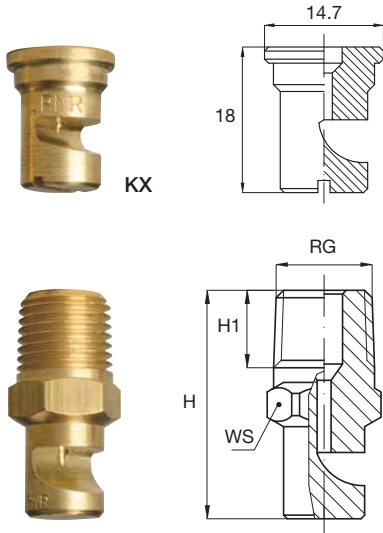


## FLAT FAN JET NOZZLES

### K



#### LARGE SPRAY ANGLE

Our K style flat fan jet nozzles work on a deflection principle; liquid flow is directed through the nozzle orifice onto a specifically engineered surface to produce a wide angle flat fan jet spray pattern, with medium impact value and medium size droplets.

The round outlet orifice on these nozzles and the unobstructed inside passages minimize the risk of clogging.

K style nozzles shown on the next page are available with a threaded connection and for flow capacity sizes 0390 to 2310; they are also available as a nozzle tip secured in place by a retaining nut.

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

#### Thread size and dimensions

Code	RG inch	H mm	H1 mm	WS mm
KGW	1/8	25	10	14
KHW	1/4	34	12.5	14
KIW	3/8	44	13	17
KJW	1/2	49	17	22
KKW	3/4	65	20	36
KLW	1	92	26	46

#### How to compose the nozzle code

The nozzle shown on the next page can be supplied with same capacity and with different connection threads, the size is indicated by the second digit in the nozzle code. Therefore, the nozzle code is as shown in the following example.

KJW 2470 B31

1/2"

#### Nozzle dimensions

Some nozzles may have different dimensions even when made with the same thread.

Dimensions given above always refer to the largest nozzle with a given thread size.

Please contact our offices for more detailed information on this.

#### Typical applications

- Washing of fruits, vegetables, crushed stones & aggregates and any other product moving on a conveyor.
- Cooling and washing of vertical surfaces and also for fire fighting purposes.

## FLAT FAN JET NOZZLES

K

## LARGE SPRAY ANGLE

KGW	KHW	KIW	KJW	KKW	KLW	KXW	D mm	Code	Capacity at different pressure values						lpm bar		Spray angle at press 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	15.7	18.1	20.3	24.0	120	130	
•	•					•	4.0	2172	7.02	9.93	14.0	17.2	19.9	22.2	26.3	125	135	
•	•					•	4.1	2188	7.68	10.9	15.4	18.8	21.7	24.3	28.7	130	140	
•	•					•	4.4	2210	8.57	12.1	17.1	21.0	24.2	27.1	32.1	135	145	
•	•					•	4.5	2230	9.39	13.3	18.8	23.0	26.6	29.7	35.1	110	120	
•	•					•	5.0	2270	11.0	15.6	22.0	27.0	31.2	34.9	41.2	115	125	
•	•	•				•	5.3	2310	12.7	17.9	25.3	31.0	35.8	40.0	47.4	125	135	
•	•	•	•			•	5.6	2350	14.3	20.2	28.6	35.0	40.4	45.2	53.5	130	140	
•	•	•	•			•	6.0	2390	15.9	22.5	31.8	39.0	45.0	50.3	59.6	130	140	
•	•	•	•			•	6.5	2470	19.2	27.1	38.4	47.0	54.3	60.7	71.8	135	140	
•	•	•	•			•	7.1	2550	22.5	31.8	44.9	55.0	63.5	71.0	84.0	135	145	
•	•	•	•			•	7.5	2630	25.7	36.4	51.4	63.0	72.7	81.3	96.2	140	150	
•	•	•	•	•		•	8.0	2700	28.6	40.4	57.2	70.0	80.8	90.4	107	130	140	
•	•	•	•	•		•	8.4	2780	31.8	45.0	63.7	78.0	90.1	101	119	135	145	
•	•	•	•	•		•	8.7	2860	35.1	49.7	70.2	86.0	99.3	111	131	135	145	
•	•	•	•	•		•	9.3	2940	38.4	54.3	76.8	94.0	109	121	144	140	150	
•	•	•	•	•		•	10.3	3110	44.9	63.5	89.8	110	127	142	168	125	135	
•	•	•	•	•		•	11.0	3125	51.0	72.2	102	125	144	161	191	130	135	
•	•	•	•	•		•	11.4	3141	57.6	81.4	115	141	163	182	215	130	135	
•	•	•	•	•		•	12.2	3164	67.0	94.7	134	164	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	



ZAA 1738 xx



VAA 0038 xx

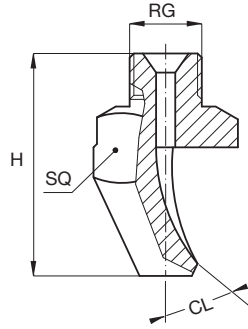
**Assembly accessories**

KXW tips are normally secured with a retaining nut onto a welded nipple.

All details on accessories are shown in our catalogue CTG AC.

FLAT FAN JET NOZZLES

K



HIGH IMPACT TYPES

Our K style flat fan jet nozzles work on a deflection principle; liquid flow is directed through the nozzle orifice onto a specifically engineered surface. This produces a narrow liquid jet with a flat fan jet spray pattern, high impact value and with medium size droplets. The round outlet orifice on these nozzles and the unobstructed inside passages minimize the risk of clogging.

K style nozzles shown on this page are available with a threaded connection and for the flow capacities shown in the page; they are also available with a quick coupling connection for assembly onto the matching quick connection nipple. See ZHS fittings at the bottom of the page.

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

Thread size code

KOx	1/8"
KPx	1/4"
KQx	3/8"
KRx	1/2"
KSx	3/4"
KTx	QC

How to compose the nozzle code

The nozzle shown on this page can be supplied with the same flow capacity but with a different connection thread. The size indicated by the second digit in the nozzle code. Therefore, the nozzle code is shown in the following example.

KQB 2195 B31  
|  
3/8"

Quick coupling nipples

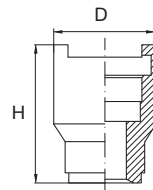
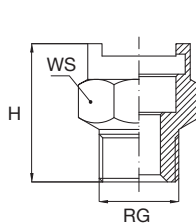
	Thread size inch	Standard size	Large size	H mm	WS mm	D mm
Male nipple	1/4	ZHS 0025 xx		29	22	
	3/8	ZHS 0038 xx		29	22	
	1/2		ZHS 0050 xx	35	30	
Female nipple	3/8	ZHT 0038 xx		29	22	
Welding nipple		ZHU 0038 xx	ZHU 0050 xx	32		28
Seal (Viton) for SS nipples	All	VDH 0026 E7	VDH 0050 E7			
Seal (BUNA) for brass nipples	All	VDH 0026 E8	VDH 0050 E8			



ZHS V025 xxQ1



ZHS V050 xxQ2



ZHU 0038 xx

## FLAT FAN JET NOZZLES

# K

### HIGH IMPACT TYPES

◁	1/8"	1/4"	3/8"	1/2"	3/4"	QC	Code	DIA mm	Capacity at different pressure values								lpm bar	CL deg	H mm	SQ mm
									2.0	3.0	4.0	5.0	6.0	7.0	10					
15°		KPB KPB	KQB KQB KQB				1390	1.9	3.18	3.90	4.50	5.03	5.52	5.96	7.12	22	48	15		
							1780	2.6	6.37	7.80	9.01	10.1	11.0	11.9	14.2	19	54	15		
							2117	3.2	9.55	11.7	13.5	15.1	16.5	17.9	21.4	25	72	20		
							2156	3.7	12.7	15.6	18.0	20.1	22.1	23.8	28.5	18	92	20		
							2195	4.2	15.9	19.5	22.5	25.2	27.6	29.8	35.6	15	90	20		
							2230	4.6	18.8	23.0	26.6	29.7	32.5	35.1	42.0	14	125	25		
							2310	5.3	25.3	31.0	35.8	40.0	43.8	47.4	56.6	14	130	25		
							2390	5.9	31.8	39.0	45.0	50.3	55.2	59.6	71.2	14	137	25		
							2780	8.4	63.7	78.0	90.1	101	110	119	142	14	191	30		
							25°		KPD					2156	3.7	12.7	15.6	18.0	20.1	22.1
35°	KOH	KPH KPH	KQH KQH KQH KQH KQH				1160	1.2	1.31	1.60	1.85	2.07	2.26	2.44	2.92	40	23	12		
							1390	1.9	3.18	3.90	4.50	5.03	5.52	5.96	7.12	36	37	15		
							1780	2.6	6.37	7.80	9.01	10.1	11.0	11.9	14.2	30	43	20		
							1980	2.9	8.00	9.80	11.3	12.7	13.9	15.0	17.9	28	49	20		
							2117	3.3	9.55	11.7	13.5	15.1	16.5	17.9	21.4	28	52	20		
							2156	3.7	12.7	15.6	18.0	20.1	22.1	23.8	28.5	26	58	20		
							2195	4.1	15.9	19.5	22.5	25.2	27.6	29.8	35.6	23	64	20		
							2230	4.5	18.8	23.0	26.6	29.7	32.5	35.1	42.0	22	73	25		
							2310	5.3	25.3	31.0	35.8	40.0	43.8	47.4	56.6	24	81	25		
							2390	5.9	31.8	39.0	45.0	50.3	55.2	59.6	71.2	19	89	25		
2630	7.5	51.4	63.0	72.7	81.3	89.1	96.2	115	23	114	32									
2780	8.4	63.7	78.0	90.1	101	110	119	142	22	122	32									
40°			KQL				2156	3.7	12.7	15.6	18.0	20.1	22.1	23.8	28.5	35	60	20		
			KQL				2195	4.1	15.9	19.5	22.5	25.2	27.6	29.8	35.6	33	64	25		
			KQL				2230	4.5	18.8	23.0	26.6	29.7	32.5	35.1	42.0	33	72	25		
			KQL				2270	5.0	22.0	27.0	31.2	34.9	38.2	41.2	49.3	29	75	25		
			KQL				2310	5.2	25.3	31.0	35.8	40.0	43.8	47.4	56.6	26	77	25		
			KQL				2350	5.7	28.6	35.0	40.4	45.2	49.5	53.5	63.9	28	77	25		
			KQL				2390	6.0	31.8	39.0	45.0	50.3	55.2	59.6	71.2	28	87	25		
			50°					KPN KPN KPN	KQN KQN KQN KQN KQN KQN KQN				1390	1.9	3.18	3.90	4.50	5.03	5.52	5.96
1980	2.9	8.00	9.80	11.3	12.7	13.9							15.0	17.9	42	41	20			
2156	3.7	12.7	15.6	18.0	20.1	22.1							23.8	28.5	45	47	20			
2230	4.5	18.8	23.0	26.6	29.7	32.5							35.1	42.0	37	55	25			
2390	6.0	31.8	39.0	45.0	50.3	55.2							59.6	71.2	40	72	30			
2490	6.7	40.0	49.0	56.6	63.3	69.3							74.8	89.5	38	72	30			
2630	7.5	51.4	63.0	72.7	81.3	89.1							96.2	115	37	72	30			
2780	8.4	63.7	78.0	90.1	101	110							119	142	32	72	30			

### Nozzle dimensions

Some nozzles may have different dimensions even when made with the same thread.

Dimensions given above always refer to the largest nozzle with a given thread size.

Please contact our offices for more detailed information.

### Typical Applications

- Washing of fruits, vegetables, crushed stones and any other product moving on a conveyor.
- High pressure cleaning processes
- Felt washing in paper making machines.