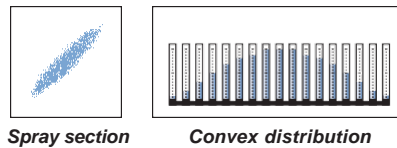


## LARGE SPRAY ANGLE

K flat fan nozzles work on the deflection principle conveying a water vein onto a machined deflection surface, and produce a jet with a wide angle flat spray pattern, medium impact value and medium size droplets. Between their inlet orifice and spray orientation there is a 75° angle (see below). Their round outlet orifice and free inside passage minimize the risk of clogging. In addition, compared to standard flat fan nozzles working with a limited operating pressure, the K series models with large spray angles produce an excellent mist effect. These K nozzles are available with threaded connections, for capacities from 0390 and 3350, and also as tips to be assembled onto a nipple by means of a retaining nut. An alternative option are the KX types.

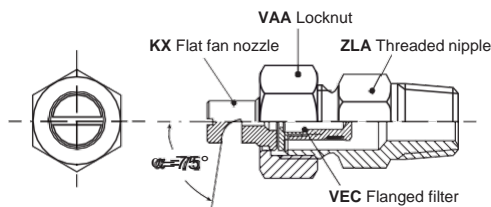
■ Thread specification: BSPT, NPT



## THREAD SIZE AND DIMENSIONS

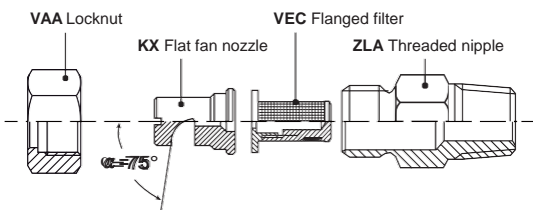
Here below please find available thread sizes and nozzles dimensions. Different capacities correspond to different deflection angles. The external dimensions may differ even if the thread size is the same. The table includes the largest nozzles with a given thread size. Please contact our Sales department for more information.

Code	Thread size (RG) inch	H mm	H1 mm	WS mm
KGW	1/8"	31	10.0	14
KH W	1/4"	34	12.5	14
K I W	3/8"	44	13.0	17
K J W	1/2"	49	17.0	22
KK W	3/4"	65	20.0	36
K L W	1"	92	26.0	46



## ASSEMBLY FITTINGS

The below illustration shows the assembly of a KX nozzle tip (in the middle) with a nipple and a locknut.



Locknut Flat fan nozzle Welding nipple

## Typical applications

**Washing:** fruits, vegetables, crushed stones, other

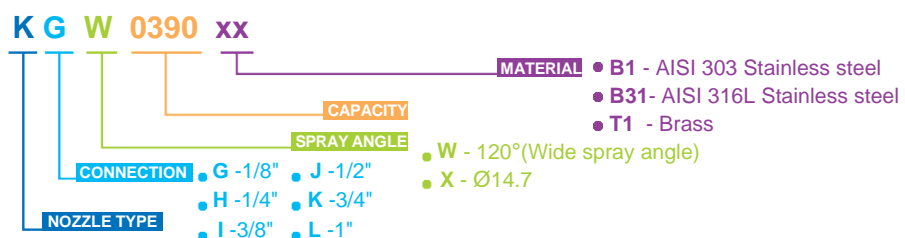
**Spray:** rolling oil, release agents, coolants

**Cooling:** metal parts, bottles

**Other applications:** foam dispersion, fire-fighting systems, water curtains

### HOW TO MAKE UP THE NOZZLE CODE

EX.: KGW 0390 B1













LARGE SPRAY ANGLE

KGW 1/8"	KHW 1/4"	KIW 3/8"	KJW 1/2"	KKW 3/4"	KLW 1"	KXW	D mm	Code	Capacity at different pressure values (l/min)							Spray angle (°) at pressure (bar)	
									0.5	1.0	2.0	3.0	4.0	5.0	7.0	1.5	4.0
•						•	0.6	0390	0.16	0.23	0.32	0.39	0.45	0.50	0.60	90°	120°
•						•	0.7	0590	0.24	0.34	0.48	0.59	0.68	0.76	0.90	105°	120°
•						•	0.8	0780	0.32	0.45	0.64	0.78	0.90	1.01	1.19	110°	125°
•						•	1.0	1120	0.49	0.69	0.98	1.20	1.39	1.55	1.83	105°	122°
•	•					•	1.1	1160	0.65	0.92	1.31	1.60	1.85	2.07	2.44	110°	130°
•	•					•	1.3	1200	0.82	1.15	1.63	2.00	2.31	2.58	3.06	120°	130°
•	•					•	1.4	1230	0.94	1.33	1.88	2.30	2.66	2.97	3.51	110°	125°
•	•					•	1.6	1310	1.27	1.79	2.53	3.10	3.58	4.00	4.74	120°	130°
•	•					•	1.8	1390	1.59	2.25	3.18	3.90	4.50	5.03	5.96	130°	140°
•	•					•	2.3	1590	2.41	3.41	4.82	5.90	6.81	7.62	9.01	120°	130°
•	•					•	2.6	1780	3.18	4.50	6.37	7.80	9.01	10.1	11.9	130°	140°
•	•					•	2.9	1940	3.84	5.43	7.68	9.40	10.9	12.1	14.4	140°	150°
•	•					•	3.3	2117	4.78	6.75	9.55	11.7	13.5	15.1	17.9	110°	120°
•	•					•	3.6	2141	5.76	8.14	11.5	14.1	16.3	18.2	21.5	120°	130°
•	•					•	3.8	2157	6.41	9.06	12.8	17.2	18.1	20.3	24.0	120°	130°
	•					•	4.0	2172	7.02	9.93	14.0	18.8	19.9	22.2	26.3	125°	135°
	•					•	4.1	2188	7.68	10.9	15.4	21.0	21.7	24.3	28.7	130°	140°
	•					•	4.4	2210	8.57	12.1	17.1	23.0	24.2	27.1	32.1	135°	145°
		•				•	4.5	2230	9.39	13.3	18.8	27.0	26.6	29.7	35.1	110°	120°
		•				•	5.0	2270	11.0	15.6	22.0	31.0	31.2	34.9	41.2	115°	125°
		•	•			•	5.3	2310	12.7	17.9	25.3	35.0	35.8	40.0	47.4	125°	135°
		•	•			•	5.6	2350	14.3	20.2	28.6	39.0	40.4	45.2	53.5	130°	140°
			•			•	6.0	2390	15.9	22.5	31.8	47.0	45.0	50.3	59.6	130°	140°
			•			•	6.5	2470	19.2	27.1	38.4	55.0	54.3	60.7	71.8	135°	140°
			•			•	7.1	2550	22.5	31.8	44.9	63.0	63.5	71.0	84.0	135°	145°
			•			•	7.5	2630	25.7	36.4	51.4	70.0	72.7	81.3	96.2	140°	150°
				•		•	8.0	2700	28.6	40.4	57.2	78.0	80.8	90.4	107	130°	140°
				•		•	8.4	2780	31.8	45.0	63.7	86.0	90.1	101	119	135°	145°
				•		•	8.7	2860	35.1	49.7	70.2	94.0	99.3	111	131	135°	145°
				•		•	9.3	2940	38.4	54.3	76.8	110	109	121	144	140°	150°
				•		•	10.3	3110	44.9	63.5	89.8	125	127	142	168	125°	135°
				•		•	11.0	3125	51.0	72.2	102	141	144	161	191	130°	135°
				•		•	11.4	3141	57.6	81.4	115	164	163	182	215	130°	135°
				•		•	12.2	3164	67.0	94.7	134	180	189	212	251	135°	145°
					•	•	14.6	3235	95.9	136	192	235	271	303	359	130°	135°
					•	•	17.9	3350	143	202	286	350	404	452	535	130°	135°

ASSEMBLY ACCESSORIES

KX series nozzles are assembled with pipe clamp, welding nipple and locknut.

Our assembly accessories are available in many different types and materials. Please see on page 44 for more information.

Name	Code and material	Appearance	Model no.	
			3/8" Standard size	3/4" Large size
<b>Locknut</b> 	<b>B1</b> - AISI 303 SS <b>B3</b> - AISI 316 SS <b>T1</b> - Brass <b>D6</b> - Fiberglass reinforced PP		VAA 0380 <b>xx</b>	VAA 0750 <b>xx</b>
<b>Welding nipple</b> 	<b>B1</b> - AISI 303 SS <b>B31</b> - AISI 316L SS		ZAA 1738 <b>xx</b>	ZAA 2775 <b>xx</b>
<b>Threaded nipple</b> 	<b>B1</b> - AISI 303 SS <b>B31</b> - AISI 316L SS <b>T1</b> - Brass		ZLA 2538 <b>xx</b>	ZLA 7575 <b>xx</b>
<b>Metal pipe clamp</b> 	<b>B1</b> - AISI 303 SS <b>T1</b> - Brass		ZPM	-
<b>Plastic pipe clamp</b> 	<b>D6</b> - Fiberglass reinforced PP		ZPB 0050 D6	-

FLAT FAN NOZZLES