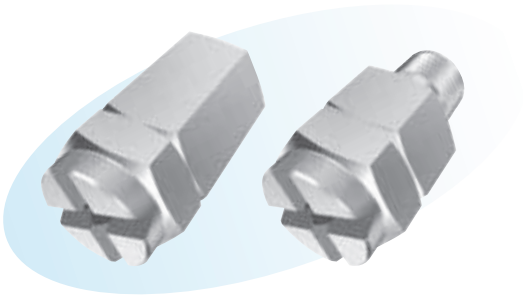
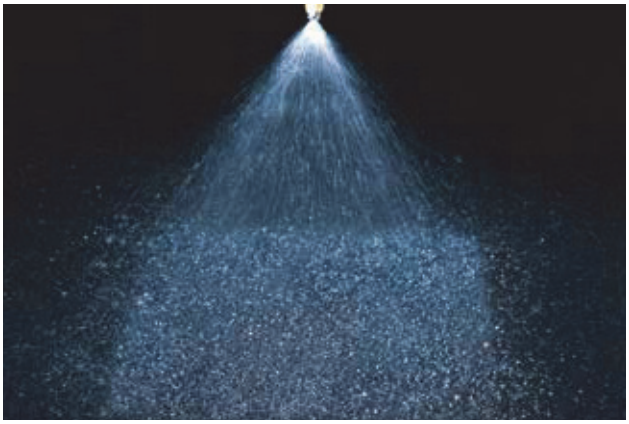
Square Spray Nozzle Separate type





Features

- Relatively small droplet.
- Wide-area spraying.
- Because of its square spray pattern, no clearance produced in multiple-nozzle arrangement, being different from full-cone nozzle where the spray pattern is circular.
- Easy disassembly and cleaning.

Applications

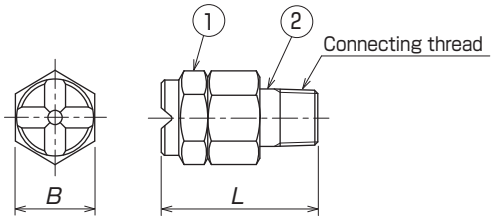
- Cooling of steel sheets.
- Various washing purposes.

Materials

- 303 Stainless steel
- Brass

Shapes and dimensions

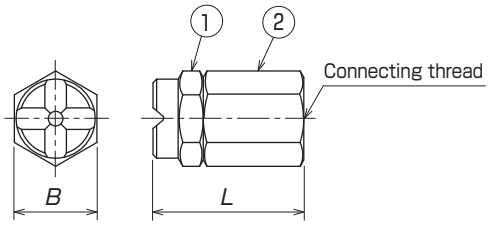
KS····SQ, Male thread type



Model	Dimension [mm]		Connecting thread	Weight [g]
	B	*L*		
1/4 KS····SQ	19	35	R 1/4	55
3/8 KS····SQ	23	42	R 3/8	90
1/2 KS····SQ	29	56	R 1/2	200
3/4 KS····SQ	32	64	R 3/4	270
1 KS····SQ	41	75	R 1	530

No.	Part name
1	Nozzle tip
2	Adapter

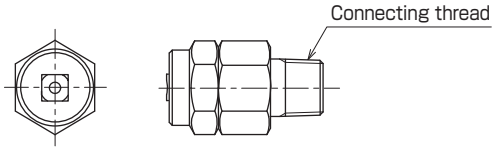
KS····SQG, Female thread type



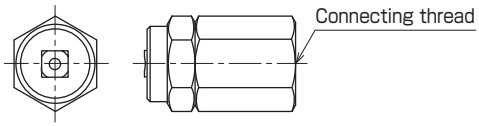
Model	Dimension [mm]		Connecting thread	Weight [g]
	B	*L*		
1/4 KS····SQG	19	35	Rc 1/4	60
3/8 KS····SQG	23	42	Rc 3/8	100
1/2 KS····SQG	29	56	Rc 1/2	220
3/4 KS····SQG	32	64	Rc 3/4	280
1 KS····SQG	41	75	Rc 1	550

*NPT thread is also available.

KS····WSQ, Male thread type



KS····WSQG, Female thread type



*When the injection angle is 90° or more, the shape of the orifice section may be different depending on the specification.

Model and Model Number representing

1/4 K S 0690 S Q

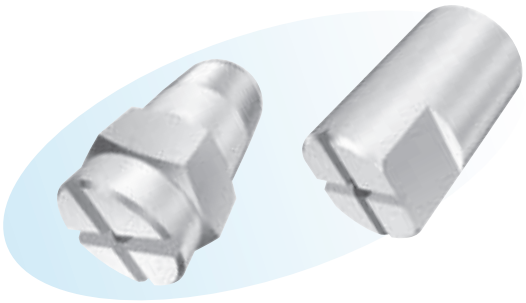
- 1/4 — Thread size
- K S — Material: S - Stainless steel, B - Brass
- 0690 — Model number

● Standard type model number list (model: KS····SQ / KS····SQG)

●: Model availability

Thread size					Model number	Minimum orifice diameter [mm]	Flow rate [L/min] at following pressure [MPa]							Spray angle at 0.3 MPa
1/4	3/8	1/2	3/4	1			0.05	0.1	0.2	0.3	0.5	0.7	1.0	
●					00865	0.5	0.37	0.50	0.67	0.80	1.00	1.15	1.34	65°
●					00890	0.5	0.37	0.50	0.67	0.80	1.00	1.15	1.34	90°
●					0165	0.6	0.46	0.62	0.84	1.00	1.25	1.44	1.68	65°
●					0190	0.6	0.46	0.62	0.84	1.00	1.25	1.44	1.68	90°
●	●				01565	0.7	0.68	0.94	1.26	1.50	1.87	2.2	2.5	65°
●	●				01590	0.7	0.68	0.94	1.26	1.50	1.87	2.2	2.5	90°
●	●				0265	0.8	0.93	1.25	1.68	2.0	2.5	2.9	3.4	65°
●	●				0290	0.8	0.93	1.25	1.68	2.0	2.5	2.9	3.4	90°
●	●	●			0365	1.0	1.39	1.87	2.5	3.0	3.7	4.3	5.0	65°
●	●	●			0390	1.0	1.39	1.87	2.5	3.0	3.7	4.3	5.0	90°
●	●	●			0465	1.2	1.85	2.5	3.4	4.0	5.0	5.8	6.7	65°
●	●	●			0490	1.2	1.85	2.5	3.4	4.0	5.0	5.8	6.7	90°
●	●	●			04110W	1.2	1.85	2.5	3.4	4.0	5.0	5.8	6.7	110°
●	●	●			0665	1.4	2.8	3.7	5.0	6.0	7.5	8.6	10.1	65°
●	●	●			0690	1.4	2.8	3.7	5.0	6.0	7.5	8.6	10.1	90°
●	●	●			06110W	1.4	2.8	3.7	5.0	6.0	7.5	8.6	10.1	110°
●	●	●			0865	1.6	3.7	5.0	6.7	8.0	10.0	11.5	13.4	65°
●	●	●			0890	1.6	3.7	5.0	6.7	8.0	10.0	11.5	13.4	90°
●	●	●			08110W	1.6	3.7	5.0	6.7	8.0	10.0	11.5	13.4	110°
●	●	●	●		1065	1.9	4.6	6.2	8.4	10.0	12.5	14.4	16.8	69°
●	●	●	●		1090	1.9	4.6	6.2	8.4	10.0	12.5	14.4	16.8	90°
●	●	●	●		10110W	1.9	4.6	6.2	8.4	10.0	12.5	14.4	16.8	110°
●	●	●	●		1565	2.2	6.9	9.4	12.6	15.0	18.7	21.6	25.2	65°
●	●	●	●		1590	2.2	6.9	9.4	12.6	15.0	18.7	21.6	25.2	90°
●	●	●	●		15110W	2.2	6.9	9.4	12.6	15.0	18.7	21.6	25.2	110°
	●	●	●		2065	2.5	9.3	12.5	16.8	20.0	24.9	28.8	33.6	65°
	●	●	●		2090	2.5	9.3	12.5	16.8	20.0	24.9	28.8	33.6	90°
	●	●	●		20110W	2.5	9.3	12.5	16.8	20.0	24.9	28.8	33.6	110°
		●	●		2565	2.8	11.6	15.6	21.0	25.0	31.2	36.0	42.0	65°
		●	●		2590	2.8	11.6	15.6	21.0	25.0	31.2	36.0	42.0	90°
		●	●		25110W	2.8	11.6	15.6	21.0	25.0	31.2	36.0	42.0	110°
		●	●		3065	3.1	13.9	18.7	25.2	30.0	37.4	43.2	50.4	65°
		●	●		3090	3.1	13.9	18.7	25.2	30.0	37.4	43.2	50.4	90°
		●	●		30110W	3.1	13.9	18.7	25.2	30.0	37.4	43.2	50.4	110°
		●	●		3565	3.4	16.2	21.8	29.4	35.0	43.6	50.4	58.8	65°
		●	●		3590	3.4	16.2	21.8	29.4	35.0	43.6	50.4	58.8	90°
		●	●		35110W	3.4	16.2	21.8	29.4	35.0	43.6	50.4	58.8	110°
			●	●	4065	3.7	18.5	25.0	33.6	40.0	49.9	57.6	67.2	65°
			●	●	4090	3.7	18.5	25.0	33.6	40.0	49.9	57.6	67.2	90°
			●	●	40110W	3.7	18.5	25.0	33.6	40.0	49.9	57.6	67.2	110°
			●	●	4565	4.0	20.8	28.1	37.8	45.0	56.1	64.8	75.6	65°
			●	●	4590	4.0	20.8	28.1	37.8	45.0	56.1	64.8	75.6	90°
			●	●	45110W	4.0	20.8	28.1	37.8	45.0	56.1	64.8	75.6	110°
			●	●	5065	4.3	23.2	31.2	42.0	50.0	62.3	72.0	84.0	65°
			●	●	5090	4.3	23.2	31.2	42.0	50.0	62.3	72.0	84.0	90°
			●	●	50110W	4.3	23.2	31.2	42.0	50.0	62.3	72.0	84.0	110°
				●	6065	4.6	27.8	37.4	50.4	60.0	74.8	86.4	101	65°
				●	6090	4.6	27.8	37.4	50.4	60.0	74.8	86.4	101	90°
				●	60110W	4.6	27.8	37.4	50.4	60.0	74.8	86.4	101	110°
				●	7065	4.9	32.4	43.7	58.8	70.0	87.3	101	118	65°
				●	7090	4.9	32.4	43.7	58.8	70.0	87.3	101	118	90°
				●	70110W	4.9	32.4	43.7	58.8	70.0	87.3	101	118	110°
				●	8065	5.2	37.1	49.9	67.3	80.0	99.7	115	134	65°
				●	8090	5.2	37.1	49.9	67.3	80.0	99.7	115	134	90°
				●	80110W	5.2	37.1	49.9	67.3	80.0	99.7	115	134	110°
				●	9065	5.6	41.7	56.2	75.7	90.0	112	130	151	65°
				●	9090	5.6	41.7	56.2	75.7	90.0	112	130	151	90°
				●	90110W	5.6	41.7	56.2	75.7	90.0	112	130	151	110°

Square Spray Nozzle Integral type



Features

- Spray pattern of square.
- Various flow rates and spray angles available.

Applications

- Various washing and cooling, etc.

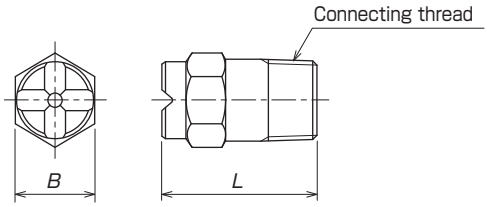
Materials

- 303 Stainless steel, Brass
- Plastics (PTFE, PVC, PP)

＊Regarding the correspondence of materials, it may not be possible to manufacture this type according to the specifications.

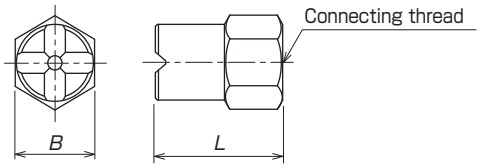
Shapes and dimensions

KS····SQS, Male thread type



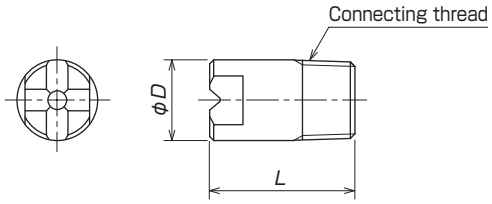
Model	Dimension [mm]		Connecting thread	Weight [g]
	B	L		
1/4 KS····SQS	14	25	R 1/4	25
3/8 KS····SQS	17	32	R 3/8	45
1/2 KS····SQS	22	38	R 1/2	90
3/4 KS····SQS	27	50	R 3/4	180
1 KS····SQS	35	60	R 1	330

KS····SQH, Female thread type



Model	Dimension [mm]		Connecting thread	Weight [g]
	B	L		
1/4 KS····SQH	19	32	Rc 1/4	55
3/8 KS····SQH	22	38	Rc 3/8	85
1/2 KS····SQH	27	50	Rc 1/2	160
3/4 KS····SQH	32	64	Rc 3/4	280
1 KS····SQH	41	80	Rc 1	550

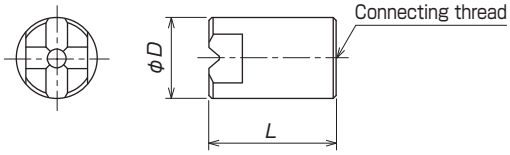
KS····SQHH, Male thread type



Model	Dimension [mm]		Connecting thread	Weight [g]
	D	L		
1/4 KS····SQHH	14	25	R 1/4	25
3/8 KS····SQHH	17	32	R 3/8	45
1/2 KS····SQHH	22	38	R 1/2	90
3/4 KS····SQHH	27	50	R 3/4	170
1 KS····SQHH	35	60	R 1	320

Model	Dimension [mm]		Connecting thread	Weight [kg]
	D	L		
1 1/4 KS····SQHH	42	70	R 1 1/4	0.5
1 1/2 KS····SQHH	48	85	R 1 1/2	0.8
2 KS····SQHH	60	110	R 2	1.5
2 1/4 KS····SQHH	80	140	R 2 1/4	3.4

KS····SQI, Female thread type

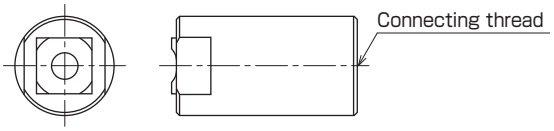


Model	Dimension [mm]		Connecting thread	Weight [g]
	D	L		
1/4 KS····SQI	19	32	Rc 1/4	55
3/8 KS····SQI	22	38	Rc 3/8	85
1/2 KS····SQI	28	50	Rc 1/2	170
3/4 KS····SQI	35	64	Rc 3/4	340
1 KS····SQI	40	80	Rc 1	540

Model	Dimension [mm]		Connecting thread	Weight [kg]
	D	L		
1 1/4 KS····SQI	50	95	Rc 1 1/4	1.0
1 1/2 KS····SQI	60	110	Rc 1 1/2	1.5
2 KS····SQI	70	130	Rc 2	2.5
2 1/2 KS····SQI	90	160	Rc 2 1/2	4.0
3 KS····SQI	100	190	Rc 3	6.0
4 KS····SQI	130	240	Rc 4	13
5 KS····SQI	160	300	Rc 5	22
6 KS····SQI	190	360	Rc 6	36
8 KS····SQI	240	480	Rc 8	73

＊NPT thread is also available.

KS····WSQI, Female thread type



＊When the injection angle is 90° or more, the shape of the orifice section may be different depending on the specification.

● Standard type model number list (model: KS····SQS / KS····SQHH, thread size: 1/4 to 1)

●: Model availability

Male thrad size					Model number	Minimum orifice diameter [mm]	Flow rate [L/min] at following pressure [MPa]							Spray angle at 0.3 MPa
1/4	3/8	1/2	3/4	1			0.05	0.1	0.2	0.3	0.5	0.7	1.0	
●					00865	0.5	0.37	0.50	0.67	0.80	1.00	1.15	1.34	65°
●					00890	0.5	0.37	0.50	0.67	0.80	1.00	1.15	1.34	90°
●					0165	0.6	0.46	0.62	0.84	1.00	1.25	1.44	1.68	65°
●					0190	0.6	0.46	0.62	0.84	1.00	1.25	1.44	1.68	90°
●	●				01565	0.7	0.68	0.94	1.26	1.50	1.87	2.2	2.5	65°
●	●				01590	0.7	0.68	0.94	1.26	1.50	1.87	2.2	2.5	90°
●	●				0265	0.8	0.93	1.25	1.68	2.0	2.5	2.9	3.4	65°
●	●				0290	0.8	0.93	1.25	1.68	2.0	2.5	2.9	3.4	90°
●	●	●			0365	1.0	1.39	1.87	2.5	3.0	3.7	4.3	5.0	65°
●	●	●			0390	1.0	1.39	1.87	2.5	3.0	3.7	4.3	5.0	90°
●	●	●			0465	1.2	1.85	2.5	3.4	4.0	5.0	5.8	6.7	65°
●	●	●			0490	1.2	1.85	2.5	3.4	4.0	5.0	5.8	6.7	90°
●	●	●			04110W	1.2	1.85	2.5	3.4	4.0	5.0	5.8	6.7	110°
●	●	●			0665	1.4	2.8	3.7	5.0	6.0	7.5	8.6	10.1	65°
●	●	●			0690	1.4	2.8	3.7	5.0	6.0	7.5	8.6	10.1	90°
●	●	●			06110W	1.4	2.8	3.7	5.0	6.0	7.5	8.6	10.1	110°
●	●	●			0865	1.6	3.7	5.0	6.7	8.0	10.0	11.5	13.4	65°
●	●	●			0890	1.6	3.7	5.0	6.7	8.0	10.0	11.5	13.4	90°
●	●	●			08110W	1.6	3.7	5.0	6.7	8.0	10.0	11.5	13.4	110°
●	●	●	●		1065	1.9	4.6	6.2	8.4	10.0	12.5	14.4	16.8	69°
●	●	●	●		1090	1.9	4.6	6.2	8.4	10.0	12.5	14.4	16.8	90°
●	●	●	●		10110W	1.9	4.6	6.2	8.4	10.0	12.5	14.4	16.8	110°
●	●	●	●		1565	2.2	6.9	9.4	12.6	15.0	18.7	21.6	25.2	65°
●	●	●	●		1590	2.2	6.9	9.4	12.6	15.0	18.7	21.6	25.2	90°
●	●	●	●		15110W	2.2	6.9	9.4	12.6	15.0	18.7	21.6	25.2	110°
	●	●	●		2065	2.5	9.3	12.5	16.8	20.0	24.9	28.8	33.6	65°
	●	●	●		2090	2.5	9.3	12.5	16.8	20.0	24.9	28.8	33.6	90°
	●	●	●		20110W	2.5	9.3	12.5	16.8	20.0	24.9	28.8	33.6	110°
		●	●		2565	2.8	11.6	15.6	21.0	25.0	31.2	36.0	42.0	65°
		●	●		2590	2.8	11.6	15.6	21.0	25.0	31.2	36.0	42.0	90°
		●	●		25110W	2.8	11.6	15.6	21.0	25.0	31.2	36.0	42.0	110°
		●	●		3065	3.1	13.9	18.7	25.2	30.0	37.4	43.2	50.4	65°
		●	●		3090	3.1	13.9	18.7	25.2	30.0	37.4	43.2	50.4	90°
		●	●		30110W	3.1	13.9	18.7	25.2	30.0	37.4	43.2	50.4	110°
		●	●		3565	3.4	16.2	21.8	29.4	35.0	43.6	50.4	58.8	65°
		●	●		3590	3.4	16.2	21.8	29.4	35.0	43.6	50.4	58.8	90°
		●	●		35110W	3.4	16.2	21.8	29.4	35.0	43.6	50.4	58.8	110°
			●	●	4065	3.7	18.5	25.0	33.6	40.0	49.9	57.6	67.2	65°
			●	●	4090	3.7	18.5	25.0	33.6	40.0	49.9	57.6	67.2	90°
			●	●	40110W	3.7	18.5	25.0	33.6	40.0	49.9	57.6	67.2	110°
			●	●	4565	4.0	20.8	28.1	37.8	45.0	56.1	64.8	75.6	65°
			●	●	4590	4.0	20.8	28.1	37.8	45.0	56.1	64.8	75.6	90°
			●	●	45110W	4.0	20.8	28.1	37.8	45.0	56.1	64.8	75.6	110°
			●	●	5065	4.3	23.2	31.2	42.0	50.0	62.3	72.0	84.0	65°
			●	●	5090	4.3	23.2	31.2	42.0	50.0	62.3	72.0	84.0	90°
			●	●	50110W	4.3	23.2	31.2	42.0	50.0	62.3	72.0	84.0	110°
				●	6065	4.6	27.8	37.4	50.4	60.0	74.8	86.4	101	65°
				●	6090	4.6	27.8	37.4	50.4	60.0	74.8	86.4	101	90°
				●	60110W	4.6	27.8	37.4	50.4	60.0	74.8	86.4	101	110°
				●	7065	4.9	32.4	43.7	58.8	70.0	87.3	101	118	65°
				●	7090	4.9	32.4	43.7	58.8	70.0	87.3	101	118	90°
				●	70110W	4.9	32.4	43.7	58.8	70.0	87.3	101	118	110°
				●	8065	5.2	37.1	49.9	67.3	80.0	99.7	115	134	65°
				●	8090	5.2	37.1	49.9	67.3	80.0	99.7	115	134	90°
				●	80110W	5.2	37.1	49.9	67.3	80.0	99.7	115	134	110°
				●	9065	5.6	41.7	56.2	75.7	90.0	112	130	151	65°
				●	9090	5.6	41.7	56.2	75.7	90.0	112	130	151	90°
				●	90110W	5.6	41.7	56.2	75.7	90.0	112	130	151	110°

● Standard type model number list (model: KS····SQH / KS····SQI, thread size: 1/4 to 1)

●: Model availability

Female thrad size					Model number	Minimum orifice diameter [mm]	Flow rate [L/min] at following pressure [MPa]							Spray angle at 0.3 MPa
1/4	3/8	1/2	3/4	1			0.05	0.1	0.2	0.3	0.5	0.7	1.0	
●					00865	0.5	0.37	0.50	0.67	0.80	1.00	1.15	1.34	65°
●					00890	0.5	0.37	0.50	0.67	0.80	1.00	1.15	1.34	90°
●					0165	0.6	0.46	0.62	0.84	1.00	1.25	1.44	1.68	65°
●					0190	0.6	0.46	0.62	0.84	1.00	1.25	1.44	1.68	90°
●	●				01565	0.7	0.68	0.94	1.26	1.50	1.87	2.2	2.5	65°
●	●				01590	0.7	0.68	0.94	1.26	1.50	1.87	2.2	2.5	90°
●	●				0265	0.8	0.93	1.25	1.68	2.0	2.5	2.9	3.4	65°
●	●				0290	0.8	0.93	1.25	1.68	2.0	2.5	2.9	3.4	90°
●	●	●			0365	1.0	1.39	1.87	2.5	3.0	3.7	4.3	5.0	65°
●	●	●			0390	1.0	1.39	1.87	2.5	3.0	3.7	4.3	5.0	90°
●	●	●			0465	1.2	1.85	2.5	3.4	4.0	5.0	5.8	6.7	65°
●	●	●			0490	1.2	1.85	2.5	3.4	4.0	5.0	5.8	6.7	90°
●	●	●			04110W	1.2	1.85	2.5	3.4	4.0	5.0	5.8	6.7	110°
●	●	●			0665	1.4	2.8	3.7	5.0	6.0	7.5	8.6	10.1	65°
●	●	●			0690	1.4	2.8	3.7	5.0	6.0	7.5	8.6	10.1	90°
●	●	●			06110W	1.4	2.8	3.7	5.0	6.0	7.5	8.6	10.1	110°
●	●	●			0865	1.6	3.7	5.0	6.7	8.0	10.0	11.5	13.4	65°
●	●	●			0890	1.6	3.7	5.0	6.7	8.0	10.0	11.5	13.4	90°
●	●	●			08110W	1.6	3.7	5.0	6.7	8.0	10.0	11.5	13.4	110°
●	●	●	●		1065	1.9	4.6	6.2	8.4	10.0	12.5	14.4	16.8	69°
●	●	●	●		1090	1.9	4.6	6.2	8.4	10.0	12.5	14.4	16.8	90°
●	●	●	●		10110W	1.9	4.6	6.2	8.4	10.0	12.5	14.4	16.8	110°
	●	●	●		1565	2.2	6.9	9.4	12.6	15.0	18.7	21.6	25.2	65°
	●	●	●		1590	2.2	6.9	9.4	12.6	15.0	18.7	21.6	25.2	90°
	●	●	●		15110W	2.2	6.9	9.4	12.6	15.0	18.7	21.6	25.2	110°
	●	●	●		2065	2.5	9.3	12.5	16.8	20.0	24.9	28.8	33.6	65°
	●	●	●		2090	2.5	9.3	12.5	16.8	20.0	24.9	28.8	33.6	90°
	●	●	●		20110W	2.5	9.3	12.5	16.8	20.0	24.9	28.8	33.6	110°
		●	●		2565	2.8	11.6	15.6	21.0	25.0	31.2	36.0	42.0	65°
		●	●		2590	2.8	11.6	15.6	21.0	25.0	31.2	36.0	42.0	90°
		●	●		25110W	2.8	11.6	15.6	21.0	25.0	31.2	36.0	42.0	110°
		●	●		3065	3.1	13.9	18.7	25.2	30.0	37.4	43.2	50.4	65°
		●	●		3090	3.1	13.9	18.7	25.2	30.0	37.4	43.2	50.4	90°
		●	●		30110W	3.1	13.9	18.7	25.2	30.0	37.4	43.2	50.4	110°
		●	●		3565	3.4	16.2	21.8	29.4	35.0	43.6	50.4	58.8	65°
		●	●		3590	3.4	16.2	21.8	29.4	35.0	43.6	50.4	58.8	90°
		●	●		35110W	3.4	16.2	21.8	29.4	35.0	43.6	50.4	58.8	110°
			●	●	4065	3.7	18.5	25.0	33.6	40.0	49.9	57.6	67.2	65°
			●	●	4090	3.7	18.5	25.0	33.6	40.0	49.9	57.6	67.2	90°
			●	●	40110W	3.7	18.5	25.0	33.6	40.0	49.9	57.6	67.2	110°
			●	●	4565	4.0	20.8	28.1	37.8	45.0	56.1	64.8	75.6	65°
			●	●	4590	4.0	20.8	28.1	37.8	45.0	56.1	64.8	75.6	90°
			●	●	45110W	4.0	20.8	28.1	37.8	45.0	56.1	64.8	75.6	110°
			●	●	5065	4.3	23.2	31.2	42.0	50.0	62.3	72.0	84.0	65°
			●	●	5090	4.3	23.2	31.2	42.0	50.0	62.3	72.0	84.0	90°
			●	●	50110W	4.3	23.2	31.2	42.0	50.0	62.3	72.0	84.0	110°
				●	6065	4.6	27.8	37.4	50.4	60.0	74.8	86.4	101	65°
				●	6090	4.6	27.8	37.4	50.4	60.0	74.8	86.4	101	90°
				●	60110W	4.6	27.8	37.4	50.4	60.0	74.8	86.4	101	110°
				●	7065	4.9	32.4	43.7	58.8	70.0	87.3	101	118	65°
				●	7090	4.9	32.4	43.7	58.8	70.0	87.3	101	118	90°
				●	70110W	4.9	32.4	43.7	58.8	70.0	87.3	101	118	110°
				●	8065	5.2	37.1	49.9	67.3	80.0	99.7	115	134	65°
				●	8090	5.2	37.1	49.9	67.3	80.0	99.7	115	134	90°
				●	80110W	5.2	37.1	49.9	67.3	80.0	99.7	115	134	110°
				●	9065	5.6	41.7	56.2	75.7	90.0	112	130	151	65°
				●	9090	5.6	41.7	56.2	75.7	90.0	112	130	151	90°
				●	90110W	5.6	41.7	56.2	75.7	90.0	112	130	151	110°
				●	10065	5.9	46.3	62.4	84.1	100	125	144	168	65°
				●	10090	5.9	46.3	62.4	84.1	100	125	144	168	90°
				●	100110W	5.9	46.6	62.4	84.1	100	125	144	168	110°

● Standard type model number list (model: KS····SQHH / KS····SQI, thread size: 1¼ to 2½)

●: Model availability

Male thread size KS····SQHH				Male thread size KS····SQI				Model number	Minimum orifice diameter [mm]	Flow rate [L/min] at following pressure [MPa]							Spray angle at 0.3 MPa
1¼	1½	2	2½	1¼	1½	2	2½			0.05	0.1	0.2	0.3	0.5	0.7	1.0	
●				●				6065	4.6	27.8	37.4	50.4	60.0	74.8	86.4	101	65°
●				●				6090	4.6	27.8	37.4	50.4	60.0	74.7	86.4	101	90°
●				●				60110W	4.6	27.8	37.4	50.4	60.0	74.8	86.4	101	110°
●				●				7065	4.9	32.4	43.7	58.8	70.0	87.3	101	118	65°
●				●				7090	4.9	32.4	43.7	58.8	70.0	87.3	101	118	90°
●				●				70110W	4.9	32.4	43.7	58.8	70.0	87.3	101	118	110°
●				●				8065	5.2	37.1	49.9	67.3	80.0	99.7	115	134	65°
●				●				8090	5.2	37.1	49.9	67.3	80.0	99.7	115	134	90°
●				●				80110W	5.2	37.1	49.9	67.3	80.0	99.7	115	134	110°
●				●				9065	5.6	41.7	56.2	75.7	90.0	112	130	151	65°
●				●				9090	5.6	41.7	56.2	75.7	90.0	112	130	151	90°
●				●				90110W	5.6	41.7	56.2	75.7	90.0	112	130	151	110°
●	●			●	●			10065	5.9	46.3	62.4	84.1	100	125	144	168	65°
●	●			●	●			10090	5.9	46.3	62.4	84.1	100	125	144	168	90°
●	●			●	●			100110W	5.9	46.3	62.4	84.1	100	125	144	168	110°
●	●			●	●			12565	6.6	57.9	78.0	105	125	156	180	210	65°
●	●			●	●			12590	6.6	57.9	78.0	105	125	156	180	210	90°
●	●			●	●			125110W	6.6	57.9	78.0	105	125	156	180	210	110°
	●			●	●			15065	7.2	69.5	93.6	126	150	187	216	252	65°
	●			●	●			15090	7.2	69.5	93.6	126	150	187	216	252	90°
	●			●	●			150110W	7.2	69.5	93.6	126	150	187	216	252	110°
	●				●			17565	7.8	81.1	109	147	175	218	252	294	65°
	●				●			17590	7.8	81.1	109	147	175	218	252	294	90°
	●				●			175110W	7.8	81.1	109	147	175	218	252	294	110°
	●	●			●	●		20065	8.4	92.6	125	168	200	249	288	336	65°
	●	●			●	●		20090	8.4	92.6	125	168	200	249	288	336	90°
	●	●			●	●		200110W	8.4	92.6	125	168	200	249	288	336	110°
		●			●	●		22565	8.9	104	140	189	225	280	324	376	65°
		●			●	●		22590	8.9	104	140	189	225	280	324	376	90°
		●			●	●		225110W	8.9	104	140	189	225	280	324	376	110°
		●			●	●		25065	9.4	116	156	210	250	312	360	420	65°
		●			●	●		25090	9.4	116	156	210	250	312	360	420	90°
		●			●	●		250110W	9.4	116	156	210	250	312	360	420	110°
		●			●	●		2765	9.9	127	172	231	275	343	396	462	65°
		●			●	●		2759	9.9	127	172	231	275	343	396	462	90°
		●			●	●		275110W	9.9	127	172	231	275	343	396	462	110°
		●				●		30065	10.3	139	187	252	300	374	432	504	65°
		●				●		30090	10.3	139	187	252	300	374	432	504	90°
		●				●		300110W	10.3	139	187	252	300	374	432	504	110°
		●				●		32565	10.7	151	203	273	325	405	468	546	65°
		●				●		32590	10.7	151	203	273	325	405	468	546	90°
		●				●		325110W	10.7	151	203	273	325	405	468	546	110°
		●				●		3065	11.1	162	218	294	350	436	504	588	65°
		●				●		35090	11.1	162	218	294	350	436	504	588	90°
		●				●		350110W	11.1	162	218	294	350	436	504	588	110°
		●	●			●	●	40065	11.9	185	250	336	400	499	576	672	65°
		●	●			●	●	40090	11.9	185	250	336	400	499	576	672	90°
		●	●			●	●	400110W	11.9	185	250	336	400	499	576	672	110°
						●	●	50065	13.3	232	312	420	500	623	720	840	65°
						●	●	50090	13.3	232	312	420	500	623	720	840	90°
						●	●	500110W	13.3	232	312	420	500	623	720	840	110°
							●	60065	14.5	278	374	504	600	748	864	1008	65°
							●	60090	14.5	278	374	504	600	748	864	1008	90°
							●	600110W	14.5	278	374	504	600	748	864	1008	110°
							●	70065	15.7	324	437	588	700	873	1008	1176	65°
							●	70090	15.7	324	437	588	700	873	1008	1176	90°
							●	7001110W	15.7	324	437	588	700	873	1008	1176	110°
							●	80065	16.8	371	499	673	800	997	1153	1344	65°
							●	80090	16.8	371	499	673	800	997	1153	1344	90°
							●	800110W	16.8	371	499	673	800	997	1153	1344	110°

● Standard type model number list (model: KS····SQI, thread size: 3 to 8)

●: Model availability

Female thrad size					Model number	Minimum orifice diameter [mm]	Flow rate [L/min] at following pressure [MPa]							Spray angle at 0.07 MPa
3	4	5	6	8			0.03	0.05	0.07	0.1	0.15	0.2	0.3	
●					90065	17	335	417	482	562	669	757	900	65°
●					90090	17	335	417	482	562	669	757	900	90°
●					100065	18	372	463	535	624	743	841	1000	65°
●					100090	18	372	463	535	624	743	841	1000	90°
	●				125065	20	465	579	669	780	929	1051	1250	65°
	●				125090	20	465	579	669	780	929	1051	1250	90°
	●				150065	22	558	695	803	936	1114	1261	1500	65°
	●				150090	22	558	695	803	936	1114	1261	1500	90°
		●			175065	24	651	811	937	1092	1300	1471	1750	65°
		●			175090	24	651	811	937	1092	1300	1471	1750	90°
		●			200065	26	744	926	1071	1248	1486	1681	2000	65°
		●			200090	26	744	926	1071	1248	1486	1681	2000	90°
		●			250065	29	930	1158	1338	1560	1857	2102	2500	65°
		●			250090	29	930	1158	1338	1560	1857	2102	2500	90°
			●		300065	32	1115	1390	1606	1872	2229	2522	3000	65°
			●		300090	32	1115	1390	1606	1872	2229	2522	3000	90°
			●		350065	34	1301	1621	1873	2184	2600	2942	3500	65°
			●		350090	34	1301	1621	1873	2184	2600	2942	3500	90°
			●		400065	37	1487	1853	2141	2496	2971	3363	4000	65°
			●		400090	37	1487	1853	2141	2496	2971	3363	4000	90°
				●	500065	41	1859	2316	2676	3120	3714	4203	5000	65°
				●	500090	41	1859	2316	2676	3120	3714	4203	5000	90°
				●	600065	45	2231	2779	3212	3744	4457	5044	6000	65°
				●	600090	45	2231	2779	3212	3744	4457	5044	6000	90°

* Method to calculate spray angles
- The spray angle for nozzle model numbers 80110W or less is calculated from the spray opposite side distance at a distance of 300 mm when spraying downward.
- The spray angle for nozzle model numbers 9065 or more and 80090 or less is calculated from the spray opposite side distance at a distance of 500 mm when spraying downward.
- The spray angle for nozzle model numbers 90065 or more is calculated from the spray opposite side distance at a distance of 1000 mm when spraying downward.

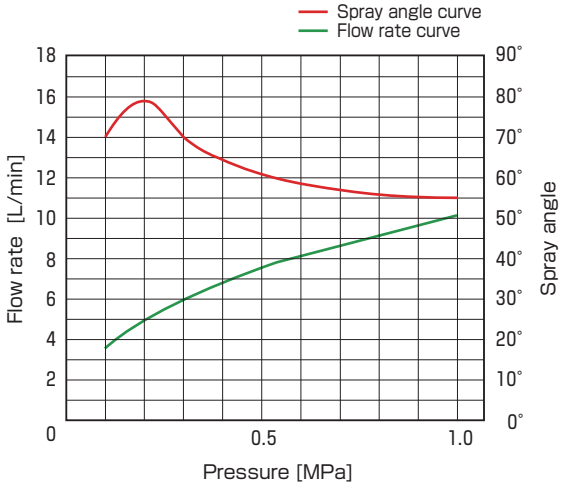
●Model and Model Number representing

1/4 — Thread size
K S — S: Material (S - Stainless steel, B - Brass)
0690 — Model number
SQS

Performance data

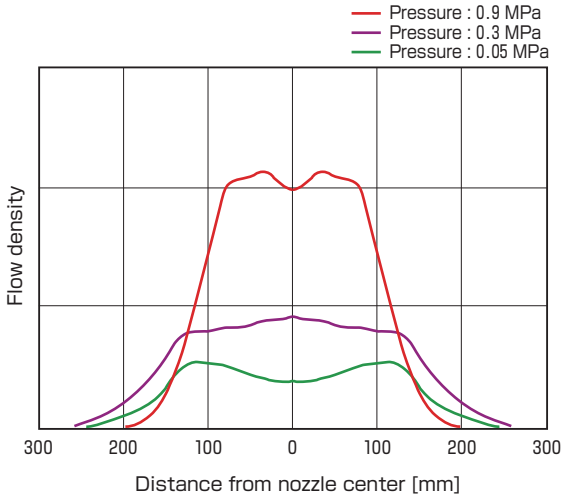
Characteristic curves

Nozzle model number 1/4 KB 0670 SQ



Flow distribution

Nozzle model number 1/4 KB 0670 SQ
Spray distance 300 mm
Measurement Horizontal distance end to end



Square Spray Nozzle Flange type



Feature

- Spray pattern of square.

Applications

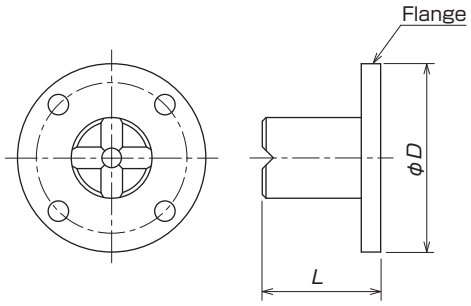
- Wastewater treatment, dust prevention.
- Seawater desalination, deaerators in plants.

Materials

- 304 Stainless steel

Shapes and dimensions

- KS····SQF



Model	Dimension [mm]		Flange size	Weight [kg]
	D	L		
3 KS····SQF	180	170	3 B	7
4 KS····SQF	200	215	4 B	13
5 KS····SQF	235	275	5 B	21
6 KS····SQF	265	340	6 B	30
8 KS····SQF	320	440	8 B	66

＊Flanges conform to JIS 5K flanges as a standard specification.

Standard type model number list (model: KS····SQF, flange size: 3B to 8B)

●: Model availability

Flange size					Model number	Minimum orifice diameter [mm]	Flow rate [L/min] at following pressure [MPa]							Spray angle at 0.07 MPa
3B	4B	5B	6B	8B			0.03	0.05	0.07	0.1	0.15	0.2	0.3	
●					90065	17	335	417	482	562	669	757	900	65°
●					90090	17	335	417	482	562	669	757	900	90°
●					100065	18	372	463	535	624	743	841	1000	65°
●					100090	18	372	463	535	624	743	841	1000	90°
	●				125065	20	465	579	669	780	929	1051	1250	65°
	●				125090	20	465	579	669	780	929	1051	1250	90°
	●				150065	22	558	695	803	936	1114	1261	1500	65°
	●				150090	22	558	695	803	936	1114	1261	1500	90°
		●			175065	24	651	811	937	1092	1300	1471	1750	65°
		●			175090	24	651	811	937	1092	1300	1471	1750	90°
		●			200065	26	744	926	1071	1248	1486	1681	2000	65°
		●			200090	26	744	926	1071	1248	1486	1681	2000	90°
		●			250065	29	930	1158	1338	1560	1857	2102	2500	65°
		●			250090	29	930	1158	1338	1560	1857	2102	2500	90°
			●		300065	32	1115	1390	1606	1872	2229	2522	3000	65°
			●		300090	32	1115	1390	1606	1872	2229	2522	3000	90°
			●		350065	34	1301	1621	1873	2184	2600	2942	3500	65°
			●		350090	34	1301	1621	1873	2184	2600	2942	3500	90°
			●		400065	37	1487	1853	2141	2496	2971	3363	4000	65°
			●		400090	37	1487	1853	2141	2496	2971	3363	4000	90°
				●	500065	41	1859	2316	2676	3120	3714	4203	5000	65°
				●	500090	41	1859	2316	2676	3120	3714	4203	5000	90°
				●	600065	45	2231	2779	3212	3744	4457	5044	6000	65°
				●	600090	45	2231	2779	3212	3744	4457	5044	6000	90°

＊ Method to calculate spray angles
• The spray angle is calculated from the spray opposite side distance at a distance of 1000 mm when spraying downward.