	5.0	7.0	10	20
30°	•	•		0780	0.91	0.32	0.45	0.64	0.78	0.90	1.01	1.19	1.42	2.01
	•	•		1120	1.10	0.49	0.69	0.98	1.20	1.39	1.55	1.83	2.19	3.10
	•	•		1160	1.30	0.65	0.92	1.31	1.60	1.85	2.07	2.44	2.92	4.13
	•	•		1190	1.30	0.78	1.10	1.55	1.90	2.19	2.45	2.90	3.47	4.91
	•	•		1233	1.50	0.95	1.35	1.90	2.33	2.69	3.01	3.56	4.25	6.02
	•	•		1310	1.70	1.27	1.79	2.53	3.10	3.58	4.00	4.74	5.66	8.00
	•	•		1385	1.80	1.57	2.22	3.14	3.85	4.45	4.97	5.88	7.03	9.94
	•	•		1490	2.10	2.00	2.83	4.00	4.90	5.66	6.33	7.48	8.95	12.7
	•	•		1581	2.30	2.37	3.35	4.74	5.81	6.71	7.50	8.87	10.6	15.0
	•	•	•	1780	2.70	3.18	4.50	6.37	7.80	9.01	10.1	11.9	14.2	20.1
	•	•	•	1980	3.00	4.00	5.66	8.00	9.80	11.3	12.7	15.0	17.9	25.3
	•	•	•	2124	3.40	5.06	7.16	10.1	12.4	14.3	16.0	18.9	22.6	32.0
	•	•	•	2153	3.80	6.25	8.83	12.5	15.3	17.7	19.8	23.4	27.9	39.5
		•	•	2195	4.30	7.96	11.3	15.9	19.5	22.5	25.2	29.8	35.6	50.3
		•	•	2245	4.80	10.0	14.1	20.0	24.5	28.3	31.6	37.4	44.7	63.3
		•	•	2274	5.20	11.2	15.8	22.4	27.4	31.6	35.4	41.9	50.0	70.7
		•	•	2310	5.40	12.7	17.9	25.3	31.0	35.8	40.0	47.4	56.6	80.0
		•	•	2390	6.00	15.9	22.5	31.8	39.0	45.0	50.3	59.6	71.2	101
			•	2470	6.20	19.2	27.1	38.4	47.0	54.3	60.7	71.8	85.8	121

IMPORTANT: the nozzle Jxx 0780 B31 is made with "low capacity" body, while when it's fabricated with other materials is made with "standard capacity" body.

	JAM	JBM	JCM	Code	D	0.5	1.0	2.0	3.0	4.0	5.0	7.0	10	20
45°	•	•		0780	0.91	0.32	0.45	0.64	0.78	0.90	1.01	1.19	1.42	2.01
	•	•		1120	1.10	0.49	0.69	0.98	1.20	1.39	1.55	1.83	2.19	3.10
	•	•		1160	1.30	0.65	0.92	1.31	1.60	1.85	2.07	2.44	2.92	4.13
	•	•		1190	1.30	0.78	1.10	1.55	1.90	2.19	2.45	2.90	3.47	4.91
	•	•		1233	1.50	0.95	1.35	1.90	2.33	2.69	3.01	3.56	4.25	6.02
	•	•		1310	1.70	1.27	1.79	2.53	3.10	3.58	4.00	4.74	5.66	8.00
	•	•		1385	1.80	1.57	2.22	3.14	3.85	4.45	4.97	5.88	7.03	9.94
	•	•		1490	2.10	2.00	2.83	4.00	4.90	5.66	6.33	7.48	8.95	12.7
	•	•		1581	2.30	2.37	3.35	4.74	5.81	6.71	7.50	8.87	10.6	15.0
	•	•	•	1780	2.70	3.18	4.50	6.37	7.80	9.01	10.1	11.9	14.2	20.1
	•	•	•	1980	3.00	4.00	5.66	8.00	9.80	11.3	12.7	15.0	17.9	25.3
	•	•	•	2124	3.40	5.06	7.16	10.1	12.4	14.3	16.0	18.9	22.6	32.0
	•	•	•	2153	3.80	6.25	8.83	12.5	15.3	17.7	19.8	23.4	27.9	39.5
		•	•	2195	4.30	7.96	11.3	15.9	19.5	22.5	25.2	29.8	35.6	50.3
		•	•	2245	4.80	10.0	14.1	20.0	24.5	28.3	31.6	37.4	44.7	63.3
		•	•	2274	5.20	11.2	15.8	22.4	27.4	31.6	35.4	41.9	50.0	70.7
		•	•	2310	5.40	12.7	17.9	25.3	31.0	35.8	40.0	47.4	56.6	80.0
			•	2390	6.00	15.9	22.5	31.8	39.0	45.0	50.3	59.6	71.2	101
			•	2470	6.20	19.2	27.1	38.4	47.0	54.3	60.7	71.8	85.8	121

HOW TO MAKE UP THE
NOZZLE CODE

EX.: JAC 1153 B1



- B1 - AISI 303 Stainless steel
- B31 - AISI 316L Stainless steel
- T1 - Brass
- D1 - PVC (optional)
- E1 - PTFE (optional)

	JAQ	JBQ	JCQ	Capacity code	D mm	Capacity at different pressure values										(l/min)
	1/8"	1/4"	3/8"													(bar)
						0.5	1.0	2.0	3.0	4.0	5.0	7.0	10	20		

Spray angle codes

JxA	0°
JxC	20°
JxF	30°
JxM	45°
JxQ	60°
JxU	90°
JxW	120°

Thread size codes (RG)

JA	1/8"
JB	1/4"
JC	3/8"

IMPORTANT: the nozzle Jxx 0780 B31 is made with "low capacity" body, while when it's fabricated with other materials is made with "standard capacity" body.

60°																
•	•	•	•	0780	0.91	0.32	0.45	0.64	0.78	0.90	1.01	1.19	1.42	2.01		
•	•	•	•	1120	1.10	0.49	0.69	0.98	1.20	1.39	1.55	1.83	2.19	3.10		
•	•	•	•	1160	1.30	0.65	0.92	1.31	1.60	1.85	2.07	2.44	2.92	4.13		
•	•	•	•	1190	1.30	0.78	1.10	1.55	1.90	2.19	2.45	2.90	3.47	4.91		
•	•	•	•	1233	1.50	0.95	1.35	1.90	2.33	2.69	3.01	3.56	4.25	6.02		
•	•	•	•	1310	1.70	1.27	1.79	2.53	3.10	3.58	4.00	4.74	5.66	8.00		
•	•	•	•	1385	1.80	1.57	2.22	3.14	3.85	4.45	4.97	5.88	7.03	9.94		
•	•	•	•	1490	2.10	2.00	2.83	4.00	4.90	5.66	6.33	7.48	8.95	12.7		
•	•	•	•	1581	2.30	2.37	3.35	4.74	5.81	6.71	7.50	8.87	10.6	15.0		
•	•	•	•	1780	2.70	3.18	4.50	6.37	7.80	9.01	10.1	11.9	14.2	20.1		
•	•	•	•	1980	3.00	4.00	5.66	8.00	9.80	11.3	12.7	15.0	17.9	25.3		
•	•	•	•	2124	3.40	5.06	7.16	10.1	12.4	14.3	16.0	18.9	22.6	32.0		
•	•	•	•	2153	3.80	6.25	8.83	12.5	15.3	17.7	19.8	23.4	27.9	39.5		
•	•	•	•	2195	4.30	7.96	11.3	15.9	19.5	22.5	25.2	29.8	35.6	50.3		
•	•	•	•	2245	4.80	10.0	14.1	20.0	24.5	28.3	31.6	37.4	44.7	63.3		
•	•	•	•	2274	5.20	11.2	15.8	22.4	27.4	31.6	35.4	41.9	50.0	70.7		
•	•	•	•	2310	5.40	12.7	17.9	25.3	31.0	35.8	40.0	47.4	56.6	80.0		
•	•	•	•	2390	6.00	15.9	22.5	31.8	39.0	45.0	50.3	59.6	71.2	101		
•	•	•	•	2470	6.20	19.2	27.1	38.4	47.0	54.3	60.7	71.8	85.8	121		

90°	JAU	JBU	JCU	Codice	D	0.5	1.0	2.0	3.0	4.0	5.0	7.0	10	20
•	•	•	•	0780	0.91	0.32	0.45	0.64	0.78	0.90	1.01	1.19	1.42	2.01
•	•	•	•	1120	1.10	0.49	0.69	0.98	1.20	1.39	1.55	1.83	2.19	3.10
•	•	•	•	1160	1.30	0.65	0.92	1.31	1.60	1.85	2.07	2.44	2.92	4.13
•	•	•	•	1190	1.30	0.78	1.10	1.55	1.90	2.19	2.45	2.90	3.47	4.91
•	•	•	•	1233	1.50	0.95	1.35	1.90	2.33	2.69	3.01	3.56	4.25	6.02
•	•	•	•	1310	1.70	1.27	1.79	2.53	3.10	3.58	4.00	4.74	5.66	8.00
•	•	•	•	1385	1.80	1.57	2.22	3.14	3.85	4.45	4.97	5.88	7.03	9.94
•	•	•	•	1490	2.10	2.00	2.83	4.00	4.90	5.66	6.33	7.48	8.95	12.7
•	•	•	•	1581	2.30	2.37	3.35	4.74	5.81	6.71	7.50	8.87	10.6	15.0
•	•	•	•	1780	2.70	3.18	4.50	6.37	7.80	9.01	10.1	11.9	14.2	20.1
•	•	•	•	1980	3.00	4.00	5.66	8.00	9.80	11.3	12.7	15.0	17.9	25.3
•	•	•	•	2124	3.40	5.06	7.16	10.1	12.4	14.3	16.0	18.9	22.6	32.0
•	•	•	•	2153	3.80	6.25	8.83	12.5	15.3	17.7	19.8	23.4	27.9	39.5
•	•	•	•	2195	4.30	7.96	11.3	15.9	19.5	22.5	25.2	29.8	35.6	50.3
•	•	•	•	2245	4.80	10.0	14.1	20.0	24.5	28.3	31.6	37.4	44.7	63.3
•	•	•	•	2274	5.20	11.2	15.8	22.4	27.4	31.6	35.4	41.9	50.0	70.7
•	•	•	•	2310	5.40	12.7	17.9	25.3	31.0	35.8	40.0	47.4	56.6	80.0
•	•	•	•	2390	6.00	15.9	22.5	31.8	39.0	45.0	50.3	59.6	71.2	101
•	•	•	•	2470	6.20	19.2	27.1	38.4	47.0	54.3	60.7	71.8	85.8	121

120°	JAW	JBW	JCW	Codice	D	0.5	1.0	2.0	3.0	4.0	5.0	7.0	10	20
•	•	•	•	0780	0.91	0.32	0.45	0.64	0.78	0.90	1.01	1.19	1.42	2.01
•	•	•	•	1120	1.10	0.49	0.69	0.98	1.20	1.39	1.55	1.83	2.19	3.10
•	•	•	•	1160	1.30	0.65	0.92	1.31	1.60	1.85	2.07	2.44	2.92	4.13
•	•	•	•	1190	1.30	0.78	1.10	1.55	1.90	2.19	2.45	2.90	3.47	4.91
•	•	•	•	1233	1.50	0.95	1.35	1.90	2.33	2.69	3.01	3.56	4.25	6.02
•	•	•	•	1310	1.70	1.27	1.79	2.53	3.10	3.58	4.00	4.74	5.66	8.00
•	•	•	•	1385	1.80	1.57	2.22	3.14	3.85	4.45	4.97	5.88	7.03	9.94
•	•	•	•	1490	2.10	2.00	2.83	4.00	4.90	5.66	6.33	7.48	8.95	12.7
•	•	•	•	1581	2.30	2.37	3.35	4.74	5.81	6.71	7.50	8.87	10.6	15.0
•	•	•	•	1780	2.70	3.18	4.50	6.37	7.80	9.01	10.1	11.9	14.2	20.1
•	•	•	•	1980	3.00	4.00	5.66	8.00	9.80	11.3	12.7	15.0	17.9	25.3
•	•	•	•	2124	3.40	5.06	7.16	10.1	12.4	14.3	16.0	18.9	22.6	32.0
•	•	•	•	2153	3.80	6.25	8.83	12.5	15.3	17.7	19.8	23.4	27.9	39.5
•	•	•	•	2195	4.30	7.96	11.3	15.9	19.5	22.5	25.2	29.8	35.6	50.3
•	•	•	•	2245	4.80	10.0	14.1	20.0	24.5	28.3	31.6	37.4	44.7	63.3
•	•	•	•	2274	5.20	11.2	15.8	22.4	27.4	31.6	35.4	41.9	50.0	70.7
•	•	•	•	2310	5.40	12.7	17.9	25.3	31.0	35.8	40.0	47.4	56.6	80.0
•	•	•	•	2390	6.00	15.9	22.5	31.8	39.0	45.0	50.3	59.6	71.2	101
•	•	•	•	2470	6.20	19.2	27.1	38.4	47.0	54.3	60.7	71.8	85.8	121

HOW TO MAKE UP THE NOZZLE CODE

EX.: JAQ 1153 B1

J A Q 1153 xx

CONNECTION • A - 1/8"
• B - 1/4"
• C - 3/8"

NOZZLE TYPE • A - 0°
• C - 20°
• F - 30°
• M - 45°

SPRAY ANGLE • Q - 60°
• U - 90°
• W - 120°

CAPACITY

MATERIAL • B1 - AISI 303 Stainless steel
• B31 - AISI 316L Stainless steel
• T1 - Brass
• D1 - PVC (optional)
• E1 - PTFE (optional)

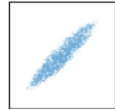


LARGE CAPACITY FLAT FAN NOZZLES

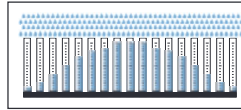
J series standard flat fan nozzles are available in a wide range of different capacities, spray angles, thread sizes and materials. The large capacity models produce a high-impact spray jet with a mist effect and a powerful washing action.



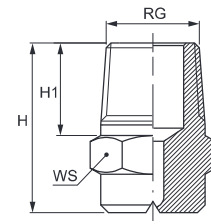
Thread specification: BSPT, NPT



Spray section



Convex distribution



	1/2"	3/4"	1"	Code	Capacity at different pressure values									(l/min) (bar)	
					0.5	1.0	2.0	3.0	4.0	5.0	7.0	10	20		
0°	•			JDA 2590 xx	24.1	34.1	48.2	59.0	68.1	76.2	90.1	108	152		
	•			JDA 2780 xx	31.8	45.0	63.7	78.0	90.1	101	119	142	201		
		•		JEA 3134 xx	54.7	77.4	109	134	155	173	205	245	346		
		•		JEA 3275 xx	112	159	225	275	318	355	420	502	710		
			•	JFA 3390 xx	159	225	318	390	450	503	596	712	1007		
15°			•	JFA 3435 xx	178	251	355	435	502	562	664	794	1123		
	•			JDB 2195 xx	7.96	11.3	15.9	19.5	22.5	25.2	29.8	35.6	50.3		
	•			JDB 2274 xx	11.2	15.8	22.4	27.4	31.6	35.4	41.9	50.0	70.7		
	•			JDB 2390 xx	15.9	22.5	31.8	39.0	45.0	50.3	59.6	71.2	101		
		•		JEB 2990 xx	40.4	57.2	80.8	99.0	114	128	151	181	256		
25°	•			JDD 2390 xx	15.9	22.5	31.8	39.0	45.0	50.3	59.6	71.2	101		
	•			JDD 2590 xx	24.1	34.1	48.2	59.0	68.1	76.2	90.1	108	152		
	•			JDD 2780 xx	31.8	45.0	63.7	78.0	90.1	101	119	142	201		
			•	JFD 3195 xx	79.6	113	159	195	225	252	298	356	503		
	•			JDL 2195 xx	7.96	11.3	15.9	19.5	22.5	25.2	29.8	35.6	50.3		
40°	•			JDL 2240 xx	9.80	13.9	19.6	24.0	27.7	31.0	36.7	43.8	62.0		
	•			JDL 2274 xx	11.2	15.8	22.4	27.4	31.6	35.4	41.9	50.0	70.7		
	•			JDL 2390 xx	15.9	22.5	31.8	39.0	45.0	50.3	59.6	71.2	101		
	•			JDL 2590 xx	24.1	34.1	48.2	59.0	68.1	76.2	90.1	108	152		
	•			JDN 2274 xx	11.2	15.8	22.4	27.4	31.6	35.4	41.9	50.0	70.7		
50°	•			JDN 2390 xx	15.9	22.5	31.8	39.0	45.0	50.3	59.6	71.2	101		
	•			JDN 2590 xx	24.1	34.1	48.2	59.0	68.1	76.2	90.1	108	152		
	•			JDN 2780 xx	31.8	45.0	63.7	78.0	90.1	101	119	142	201		
		•		JEN 3158 xx	64.5	91.2	129	158	182	204	241	288	408		
			•	JFN 3195 xx	79.6	113	159	195	225	252	298	356	503		
65°			•	JFN 3230 xx	93.9	133	188	230	266	297	351	420	594		
	•			JDR 2195 xx	7.96	11.3	15.9	19.5	22.5	25.2	29.8	35.6	50.3		
	•			JDR 2240 xx	9.80	13.9	19.6	24.0	27.7	31.0	36.7	43.8	62.0		
	•			JDR 2274 xx	11.2	15.8	22.4	27.4	31.6	35.4	41.9	50.0	70.7		
	•			JDR 2390 xx	15.9	22.5	31.8	39.0	45.0	50.3	59.6	71.2	101		
80°	•			JDR 2590 xx	24.1	34.1	48.2	59.0	68.1	76.2	90.1	108	152		
			•	JFR 2780 xx	31.8	45.0	63.7	78.0	90.1	101	119	142	201		
	•			JDT 2195 xx	7.96	11.3	15.9	19.5	22.5	25.2	29.8	35.6	50.3		
	•			JDT 2240 xx	9.80	13.9	19.6	24.0	27.7	31.0	36.7	43.8	62.0		
	•			JDT 2274 xx	11.2	15.8	22.4	27.4	31.6	35.4	41.9	50.0	70.7		
95°	•			JDT 2390 xx	15.9	22.5	31.8	39.0	45.0	50.3	59.6	71.2	101		
	•			JDT 2590 xx	24.1	34.1	48.2	59.0	68.1	76.2	90.1	108	152		
	•			JDT 2780 xx	31.8	45.0	63.7	78.0	90.1	101	119	142	201		
		•		JET 2780 xx	31.8	45.0	63.7	78.0	90.1	101	119	142	201		
		•		JET 3158 xx	64.5	91.2	129	158	182	204	241	288	408		
	•			JDV 2195 xx	7.96	11.3	15.9	19.5	22.5	25.2	29.8	35.6	50.3		
	•			JDV 2240 xx	9.80	13.9	19.6	24.0	27.7	31.0	36.7	43.8	62.0		
	•			JDV 2274 xx	11.2	15.8	22.4	27.4	31.6	35.4	41.9	50.0	70.7		
	•			JDV 2390 xx	15.9	22.5	31.8	39.0	45.0	50.3	59.6	71.2	101		
	•			JDV 2590 xx	24.1	34.1	48.2	59.0	68.1	76.2	90.1	108	152		

SPRAY ANGLE CODES

Nozzle code	Spray angle
JDA	0°
JDB	15°
JDD	25°
JDL	40°
JDN	50°
JDR	65°
JDT	80°
JDV	95°

DIMENSIONS AND WEIGHTS

Below are dimensions and specifications for use.

Code	Size	H	H1	WS	W
		inch	mm	mm	gram
JD	1/2"	33	17	22	65
JE	3/4"	41	20	27	130
JF	1"	61	22	27	215

Typical applications

Washing

Tanks, large parts and vehicles cleaning

Spray

Spray of chemicals
Disinfectants and lubricating fluids

Cooling

Parts cooling
Steel cooling

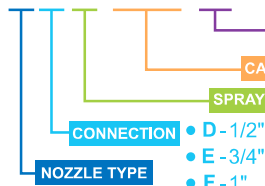
Other applications

Water curtain to separate toxic gases
Fire-fighting systems

HOW TO MAKE UP THE NOZZLE CODE

EX.: JDA 2590 B1

J D A 2590 xx



MATERIAL

- B1 - AISI 303 Stainless steel
- B31 - AISI 316L Stainless steel
- T1 - Brass

CAPACITY

SPRAY ANGLE

- A-0°
- B-15°
- D-25°
- L-40°
- N-50°
- R-65°
- T-80°
- V-95°

CONNECTION

- D-1/2"
- E-3/4"
- F-1"

NOZZLE TYPE